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PAGE INDEX NOTES	SUPPORTING INFORMATION	
1. When changes are made in this document, only those pages affected will be reissued.	CATEGORY	NUMBER
	GENERAL SYSTEM MAINTENANCE	BSP 233-140-100
	TOP DOCUMENT NO.3 ESS	BSP 233-142-100
	MAINTENANCE REFERENCE MAN.	PK-1C900-01 IS.1
	OUTPUT MESSAGE MANUAL	OM-3H300-03 IS.2
2. Pages that are not changed will retain their existing issue number.		
3. The last issue number of the page index is recognized as the latest number of the document as a whole.	ELECTRONIC SWITCHING SYSTEMS NO. 3	AT&TCo PROVISIONAL
	INPUT MESSAGE MANUAL	IM-3H300-03-A1 685 PAGES

Message Index

Allowed Channels

Message	C-Page	M M S T R O R T T O R S F A C R F B R O
ABT:DGN	1	X X
ABT:DGN	2	X
ABT:DGN	3	X
ABT:MSF	4	X
ABT:OTO	6	X
ACP:ALM	7	X
ACT:OA	8	X
ACT:OW	9	X
ALW:ADM	11	X X X X
ALW:BLDG	13	X
ALW:DSP	14	X X X
ALW:MASAU	15	X
ALW:MSF	16	X
ALW:NW	17	X
ALW:ORDUTIL	18	X
ALW:OW	19	X
ALW:SCHED	21	X
ALW:TAPEUTIL	22	X
ALW:TOCO	23	X
AU:MAINT	24	X X
AU:MAS	26	X
AUDIT:TAPE	28	X
BEGIN:NW	31	X
BEGIN:NW	32	X
BEGIN:SCHED	34	X
CLR:DELAY	37	X X X X X X X
CMPR:MAS	38	X
CNL:OW	40	X
COPY:FILE	42	X
COPY:TAPE	44	X
DGN:CU	47	X
DGN:FIOC	50	X X
DGN:JC	52	X X
DGN:NWC	54	X X
DGN:PPD	56	X X
DGN:RT	58	X X
DGN:SC	60	X X
DGN:SVC	62	X X
DGN:TAPE	64	X
DGN:TRK	65	X X
DGN:TTYC	67	X X
DGN:TV	69	X X
DIST:ABT	71	X

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Allowed Channels

<u>Message</u>	<u>C-Page</u>	M M S T R O R T T O R S F A C R F B R O
DIST:AMA	72	X
DIST:CAC	73	X
DIST:CALLBK	74	X
DIST:CDI	75	X
DIST:CF	76	X
DIST:CNTRIP	77	X
DIST:COD2	79	X
DIST:DIG	80	X
DIST:EXP1	82	X
DIST:EXP2	83	X
DIST:EXP4	84	X
DIST:EXP8	85	X
DIST:GRP	86	X
DIST:LCC	89	X
DIST:MR	90	X
DIST:NG	91	X
DIST:ODIG	93	X
DIST:PRECUT	94	X
DIST:RTI	95	X
DIST:SBIL	97	X
DIST:SCAN	98	X
DIST:SCRCLS	99	X
DIST:SCRTBL	100	X
DIST:SC30	101	X
DIST:SC8	102	X
DIST:SW	103	X
DIST:TOTANI	104	X
DIST:UPD	105	X
DMP:INITQ	106	X
DMP:OFLST	107	X
DMP:REG	109	X
DMP:ST	110	X
DMP:TAPE	112	X
EX:NW	115	X
EX:OTO	118	X
EX:SSP	120	X
EXC:PROG	123	X
IN:GENID	125	X
IN:ISSID	126	X
IN:OW	127	X
IN:OWDATA	129	X
IN:TAPE	131	X
INH:ADM	132	X X X X

Message Index

Allowed Channels

Message	C-Page	Allowed Channels									
		M	M	S	T	R	O	R			
		T	T	O	R	S	F	A			
		C	R		F	B	R	O			
INH:BLDG	133	X									
INH:DSP	134	X	X			X					
INH:DTDA	135	X									
INH:MASAU	136	X									
INH:MSF	137	X									
INH:NGC	138	X	X								
INH:NW	140	X									
INH:SCHED	141	X									
INIT:OWFILE	142	X									
INIT:PD	144	X									
INIT:PROG	146	X									
INIT:TAPE	147	X									
INIT:TTYC	148	X	X								
LOD:INDIR	149	X									
LOD:OMAS	151	X									
LOD:OW	153	X									
LOD:REG	155	X									
LOD:ST	157	X									
MON:ALNK	159	X									
MON:BLNK	161	X									
MON:INDIR	163	X									
MON:JC	165	X									
MON:LINE	167	X									
MON:REG	169	X									
MON:SCAN	171	X									
MON:ST	172	X									
MON:SVC	174	X									
MON:TRK	176	X									
OFR:UTIL	179	X	X	X	X	X	X	X	X		
OP:ALM	182	X	X								
OP:AMA	183	X	X								
OP:CLK	184	X									
OP:CU	185	X									
OP:DATA	186	X									
OP:DELAY	187	X	X	X	X	X	X	X	X		
OP:EXP	188	X	X	X	X	X	X	X	X		
OP:FEA	189	X	X	X	X	X	X	X	X		
OP:FLTS	200	X	X								
OP:HASH	201	X									
OP:HASHNR	203	X									
OP:LINE	205	X	X	X	X	X	X	X	X		
OP:MATCH	207	X	X	X	X	X	X	X	X		
OP:MON	215	X									

Message Index

Allowed Channels

Message	C-Page	M M S T R O R T T O R S F A C R F B R O
OP:MSF	216	X X X X X X X
OP:NW	217	X X X X X X X
OP:NW	218	X
OP:NW	220	X
OP:OA	221	X X
OP:OFR	222	X X X X X X X
OP:OW	236	X
OP:OWFILE	238	X
OP:POSTMORT	240	X
OP:RT	241	X X
OP:SVC	242	X X X X X X X
OP:SYC	244	X X
OP:TAPE	245	X
OP:TDC	246	X X
OP:TRK	247	X X X X X X X
OP:TTYC	249	X X
OP:UNAS	250	
ORD:CNTRL	251	X
ORD:IOM	252	X
ORD:MCH	253	X
ORD:NTST	255	X
ORD:NW	256	X
ORD:OMAS	262	X
ORD:OP	263	X
ORD:PPD	264	X
ORD:TST	266	X
RC:BTN	267	X
RC:CAC	270	X
RC:CDI	274	X
RC:CFN	280	X X
RC:CHI	282	X
RC:CKT	285	X
RC:CLS	292	X X X
RC:DIG	294	X
RC:DP	297	X
RC:GRP	299	X
RC:GTSA	310	X X X
RC:INCP	312	X X X
RC:LCC	314	X
RC:LINE	321	X X
RC:MLHG	339	X X
RC:MPTY	347	X X
RC:MTL	356	X X

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Allowed Channels

<u>Message</u>	<u>C-Page</u>	<u>M</u> <u>T</u> <u>C</u>	<u>M</u> <u>T</u> <u>R</u>	<u>S</u> <u>O</u> <u>R</u>	<u>T</u> <u>R</u> <u>F</u>	<u>R</u> <u>S</u> <u>B</u>	<u>O</u> <u>F</u> <u>R</u>	<u>R</u> <u>A</u> <u>O</u>
RC:NG	368		X					
RC:ODIG	371		X					
RC:OE	375		X					
RC:OFFICE	378		X					
RC:QDUMP	387		X	X		X		
RC:QH	389		X	X		X		
RC:REPT	392		X	X		X		
RC:RTI	396		X					
RC:SCHED	404		X	X		X		
RC:SCN	406		X		X			
RC:SCR	409		X					
RC:SP	412		X					
RC:TLU	426		X	X		X		
RC:TOTANI	428		X					
RC:TTY	433		X					
RC:TWOPTY	437		X		X			
RC:ZERO	446		X					
REPT:CKT	449		X					
REPT:NWC	450		X	X				
REPT:TAPE	451		X					
REPT:TRBL	452		X					
RESET:DTDA	454		X					
RESET:NW	455		X					
RMV:ALNK	456		X					
RMV:BLNK	458		X					
RMV:CU	460		X					
RMV:GRID	461		X					
RMV:JC	463		X					
RMV:LINE	465		X				X	
RMV:NWC	467		X	X				
RMV:OW	468		X					
RMV:PPD	470		X	X				
RMV:RT	471		X	X				
RMV:SC	472		X	X				
RMV:SSP	473		X					
RMV:SVC	474		X					
RMV:TAPE	476		X					
RMV:TRK	477		X		X			
RMV:TTYC	480		X	X				
RMV:TV	481		X					
RST:ALNK	483		X					
RST:BLNK	485		X					
RST:CU	487		X					

Message Index

Allowed Channels

Message	C-Page	M M S T R O R T T O R S F A C R F B R O
RST:GRID	488	X
RST:JC	490	X
RST:LINE	492	X X
RST:NWC	494	X X
RST:PCF	496	X X
RST:PPD	499	X X
RST:RT	501	X X
RST:SC	503	X X
RST:SSP	505	X
RST:SVC	506	X
RST:TAPE	508	X
RST:TRK	509	X
RST:TTYC	511	X X
RST:TV	512	X
RTE:ALM	514	X
SCHED:OFR	515	X X X X X X X
SET:CLK	518	X
SET:CUT	519	X X
SET:INDIR	520	X
SET:MATCH	522	X
SET:PRECUT	524	X X
STOP:CKT	525	X
STOP:EX	527	X
STOP:MON	528	X
STOP:NWC	529	X X
STOP:OA	530	X
STOP:ORDUTIL	531	X
STOP:OW	532	X
STOP:PROG	533	X
STOP:REPT	534	X
STOP:RPT	535	X
STOP:TAPEUTIL	536	X
STOP:TOCO	537	X
STOP:UTIL	538	X
SW:INIT	539	X
SW:RT	540	X X
SW:SYC	541	X
TRC:ENTER	543	X X
TRC:ERASE	544	X X
TRC:OE	545	X X
TRC:SCHED	546	X
TRC:TN	547	X X
TST:BB	548	X

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Allowed Channels

<u>Message</u>	<u>C-Page</u>	M M S T R O R T T O R S F A C R F E R O
TST:LINE	549	X X X
TST:SCC	551	X
UPD:HASH	555	X
UPD:OMAS	557	X
UPD:OMAS	559	X
UPD:OWFILE	560	X
VER:CDI	563	
VER:CFN	564	X X X X X X X
VER:CHI	565	
VER:DATE	566	X
VER:DIG	567	
VER:FATDEF	568	X X X X X X X
VER:GPR	569	
VER:HASH	570	X
VER:LCC	572	
VER:LINE	573	X X X X X X X
VER:LSTOE	575	
VER:LSTRIG	576	X X X X X X X
VER:LSTTCI	577	X X X X X X X
VER:MPTY	578	X X X X X X X
VER:MRI	580	X X X X X X X
VER:MTL	581	X X X X X X X
VER:OCDNOC	583	
VER:OE	584	X X X X X X X
VER:OFFICE	587	
VER:OW	588	X
VER:RTI	590	
VER:SCN	591	X X X X X X X
VER:SCR	592	
VER:SMRI	593	
VER:THDIG	594	
VER:TWOPTY	595	X X X X X X X
VER:1DIG	597	

MAINTENANCE

CHANNEL MANUAL

PAGE INDEX

The following message page(s) cover the complete group of messages used on the MAINTENANCE (MTC) teletypewriter channel

This page should be attached when the MTC manual is distributed.

Method of Ordering

This manual should be ordered as follows:

IM-3H300-03-AA1-M

<u>Message</u>	<u>C-Page No.</u>
ABT:DGN	1
ABT:DGN	2
ABT:DGN	3
ABT:MSF	4-5
ABT:OTO	6
ACP:ALM	7
ACT:OA	8
ACT:OW	9-10
ALW:ADM	11-12
ALW:BLDG	13
ALW:DSP	14
ALW:MASAU	15
ALW:MSF	16
ALW:NW	17
ALW:ORDUTIL	18
ALW:OW	19-20
ALW:SCHED	21
ALW:TAPEUTIL	22
ALW:TOCO	23
AU:MAINT	24-25
AU:MAS	26-27
AUDIT:TAPE	28-30
BEGIN:NW	31
BEGIN:NW	32-33
BEGIN:SCHED	34-36
CLR:DELAY	37
CMPR:MAS	38-39
CNL:OW	40-41
COPY:FILE	42-43
COPY:TAPE	44-46
DGN:CU	47-49
DGN:FIOC	50-51
DGN:JC	52-53
DGN:NWC	54-55
DGN:PPD	56-57
DGN:RT	58-59
DGN:SC	60-61

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MAINTENANCE

CHANNEL MANUAL

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<u>Message</u>	<u>C-Page No.</u>
DGN:SVC	62-63
DGN:TAPE	64
DGN:TRK	65-66
DGN:TTYC	67-68
DGN:TV	69-70
DIST:ABT	71
DIST:AMA	72
DIST:CAC	73
DIST:CALLBK	74
DIST:CDI	75
DIST:CF	76
DIST:CNTRIP	77-78
DIST:COD2	79
DIST:DIG	80-81
DIST:EXP1	82
DIST:EXP2	83
DIST:EXP4	84
DIST:EXP8	85
DIST:GRP	86-88
DIST:LCC	89
DIST:MR	90
DIST:NG	91-92
DIST:ODIG	93
DIST:PRECUT	94
DIST:RTI	95-96
DIST:SBIL	97
DIST:SCAN	98
DIST:SCRCLS	99
DIST:SCRTBL	100
DIST:SC30	101
DIST:SC8	102
DIST:SW	103
DIST:TOTANI	104
DIST:UPD	105
DMP:INITQ	106
DMP:OFLST	107-108
DMP:REG	109
DMP:ST	110-111
DMP:TAPE	112-114
EX:NW	115-117
EX:OTO	118-119
EX:SSP	120-122
EXC:PROG	123-124
IN:GENID	125
IN:ISSID	126
IN:OW	127-128
IN:OWDATA	129-130

MAINTENANCE

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<u>Message</u>	<u>C-Page No.</u>
IN:TAPE	131
INH:ADM	132
INH:BLDG	133
INH:DSP	134
INH:DTDA	135
INH:MASAU	136
INH:MSF	137
INH:NGC	138-139
INH:NW	140
INH:SCHED	141
INIT:OWFILE	142-143
INIT:PD	144-145
INIT:PROG	146
INIT:TAPE	147
INIT:TTYC	148
LOD:INDIR	149-150
LOD:OMAS	151-152
LOD:OW	153-154
LOD:REG	155-156
LOD:ST	157-158
MON:ALNK	159-160
MON:BLNK	161-162
MON:INDIR	163-164
MON:JC	165-166
MON:LINE	167-168
MON:REG	169-170
MON:SCAN	171
MON:ST	172-173
MON:SVC	174-175
MON:TRK	176-178
OFR:UTIL	179-181
OP:ALM	182
OP:AMA	183
OP:CLK	184
OP:CU	185
OP:DATA	186
OP:DELAY	187
OP:EXP	188
OP:FEA	189-199
OP:FLTS	200
OP:HASH	201-202
OP:HASHNR	203-204
OP:LINE	205-206
OP:MATCH	207-214
OP:MON	215
OP:MSF	216
OP:NW	217

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<u>Message</u>	<u>C-Page No.</u>
OP:NW	218-219
OP:NW	220
OP:OA	221
OP:OFR	222-235
OP:OW	236-237
OP:OWFILE	238-239
OP:POSTMORT	240
OP:RT	241
OP:SVC	242-243
OP:SYC	244
OP:TAPE	245
OP:TDC	246
OP:TRK	247-248
OP:TTYC	249
ORD:CNTRL	251
ORD:IOM	252
ORD:MCH	253-254
ORD:NTST	255
ORD:NW	256-261
ORD:OMAS	262
ORD:OP	263
ORD:PPD	264-265
ORD:TST	266
RC:BTN	267-269
RC:CAC	270-273
RC:CDI	274-279
RC:CFN	280-281
RC:CHI	282-284
RC:CKT	285-291
RC:CLS	292-293
RC:DIG	294-296
RC:DP	297-298
RC:GRP	299-309
RC:GTSA	310-311
RC:INCP	312-313
RC:LCC	314-320
RC:LINE	321-338
RC:MLHG	339-346
RC:MPTY	347-355
RC:MTL	356-367
RC:NG	368-370
RC:ODIG	371-374
RC:OE	375-377
RC:OFFICE	378-386
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RC:REPT	392-395

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CHANNEL MANUAL
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RC:RTI	396-403
RC:SCHED	404-405
RC:SCN	406-408
RC:SCR	409-411
RC:SP	412-425
RC:TLU	426-427
RC:TOTANI	428-432
RC:TTY	433-436
RC:TWOPTY	437-445
RC:ZERO	446-448
REPT:CKT	449
REPT:NWC	450
REPT:TAPE	451
REPT:TRBL	452-453
RESET:DTDA	454
RESET:NW	455
RMV:ALNK	456-457
RMV:BLNK	458-459
RMV:CU	460
RMV:GRID	461-462
RMV:JC	463-464
RMV:LINE	465-466
RMV:NWC	467
RMV:OW	468-469
RMV:PPD	470
RMV:RT	471
RMV:SC	472
RMV:SSP	473
RMV:SVC	474-475
RMV:TAPE	476
RMV:TRK	477-479
RMV:TTYC	480
RMV:TV	481-482
RST:ALNK	483-484
RST:BLNK	485-486
RST:CU	487
RST:GRID	488-489
RST:JC	490-491
RST:LINE	492-493
RST:NWC	494-495
RST:PCF	496-498
RST:PPD	499-500
RST:RT	501-502
RST:SC	503-504
RST:SSP	505
RST:SVC	506-507
RST:TAPE	508

MAINTENANCE
CHANNEL MANUAL
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<u>Message</u>	<u>C-Page No.</u>
RST:TRK	509-510
RST:TTYC	511
RST:TV	512-513
RTE:ALM	514
SCHED:OFR	515-517
SET:CLK	518
SET:CUT	519
SET:INDIR	520-521
SET:MATCH	522-523
SET:PRECUT	524
STOP:CKT	525-526
STOP:EX	527
STOP:MON	528
STOP:NWC	529
STOP:OA	530
STOP:ORDUTIL	531
STOP:OW	532
STOP:PROG	533
STOP:REPT	534
STOP:RPT	535
STOP:TAPEUTIL	536
STOP:TOCO	537
STOP:UTIL	538
SW:INIT	539
SW:RT	540
SW:SYC	541-542
TRC:ENTER	543
TRC:ERASE	544
TRC:OE	545
TRC:SCHED	546
TRC:TN	547
TST:BB	548
TST:LINE	549-550
TST:SCC	551-554
UPD:HASH	555-556
UPD:OMAS	557-558
UPD:OMAS	559
UPD:OWFILE	560-562
VER:CFN	564
VER:DATE	566
VER:FATDEF	568
VER:HASH	570-571
VER:LINE	573-574
VER:LSTRIG	576
VER:LSTTCI	577
VER:MPTY	578-579
VER:MRI	580

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<u>Message</u>	<u>C-Page No.</u>
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VER:OE	584-586
VER:OW	588-589
VER:SCN	591
VER:TWOPTY	595-596

MAINTENANCE BACKUP

CHANNEL MANUAL

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The following message page(s) cover the complete group of messages used on the MAINTENANCE BACKUP (MTR) teletypewriter channel

This page should be attached when the MTR manual is distributed.

Method of Ordering

This manual should be ordered as follows:

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<u>Message</u>	<u>C-Page No.</u>
ABT:DGN	1
ALW:ADM	11-12
ALW:DSP	14
AU:MAINT	24-25
CLR:DELAY	37
DGN:FIOC	50-51
DGN:JC	52-53
DGN:NWC	54-55
DGN:PPD	56-57
DGN:RT	58-59
DGN:SC	60-61
DGN:SVC	62-63
DGN:TRK	65-66
DGN:TTYC	67-68
DGN:TV	69-70
INH:ADM	132
INH:DSP	134
INH:NGC	138-139
INIT:TTYC	148
OFR:UTIL	179-181
OP:ALM	182
OP:AMA	183
OP:DELAY	187
OP:EXP	188
OP:FEA	189-199
OP:FLTS	200
OP:LINE	205-206
OP:MATCH	207-214
OP:MSF	216
OP:NW	217
OP:OA	221
OP:OFR	222-235
OP:RT	241
OP:SVC	242-243
OP:SYC	244
OP:TDC	246
OP:TRK	247-248

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SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

MAINTENANCE BACKUP
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<u>Message</u>	<u>C-Page No.</u>
OP:TTYC	249
RC:CLS	292-293
RC:GTSA	310-311
RC:INCP	312-313
RC:QDUMP	387-388
RC:QH	389-391
RC:REPT	392-395
RC:SCHED	404-405
RC:TLU	426-427
REPT:NWC	450
RMV:NWC	467
RMV:PPD	470
RMV:RT	471
RMV:SC	472
RMV:TTYC	480
RST:NWC	494-495
RST:PCF	496-498
RST:PPD	499-500
RST:RT	501-502
RST:SC	503-504
RST:TTYC	511
SCHED:OFR	515-517
SET:CUT	519
SET:PRECUT	524
STOP:NWC	529
SW:RT	540
TST:LINE	549-550
VER:CFN	564
VER:FATDEF	568
VER:LINE	573-574
VER:LSTRIG	576
VER:LSTTCI	577
VER:MPTY	578-579
VER:MRI	580
VER:MTL	581-582
VER:OE	584-586
VER:SCN	591
VER:TWOPTY	595-596

TRAFFIC
CHANNEL MANUAL
PAGE INDEX

The following message page(s) cover the complete group of messages used on the TRAFFIC (TRF) teletypewriter channel

This page should be attached when the TRFmanual is distributed.

Method of Ordering

This manual should be ordered as follows:
IM-3H300-03-AA3-M

<u>Message</u>	<u>C-Page No.</u>
ALW:ADM	11-12
ALW:DSP	14
CLR:DELAY	37
INH:ADM	132
INH:DSP	134
OFR:UTIL	179-181
OP:DELAY	187
OP:EXP	188
OP:FEA	189-199
OP:LINE	205-206
OP:MATCH	207-214
OP:MSF	216
OP:NW	217
OP:OFR	222-235
OP:SVC	242-243
OP:TRK	247-248
RC:CLS	292-293
RC:GTSA	310-311
RC:INCP	312-313
RC:QDUMP	387-388
RC:QH	389-391
RC:REPT	392-395
RC:SCHED	404-405
RC:TLU	426-427
SCHED:OFR	515-517
VER:CFN	564
VER:FATDEF	568
VER:LINE	573-574
VER:LSTRIG	576
VER:LSTTCI	577
VER:MPTY	578-579
VER:MRI	580
VER:MTL	581-582
VER:OE	584-586
VER:SCN	591
VER:TWOPTY	595-596

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL
SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

SERVICE ORDER

CHANNEL MANUAL

PAGE INDEX

The following message page(s) cover the complete group of messages used on the SERVICE ORDER (SO) teletypewriter channel

This page should be attached when the SO manual is distributed.

Method of Ordering

This manual should be ordered as follows:

IM-3H300-03-AA4-M

<u>Message</u>	<u>C-Page No.</u>
ALW:ADM	11-12
CLR:DELAY	37
INH:ADM	132
OFR:UTIL	179-181
OP:DELAY	187
OP:EXP	188
OP:FEA	189-199
OP:LINE	205-206
OP:MATCH	207-214
OP:MSF	216
OP:NW	217
OP:OFR	222-235
OP:SVC	242-243
OP:TRK	247-248
RC:CFN	280-281
RC:LINE	321-338
RC:MLHG	339-346
RC:MPTY	347-355
RC:MTL	356-367
RC:SCN	406-408
RC:TWOPTY	437-445
RMV:TRK	477-479
SCHED:OFR	515-517
TRC:ENTER	543
TRC:ERASE	544
TRC:OE	545
TRC:TN	547
VER:CFN	564
VER:FATDEF	568
VER:LINE	573-574
VER:LSTRIG	576
VER:LSTTCI	577
VER:MPTY	578-579
VER:MRI	580
VER:MTL	581-582
VER:OE	584-586
VER:SCN	591

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL
SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

SERVICE ORDER
CHANNEL MANUAL
PAGE INDEX (CONTINUED)

Message

C-Page No.

VER:TWOPTY

595-596

REPAIR SERVICE BUREAU

CHANNEL MANUAL

PAGE INDEX

The following message page(s) cover the complete group of messages used on the REPAIR SERVICE BUREAU (RSB) teletypewriter channel.

This page should be attached when the RSB manual is distributed.

Method of Ordering

This manual should be ordered as follows:

IM-3H300-03-AA5-M

<u>Message</u>	<u>C-Page No.</u>
CLR:DELAY	37
OFR:UTIL	179-181
OP:DELAY	187
OP:EXP	188
OP:FEA	189-199
OP:LINE	205-206
OP:MATCH	207-214
OP:MSF	216
OP:NW	217
OP:OFR	222-235
OP:SVC	242-243
OP:TRK	247-248
RMV:LINE	465-466
RST:LINE	492-493
SCHED:OFR	515-517
TST:LINE	549-550
VER:CFN	564
VER:FAIDF	568
VER:LINE	573-574
VER:LSTRIG	576
VER:LSTTCI	577
VER:MPTY	578-579
VER:MRI	580
VER:MTL	581-582
VER:OE	584-586
VER:SCN	591
VER:TWOPTY	595-596

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL
SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

TABLE OF CONTENTS FOR B SECTION OF THE INPUT MESSAGE MANUAL

1. Introduction
2. Differences between S0-2 and 3E3
3. How to use this manual
4. Acknowledgments to input messages
5. Paper tape communication
6. Action verb options for messages
7. Topical index

APPLICATION

1. INTRODUCTION

0.01 This document, the Input Message Manual, lists all the teletypewriter (TTY) messages which can be transmitted from a No. 3 ESS TTY to effect a specific system action. A description of each message and its use, as well as cautions and expected results, are given in the C section of this document.

0.02 All input messages conform to the following message format:

Principal Action	Identification	Allowed Action Options

For example a typical format would read:

ACTION:IDENTIFICATION;ACTION OPTION!

2. DIFFERENCES BETWEEN SO-2 AND 3E3

0.01 The following information gives a brief description of and rationale for the differences between The Input Manual (IM) for the new 3E3 generic program and its predecessor SO-2, Issue 4. Where appropriate it also tells why the differences exist. The major enhancement included in Issue 2 of 3E3 is improved remreed diagnostic aids. The use of the aids is fully described in PK 3H-301-01.

A. Office Administration

Reallocation

Several messages concerning reallocation were supplemented or added.

DIST:EXP8 - Distribute Expansion 8 is available to

reallocate the eight-word expansion blocks now available in 3E3. To obtain a count of all spare expansion blocks in the office, OP:EXP may be used.

DIST:LCC - Distribute Line Class Code (LCC) was added to provide reallocation of LCC tables which now reside in resident memory and not in a separate file on the tape unit. Because of this the message to copy line class code tables (COPY:LCCTBL) was eliminated.

The following reallocation messages have the same format and function in both 3E3 and SO-2 but their range has been expanded in the 3E3 because their ultimate table sizes have been increased.

DIST:SCRCLS DIST:SCRTBL
DIST:SC30 DIST:SC8
DIST:TOTANI

Recent Change

The Recent Change Line (RC:LINE) message has keywords Customer Changeable Speed Call [1] digit (CLS1), Customer Changeable Speed Call 2 digit (CLS2), and Remote Office Test Line (ROTL) Automatic Maintenance Limit (RAML) available in 3E3 but not in SO-2. The new keyword RAML allows ROTL to take more trunks out-of-service than the out-of-service maintenance limit allows. Keywords CLS1 and CLS2 are used to allow (or inhibit) customers to change their own speed calling lists. These are new features in 3E3.

New features in recent change messages for individual lines, (RC:LINE, RC:MPTY, RC:MTL, and RC:TWOPTY) were added to Prohibit Automatic Line Insulation Testing (PLIT) and Inhibit Receiver Off-Hook tone (ROH). The PLIT feature prevents the Automatic Line Insulation Test (ALIT) from testing on lines with known failures. Subscriber lines working on subscriber carriers should also be marked to inhibit the ROH tone (ROH YES). The ROH tone will be replaced by high tone and prevent crosstalk of ROH tone on other subscriber lines.

Several keywords in the Recent Change Office (RC:OFFICE) message have been added or changed.

- Inhibit Call Forwarding Print (ICFP) and Inhibit Customer Dial Changes (ICDC) are new features added. ICFP inhibits printing of a message every time a customer activates or deactivates his call forwarding service. ICDC inhibits customers from changing the digits in speed calling or call forwarding list and is

to be used only as a temporary maintenance aid when performing generic changes or any time memory comparison will be required due to some maintenance function.

- Keyword ICS is available in 3E3 to set the office default value for one or two digit customer changeable speed call. This was added as an office option to allow or inhibit all customers the capability of changing their speed calling lists depending on Telephone Company tariff provisions.
- Reverse Tip and Ring for 911 Service (RSV911) keyword was changed to Emergency Bureau Service (EBS) in 3E3.
- Keyword for number of equipped control frames (NETS) in SO-2 is now divided into two separate messages; number of equipped control frames for call processing (NETP) and number of equipped control frames for maintenance (NETM). When keyword NETP and NETM are used, the number of equipped control frames available for call processing or maintenance will be established.
- 3E3 has expanded the Number Plan Areas (NPA) to four NPAs, compared to two NPAs in SO-2.
- Hit timing (HIT) option is available in 3E3 so hit timing can be added or deleted. This feature provides filtering of hits on outgoing trunks and helps to eliminate unnecessary high and wet TTY messages caused by short hits on trunks.
- Automatic Line Insulation Test Circuit (ALITC) keyword existing in SO-2 is not required in 3E3 because the program now resides in resident memory.

International Direct Distance Dialing (IDDD) is a new feature available in 3E3. This feature allows customers to have direct international calling capability with 15 digits or less. Two new messages, Recent Change Country Access Code (RC:CAC) and Distribute Country Access Code (DIST:CAC) are used in conjunction with IDDD to change and generate CAC tables. In SO-2, the keyword IDD provided for routing IDDD calls to a TSPS trunk group without any check on the validity of the digits dialed.

Recent Change Speed Call Number (RC:SCN) in both generics is used to change the speed calling list of a customer. The keyword Speed Call Number (SCN) has been changed to DCS in 3E3, and two new keywords have been added, order number (ORD) and terminal equipment number (OE).

The recent change message to schedule traffic printouts and daily routines, Recent Change Report (RC:REPT), has added

keyword Class (CLS). Keyword CLS is used with the software message register schedule and specifies which TTY controller to use when printing the contents of the software message register data. Message, register data no longer has to be printed at same location as traffic register data.

Recent Change Group (RC:GRP) has combined the keywords Inband Signaling (INBD), and Multiwink Signaling (MWS) in SO-2, into keyword Signaling (SIG) in 3E3. Also, Keyword Single Wink (SGNWK) is replaced by keyword EBS and provides for a single flash on 911 trunks. New keywords have been added to to inhibit trunk diagnostic (IDGN) and trunk Office to Office (OTO or TOTANI) tests during the nightly routines.

A Remarks (RMK) keyword has been added to several recent change messages. Messages which may now contain remarks are:

RC:CDI	RC:CHI	RC:CKT	RC:DIC
RC:LCC	RC:ODIG	RC:OE	RC:SCR
RC:SP	RC:TTY	RC:REPT	RC:NG
RC:MLHG	RC:RTI	RC:TOTANI	RC:GRP
RC:OFFICE			

The RMK keyword can be used to provide information for office records, to add annotations, or to delete a remark to keep records up-to-date.

The Recent Change Zero (RC:ZERO) message now has keyword Zero Call Forwarding (ZCF). If used, all active customer call forwarding information will be destroyed as the message will zero the call forwarding list. RC:ZERO is used to zero translations that appear to be incorrect and the normal RC message is unable to correct the problem. This message must be used with caution.

Record Verification

Output Office Records (OP:OFR) has been supplemented to provide printouts for most of the office translation records. It may be also used to add or remove remarks associated with a telephone number. This feature will allow an administrator to request all or a portion of the records to be printed.

The OP:OFR message in 3E3 Generic replaced many of the verify messages used in SO-2. The verify messages available with 3E3 are:

VER:CFN	(Verify call forwarding number)
VER:DATE	(Verify date of translation and backdate files)
VER:FATDEF	(Verify default code index for local and foreign area translator tables of the search type)
VER:HASH:GENERIC	(Verify hashsums of the generic)
VER:HASH:TRNSLN	(Verify hashsums of translations)
VER:LINE	(Verify customer line translations)
VER:MPTY	(Verify multiparty line translations)
VER:MRI	(Verify contents of software message registers)
VER:MTL	(Verify multiline hunt terminal translations)
VER:OE	(Verify office equipment number translations)
VER:OW	(Verify data in the overwrite buffer)
VER:SCN	(Verify speed calling numbers on a customers line)
VER:TWOPTY	(Verify two-party line translations)
VER:LSTRIC	(Verify route indexes to trunk or service circuit groups)
VER:LSTTCI	(Verify three digit codes pointing to a code index)

- OP:DELAY u! - Outputs the contents of an OP:OFR message previously input with the delay option. This message is used to verify OP:OFR messages in the delay category.

- CLR:DELAY u! - Is used to remove an OP:OFR delay request.

Output Feature (OP:FEA) is a new message in 3E3 to search through all the originating and terminating telephone number translations or through a specified range. The program will generate a list or count of lines with a specific feature or combination of features.

Output Match (OP:MATCH) provides a similar feature for generating a list or count of lines with the same line parameters, such as RTI, LCC, etc.

Statistical data on lines, number of working main stations, working terminals, lines requiring special or regular ringers, line class codes and lines assigned to each LCC can be obtained using the Output Office Records (OP:OFR FORM 3891) message.

B. System Maintenance

A general scheduler of nightly routines has been added to 3E3. The general scheduler will invoke all the programs currently in the "daisy chain" or nightly routines along with additional programs.

The following messages have been added to execute the general scheduler features:

Allow execution of the general scheduler - ALW:SCHED

Begin execution of general scheduler - BEGIN:SCHED
 Trace execution of general scheduler - TRC:SCHED
 Schedule the office records - SCHED:OFR
 Inhibit execution of general scheduler - INH:SCHED

A System Status Panel (SSP) program is available as a new feature to provide an SSP exercise test. Following are messages to execute the SSP test:

- Exercise System Status Panel (EX:SSP)
- Remove System Status Panel (RMV:SSP)
- Restore System Status Panel (RST:SSP)
- Stop System Status Panel Exercise (STOP:EX:SSP)

The following diagnostic messages of the 3E3 include a detail (DETL) option:

DGN:FIOC	DGN:JC
DGN:NWC	DGN:PPD
DGN:TR	DGN:SC
DGN:SVC	DGN:TVTC
DGN:TTYC	DGN:TRK

The DETL option provides for printing all error messages which might otherwise be lost due to overflow of the TTY buffer. This option will cause the diagnostic program to wait so that error messages can be outputted before continuing. A new option, Diagnose Processor Control Unit Override (DGN:CU;OVRD), has been added to the 3E3 generic CU diagnostics. This option was added to prevent termination of the diagnostic when a main store (MAS) error occurs. It may be used when DGN CU x STOPPED MAS ERR is received, indicating CU diagnostics have been inhibited due to a main store error.

The following messages are available in 3E3 to output the status of the Automatic Message Accounting (AMA) unit and the Tape Data Controller (TDC).

- OP:AMA:STAT! Outputs the AMA status of both the primary and backup facility. This message will indicate if the facility is active (ACT) or out-of-service (OOS).
- OP:TDC:STAT! Outputs the status of TDC 0 and 1. Status will reflect either in-service (INS) or out-of-service (OOS).

The following input messages have an unconditional (UCL) option, which does not exist in SO-2. It has been added to execute the action regardless of the system status.

- Audit Main Store (AD:MAS)
- Activate Overwrite (ACT:OW)

The Dump Tape (DMP:TAPE) message has been expanded to include Dump Tape Segment (DMP:TAPE a, SEG), and Dump Tape Label (DMP:TAPE a, LABEL). These messages will output a segment of tape and the tape label file on the TTY.

Update Off-line Main Store Maintenance Channel (UPD:OMAS:MCH) available with 3E3 will update the off-line main store using only the maintenance channel when an on-line store bus has failed and the off-line cannot be restored.

An abort tape diagnostics (ABT:DGN TAPE) message is available in 3E3. This feature did not exist in SO-2.

Copy File (COPY:FILE) is available in 3E3 to copy any file from Tape "0" (master tape) to Tape "1". This message will not copy files which reside on more than one track unless the directory entries on both tapes match.

COPY:TAPE, which copies one track of Tape A to Tape B in SO-2 has been modified in the 3E3 generic so it can copy any track and block of one tape to any track and block of other tape.

Compare Main Store (CMPR:MAS) is used to loop through a specified MAS address range to compare the off-line and the on-line data to themselves or to a constant.

Input messages, Inhibit Dial Tone Delay Alarm (INH:DTDA) and Reset Dial Tone Delay (RESET:DTDA) provide the ability to inhibit or reset the Dial Tone Delay Alarm (DTDA). The DTDA unit is a new feature in 3E3 to sound an alarm if the office fails to supply dial tone to a test line within the required timing limits of 8 to 10 seconds.

The Output Overwrite File (OP:OWFILE) message now includes the data fields (mm,dd,yy), TRNSLN with 3E3 Generic. When OP:OWFILE (mm,dd,yy) is executed a short census will be printed and list only overwrites entered after a specified day, month, and year. If TRNSLN is specified following (mm,dd,yy) only translation overwrites will be printed. With 3E3, the

same overwrite may no longer contain both generic and translation addresses.

Update Overwrite (OP:OW) is available in SO-2 to update the checksum file on tape after adding or removing an overwrite. The checksum file in 3E3 contains hashsums instead. The message to update this file in 3E3 is UPD:HASH:GENERIC!

When activated, an overload announcement may be given instead of reorder tone with 3E3. This feature allows for remote recording of this announcement by a dial-up and call back procedure. The following messages are used in conjunction with the overload announcement feature:

- Activate Overload Announcement (ACT:OA)
- Output Overload Announcement (OP:OA)
- Stop Overload Announcement (STOP:OA)

3. HOW TO USE THIS MANUAL

0.01 The topical index is contained in this section; the topics, listed alphabetically, take three basic forms:

- (a) Key action words, which identify the action to be performed,
- (b) System unit terms, which identify the portion of the system on which the action is to be performed,
- (c) Telephone terms, which identify a state or action.

0.02 To determine the proper input message, the user chooses a key word, term, or unit and uses the topical index to locate the topic. Adjacent to each topical entry is listed at least one function and associated message index, the fixed portion of the message. Throughout this manual lower case letters are used in message formats to imply variable data in a message.

0.03 The message index will lead to either one message or to a family of messages having the same message index, but differing significantly in the meaning of the message. The desired message in the family can be located by either a keyword in the data field or the lack of a keyword (all data).

0.04 A message description may require more than one page because of the amount of variable data described. For these cases the pages are all indexed alike, and a continuation of the message is indicated.

0.05 The reference made to supporting information for each message is by base number. The actual document number may include a dash number indicating the generic for the office. The complete document number is located by referring to the program generic.

3.1 NUMBER CONVERSIONS

1.01 To convert numbers from binary to octal or vice versa, the following procedure can be followed:

- (a) Separate the binary numbers from right to left into groups of threes,.
- (b) Convert each group into its octal equivalent according to Table A.

1.02 The 16-bit binary numbers are separated into octal groups as follows:

15	14	12	11	9	8	6	5	3	2	0
----	----	----	----	---	---	---	---	---	---	---

For example: 1001000011110101 Binary numbers
 1 001 000 011 110 101 First: separate
 1 1 0 3 6 5 Then: convert

TABLE A

<u>BCD</u>	<u>Binary</u>
000	0
001	1
010	2
011	3
100	4
101	5
110	6
111	7

- 1.03 To convert an octal number to decimal, use the following algorithm:

$$uvwxyz(\text{base } 8) = (z + 8y + 64x + 512w + 4096v + 32768u)(\text{base } 10)$$

- 1.04 To convert BCD digits to binary, use the following table:

TABLE B

<u>Binary</u>	<u>Octal</u>
0	0000
1	0001
2	0010
3	0011
4	0100
5	0101
6	0110
7	0111
8	1000
9	1001

- 1.05 The channel abbreviations (other than MTC and MTR) used in this manual are as follows:

TRF - Traffic
 SO - Service Order
 RSB - Repair Service Bureau
 OFR - Office Records
 RAO - Regional Accounting Office

4. ACKNOWLEDGMENTS TO INPUT MESSAGES

0.01 The following acknowledgment messages are returned directly by the TTY program when an internal error is detected. They are typed immediately following the execute character (! or /). In every case below, the entire message, even if multiple line, will be aborted.

- ?A - The message contains an error in the action field of the message. This could mean that an improper character(s) was typed or that a field delimiter was omitted. Recheck the message index in the C section of this document. The paper tape reader will not be turned back on.
- ?C - The message appears to be a legal message, but it is not allowed from this channel. Recheck the message description in the C section of this document. The paper tape reader will not be turned back on.
- ?D - The message contains an error in the data field of the message. This could mean that an improper character(s) or data was entered or that a keyword delimiter or executive symbol was omitted. It may also result from an invalid association of the data field contents with the action and/or identification field(s). Recheck the message in the C section of this document. The paper tape reader will not be turned back on unless the message is linked. In this case only the current input line is aborted, not the entire message.
- ?E - The basic format of the message appears correct, however, further checks have revealed an inconsistency and the fields in error cannot be identified. This acknowledgment is used when system design limitations make further error isolation impractical. Recheck the message index in the C section of this document. The paper tape reader will not be turned back on.
- ?F - A format error has occurred. The right kind of characters were not typed. Recheck the message format in the C section of this document. The paper tape reader will not be turned back on.
- ?I - An error was detected in the identification field of the message. Recheck the message index in the C section of this document. The paper tape

reader will not be turned back on.

?O - This TTY channel is marked out-of-service. It must be restored to service before being used. The paper tape reader will not be turned back on.

?P - A TTY parity error occurred during the input message. This message was not accepted by the system. Request TTY diagnostics on the channel being used. The paper tape reader will not be turned back on.

?T - A time-out occurred while waiting for more input characters. This time-out is about 120 seconds. The paper tape reader will not be turned back on.

WT - The client program cannot give one of the standard acknowledgments at this time. A real time break is being taken and an acknowledgment is forthcoming.

(No characters printed) - No response can be generated since the input message came from a TTY where the message requested the TTY to be initialized or diagnosed.

(No characters printed - Continued response for linked input) - This is a positive system acknowledgment of an input line of a linked message. The response consists of a carriage return and line feed, indicating that the line was received and tentatively accepted.

0.02 The following acknowledgments are returned by the program handling the particular input message typed.

IP - The message was received and is In Progress (being acted upon). A message may not follow. The request may still be rejected for validity reasons. If the message came from paper tape, the reader will be turned back on.

NG - The message was not accepted (No Good). The action or data fields were not accepted, or the present system state will not allow this message now (check the message description for allowable system states). If the message came from paper tape, the reader-off character may not have preceded the execute (! or /) or abandon (&) character. The message must be retyped correctly from the beginning. The paper tape reader will not be turned back on. The message must be

retyped correctly from the beginning.

OK - The message was OK. It was accepted, and the work requested has been accomplished. If the message came from paper tape, the reader will be turned back on.

PF - The message was received and is being acted upon. A Printout will Follow. If the message came from paper tape, the reader will be turned off.

RL - The message should be Repeated Later. The paper tape reader will not be turned back on. This response may print for any of the following reasons:

- (a) Any reason given with the particular message.
- (b) If this request was for a multiscan function, a related multiscan function may be in the system at this time.

5. PAPER TAPE COMMUNICATION

0.01 The communication between the system and paper tape is as follows. The paper tape reader, which may be in a loop by itself or in series with a TTY device, is started and proceeds to the execute character or abandon character, where it stops. This allows the system time to decode and execute the message, and type any required acknowledgment. Unless instructed otherwise, the system will then turn on the reader.

0.02 It is recommended that all service order message sequences be prepared on paper tape off-line and inserted through the tape reader on the service order TTY channel. In using this procedure a backup file of tapes will be available in the event they are needed. Tape input also assures rapid inputting of changes that require two or more separate message sequences (such as changing the party number of an assigned TN).

5.1 MAKING A PAPER TAPE MANUALLY

1.01 To communicate via paper tape, three extra characters must be inserted into the message, which are punched on the paper tape as part of the message.

1.02 The message(s) must be punched on an off-line punch.

A punch connected to the system can be placed off-line by using the "TTY disconnect" or "data set disconnect" key at the MC, or by switching an ASR TTY to LOCAL, after removing the channel from service. The message is then typed in normal fashion. At the end of the message, before the execute character (↓ or /), or abandon character (&) is typed, a reader-off character (X-OFF) must be punched. Immediately following the reader/off character is either the execute or abandon character, which is immediately followed by 2 to 3 inches of rub-out (RO) characters. No spaces are allowed between these three characters, because the reader stops after the second character following the X-OFF. These characters may be optionally followed immediately by the carriage return (CR) and line feed (LF) characters to reposition the off-line TTY printer head for the next line of input. This sequence is performed for each message (line) punched on the tape.

5.2 MAKING A PAPER TAPE AUTOMATICALLY

2.01 There are two cases under which the system can punch a paper tape. The first is for traffic information, and the second is for line trouble information. The traffic information can consist of:

- Q - quarter hour reports
- H - busy hour reports
- C - non-busy hour reports
- D - daily reports
- W - weekly reports

The line trouble information consists of messages outputted by ALIT (AUTOMATIC LINE INSULATION TEST).

2.02 Paper tapes punched are used as input to Traffic or Repair Service Bureau computer systems.

5.3 READING IN A PAPER TAPE

3.01 Once the tape has been punched, it is inserted into the tape reader of an on-line TTY channel that is in the STOP position. The reader key is then moved to the RUN position. If the reader does not begin inputting the tape immediately, type in the X-ON character ("control Q" on the keyboard) to place the TTY in the tape mode and start the reader.

3.02 If an error is detected while reading the paper tape, the program will respond as in typed input and will not restart the reader. When a typing error stops the paper tape, the faulty message or line may be retyped on the associated keyboard, if it is available. The paper tape is then restarted manually with the X-ON character.

6. ACTION VERB OPTIONS

0.01 The action options of an input TTY message appear as keywords or keyword units in the action option subfield of the identification field. The keyword is the standard abbreviation for that option.

0.02 Many of the action verbs permit specification of various action options which dictate how the requested action is to be performed. The options generally occur in sets with one of the options in the set treated as the default case.

0.03 A summary of the allowable action options, a short description of their use, and the applicable verbs follow.

<u>ACTION OPTION</u>	<u>USE</u>	<u>APPLIES TO VERBS</u>
ON CONDITION (ONC)	To direct the system to execute the action only when the con-	LOAD (LOD) DUMP (DMP)

	dition is satisfied.	MONITOR (MON)
REPEAT (RPT)	To direct the system to perform an action repetitively.	DIAGNOSE (DGN) LOAD (LOD) MONITOR (MON)
RESULTS DIRECTED TO (RDT)	To direct the system to send results of this action to the specified unit(s). The default value is always the requesting device.	LOAD (LOD) MONITOR (MON)
SINGLE (SGL)	To direct the system to perform an action once.	DIAGNOSE (DGN) LOAD (LOD) MONITOR (MON)
STEP (STEP)	To direct the system to perform an action once for each operation of the remove execute button.	DIAGNOSE (DGN)
UNCONDITIONAL (UCL)	To direct the system to execute the action regardless of system defenses.	DIAGNOSE (DGN)

0.04 The REPEAT and STEP control always yields a lights output. The lights are zeroed (reset) whenever the pass/fail execute button is pushed and action is taken on that push (i.e., if the function is in progress at the time the button is pushed, the button is ignored and the lights are not reset).

0.05 The lights should provide the latest test result. The results of the first test are stored and printed and are used to set the lights to pass or fail. The results of each subsequent test are compared against those of the previous test. Any difference will set both lights, and the results of the test will be printed out. If the results are identical, they will not print and the lights will be set to either pass or fail. Repetitive and step maintenance functions must be ended with a STOP:RPT:STEP! input. Only one repetitive or step function is allowed in progress in the system at any one time.

NOTE 1: Different failures produce different output if the power is turned off the unit under test:

- (a) On a step - do not push while power is off.
- (b) On a repeat - go to stop status prior to removing power and do not start until power is turned on.

NOTE 2: If a step or repeat experiment is being run on one of the major peripheral controllers (FIOC, SC, PPD, NWC), and powering down this controller is required, then the step or repeat function must be terminated before removing power. After restoring the power, the diagnostic with the step or repeat option may be restarted.

NOTE 3: Since only failures different from the first failure will print, the TTY output does not represent a history of each test run in an R or S experiment. Therefore caution should be exercised when looking at the TTY output after the R or S experiment is over, and in many cases, the output may be useless.

0.06 Examples of messages using the action options follow:

- (a) MON:ST 315410;RDT!

This input request will monitor the store at location 315410 and direct the results to the lamps (DB).

- (b) DGN:CU;RPT!

This input request will diagnose the control unit in the repetitive mode and print the results on the TTY. Step requests are handled in a similar manner, where STEP replaces RPT.

- (c) RST:CU;UCL!

This input request will restore the off-line CU unconditionally. In other words, the system is directed to execute this action regardless of system defenses (assuring that CU diagnostics ATP in this case).

- (d) DGN:NWC 00,PH 3,TST 1100;RPT!

This input request will diagnose the network controller in the repetitive mode for test (TST) 1100 in phase (PH) 3, print the results on the TTY and yield a pass-fail lamp indication.

0.07 Additional comments on the control of step and repeat functions can be found in program CBLM, PR-1C950.

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Request that the "Changed Pages" be Reprinted (RPT)		SCHED:OFR	515
Schedule Office Records Days		SCHED:OFR	515
Schedule Office Records Hours		RC:REPT	392
Schedule the Printing of the "Changed Pages" along with the Printing of the Delayed Message (PCHG)		SCHED:OFR	515
Zero the List of "Changed Pages" to be Printed (ZCHG)		SCHED:OFR	515
One-digit			
Recent Change One Digit Translator		RC:ODIG	371

Operational Test

<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
Of Fabric		EX:NW	115
Of Frame I/O Controller		DGN:FIOC	50
Of Junctors		DGN:JC	52
Of Network Controller		DGN:NWC	54
Of Peripheral Pulse Distributor		DGN:PPD	56
Of Ringing and Tone Plant		DGN:RT	58
Of Scanner		DGN:SC	60
Of Service Circuits		DGN:SVC	62
Of Test Vertical Test Circuit		DGN:TV	69
Of Trunks		DGN:TRK	65
Stop the Turnover/Cutover Programs		STOP:TOCO	537
Test the Battery Boost Converter		TST:BB	548
Output			
Automatic Message Accounting Status		OP:AMA	183
Calculate Hashsums		OP:HASH	201
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Circuit Troubles and Circuits Involved		REPT:TRBL	452
Contents of Clock		OP:CLK	184
Count of Spare Expansions		OP:EXP	188
Dates of Translation Files		VER:DATE	566
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Feature Counts On Lines		OP:FEA	189
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<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
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Main Station Counts		OP:FEA	189
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Monitored Results for Circuits Being Monitored		OP:MON	215
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Output any SM ROW		OP:FLTS	200
Output Block onto Tape		OP:TAPE	245
Output Currently Active MSF		OP:MSF	216
Output Office Records		OP:OFR	222
Output Response from Common Utility Orders		ORD:OP	263
Output the Status of the Ringing and Tone Plant		OP:RT	241
Output the Status of the System Alarms		OP:ALM	182
Output the Status of the System Controls(SYC's) and their Components(CU's,SC's,NWC's and PPD's)		OP:SYC	244
Overload Announcement Status		OP:OA	221
Overwrite file on Tape to TTY		OP:OWFILE	238
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Report each circuit trouble as it occurs		REPT:CKT	449
Service Circuit Status		OP:SVC	242
Status of Control Unit		OP:CU	185
Stop reporting each peripheral error as it occurs		STOP:CKT	525
Tape Units Status		OP:TDC	246

<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
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TTY Controller Status		OP:TTYC	249
Verify Data		VER:OW	588
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- See Report, Read, Status, Print			Not Listed
Override			
Stop any Circuit Camp-on in Progress		STOP:CKT	525
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Activate		ACT:OW	9
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Initialize		INIT:OWFILE	142
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Input Generic ID		IN:GENID	125
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Output Overwrite to TTY or Tape		OP:OW	236
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<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
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Verify Hashsums		VER:HASH	570
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Pass Fail Lamps

Clear Control		STOP:RPT	535
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		DGN:JC	52
		DGN:TV	69
		DGN:SC	60
		DGN:NWC	54
		DGN:PPD	56
		DGN:FIOC	50
		DGN:RT	58
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PBX

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Recent Change MLH Groups		RC:GRP	299
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Remove from Traffic Schedule		RC:GTSA	310
Verify Group and Member Data		OP:OFR	222

Peripheral Control Frame

Restore any out of service Peripheral Controllers (SC,NWC or PPD) on a Peripheral Control Frame		RST:PCF	496
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Peripheral Decoder

Any PD Troubles Associated with the Specified PPD are Cleared		RST:PPD	499
Diagnosis of		DGN:PPD	56
Initialize a PD Pack		INIT:PD	144
Output any SM ROW		OP:FLTS	200
Recent Change Peripheral Decoder		RC:DP	297

Peripheral Pulse Distributor

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Remove PPD from service		RMV:PPD	470
Restore a PPD to Service		RST:PPD	499
Send PPD Orders		ORD:PPD	264

Peripheral Unit

Diagnosis of	DGN:SC	60
	DGN:NWC	54
	DGN:PPD	56
	DGN:FIOC	50
	DGN:RT	58
	DGN:TTYC	67
Output of Trouble	REPT:CKT	449
Remove a Ringing and Tone plant from service	RMV:RT	471
Remove Network Controller from service	RMV:NWC	467
Remove Peripheral Pulse Distributor from service	RMV:PPD	470
Remove Scanner Controller from service	RMV:SC	472
Report Network Controller Troubles	REPT:NWC	450
Restore a Network Controller to service	RST:NWC	494
Restore a PPD to Service	RST:PPD	499
Restore a Ringing and Tone plant to service	RST:RT	501
Restore a Scanner Controller to service	RST:SC	503
Restore any out of service Peripheral Controllers (SC,NWC or PPD) on a Peripheral Control Frame	RST:PCF	496

Plug-up

Output of Lines in this State	OP:LINE	205
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Postmortem

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Print Data of Last Initialization State		OP:POSTMORT	240
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abort diagnostic of		ABT:DGN	1 2 3
Diagnosis of		DGN:PPD	56
Initialize a PD Pack		INIT:PD	144
Remove Peripheral Pulse Distributor from service		RMV:PPD	470
Restore a Peripheral Pulse Distributor to Service		RST:PPD	499
Send a Set of Orders		ORD:PPD	264
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Circuit Trouble and Circuits Involved		REPT:TRBL	452
Dates of Translation Files		VER:DATE	566
Faulty Memory Planes		AU:MAS	26
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Line Status		OP:LINE	205
Monitored Results of Circuits Monitored		OP:MON	215
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Output Last Initialization Postmortem		OP:POSTMORT	240

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Output Overwrite on TTY		OP:OW	236
Output the Overwrite file to TTY		OP:OWFILE	238
Overload Announcement Status		OP:OA	221
Print Call Forwarding Print		RC:OFFICE	378
Print Store Word		MON:ST	172
Report each circuit trouble as it occurs		REPT:CKT	449
Service Circuit Status		OP:SVC	242
Stop reporting each peripheral error as it occurs		STOP:CKT	525
System Time		OP:CLK	184
Trunk Status		OP:TRK	247
- See Output, Read, Report, Status			Not Listed
Program Store			
Compare On-Line to Off-line		CMPR:MAS	38
Exercise Routines		DGN:CU	47
System Status Panel		DGN:CU	47
- See Store			Not Listed
Quarter Hour			
Channel for Report of		RC:QH	389
Printout of Last Four		RC:QDUMP	387
Read			
Call Store		DMP:ST	110
Input a Tape Block(no print)		IN:TAPE	131
Line Status		OP:LINE	205
Network Status		OP:NW	217

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Coin Triplets (COINTRIP)	DIST:CNTRIP	77
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Clear Translation Data Area	RC:ZERO	446
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Multi-line Hunt Group Translation Data		RC:MLHG	339
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Junctor Circuit		RMV:JC	463
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<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
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Scanner Controller taken out of service		RMV:SC	472
Service circuit		RMV:SVC	474
Tape Data Controller Unit		RMV:TAPE	476
Test Vertical		RMV:TV	481
Trunk		RMV:TRK	477
TTY Controller, Port		RMV:TTYC	480
Report			
Network Controller Troubles		REPT:NWC	450
Report Circuit Troubles and Circuits Involved		REPT:TRBL	452
Report each circuit trouble as it occurs		REPT:CKT	449
Report Network Controller Troubles		REPT:NWC	450
Status of Tape Units		OP:TAPE REPT:TAPE	245 451
Stop Reporting Circuit Troubles and Circuits Involved		STOP:REPT	534
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TTY Controller Status		OP:TTYC	249
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Alink		RST:ALNK	483
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By Change to Cutover State		SET:CUT SET:PRECUT	519 524
Control Unit		RST:CU	487
Control Unit Test-Restore		RST:CU	487
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Put Lines into the Cut State		ALW:TOCO	23
Restore a Network Controller to Service		RST:NWC	494
Restore a Ringing and Tone Plant to service		RST:RT	501
Restore a Scanner Controller to service		RST:SC	503
Restore any out of service Peripheral Controllers (SC,NWC or PPD) on a Peripheral Control Frame		RST:PCF	496
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Ringing and Tone			
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Abort Test Functions		INH:MSF	137

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Diagnosis of		DGN:RT	58
Output the status of the Ringing and Tone plant		OP:RT	241
Remove a RT from service		RMV:RT	471
Restore a RT to service		RST:RT	501
Switch RT's		SW:RT	540

Route Index

Assigned to Incoming and Intraoffice Intercept Traffic Register	RC:INCP	312
List Those Pointing to a Specific Trunk or Service Circuit Group	VER:LSTRIG	576
Output Office Records	OP:OFR	222
Recent Change Route Index	RC:RTI	396
Remove from Incoming and Introoffice Intercept Traffic Register	RC:INCP	312

Row Faults

Diagnosis of	DGN:SC	60
Output Any SM Row	OP:FLTS	200

Scan Matrix

Any SM row or column troubles associated with the specified SC are cleared	RST:SC	503
Output any SM ROW	OP:FLTS	200

Scan Point

Diagnosis of	DGN:SC	60
Display on SSP	MON:SCAN	171
Recent Change Scan Point	RC:SP	412

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Test Battery Boost Converter Point		TST:BB	548
Scanner Controller			
Abort Diagnostic of		ABT:DGN	1 2 3
Diagnosis of		DGN:SC	60
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Monitor Scanner Row On Lights		MON:SCAN	171
Remove SC from service		RMV:SC	472
Restore SC to service		RST:SC	503
Scanner Row			
Diagnosis of		DGN:SC	60
Display Scanner Row on SSP		MON:SCAN	171
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Scheduler			
Allow		ALW:SCHED	21
Begin		BEGIN:SCHED	34
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Trace Progress of		TRC:SCHED	546
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Output Office Records		OP:OFR	222
Recent Change Screening Class		RC:SCR	409
Service Circuits			
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Assigned to Traffic Schedule		RC:GTSA	310
Diagnosis of		DGN:SVC	62
List Route Indexes Pointing to a Specified Group		VER:LSTRIG	576
Monitor Faults on Service Circuits		MON:SVC	174
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Recent Change Group Data		RC:GRP	299
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Removal of		RMV:SVC	474
Remove from Traffic Schedule		RC:GTSA	310
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Set			
Address and/or Data Matcher		SET:MATCH	522
Clock-Abnormal		SET:CUT SET:PRECUT	519 524
Cutover or Precutover State		SET:CUT SET:PRECUT	519 524
Indirect Utility Parameters		SET:INDIR	520
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The Machine into the Cut or Precut State		ALW:TOCO	23
Speed Calling			
Recent Change Customer Speed Call Lists		RC:SCN	406
Verify Speed Calling on Line		VER:SCN	591
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<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
Start			
Manual Grid Count Request		BEGIN:NW	31 32
Status Information			
See Output, Print, Read, Report	OP:TDC		246
Automatic Message Accounting	OP:AMA		183
Control Unit	OP:CU		185
Line	OP:LINE		205
Network	OP:NW		217 218 220
of TTY Controller and Ports	OP:TTYC		249
Output any SM ROW	OP:FLTS		200
Output the Overwrite file to TTY	OP:OWFILE		238
Output the status of the Ringing and Tone plant	OP:RT		241
Output the status of the system alarms	OP:ALM		182
Output the status of the System Controls(SYC's) and their componants(CU's,SC's,NWC's and PPD's)	OP:SYC		244
Overload Announcement	OP:OA		221
Service Circuit	OP:SVC		242
Tape Unit	REPT:TAPE OP:TDC		451 246
Trunk	OP:TRK		247
Stop			
Abort Function Allowed by ALW:ORDUTIL Message	STOP:ORDUTIL		531

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Overload Announcement		STOP:OA	530
Overwrite Procedure		STOP:OW	532
Stop any circuit camp-on in progress		STOP:CKT	525
Stop Execution of Utility Orders Presently Running		STOP:PROG	533
Stop Monitoring Circuits		STOP:MON	528
Stop Report NWC Troubles		STOP:NWC	529
Stop Reporting Circuit Troubles and Circuits Involved		STOP:REPT	534
Stop reporting each peripheral error as it occurs		STOP:CKT	525
Tape Utilities		STOP:TAPEUTIL	536
Utility Requests		STOP:UTIL	538
- See Abort, Cancel, Clear, Inhibit, Zero			Not Listed
 Store			
Compare On-Line to Off-Line		CMPR:MAS	38
Dump Off-line		DMP:OFLST	107
Dump On-line		DMP:ST	110
Load Call Store		LOD:ST	157
Monitor Indirectly		MON:INDIR	163
Monitor Store		MON:ST	172
Off-line Store Read/Write Common Utility Order		ORD:OMAS	262
Update Off-line		UPD:OMAS	557 559
- See Call Store, Program Store			Not Listed

Switch

<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
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Switch and Initialize		SW:INIT	539
Switch Ringing and Tone Plants		SW:RT	540
Switch SYC's		SW:SYC	541
Update and Sync. Switch		SW:SYC	541
SYC			
Output the status of the System Controls(SYC's)and their Components(CU's,SC's,NWC's and PPD's)		OP:SYC	244
Switch System Controls		SW:SYC	541
System Control			
Output the status of the System Controls(SYC's) and their Components (CU's,SC,NWC's and PPD's)		OP:SYC	244
Switch SYC's		SW:SYC	541
System Status Panel			
Diagnosis Of		DGN:CU	47
Exercise of		EX:SSP TST:SCC	120 551
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Restore		RST:SSP	505
Stop Exercise of		STOP:EX	527
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Allow Utilities		ALW:TAPEUTIL	22
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Copy to Another Tape		COPY:TAPE	44
Diagnose Tape Unit		DGN:TAPE	64
Dump		DMP:TAPE	112
Dump or Clear OFR3 File		OFR:UTIL	179
Initialize Tape		INIT:TAPE	147
Input a Tape Block (no print)		IN:TAPE	131
Load Generic and Translations into Off-line Store		LOD:OMAS	151
Output Block onto Tape		OP:TAPE	245
Remove from Service		RMV:TAPE	476
Restore to Service		RST:TAPE	508
Status of Tape Units		REPT:TAPE OP:TDC	451 246
Stop Utilities		STOP:TAPEUTIL	536
Update Translation Files		OP:DATA	186
Verify Dates of Translation Files		VER:DATE	566
Teletypewriter			
Abort Diagnostic of		ABT:DGN	1 2 3
Initialize		INIT:TTYC	148
Remove from Service		RMV:TTYC	480
Restore to Service		RST:TTYC	511
Status of		OP:TTYC	249
Terminal Line			
Recent Change An OE		RC:TLU	426
Terminal Office Test			

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Recent Change Terminal Office Test Access Number Index		RC:TOTANI	428
Test Condition			
Test Response of Previous Common Utility Order		ORD:NTST ORD:TST	255 266
Test Vertical			
Blink		RMV:BLNK	458
Diagnosis of		DGN:TV	69
Junction Circuit		RMV:JC	463
Line		RMV:LINE	465
Recent Change Terminal		RC:OE	375
Removal of		RMV:TV RST:TV	481 512
Service Circuit		RMV:SVC	474
Status of		OP:NW	217 218 220
Trunk		RMV:TRK	477
Three-digit Codes			
List All 3 Digit Codes Pointing To Specified Code Index		VER:LSTTCI	577
Time			
Enter Time of Day		SET:CLK	518
Request Time of Day		OP:CLK	184
Trace a Call			
Assign TRC to a Line		RC:LINE RC:MPTY RC:TWOPTY	321 347 437

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<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
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Wire Junctor

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Write

<u>Unit, Topic or Action</u>	<u>Purpose of Message</u>	<u>MESSAGE INDEX</u>	<u>C SECTION PAGE</u>
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Zero			
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Zero the List of Office Record "Changed Pages" to be Printed		SCHED:OFR	515
- See Clear			Not Listed

ABT:DGN

ABT:DGN

1. INPUT MESSAGE FORMAT

ABT:DGN xxx!

2. EXPLANATION OF MESSAGE

Used to request the abort of ANY peripheral diagnostic now executing and ALL requests now pending. Use the following table to specify the diagnostic to be aborted (xxx):

FIOC	Frame I/O Controller
NWC	Network Controller
PPD	Peripheral Pulse Distributor
RT	Ringing and Tone Plant
SC	Scanner Controller
JC	Junctor
SVC	Service Circuit
TRK	Trunk
TTYC	TTY Controller
TV TC	Test Vertical Test Circuit

3. SYSTEM RESPONSES

IP = The requested abort is in progress.

NG = No diagnostics are in progress. If a request has just been made for a diagnostic on one of the above units, then the abort request should be repeated later.

4. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM

CHL=MTC,MTR

ABT:DGN

ABT:DGN

1. INPUT MESSAGE FORMAT

ABT:DGN TAPE!

2. EXPLANATION OF MESSAGE

Abort tape diagnostics.

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

NG Tape diagnostics not in progress
IP Message accepted

5. REFERENCES

PR-1C958 CTAPM Tape diagnostics.
PR-1C910 CDGNM Diagnostic monitor

CHL=MTC

ABT:DGN

ABT:DGN

1. INPUT MESSAGE FORMAT

ABT:DGN CU!

2. EXPLANATION OF MESSAGE

Used to abort CU diagnostics for any reason such as when diagnostics have been running in step or rpt mode. The system responds with DGN CU ABT.

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

PF Diagnostics will be aborted.
NG Diagnostics are not in progress.

5. REFERENCES

PR-1C910 CDGNM Diagnostic Monitor

CHL-MTC

ABT:MSF

ABT:MSF

1. INPUT MESSAGE FORMAT

ABT:MSF;action-options!

2. EXPLANATION OF MESSAGE

Request an ABorT of the currently active Multi-Scan Function. Caution should be exercised to insure that the correct function is aborted when multiple MSF tasks are in progress.

When the 'UCL' action-option is used on certain MSFs, a hold-get error message (REPT ERR HG) may be received.

3. EXPLANATION OF VARIABLE FIELD

ACTION-OPTIONS

blank - Abort the currently active multi-scan funtion.

UCL - Immediately cancel all active MSFs and MSF requests.
(This option also causes a tape initialization -
see TTY input message INIT:TAPE!)

CAUTION

The UCL action-option should only be used as a last resort after a (blank) action-option has been tried. See message OP:MSF for the MSF status printout. The UCL action-option should not be used to abort the nightly routines because it does not allow for proper program clean up.

4. SYSTEM RESPONSES

OK = The MSF abort was accomplished.

NG = No MSF was active or all MSFs are already aborting.

5. REFERENCES

(CONTINUED)

ABT:MSF

(CONTINUED)

ABT:MSF

PR-3H251 MCSUB Maintenance Subroutines

CHL=MTC

ABT:OTO

ABT:OTO

1. INPUT MESSAGE FORMAT

ABT:OTO!

2. EXPLANATION OF MESSAGE

ABorT the Office To Office TeST program. This causes the Office To Office test program to be stopped. The TOCO MSF is also stopped but it is not cleared from the paging buffer.

3. SYSTEM RESPONSES

IP

The request was accepted and the OTO program will be stopped.

NG

The request is denied. The OTO program is not active.

4. REFERENCES

PR3H081 OTOTST - Office To Office Test Program

CHL-MTC

ACP:ALM

ACP:ALM

1. INPUT MESSAGE FORMAT

ACP:ALM!

2. EXPLANATION OF MESSAGE

ACcEpt critical, major, and minor ALArMs. This message is the inverse of the RTE:ALM message, and is equivalent to releasing the Alarm Transfer key on the System Status Panel.

3. SYSTEM RESPONSES

RL = The paging buffer is busy and the message cannot be processed.

OK = The desired action has been taken.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL-MTC

ACT:OA

ACT:OA

1. INPUT MESSAGE FORMAT

ACT:OA!

2. EXPLANATION OF MESSAGE

ACTivate the remote recorded Overload Announcement. All calls which would normally have been routed to reorder will now hear the previously recorded overload announcement.

A TTY output message will be printed if the overload announcement control relay changes state.

3. SYSTEM RESPONSES

OK = The request to activate was accepted.

NG = A problem was encountered while processing the request.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL=MTC

ACT:OW

ACT:OW

1. INPUT MESSAGE FORMAT

ACT:OW!
ACT:OW;UCL!

2. EXPLANATION OF MESSAGE

Activate (ACT) the overwrite (OW). change status of overwrite to active. An active overwrite will overwrite the resident programs during a program reload initialization. Only generic overwrites may be activated. (Overwrites to translations may be activated in special cases if the UCL action option is given.)

This message does not change any program data. To change data see TTY input message LOD:OW.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

UCL = Unconditionally activate the overwrite (applies to translation data only).

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.
= request out of sequence - overwrite data is not present in the ow buffer.

RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

ACT OW COMPL

(CONTINUED)

ACT:OW

(CONTINUED)

ACT:OW

ACT OW STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

ALW:ADM

ALW:ADM

1. INPUT MESSAGE FORMAT

ALW:ADM!
ALW:ADM;UCL

2. EXPLANATION OF MESSAGE

Used to ALLOW the ADMINISTRATION program. This request the administration MSF and will hold it active for 5 minutes. The administrative programs include: TTY recent change, office records, reallocation, and verify. In addition to the TTY recent changes (namely, RC:XXX type messages) the office record and reallocation programs generate their own internal recent changes.

The UnConditional option is used to override certain system states that would otherwise prevent the administrative programs from running. The UCL option will override any recent change (TTY or internally generated) that was denied because:

1. The offline CU is not in standby or the offline MAS is not in the update mode.
2. A previous recent change is believed to have contaminated the online translation memory.
3. A STABLE initialization has just recently occurred and it is necessary to immediately enter a recent change.

IMPORTANT: In general, it is not recommended that the UCL option be used for item 2 and is marginally acceptable for item 1. Item 2 implies that memory has been contaminated by a recent change and specifying UCL might result in further contamination. Item 1 implies the state of the offline (CU or MAS) is such that it cannot be used to recover from a recent change write error should such an error occur.

RECOMENDATION: The recommended way to again be able to do recent changes (once they have been denied for any of the above reasons) is to get the system back into the NORMAL state. Once in this state recent changes are automatically allowed since the offline CU and MAS are available for recovery.

(CONTINUED)

ALW:ADM

(CONTINUED)

ALW:ADM

3. REFERENCES

IP - the program is being loaded into memory

RL - another MSF is active. Repeat the request later.

4. REFERENCES

PR-3H020-02 ADMCON - ADMINISTRATIVE FUNCTIONS CONTROL PROGRAM

CHL=MTC,MTR,TRF,SO

ALW:BLDG

ALW:BLDG

1. INPUT MESSAGE FORMAT

ALW:BLDG!

2. EXPLANATION OF MESSAGE

ALloW all BuildinG alarm scan points. This message is the inverse of the INH:BLDG message, and is equivalent to releasing the Inhibit Building Alarm key on the System Status Panel.

3. SYSTEM RESPONSES

RL = The paging buffer is busy and the message cannot be processed.

OK = The desired action has been taken.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL=MTC

ALW:DSP

ALW:DSP

1. INPUT MESSAGE FORMAT

ALW:DSP!

2. EXPLANATION OF MESSAGE

ALLOW Dynamic Service Protection. (DSP) DSP will be invoked if such a condition should arise. this state can be not allowed by the INH:DSP TTY message. It can also be turned off by a system initialization of level 3 or greater.

3. SYSTEM RESPONSES

OK The request was accepted and DSP is now allowed.

NG DSP was already allowed and therefore nothing was done.

4. REFERENCES

BLMMA	PR-3H004-02
INPUT	PR-3H160-02
LNORIG	PR-3H162-02

CHL=MTC, TRF, MTR

ALW:MASAU

ALW:MASAU

1. INPUT MESSAGE FORMAT

ALW:MASAU!

2. EXPLANATION OF MESSAGE

Allow (ALW) the main store audit (MASAU). Restart the MAS audit which may have been inhibited by a maintenance function or the INH:MASAU input message.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The main store audit has been allowed and is active.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL-MTC

ALW:MSF

ALW:MSF

1. INPUT MESSAGE FORMAT

ALW:MSF n!

2. EXPLANATION OF MESSAGE

Used to allow a multiscan function that was previously inhibited by the INH:MSF! input message.

3. INPUT FIELDS

n = number of the multiscan function to be allowed (0-15)

4. SYSTEM RESPONSES

OK = Function has been allowed.

NG = Function was not inhibited.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL-MTC

ALW:NW

ALW:NW

1. INPUT MESSAGE FORMAT

ALW:NW;COUNT!

2. EXPLANATION OF MESSAGE

Request the Grid Error Count Auto Start feature to be ALLOWED.
This is the opposite of INH:NW;COUNT.

3. SYSTEM RESPONSES

OK

The Grid Error Count Auto Start feature is ALLOWED.

NG

The Grid Error Count Auto Start feature can NOT be allowed because the feature was not previously INHIBITED or the Grid Error Count function is Not allowed.

4. REFERENCES

PR-3H218 - GDCNT - Grid Error Count program
PK-3H301 - Network Trouble-Shooting Manual
BSP-233-153-145 - Remreed Network Fault Isolation Utilities

CHL=MTC

ALW:ORDUTIL

ALW:ORDUTIL

1. INPUT MESSAGE FORMAT

ALW:ORDUTIL!

2. EXPLANATION OF MESSAGE

Used to initiate the COUTIL program and initialize the buffer used by the program. This message must be entered before any of the following messages can be entered.

ORD:MCH
ORD:IOM
ORD:ION
ORD:OMAS
ORD:CNTRL
ORD:TST
ORD:NTST
ORD:OP
ORD:OPD
INIT:PROG
EXC:PROG
STOP:PROG
STOP:ORDUTIL

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

PF The execution of the function has been started. A TTY response of ALW ORDUTIL COMPL or ALW ORDUTIL STOPPED will be printed upon completion of the function.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL=MTC

ALW:OW

ALW:OW

1. INPUT MESSAGE FORMAT

ALW:OW!
ALW:OW;UCL!

2. EXPLANATION OF MESSAGE

Allow (ALW) the overwrite (OW) program. used to initiate the overwrite program and to initialize its control block for use by other overwrite teletypewriter messages. this message must be accepted before any of the following messages may be typed.

INIT:OWFILE
UPD:OWFILE
OP:OWFILE
IN:OW
OP:OW
VER:OW
LOD:OW
ACT:OW
CNL:OW
RMV:OW
IN:GENID
IN:ISSID
IN:OWDATA
OP:HASH
OP:HASHNR
UPD:HASH
VER:HASH
STOP:OW

The system must be in the normal update system state (off-line in standby) to be accepted. For exceptional cases, the system state may be overridden by the UCL action option.

3. INPUT FIELDS

UCL = Allow the overwrite program regardless of system state.

4. SYSTEM RESPONSES

(CONTINUED)

ALW:OW

(CONTINUED)

ALW:OW

NG = The message was not accepted (No Good).
= the present system state is illegal - must be normal.

RL = The message should be Repeated Later.
= the request was denied by the multiscan function controller. An equal or higher priority function is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

ALW OW COMPL

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

ALW:SCHED

ALW:SCHED

1. INPUT MESSAGE FORMAT

ALW:SCHED!

2. EXPLANATION OF MESSAGE

Allow execution of the general SCHEDuler. This message is used to realow scheduler execution which had been previously inhibited by TTY input message INH:SCHED!

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The message was OK and has been completed.

5. REFERENCES

PR-1C963 CMMON Common Maintenance Monitor Program
PR-3H203 MMONA Maint. Monitor Application Program (No. 3 ESS)

CHL=MTC

ALW:TAPEUTIL

ALW:TAPEUTIL

1. INPUT MESSAGE FORMAT

ALW:TAPEUTIL!

2. EXPLANATION OF MESSAGE

Allow (ALW) the tape utility (TAPEUTIL) program. This message must be accepted before any of the following messages may be typed:

AUDIT:TAPE
COPY:FILE
COPY:TAPE
DMP:TAPE
IN:TAPE
LOD:OMAS
OP:TAPE
STOP:TAPEUTIL

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

RL = The message should be Repeated Later.
= the request was denied by the multiscan function controller. An equal or higher priority function is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

ALW TAPEUTIL COMPL

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

ALW:TOCO

ALW:TOCO

1. INPUT MESSAGE FORMAT

ALW:TOCO!

2. EXPLANATION OF MESSAGE

ALLOW the TurnOver/CutOver programs. This causes the CUTover and the Office To Office TeST programs to be loaded into the paging buffer. To clear the TOCO programs from the paging buffer see the input message STOP:TOCO.

3. SYSTEM RESPONSES

IP

The request was accepted and the TOCO programs are being loaded into the paging buffer. When the programs are ready a message (TOCO READY) is printed.

RL

Request denied. Another MSF is active.

4. REFERENCES

PR3H081-01 OTOTST - Office to Office Test Program

CHL-MTC

AU:MAINT

AU:MAINT

1. INPUT MESSAGE FORMAT

AU:MAINT!

AU:MAINT wrd1!

2. EXPLANATION OF MESSAGE

Manual request of the MAINTenance AUdits program. The manual request may ask to perform all the maintenance audits or a specific audit. The entire maintenance audit program performs an audit on the following:

TSVLIM - Trunk and SerVice Circuit out of service limit count.
TRKOOSC - Total TRunKs Out Of Service Count.
SVCOOSC - Total SerVice Circuits Out Of Service Count.
MBC - Maintenance Busy Count.
NIS - Not In Service bit.
P24VPWRS - Plus 24 Volt PoWeR State.
MISPWR - MIScellaneous PoWeR alarm counts:
 word 0 - Major power alarm count.
 1 - Minor power alarm count.
 2 - Fuse alarm count.
MSCAN - Miscellaneous SCAN point ignore bits.
EQPT_PD - Equipped pd map.
PLGP_TBL - Plug-up list table
LTIM_TBL - Line timing table

The MAINTenance AUdits routine will also RESTORE circuits found in the INVALID state and report scan points found Off Normal.

3. EXPLANATION OF VARIABLE FIELD

wrd1 - Is the audit to be executed:

blank - will execute all audits.
TSV - will execute an audit on the following:
 TSVLIM
 TRKOOSC

(CONTINUED)

SVCOOSC
MBC
NIS
Restore circuits found in the INVALID state.
PAIG - will execute an audit on the following:
P24VPWRS
MISPWR
MSCAN
Report scan points Off Normal.
PDM - will execute an audit on the following:
EQPT_PD
PULT - will execute an audit on the following:
PLGP_TBL
LTIM_TBL

4. SYSTEM RESPONSES

IP - The request was accepted and is in progress.
RL - The request was denied. Repeat the request later.

5. REFERENCES

PR-3H314 - MAUD: MAINTENANCE AUDITS

CHL=MTC,MTR

AU:MAS

AU:MAS

1. INPUT MESSAGE FORMAT

AU:MAS!
AU:MAS;UCL!

2. EXPLANATION OF MESSAGE

Audit (AU) the main store (MAS). The main store audit is restarted at location 0. It will continue through the last defined word of store with all MAS failure messages enabled. All abnormal conditions associated with either the on-line or off-line main store are identified. In particular, all addresses are printed which are uncorrectable, presently complement-corrected, or logically mismatch (between corresponding on-line and off-line locations).

Certain types of faults may cause a flood of TTY output messages until the audit has completed one cycle. This can be stopped by temporarily inhibiting and re-allowing the audit (see TTY input messages INH:MASAU and ALW:MASAU).

The MAS audit request is not allowed if the off-line MAS is out-of-service or double store read (DSR) is inhibited. However, abnormal conditions of the on-line MAS alone may be obtained by using the UCL action option. In this case, errors associated with the off-line MAS will not be identified.

The AU:MAS request will cancel all utility match functions (see TTY input message SET:MATCH) to prevent false triggers of the matcher hardware by the MAS audit.

3. INPUT FIELDS

UCL = Run the MAS audit regardless of system state.

4. SYSTEM RESPONSES

(CONTINUED)

AU:MAS

(CONTINUED)

AU:MAS

NG = The message was not accepted (No Good).
= The present system state is illegal - must be normal update.

IP = The MAS audit is In Progress. A completion message will follow (AU MAS COMPL) possibly preceded by one or more failure messages.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

AUDIT:TAPE

AUDIT:TAPE

1. INPUT MESSAGE FORMAT

AUDIT:TAPE;dd!

2. EXPLANATION OF MESSAGE

Audit tape '0' against tape '1' and output a total count of mismatched blocks. The audit will begin on track 1 and sequence through track 4. optionally, the tape audit will correct the compared tape to equal the master (standard) tape, and/or identify all mismatching blocks by TTY output messages. Track 1 cannot be corrected (write-protected track). The master tape is always assumed on unit 0.

The tape utility program must be active (allowed) to use this function. see TTY input message ALW:TAPEUTIL!

3. INPUT FIELD

dd = Action options (may specify none, one, or both).
= DETL - Identify all mismatching blocks.
= CORR - Correct the mismatched blocks on the compared tape.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= THE TAPE UTILITY PROGRAM IS NOT CURRENTLY ACTIVE.

RL = The message should be Repeated Later.
= A PRIOR TAPE UTILITY REQUEST IS IN PROGRESS.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

AUDIT TAPE MATCH 0

AUDIT TAPE aa BLK bb

AUDIT TAPE REPT aa

TAPEUTIL STOPPED aa bb cc dd

(CONTINUED)

AUDIT:TAPE

(CONTINUED)

AUDIT:TAPE

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

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BEGIN:NW

BEGIN:NW

1. INPUT MESSAGE FORMAT

BEGIN:NW c;COUNT!

2. EXPLANATION OF MESSAGE

Manually request the Grid Error Count function to be STARTED or RESTARTED.

3. EXPLANATION OF VARIABLE FIELD

c is the Control Complex to be counted.

For No. 3 ESS the Control Complex is:

Control Frame 0 or 1

4. SYSTEM RESPONSES

IP

Grid Error Counting has been started for the specified Control Complex.

NG

The Control Complex specified is not equipped.

?D

The Control Complex was NOT specified.

5. REFERENCES

PR-3H218 - GDCNT - Grid Error Count program
PK-3H301 - Network Trouble-Shooting Manual
BSP-233-153-145 - Remreed Network Fault Isolation Utilities

CHL=MTC

BEGIN:NW

BEGIN:NW

1. INPUT MESSAGE FORMAT

BEGIN:NW;ANAL!
BEGIN:NW c;ANAL!
BEGIN:NW;ANAL,CG(low,high)!

2. EXPLANATION OF MESSAGE

Manually request the network pattern analysis to be started.

Format 1 - Invokes the analysis on the portion of the network that was previously specified by formats 2 or 3.

Format 2 - Specifies the Control Complex to be analyzed. All of the Concentrator Groups for the specified Control Complex are analyzed.

Format 3 - Specifies a subset of the Control Complex to be analyzed. The Concentrator Groups from low to high (inclusive) for the associated Control Complex.

3. EXPLANATION OF VARIABLE FIELD

c is the Control Complex
 For the No. 3 ESS the Control Complex is:
 0 - Control Frame 0
 1 - Control Frame 1

low - lowest Concentrator Group analyzed (in decimal) 1-15

high - highest Concentrator Group analyzed (in decimal) 1-15

4. SYSTEM RESPONSES

IP - Network Pattern Analysis has been started.

NG - Incorrect Control Complex or Concentrator Group data.

?D - Message Format Error

(CONTINUED)

BEGIN:NW

(CONTINUED)

BEGIN:NW

RL - Request Denied - retry later

5. REFERENCES

PR-3H219 - NWCEA - Network Pattern Analysis

PK-3H301 - Network Trouble-Shooting Manual

BSP-233-153-145 - Remreed Network Fault Isolation Utilities

CHL-MTC

BEGIN:SCHED

BEGIN:SCHED

1. INPUT MESSAGE FORMAT

BEGIN:SCHED!
BEGIN:SCHED sched!
BEGIN:SCHED sched major;SGL!

2. EXPLANATION OF MESSAGE

BEGIN execution of the general SCHEDuler. Used to initialize the general scheduler and begin (or resume) the execution of the indicated schedule. The default schedule is schedule 0 (the nightly routines by convention).

Optionally, a major table entry no. (major) may be specified in addition to the schedule no. (sched). Whether a major table entry is specified or not, the scheduler will continue on through the remainder of the schedule unless the 'SGL' action-option is also specified.

The valid schedules are defined as table entries in a table called MASTER in program MMONA. The entry number of the table corresponds to the schedule no. (0-15). The master table entries are names of major sequence tables (also in MMONA) which, in turn, define the major tasks making up a given schedule. The major sequence tables may be consulted to obtain the major table entry number of a task controlled by the scheduler.

See TTY input messages INH:SCHED! and ALW:SCHED! to inhibit and allow scheduler execution, respectively. The inhibit message may be used to interrupt or halt the scheduler while it is active and/or prevent the scheduler from being requested again. To resume execution of a previously inhibited schedule, a minus sign (-) must be substituted for both the schedule and major entry numbers, i.e. BEGIN:SCHED - -!

The automatic scheduler trace option is initially off (see TTY input message TRC:SCHED).

3. INPUT FIELDS

(CONTINUED)

BEGIN:SCHED

(CONTINUED)

BEGIN:SCHED

sched = the requested schedule number (0-15)
(default = 0 - nightly routines)
major = the requested major table entry no.
(default = 0 - first major sequence in schedule)
SGL = stop execution after the specified major sequence

4. SYSTEM RESPONSES

OK = The message was OK and has been completed.

NG = The message was not accepted (No Good).
= The requested table entry number is invalid.
= The scheduler is inhibited (see INH:SCHED).

RL = The message should be Repeated Later.
= The scheduler is currently active. Either wait for
the scheduler to complete or inhibit manually
(see INH:SCHED).

5. REFERENCES

PR-1C963 CMMON Common Maintenance Monitor Program
PR-3H203 MMONA Maint. Monitor Application Program (No. 3 ESS)

CHL=MTC

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CLR:DELAY

CLR:DELAY

1. INPUT MESSAGE FORMAT

CLR:DELAY n!

2. EXPLANATION OF MESSAGE

This message is used to remove a pending office record delay message that was entered by OP:OFR .

n - The message slot number in the range 0 - 19.

3. SYSTEM RESPONSES

OK - The message was accepted and the pending delay message was removed.

NG - No Good the message wasn't accepted and a ADM ERR nnnn will follow stating the reason.

4. REFERENCES

PR-3H207 CLRDEL

CHL=ALL

1. INPUT MESSAGE FORMAT

CMPR:MAS!

CMPR:MAS arg;options:operand1 operand2 mask!

2. EXPLANATION OF MESSAGE

Compare (CMPR) main store (MAS) data. This utility loops through a specified MAS address range, under a variety of options, comparing the on-line and off-line data to themselves or a constant. Locations that mismatch or contain bad parity are identified by printout. The compare operations may use an optional data mask and/or beginning address. The on-line to off-line compare will also accept a final address. The current address is visually displayed on the control panel and System Status Panel (SSP) lamps.

The default case will compare on-line data to off-line data from location 0 to the last defined MAS address excluding all temporary store. Data is normally accessed without complement correction (i.e. all locations with bad parity are identified) and all mismatching locations will be outputted.

This message also permits a comparison of either the on-line or off-line MAS to a constant under a variable mask. The default mask is all bits matched. (As a special case, a bad parity search can be performed without a data match by specifying a mask of all ones.) The utility does not correct locations with bad parity.

A tape to main store audit can be accomplished by using this utility after an off-line MAS reload via the off-line bootstrap function. See TTY input message LOD:OMAS;BOOT!

The utility can be stopped before normal completion by typing STOP:UTIL!

3. INPUT FIELDS

(CONTINUED)

arg = Type of compare
(default) - compare on-line to off-line
ONL - compare on-line to constant
OFL - compare off-line to constant
options = Options (may specify any combination)
ALL - Compare all MAS (do not exclude temporary store)
ALM - Major alarm first mismatch and stop compare
COMP - Allow complement-correction on data reads
operand1 = Beginning address (default is 0)
operand2 = Last address for on-line to off-line compare
(default is last defined MAS address)
= Constant for ONL or OFL compare type
mask = Compare mask (default is all bits)

4. SYSTEM RESPONSES

RL = The message should be Repeated Later.
= a mult-scan function is currently in progress.
= a utility request is currently in progress.

PF = A Printout will Follow. This will be followed
by one or more of the following messages:

CMPR MAS adr data1 data2

CMPR MAS COMPL

CMPR MAS STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT=23,2 CHL=MTc

CNL:OW

CNL:OW

1. INPUT MESSAGE FORMAT

CNL:OW!

2. EXPLANATION OF MESSAGE

Cancel (CNL) the overwrite (OW). change the status of overwrite to inactive. An inactive overwrite will not overwrite the resident programs during a program reload initialization.

This message does not change any program data. To change data see TTY input message LOD:OW.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.
= request out of sequence - overwrite data is not present in the ow buffer.

RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

CNL OW COMPL

CNL OW STOPPED

5. REFERENCES

(CONTINUED)

CNL:OW

(CONTINUED)

CNL:OW

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

1. INPUT MESSAGE FORMAT

COPY:FILE dd!

2. EXPLANATION OF MESSAGE

Copies any file from tape '0' to tape '1'. The master (standard) tape is always tape unit '0'. This utility will not copy files which reside on more than one track unless the directory entries on both tapes match. In cases of tape directory mismatches where the file lengths are the same, the copy will be done using the COPY:TAPE method, and the completion response will be that of the COPY:TAPE input message.

The tape utility program must be active (allowed) to use this function. See TTY input message ALW:TAPEUTIL!

3. INPUT FIELDS

dd = Tape file name. Dump the tape's DIRECTORY file for a list of file names.
= Use input message DMP:TAPE ,DIRECTRY!
= a = Tape unit 0 or 1

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= THE TAPE UTILITY PROGRAM CURRENTLY NOT ACTIVE.

RL = The message should be Repeated Later.
= A prior tape utility request is in progress.

IP = The message is In Progress.
= Upon completion a combination of the following
= messages will be printed.

COPY FILE COMPL
or
COPY TAPE COMPL

(CONTINUED)

COPY:FILE

(CONTINUED)

COPY:FILE

TAPEUTIL STOPPED aa bb cc dd

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

COPY:TAPE

COPY:TAPE

1. INPUT MESSAGE FORMAT

COPY:TAPE(a,b,cccc),TO(d,e,ffff,gggg)!
COPY:TAPE(a),TO(d)!

2. EXPLANATION OF MESSAGE

Copy any track and block of one tape to any track and block of the other or itself (except where data being copied would be destroyed). Omitting the number of blocks to copy will default to 1 block only. Copy tape 'a' to 'd' will copy all tracks (except track 1 which is write-protected).

The tape utility program must be active (allowed) to use this function. See TTY input message ALW:TAPEUTIL!

3. INPUT FIELDS

a = Master (standard) tape number
b = Track number to be copied (1-4)
cccc = Starting block to be copied
d = Tape number to be written
e = Track number to be written (2-4)
ffff = Starting block to be written
gggg = Number of blocks to be copied

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= THE TAPE UTILITY PROGRAM IS NOT CURRENTLY ACTIVE.
= THE TAPE NUMBER WAS NOT TYPED.
= THE TAPE NUMBER, TRACK NUMBER, OR BLOCK NUMBER ILLEGAL.

RL = The message should be Repeated Later.
= A PRIOR TAPE UTILITY REQUEST IS IN PROGRESS.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

COPY TAPE COMPL

(CONTINUED)

COPY:TAPE

(CONTINUED)

COPY:TAPE

TAPEUTIL STOPPED aa bb cc dd

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

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1. INPUT MESSAGE FORMAT

DGN:CU!
DGN:CU:aa!
DGN:CU;UCL!
DGN:CU;STEP:aa!
DGN:CU;RPT:aa!
DGN:CU;ADD:aa bbb!
DGN:CU;OVRD!

2. EXPLANATION OF MESSAGE

Used to request CU diagnostics. One test or all tests may be requested. Tests are run as a multiscan function under control of the base level monitor. If the requested test or tests pass, an ATP message is generated. If a test fails, the running of diagnostics is generally terminated and a failure message is generated. The running of all CU diagnostics may take several minutes depending on traffic.

3. INPUT FIELDS

- aa Decimal test number. If a test number is specified, only that test is run. If no test number or a zero is specified, all tests are run.
- bbb Highest equipped address of off-line store to be diagnosed. The maximum length of this field is 20 bits. Caution must be used since there is no range check on this constant. If the ADD action option is not used, this field should not be specified.
- RPT The requested test is run repetitively until aborted by an input message or program. A message is generated after the first run. Thereafter, a printout is generated only if the result changes. The status is maintained on the pass/fail lamps on the system status panel. the repetition may be stopped by depressing the PF EXECUTE button on the system status panel and may be started again by depressing the

(CONTINUED)

button again.

NOTE: this mode can be stopped using one of the following messages:

ABT:DGN CU!

CLR:RPT!

STOP:RPT!

NOTE: the offline must be in the manual mode for this action option to work properly.

STEP The test is run once and a message is generated. Thereafter, the test is run when the PF EXECUTE button on the system status panel is depressed. A message is generated after the first run. Thereafter, a printout is generated only if the result changes. The status is maintained on the pass/fail lamps on the system status panel.

NOTE: this mode can be stopped using one of the following messages:

ABT:DGN CU!

CLR:RPT!

STOP:RPT!

NOTE: the offline must be in the manual mode for the action option to work properly.

UCL This option prevents termination of diagnostics when a failure occurs. When a failure message occurs, a failure message is generated and the next sequential test is begun. When all tests have been run, the message DGN CU COMPLETE is generated.

ADD This option informs store diagnostics to diagnose all of normal store plus recently added store which is defined by the input message. The field shown here as bbb must be specified when this action option is used. All other options are available along with this one, if typed separated by spaces.

OVRD This option over-rides the inhibit of CU diagnostics when there are MAS errors in the offline CU. it is to be used when the message DGN CU x STOPPED MAS ERR comes out when diagnostics are requested, and

(CONTINUED)

DGN:CU

(CONTINUED)

DGN:CU

the AU:MAS! message doesn't give any
clue as to what memory board to replace.

4. SYSTEM RESPONSES

PF	Diagnostics will be run. A pass or failure printout will follow
?D	Invalid diagnostic test number specified.
?I	Invalid action option specified.
RL	Repeat later. Another multiscan function is in progress
NG	No good. System is not in a valid state for CU diagnostics.

5. REFERENCES

PR-1C910 CDGDM Diagnostic Monitor

CHL-MTC

DGN:FIOC

DGN:FIOC

1. INPUT MESSAGE FORMAT

DGN:FIOC cs!
DGN:FIOC cs,PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request the Frame I/O Controller DiAGNostic (FIOC). The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The FIOC must be off-line to execute the diagnostic.

3. EXPLANATION OF VARIABLE FIELD

c = control frame the FIOC is located on

s = system control the FIOC is located on

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This
is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

(CONTINUED)

4. SYSTEM RESPONSES

IP = The diagnostic request has been accepted and is in progress.

RL = Another diagnostic or MSF is in progress. Repeat the request later.

NG = The circuit is currently not in the correct state to be diagnosed.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H267 FIOCT - FRAME I/O CONTROLLER DIAGNOSTIC

CHL=MTC,MTR

DGN:JC

DGN:JC

1. INPUT MESSAGE FORMAT

DGN:JC(a,b)!

DGN:JC(a,b),PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request Diagnostics on a JunCtor circuit. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The circuit must be removed from service before the unit can be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

a = concentrator group number of the junctor circuit

b = junctor switch number of the junctor circuit

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

(CONTINUED)

4. SYSTEM RESPONSES

- ?I = The identification field is in error or the message is constructed incorrectly.
- NG = The circuit is currently not in the correct state to be diagnosed.
- IP = The diagnostic request has been accepted and is in progress.
- RL = Another diagnostic or MSF is in progress. Repeat the request later.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H286 JCTRT - JUNCTION CIRCUIT TEST

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

DGN:NWC cs!
DGN:NWC cs,PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request the NetWork Controller (NWC) DiaGNostic. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The network controller must be removed from service before it may be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

c = control frame the NWC is located on

s = system control the NWC is located on

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This
is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

(CONTINUED)

4. SYSTEM RESPONSES

IP = The diagnostic request has been accepted and is in progress.

RL = Another diagnostic or MSF is in progress. Repeat the request later.

NG = The circuit is currently not in the correct state to be diagnosed.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H268 NTCT - NETWORK CONTROLLER DIAGNOSTIC

CHL=MTC,MTR

DGN:PPD

DGN:PPD

1. INPUT MESSAGE FORMAT

DGN:PPD cs!

DGN:PPD cs,PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request the Peripheral Pulse Distributor (PPD) Diagnostic. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The peripheral pulse distributor must be removed from service before it may be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

c = control frame the PPD is located on

s = system control the PPD is located on

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

(CONTINUED)

4. SYSTEM RESPONSES

IP = The diagnostic request has been accepted and is in progress.

RL = Another diagnostic or MSF is in progress. Repeat the request later.

NG = The circuit is currently not in the correct state to be diagnosed.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H269 PPDT - PERIPHERAL PULSE DISTRIBUTOR DIAGNOSTIC

CHL=MTC,MTR

DGN:RT

DGN:RT

1. INPUT MESSAGE FORMAT

DGN:RT c!
DGN:RT c,PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request the Ringing and Tone plant DiaGnostic. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The ringing and tone plant must be removed from service before it may be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

c = ringing and tone plant to be diagnosed

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

4. SYSTEM RESPONSES

(CONTINUED)

IP = The diagnostic request has been accepted and is in progress.

RL = Another diagnostic or MSF is in progress. Repeat the request later.

NG = The circuit is currently not in the correct state to be diagnosed.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H270 RTPT - RINGING AND TONE PLANT DIAGNOSTIC

CHL=MTC,MTR

DGN:SC

DGN:SC

1. INPUT MESSAGE FORMAT

DGN:SC cs!

DGN:SC cs,PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request the SCanner controller (SC) DiaGNostic. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The scanner must be removed from service before it may be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

c = control frame the SC is located on

s = system control the SC is located on

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This
is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

(CONTINUED)

4. SYSTEM RESPONSES

IP = The diagnostic request has been accepted and is in progress.

RL = Another diagnostic or MSF is in progress. Repeat the request later.

NG = The circuit is currently not in the correct state to be diagnosed.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H271 SCNT - SCANNER CONTROLLER DIAGNOSTIC

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

DGN:SVC(a,b)!
DGN:SVC(a,b),PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request Diagnostics on a Service circuit. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The circuit must be removed from service and in the locked out state before the unit can be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

a = group number of the service circuit

b = member number of the service circuit

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

(CONTINUED)

4. SYSTEM RESPONSES

- ?I = The identification field is in error or the message is constructed incorrectly.
- NG = The circuit is currently not in the correct state to be diagnosed.
- IP = The diagnostic request has been accepted and is in progress.
- RL = Another diagnostic or MSF is in progress. Repeat the request later.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H280 CCCT - COIN CONTROL CIRCUIT TEST
PR-3H281 CDPRT - CUSTOMER DIAL PULSE RECEIVER TESTS
PR-3H282 CNPLT - CONTINUITY AND POLARITY TEST CIRCUIT TEST
PR-3H283 DPRCT - DIAL PULSE RECEIVER TEST CIRCUIT TEST
PR-3H285 SUPRT - SUPERIMPOSED RINGING CIRCUIT TEST
PR-3H287 LENT - LOOP ENVIRONMENT TEST CIRCUIT TEST
PR-3H288 MFRT - MULTIFREQUENCY RECEIVER TEST
PR-3H289 MFTT - MULTIFREQUENCY TRANSMITTER TEST
PR-3H290 MWLAT - MILLIWATT AND TRANSMISSION ENVIRONMENT TEST
CIRCUIT TEST
PR-3H292 RACT - RECORDED ANNOUNCEMENT TEST
PR-3H293 RRCT - REGULAR RINGING CIRCUIT TEST
PR-3H294 TDPTT - DIAL PULSE TRANSMITTER CIRCUIT TEST
PR-3H295 TPDt - TONE PRESENT TEST CIRCUIT TESTS
PR-3H296 TTRCT - TOUCH-TONE RECEIVER TEST CIRCUIT TEST

CHL=MTC,MTR

DGN:TAPE

DGN:TAPE

1. INPUT MESSAGE FORMAT

DGN:TAPE a,TST b;c!

2. EXPLANATION OF MESSAGE

Run tape diagnostics.

3. INPUT FIELDS

- a The tape data controller to be tested.
- b The test to be run. If not specified,
run all tests. Stop at first failure.
Range is from 1 to 6.
- c Action options.
 - UCL Run all tests and print all failures.
 - RPT Run under repeat mode.
 - STP Run under step mode.

4. SYSTEM RESPONSES

NG Error in input syntax.
RL Input later, tape busy or
conflicting function inprogress.
IP Message accepted.

5. REFERENCES

PR-1C958 CTAPM Tape diagnostics.

CHL-MTC

DGN:TRK

DGN:TRK

1. INPUT MESSAGE FORMAT

DGN:TRK(a,b)!
DGN:TRK(a,b),PH p,TST t;action-option!
DGN:TRK(a,b),OTO p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request Diagnostics on a TRunk. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The trunk must be removed from service and in the disabled state before the unit may be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

a = group number of the trunk

b = member number of the trunk

OTO = office to office transmission test requested

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be

(CONTINUED)

outputted before continuing. This action-option automatically implies the UCL action-option.

4. SYSTEM RESPONSES

?I = The identification field is in error or the message is constructed incorrectly.

NG = The circuit is currently not in the correct state to be diagnosed.

IP = The diagnostic request has been accepted and is in progress.

RL = Another diagnostic or MSF is in progress. Repeat the request later.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H284 EMTWT - TWO-WAY E&M TRUNK TEST
PR-3H291 ORBT - OUTGOING REVERSE BATTERY TRUNK TEST
PR-3H297 TTRT - TRUNK OPERATIONAL AND TRANSMISSION TESTS

CHL=MTC,MTR

DGN:TTYC

DGN:TTYC

1. INPUT MESSAGE FORMAT

DGN:TTYC c!
DGN:TTYC c,PH p,IST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request the TTY Controller DiaGNostic. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

3. EXPLANATION OF VARIABLE FIELD

c = TTY controller to be diagnosed

p = phase requested for step or repeat mode

t = test requested for step or repeat mode.- This is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

4. SYSTEM RESPONSES

IP = The diagnostic request has been accepted and is in progress.

(CONTINUED)

DGN:TTYC

(CONTINUED)

DGN:TTYC

RL = Another diagnostic or MSF is in progress. Repeat the request later.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H272 TTYT - TTY CONTROLLER DIAGNOSTIC

CHL-MTC,MTR

1. INPUT MESSAGE FORMAT

DGN:TV TC(a)!

DGN:TV TC(a),PH p,TST t;action-option!

2. EXPLANATION OF MESSAGE

Used to request Diagnostics on a Test Vertical Test Circuit. The diagnostic may be executed to the first failure or it may be executed in the step or repeat or unconditional modes.

The circuit must be removed from service before the unit can be diagnosed.

3. EXPLANATION OF VARIABLE FIELD

a = circuit number of the test vertical test circuit

p = phase requested for step or repeat mode

t = test requested for step or repeat mode. This is an optional parameter for step or repeat mode.

action-options

RPT = Execute the requested diagnostic phase (or test within a particular phase) repetitively. To stop the diagnostic depress the execute key. To restart, depress the execute key again.

STEP = Execute the requested diagnostic phase (or test within a particular phase) by executing the phase whenever the execute key is depressed.

UCL = Unconditionally execute the entire diagnostic.

DETL = Print all error messages. The diagnostic control program will wait for the current error printout to be outputted before continuing. This action-option automatically implies the UCL action-option.

4. SYSTEM RESPONSES

(CONTINUED)

?I = The identification field is in error or the message is constructed incorrectly.

NG = The circuit is currently not in the correct state to be diagnosed.

IP = The diagnostic request has been accepted and is in progress.

RL = Another diagnostic or MSF is in progress. Repeat the request later.

5. REFERENCES

PR-3H266 DCON - DIAGNOSTIC CONTROL PROGRAM
PR-3H298 TVCT - FCG, PC, RV AND TEST VERTICAL CIRCUIT TESTS

CHL=MTC,MTR

DIST:ABT

DIST:ABT

1. INPUT MESSAGE FORMAT

DIST:ABT!

2. EXPLANATION OF MESSAGE

This message is used to abort the reallocation. This message may be inputted after the reallocation message has been accepted and before the update message (DIST:UPD!) has been inputted.

3. SYSTEM RESPONSES

IP = The reallocation is being aborted. Upon completion, the output message UPD OMAS COMPL will be generated.

NG = The reallocation can't be aborted. The error message DIST ERR nnnn will follow giving the reason.

4. REFERENCES

PR3H107 (DSTABT) REALLOCATION - DIST:ABT Message

CHL=MTC

DIST:AMA

DIST:AMA

1. INPUT MESSAGE FORMAT

DIST:AMA nnnn!

or

DIST:AMA;RMV!

2. EXPLANATION OF MESSAGE

The first form of this message generates an ama buffer 'nnnn' words long. If the buffer already exists words will be added or deleted as required. The office option word must not be marked for ama to allow this reallocation (see RC:OFFICE). The range for nnnn is 1 through 4096 if the second form of the message is used and the office is not marked for ama the ama buffer is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H122 (DSTAMA) REALLOCATION - DIST:AMA Message

CHL=MTC

DIST:CAC

DIST:CAC

1. INPUT MESSAGE FORMAT

DIST:CAC nn!

2. EXPLANATION OF MESSAGE

This message generates country access code tables for International Direct Distance Dialing (IDDD) 0 through 'nn'. Tables will be added or deleted as required. Country access code tables to be deleted must be vacant. The range for nn is 0 through 63.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H133 (DSTCAC) REALLOCATION - DIST:CAC Message

CHL-MTC

DIST:CALLBK

DIST:CALLBK

1. INPUT MESSAGE FORMAT

DIST:CALLBK nn!
or
DIST:CALLBK;RMV!

2. EXPLANATION OF MESSAGE

The first form of this message generates autoconnect callback blocks 0 through 'nn'. If a callback block table already exists, entries will be added or deleted as required. Entries to be deleted must be vacant. The range for nn is 0 through 63. If the second form of the message is used and all entries in the callback table are vacant, the callback block table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H123 (DSTCLB) REALLOCATION - DIST:CALLBK Message

CHL=MTC

DIST:CDI

DIST:CDI

1. INPUT MESSAGE FORMAT

DIST:CDI nnn!

or

DIST:CDI;RMV!

2. EXPLANATION OF MESSAGE

This message allocates memory for the Code Index expansion table. the first form of this message generates a code index expansion table for code indexes 0 through 'nnn'. If a code index table already exists, entries will be added or deleted as required. Code index entries to be deleted must be vacant. The range for nnn is 0 through 255. If the second form of the message is used and all entries in the table are vacant, the CDI expansion table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H108 (DSTCDI) REALLOCATION - DIST:CDI Message

CHL-MTC

DIST:CF

DIST:CF

1. INPUT MESSAGE FORMAT

DIST:CF nnnn!
or

DIST:CF;RMV!

2. EXPLANATION OF MESSAGE

The first form of this message generates a call forwarding table for 'nnnn' customers. If a CF table already exists, entries will be added or deleted as required. If fewer entries are needed, there must be a sufficient number of unassigned entries to delete. The range for nnnn is 1 through 4096. If the second form of the message is used and all call forwarding entries are unassigned, the call forwarding table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H109 (DSTCF) REALLOCATION - DIST:CF Message

CHL=MTC

DIST:CNTRIP

DIST:CNTRIP

1. INPUT MESSAGE FORMAT

DIST:CNTRIP nnnn!

or

DIST:CNTRIP;RMV!

2. EXPLANATION OF MESSAGE

The first form of this message generates a coin triplet table and an associated coin triplet status table for 'nnnn' distributor triplets. Each triplet (three distributor points) serves three dial tone first coin line circuits (SD-3H205-01). If the tables already exist, entries will be added or deleted as required. If fewer triplets are requested, there must be a sufficient number of unassigned triplets to delete. The range for nnnn is 1 through 1024. If the second form of the message is used and all coin triplet entries are unassigned the coin triplet table and status table are removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

(CONTINUED)

DIST:CNTRIP

(CONTINUED)

DIST:CNTRIP

PR3H124 (DSTCNT) REALLOCATION - DIST:CNTRIP Message

CHL-MTC

DIST:COD2

DIST:COD2

1. INPUT MESSAGE FORMAT

DIST:COD2 nnnn!

2. EXPLANATION OF MESSAGE

This message generates 'nnnn' two-word code list expansion blocks. If two-word code list expansion blocks already exist two-word code list expansion blocks will be added or deleted as required. If fewer two-word code list expansion blocks are requested there must be a sufficient number of unassigned two-word code list expansion blocks to delete. The maximum number of code list expansion blocks (2-word) is 4096.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H127 (DSTCOD) REALLOCATION - DIST:COD2 Message

CHL=MTC

DIST:DIG

DIST:DIG

1. INPUT MESSAGE FORMAT

DIST:DIG a!

or

DIST:DIG a sss!

or

DIST:DIG a;RMV!

2. EXPLANATION OF MESSAGE

The first form of this message generates a complete area translator containing 800 entries for all nxx codes. The second form of the message generates a partial translator containing 'sss' entries. the number of entries 'sss' requested should be one more than the number of required 'nxx' codes. The range for sss is 1 through 128. If a partial translator already exists, entries will be added or deleted as required. If requested, a partial translator will be converted to a complete translator, or a complete translator will be converted to a partial translator. to generate the local area translator, specify 0 for 'a'. to generate a foreign area translator, specify 1, 2, or 3 for 'a'. If the third form of the message is used and all entries are vacant, the translator is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

(CONTINUED)

DIST:DIG

(CONTINUED)

DIST:DIG

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H125 (DSTDIG) REALLOCATION - DIST:DIG Message

CHL=MTC

DIST:EXP1

DIST:EXP1

1. INPUT MESSAGE FORMAT

DIST:EXP1 nnnn!

2. EXPLANATION OF MESSAGE

This message generates 'nnnn' one-word expansion blocks. If expansion blocks already exist, expansion blocks are added or deleted as required. If fewer expansion blocks are requested, there must be a sufficient number of unassigned expansion blocks to delete. The maximum number of expansion blocks (one-word, two-word, four-word, and eight-word expansion blocks) is 4096.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H110 (DSTEXP) REALLOCATION - DIST:EXP1 Messages

CHL-MTC

DIST:EXP2

DIST:EXP2

1. INPUT MESSAGE FORMAT

DIST:EXP2 nnnn!

2. EXPLANATION OF MESSAGE

This message generates 'nnnn' two-word expansion blocks. If expansion blocks already exist, expansion blocks are added or deleted as required. If fewer expansion blocks are requested, there must be a sufficient number of unassigned expansion blocks to delete. The maximum number of expansion blocks (one-word, two-word, four-word, and eight-word expansion blocks) is 4096.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H110 (DSTEXP) REALLOCATION - DIST:EXP2 Messages

CHL-MTC

DIST:EXP4

DIST:EXP4

1. INPUT MESSAGE FORMAT

DIST:EXP4 nnnn!

2. EXPLANATION OF MESSAGE

This message generates 'nnnn' four-word expansion blocks. If expansion blocks already exist, expansion blocks are added or deleted as required. If fewer expansion blocks are required, there must be a sufficient number of unassigned expansion blocks to delete. The maximum number of expansion blocks (one-word, two-word, four-word, and eight-word expansion blocks) is 4096.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H110 (DSTEXP) REALLOCATION - DIST:EXP4 Messages

CHL=MTC

DIST:EXP8

DIST:EXP8

1. INPUT MESSAGE FORMAT

DIST:EXP8 nnnn!

2. EXPLANATION OF MESSAGE

This message generates 'nnnn' eight-word expansions blocks. If expansion blocks already exist, expansion blocks will be added or deleted as required. If fewer expansion blocks are required, there must be sufficient number of unassigned expansion blocks to delete. The maximum number of expansion blocks (one-word, two-word, four-word, and eight-word expansion blocks) is 4096.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H110 (DSTEXP) REALLOCATION - DIST:EXP8 Message

CHL-MTC

DIST:GRP

DIST:GRP

1. INPUT MESSAGE FORMAT

DIST:GRP ggg!
or

DIST:GRP ggg ttt!
or

DIST:GRP ggg;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates a group table for the specified group.

ggg = 0 - 63 => group table for groups 0 - ggg defined.
= 64 - 127 => group table for groups 64 - ggg defined.
= 128 - 191 => group table for groups 128 - ggg defined.
= 192 - 255 => group table for groups 192 - ggg defined.

The second form of the message generates a multi-line hunt group, service circuit group, or trunk group for group number 'ggg', including a member list and a selection status block for terminals 0 through 'ttt'. If the group already exists, terminals are added or deleted from the member list and the selection status block as required. Terminals to be deleted must be unassigned. If the third form of the message is used and all terminals in the group are unassigned, the group is removed.

ggg = 0 - 63 => MULTI-LINE HUNT GROUPS
= 64 => TOUCH-TONE RECEIVERS
= 65 => CUSTOMER DIAL PULSE RECEIVERS
= 66 => MULTIFREQUENCY RECEIVERS
= 67 => MULTIFREQUENCY TRANSMITTERS
= 68 => TRUNK DIAL PULSE TRANSMITTERS
= 69 => REGULAR RINGERS
= 70 => SPECIAL RINGERS
= 71 => COIN CONTROL CIRCUITS
= 77 => LOCAL OVERTIME COIN AND/OR STUCK COIN ANNC.
= 78 => DIAL TONE FIRST COIN ANNOUNCEMENT
= 79 => PERMANENT SIGNAL ANNOUNCEMENT

(CONTINUED)

DIST:GRP

(CONTINUED)

DIST:GRP

- = 80 => PARTIAL DIAL ANNOUNCEMENT
- = 81 => NO 1+ DIALING ERROR ANNOUNCEMENT
- = 82 => EXTRA 1+ DIALING ERROR ANNOUNCEMENT
- = 83 => VACANT CODE & NO SUCH NUMBER ANNOUNCEMENT
- = 84 => CUSTOM CALLING ERROR ANNOUNCEMENT
- = 85 => REMOTE RECORDING ANNOUNCEMENT
- = 91 => TONE AND ANNOUNCEMENT TEST GROUP
- = 92 => RECEIVER OFF-HOOK TONE
- = 93 => BUSY TONE
- = 94 => HIGH TONE
- = 95 => LOW TONE
- = 96 => CALL WAITING TONE
- = 97 => LOOP CHECK GENERATOR TONE
- = 104 => CONFERENCE CALLING CIRCUIT
- = 110 => STATION RINGER TEST
- = 111 => MISCELLANEOUS TEST CIRCUITS GROUP
- = 128 - 255 => TRUNK GROUPS

ttt = largest terminal number: range for multi-line hunt groups is 0 through 63 and the range for trunk and service circuit groups is 0 through 126.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

(CONTINUED)

DIST:GRP

(CONTINUED)

DIST:GRP

PR3H129 (DSTGRP) REALLOCATION - DIST:GRP Message

CHL=MTC

DIST:LCC

DIST:LCC

1. INPUT MESSAGE FORMAT

DIST:LCC nnn!

OR

DIST:LCC;RMV!

2. EXPLANATION OF MESSAGE

This message allocates memory for the Line Class Code table. The first form of this message generates a line class code table for line class code indeies 0 through 'nnn'. If the line class code table already exist, entries will be added or deleted as requiried. Line class code table entries to be deleted must be vacant. The range for nnn is 0 through 255. If the second form of the message is used and all entries in the line class code table are vacant the line class code table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H134 (DSTLCC) REALLOCATION - DIST:LCC Message

CHL=MTC

DIST:MR

DIST:MR

1. INPUT MESSAGE FORMAT

DIST:MR nnnn!
or

DIST:MR;RMV!

2. EXPLANATION OF MESSAGE

This message generates 'nnnn' message registers. If message registers already exist, registers are added or deleted as required. If fewer registers are requested, there must be sufficient unused registers to delete. The range for nnnn is 1 through 4096.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H111 (DSTMR) REALLOCATION - DIST:MR Message.

CHL=MTC

DIST:NG

DIST:NG

1. INPUT MESSAGE FORMAT

DIST:NG nxx!

or

DIST:NG nxx t h!

or

DIST:NG nxx;RMV!

or

DIST:NG nxx t h;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates a number group table for office code 'nxx'. The 'nxx' must be assigned a RTI before the reallocation (see RC:RTI). The second form of the message generates a hundreds group table for 'nxx t h'; where nxx is the office code, 't' is the thousands digit, and 'h' is the hundreds digit. The office index for this 'nxx t' must be assigned before the reallocation (see RC:BTN). A hundreds group table contains 100 telephone numbers. If the associated number group table and thousands group table are not already provided, they are also generated. If the third form of the message is used and the number group table is vacant, the number group table is removed. To remove a vacant hundreds group, use the fourth form of the message.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn

(CONTINUED)

DIST:NG

(CONTINUED)

DIST:NG

will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H112 (DSTNG) REALLOCATION - DIST:NG Message

CHL=MTC

DIST:ODIG

DIST:ODIG

1. INPUT MESSAGE FORMAT

DIST:ODIG nn!

or

DIST:ODIG;RMV!

2. EXPLANATION OF MESSAGE

The first form of this message generates one-digit tables 0 through 'nn'. If the one-digit translator already exists, tables are added or deleted as required. Tables to be deleted must be unassigned. The range for nn is 0 through 63. If the second form of the message is used and all tables are unassigned, the one-digit translator is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H113 (DSTODG) REALLOCATION - DIST:ODIG Message

CHL-MTC

DIST:PRECUT

DIST:PRECUT

1. INPUT MESSAGE FORMAT

DIST:PRECUT!

or

DIST:PRECUT;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates a terminal equipment precut map with one entry per terminal in the office. the number of terminals in the office must have been previously defined via message: DIST:SCAN. If the second form of the message is used and the office is in the cutover state, the precut map is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H114 (DSTPRC) REALLOCATION - DIST:PRECUT Message

CHL-MTC

DIST:RTI

DIST:RTI

1. INPUT MESSAGE FORMAT

DIST:RTI nnn!

or

DIST:RTI;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates a route index expansion table and an alternate route index table for route indexes 0 through 'nnn'. If the tables already exist, entries will be added or deleted as required. Route index entries to be deleted must be vacant. The range for nnn is 0 through 255. If the second form of the message is used and all entries in the tables are vacant, the RTI expansion table and the alternate RTI table are removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

(CONTINUED)

DIST:RTI

(CONTINUED)

DIST:RTI

PR3H115 (DSTRTI) REALLOCATION - DIST:RTI Message

CHL-MTC

DIST:SBIL

DIST:SBIL

1. INPUT MESSAGE FORMAT

DIST:SBIL nnnn!
or

DIST:SBIL;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates a special billing table with 'nnnn' entries. If the table already exists entries are added or deleted as required. If entries are deleted there must be sufficient vacant entries. The range for nnnn is 1 through 1024. If the second form of the message is used and all special billing table entries are vacant the special billing table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H130 (DSTSBL) REALLOCATION - DIST:SBIL Message

CHL=MTC

DIST:SCAN

DIST:SCAN

1. INPUT MESSAGE FORMAT

DIST:SCAN nn!
or

DIST:SCAN;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message creates a scan point number translator for logical scanners 0 through 'nn'. Scanner 0 is the master scanner, scanners 1 through 15 are line scanners. If the translator already exists, logical scanners are added or deleted as required. Scanners to be deleted must be vacant. The range for nn is 1 through 15. If the second form of the message is used and all scanners are vacant, the scan point number translator is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H117 (DSTSCN) REALLOCATION - DIST:SCAN Message

CHL=MTC

DIST:SCRCLS

DIST:SCRCLS

1. INPUT MESSAGE FORMAT

DIST:SCRCLS cc!

2. EXPLANATION OF MESSAGE

This message generates screening classes 0 through 'cc' for all defined screening tables. Screening classes are added or deleted as required. Screening classes deleted must be vacant in all screening tables. The range for cc is 0 through 62.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H116 (DSTSCL) REALLOCATION - DIST:SCRCLS Message

CHL=MTC

DIST:SCRTBL

DIST:SCRTBL

1. INPUT MESSAGE FORMAT

DIST:SCRTBL tt!

or

DIST:SCRTBL;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message creates screening tables 0 through 'tt'. If screening tables already exist, tables will be added or deleted as required. Tables to be deleted must be vacant. The range for tt is 0 through 63. If the second form of the message is used and all screening tables are vacant, the screening tables are removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H118 (DSTSCT) REALLOCATION - DIST:SCRTBL Message

CHL=MTC

DIST:SC30

DIST:SC30

1. INPUT MESSAGE FORMAT

DIST:SC30 nnnn!
or

DIST:SC30;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates 'nnnn' speed call 30-number lists. If a speed call 30 table already exists, lists will be added or deleted as required. If fewer lists are needed, there must be sufficient number of unassigned lists to delete. The range for nnnn is 1 through 546. If the second form of the message is used and all speed call 30 lists are unassigned the speed call 30 table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H131 (DSTSC3) REALLOCATION - DIST:SC30 Message

CHL=MTC

DIST:SC8

DIST:SC8

1. INPUT MESSAGE FORMAT

DIST:SC8 nnnn!
or

DIST:SC8;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates 'nnnn' speed call 8-number lists. If a speed call 8 table already exists, lists will be added or deleted as required. If fewer 8-number lists are needed, there must be a sufficient number of unassigned lists to delete. The range for nnnn is 1 through 2047. If the second form of the message is used and all speed call lists are unassigned the speed call 8 table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H132 (DSTSC8) REALLOCATION - DIST:SC8 Message

CHL=MTC

DIST:SW

DIST:SW

1. INPUT MESSAGE FORMAT

DIST:SW!

2. EXPLANATION OF MESSAGE

After reallocation is completed, this message is used to request a switch to the off-line SYC containing the new translation layout. If accepted, the switch will take place immediately.

3. SYSTEM RESPONSES

OK = The switch has been performed.

NG = The switch has not been performed, the error message
DIST ERR nnnn will follow giving the reason.

4. REFERENCES

PR3H119 (DSTSW) REALLOCATION - DIST:SW Message

CHL=MTC

DIST:TOTANI

DIST:TOTANI

1. INPUT MESSAGE FORMAT

DIST:TOTANI nn!
or

DIST:TOTANI;RMV!

2. EXPLANATION OF MESSAGE

The first form of the message generates a terminal office test access number table for indexes 1 through 'nn'. If the table already exists, entries are added or deleted as required. Indexes to be deleted must be unassigned. The range for nn is 1 through 63. If the second form of the message is used and all entries are vacant the TOTANI table is removed.

ATTENTION: The message ALW:ADM! must have been entered and the LOCK key on the System Status and Control panel must be operated prior to inputting this message, and the procedures outlined in BSP 233-154-130 must be followed.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message DIST ERR nnnn will follow giving the reason.

IP = The message was accepted, reallocation of memory in the off-line main store is in progress. Upon completion, the output message DIST COMPL will be generated.

4. REFERENCES

PR3H120 (DSTTOT) REALLOCATION - DIST:TOTANI Message

CHL=MTC

DIST:UPD

DIST:UPD

1. INPUT MESSAGE FORMAT

DIST:UPD!

2. EXPLANATION OF MESSAGE

After the switch to the SYC containing the new translation layout has occurred, this message is used to update the translation portion of the off-line main store. The update is performed by copying the content of the on-line main store to the off-line main store.

3. SYSTEM RESPONSES

IP = The update is in progress. Upon completion, the output messages ADM PROG ABT and UPD OMAS COMPL will be generated. The off-line main store will then contain the new translation layout.

NG = The update request is denied. The error message 'DIST ERR nnnn' will follow giving the reason.

4. REFERENCES

PR3H121 (DSTUPD) REALLOCATION - DIST:UPD Message

CHL-MTC

DMP:INITQ

DMP:INITQ

1. INPUT MESSAGE FORMAT

DMP:INITQ aa,LENGTH nn!
DMP:INITQ aa!

2. EXPLANATION OF MESSAGE

Used to set up a DMP:OFLST utility function that will be initiated when and if an initialization occurs.

3. INPUT FIELDS

aa = the address of the first word to be dumped

nn = length of block to be dumped in number of words
(default is eight words)

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed when and if an initialization occurs.

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

1. INPUT MESSAGE FORMAT

DMP:OFLST aa,LENGTH nn;action-options!
DMP:OFLST aa!
DMP:OFLST aa,LENGTH nn!
DMP:OFLST aa;action-options!

2. EXPLANATION OF MESSAGE

Used in critical situations to examine a large block of store words whose data must be consistent. When the dump is activated, the system is taken out of update, thereby freezing a copy of the entire store. It is this copy which is printed. When the system is not in update it is more vulnerable than normal. Hence, the function should only be used if the DMP:ST function will not suffice.

3. INPUT FIELDS

aa = address of the first word to be dumped

nn = length of block to be dumped in number of words
the default is eight words.

action-options

ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match does not occur before the function can be specified. If an immediate match is expected, the SET:MATCH must be entered last. It is not necessary to stop the utility program to change either the match condition or the function.

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed each base level loop or when a match occurs as requested.

RL = A previous utility message is still active. Wait for

(CONTINUED)

DMP:OFLST

(CONTINUED)

DMP:OFLST

normal termination or stop it via STOP:UTIL input message.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

DMP:REG

DMP:REG

1. INPUT MESSAGE FORMAT

DMP:REG OFL!

2. EXPLANATION OF MESSAGE

Used to dump the contents of both the general and special registers in the off-line CC.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

RL = The message should be Repeated Later.
= the request was denied by the multiscan function controller. An equal or higher priority function is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

DMP REG OFL
(dump of off-line registers)

.

.

.

DMP REG OFL COMPL

DMP OFL REG STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

DMP:ST

DMP:ST

1. INPUT MESSAGE FORMAT

DMP:ST aa,LENGTH nn;action-options!
DMP:ST aa!
DMP:ST aa,LENGTH nn!
DMP:ST aa;action-options!

2. EXPLANATION OF MESSAGE

Used to examine a block of store words. The block is printed immediately or when a matcher fires. If the number of words requested is 16 or less, a 'snap shot' is taken and the words are thus consistent. If more than 16 are requested (not allowed ONC), they are printed directly out of the store, 8 at a time, and changes could occur in the latter portion of the block while the printing is being done. Large blocks therefore may not contain consistent data.

3. INPUT FIELDS

aa = the address of the first word to be dumped

nn = length of block to be dumped in number of words
(the default is eight words).

action-options

ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match does not occur before the function can be specified. If an immediate match is expected, the SET:MATCH must be entered last. It is not necessary to stop the utility program to change either the match condition or the function.

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed each base level loop or when a match occurs as requested.

(CONTINUED)

DMP:ST

(CONTINUED)

DMP:ST

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

NG = The number of words to be dumped ONC is greater than 16.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL=MTC

1. INPUT MESSAGE FORMAT

DMP:TAPE a,BLK(b,cccc)!
DMP:TAPE a,SEG dddd!
DMP:TAPE a,LABEL!
DMP:TAPE a,DIRECTRY!

2. EXPLANATION OF MESSAGE

Used to output a block of tape, a segment of tape, the tape DIRECTORY file, or LABEL file on the TTY.

The tape utility program must be active (allowed) to use this function. See TTY input message ALW:TAPEUTIL!

3. INPUT FIELD

a = Tape no. to be dumped
b = Track no. (1-4)
cccc = Block no. (in decimal)
dddd = Segment no. (in decimal)
LABEL = Label file
DIRECTRY = Directory file

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
 = The tape utility program is not currently active.
 = The tape no., track no., or block no. is illegal.
 = The tape no., track no., or block no. was not typed.
 = The segment no. is blank or 0.

RL = The message should be Repeated Later.
 = A prior tape utility request is in progress.

PF = A Printout will Follow. This will be followed
 by one or more of the following messages:

DMP TAPE BLK aa bb
CC CC CC CC CC CC CC CC

(CONTINUED)

DMP:TAPE

(CONTINUED)

DMP:TAPE

.
TAPEUTIL COMPL

DMP TAPE SEG dd aa bb
CC CC CC CC CC CC CC CC

.
TAPEUTIL COMPL

DMP TAPE LABEL FILE a
CC CC CC CC CC CC CC CC

.
TAPEUTIL COMPL

DMP TAPE DIRECTRY a
CC CC CC CC CC CC CC CC

.
TAPEUTIL COMPL

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

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EX:NW

EX:NW

1. INPUT MESSAGE FORMAT

EX:NW!
EX:NW a,switch!
EX:NW;action-option!
EX:NW a,switch;action-option!

2. EXPLANATION OF MESSAGE

EXercise the NetWork fabric from the online system control (SYC). the request may ask to exercise a single switch (64 crosspoints), a group of switches, or the entire network in one of several modes. In the default mode, the running of the exercise will be terminated upon the failure of a test.

CAUTION: The running time exceeds 30 seconds for a single switch and exceeds 30 minutes for a single concentrator group. The running time is also increased by call processing traffic.

See the CLR:RPT:STEP or ABT:MSF input messages to cancel the exercise.

***** warning *****
network fabric assumes unassigned lines are loop start.
When ground start lines are unassigned, they must be
rewired as loop start.

3. EXPLANATION OF VARIABLE FIELD

a is the CONCENTRATOR GROUP (1-15, blank) to exercise
blank ==> exercise all equipped concentrator groups

switch is the SWITCH to exercise

blank ==> all switches
TV ==> TEST VERTICAL
OSW cs ==> OUTPUT SWITCH (2nd stage)
ISW cgs ==> INPUT SWITCH (1st stage)
JSW j ==> JUNCTOR SWITCH (3rd stage)
c - concentrator (0-1, blank ==> both concentrators)
g - switch group (0-2, blank ==> all 3 switch groups)
s - switch (0-7, blank ==> all 8 switches)

(CONTINUED)

j - switch (0-31, blank ==> all 32 switches)

action-option

UCL - indicates an UNCONDITIONAL mode of exercise. in this mode the running of the exercise is not terminated upon the failure of a test. When a test fails, a failure message is generated and the next sequential test is begun. When all tests have been run, a completion message is generated.

RPT - indicates a REPEAT mode of exercise. The request is run repetitively until cleared by an input message. A message is generated by the first run; thereafter, a printout is generated only if the result changes. The status is displayed by the PASS/FAIL lamps on the SSP (System Status Panel). The repetition may be stopped by depressing the EXECUTE key on the SSP and may be restarted again by depressing the key again.

STEP - indicates a STEP mode of exercise. This mode is the same as the REPEAT mode except, the exercise stops after the first run. Thereafter, the request is run once each time the EXECUTE key on the SSP is depressed.

Note: In the UCL, RPT, or STEP modes of operation, the exercise will abort itself after generating 50 failure messages.

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

RL

The multiscan function request was denied or the maintenance TCR is busy. Repeat the request later.

(CONTINUED)

EX:NW

(CONTINUED)

EX:NW

5. REFERENCES

PR-3H313 NFEX
Network Fabric Exercise

CHL=MTC

EX:OTO

EX:OTO

1. INPUT MESSAGE FORMAT

EX:OTO(nxx,xxxx,yyyy),aaa,aaa!

2. EXPLANATION OF MESSAGE

Excercise the Office To Office TeST (OTOTST) program. This tests the cross connects between the old office (SxS only) and the No. 3 ESS office. A range of Telephone Numbers (TN's) is inputted. Only those TN's which are assigned with lines in the PRECUT state are tested.

3. EXPLANATION OF VARIABLE FIELD

nxx

The office code of the group of TN's to be tested.

xxxx

The first TN to be tested.

yyyy

The last TN to be tested. If yyyy is not present only one TN (xxxx) is tested.

aaa - Options for printing and additional testing.

ATP

Prints per line data for each TN which passes all tests. This option is not recommended since it produces a large quantity of TTY printouts.

GLP

Indicates that the Office To Office test should include a ground start - loop start test of the old office. This compares the wiring of the line attending element in the old office to the No. 3 ESS translations.

(CONTINUED)

REV

Indicates that for even parties (I.E. Those parties which have ringing voltage supplied on the tip) of two party or multiparty lines the tip and ring are reversed. This is typically done in the SxS office to provide ringing voltage on even party lines with the same generator used for odd parties.

4. SYSTEM RESPONSES

OK

The message was accepted and the Office To Office test has begun.

RL

Request denied. The Office to Office TeST program is already active.

NG

Request denied. The Office To Office TeST program is not in the paging buffer. See Input Message ALW:TOCO.

5. REFERENCES

PR3H081 OTOTST - Office To Office Test Program

CHL=MTC

EX:SSP

EX:SSP

1. INPUT MESSAGE FORMAT

EX:SSP!
EX:SSP nn!

2. EXPLANATION OF MESSAGE

Used to start execution of the system status panel (ssp) exercise test. If the data field is omitted the complete test will be run, otherwise the function specified by the data field will be tested repetitively. Each function will be run for 5 to 6 seconds. At any time the program will advance to the next function if the SSP EXECUTE key is manually activated.

3. INPUT FIELDS

nn = The identity of the function to be repetitively tested. The value of a given function can be obtained from the chart below. Functions that have visual indicators at the ssp can be obtained using the ssp layout provided. The others will be listed only.

<u>FUNCTION</u>	<u>nn value</u>	<u>FUNCTION</u>	<u>nn value</u>
00	400	08	020 lock(sw)
01	002	09	022
02	004	10	024
03	006	11	026
04	010	12	030
05	012	13	032
06	014	14	034
07	016 spare	15	036
16	040 critical (relay)	24	060
17	042	25	062
18	044 alm circuit(relay)	26	064
19	046 major pow (relay)	27	066
20	050 minor pow (relay)	28	070
21	052 minor (relay)	29	072
22	054 major (relay)	30	074
23	056	31	076
32	100	40	120

(CONTINUED)

EX:SSP

(CONTINUED)

EX:SSP

33	102		41	122	spare
34	104		42	124	
35	106		43	126	
36	110		44	130	
37	112		45	132	
38	114		46	134	
39	116		47	136	
48	140	building (sccs)	56	160	
49	142	cu (sccs)	57	162	
50	144	network (sccs)	58	164	
51	146	main store (sccs)	59	166	
52	150	misc (sccs)	60	170	
53	152	force (sccs)	61	172	
54	154	traffic (sccs)	62	174	
55	156	sys norm (sccs)	63	176	
64	200		72	220	
65	202		73	222	
66	204		74	224	
67	206		75	226	
68	210		76	230	
69	212		77	232	
70	214		78	234	
71	216		79	236	
80	240		88	260	
81	242		89	262	
82	244		90	264	
83	246		91	266	
84	250		92	270	
85	252		93	272	
86	254		94	274	
87	256		95	276	

Function names for positions 71-56:

NO. 2B ESS

71-63

TTYC BLDG CKT-LIM TDC MANUAL-FORCED TRAFIC DSP TOLL-NET ATI

62-56

MAS NET SCAN AMA RT RA MISC

NO. 3 ESS

(CONTINUED)

EX:SSP

(CONTINUED)

EX:SSP

71-63
TRK-LIM SVC-LIM TTYC TDC NRP-ACT OVLD-ANN DSP BLDG FORCED

62-56
CU NWC SC PPD RT AMA MISC

SYSTEM STATUS PANEL

00	45	06	46	47	15	04	40	12	02	03	09
enab	stbl	memr	pod	bod	init	tyti	elt	dra	sel0	sel1	forc

16 30 29 27 28 31 26 14
-----alarms-----

13			35	34	33	32	39	38	37	36	11	10
-----cu0-----cu1-----											pass fail	
altb	cirp											

				01		24		17	42	44	43	05
lpt	lmp			lock	sysnor		pto	iba	almr	almt	exc	

71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 25

95 94 93 92 75 74 73 72

4. SYSTEM RESPONSES

IP = The system status panel exercise is running.

RL = The display buffer is being used by another function.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

EXC:PROG

EXC:PROG

1. INPUT MESSAGE FORMAT

EXC:PROG!

2. EXPLANATION OF MESSAGE

Starts the execution of buffered orders.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

IP Action is being done to ready the system;
 upon completion of this action, execution will begin.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL=MTC

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IN:GENID

IN:GENID

1. INPUT MESSAGE FORMAT

IN:GENID:xxxxxxxx!

2. EXPLANATION OF MESSAGE

Input (IN) the generic identifier (GENID). identifies the generic program to be overwritten. this information is used by the IN:OW nnnnn;TTY! input message to verify that the overwrite is being applied to the correct generic program.

This message must precede the INIT:OWFILE and UPD:OWFILE input messages to properly initialize (or update) the overwrite file header.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

xxxxxxxx = Up to eight characters used to identify the generic.
(Trailing blanks should not be used.)

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= The overwrite program is not currently active.

RL = The message should be Repeated Later.
= A prior overwrite program request is in progress.

OK = The message was OK and has been completed.
= The generic identifier has been saved for later reference.

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

IN:ISSID

IN:ISSID

1. INPUT MESSAGE FORMAT

IN:ISSID:zzzzzzzz!

2. EXPLANATION OF MESSAGE

Input (IN) the issue identifier (ISSID). identifies the program issue to be overwritten. this information is used by the IN:OWnnnnn;TTY! input message to verify that the overwrite is being applied to the correct program issue.

This message must precede the INIT:OWFILE and UPD:OWFILE input messages to properly initialize (or update) the overwrite file header.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

zzzzzzzz = Up to eight characters used to identify the issue.
(Trailing blanks should not be used.)

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= The overwrite program is not currently active.

RL = The message should be Repeated Later.
= A prior overwrite program request is in progress.

OK = The message was OK and has been completed.
= The issue identified has been saved for later reference.

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

IN:OW

IN:OW

1. INPUT MESSAGE FORMAT

IN:OW nnnnn;TTY!
IN:OW nnnnn;TAPE!

2. EXPLANATION OF MESSAGE

Input (IN) an overwrite (OW). moves an overwrite record from the tape to the overwrite buffer (TAPE option) or initiates the loading of the overwrite buffer via IN:OWDATA input messages (TTY option).

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

nnnnn = The number of the overwrite (expressed in decimal).
TAPE = Copy an old overwrite from tape to the OW buffer.
TTY = Create a new overwrite via IN:OWDATA messages.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= The overwrite program is not currently active.

RL = The message should be Repeated Later.
= A prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

IN OW COMPL

IN OW STOPPED

5. REFERENCES

(CONTINUED)

IN:OW

(CONTINUED)

IN:OW

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

1. INPUT MESSAGE FORMAT

IN:OWDATA:ck,seg,adr,old,new!

2. EXPLANATION OF MESSAGE

Input (IN) overwrite data (OWDATA). enter the change data for a single resident or nonresident program store word. a series of these messages is used to enter the data for a complete overwrite from the TTY. The series must be preceded by an IN:OW nnnnn;TTY input message.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

ck = check number ('-' = omit check)
seg = The segment number of the location being overwritten (resident code is denoted as segment 0).
adr = The absolute address of the location being overwritten.
old = Old content of the location being overwritten.
new = New data to be used in overwriting the location.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= request out of sequence - the ow buffer has not been initialized for data. Must be preceded by an IN:OW n;TTY input message.
= the inputted address (adr) is out of range.
= the check number is invalid for the input data.
(see tty output message IN OWDATA ERR)

OK = The message was OK and has been completed.
= The input data has been inserted into the overwrite buffer as part of the overwrite being accumulated.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

(CONTINUED)

IN:OWDATA

(CONTINUED)

IN:OWDATA

IN OWDATA WARN

IN OWDATA ERR

IN OWDATA STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

IN:TAPE

IN:TAPE

1. INPUT MESSAGE FORMAT

IN:TAPE a,BLK(b,cccc)!

2. EXPLANATION OF MESSAGE

Input (IN) from tape. Inputs a specified tape block into the input/output buffer. No data printout is given.

The tape utility program must be active (allowed) to use this function. See TTY input message ALW:TAPEUTIL!

3. INPUT FIELDS

a = Tape no. to be inputted
b = Track no. (1-4)
cccc = Block no. (in decimal)

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the tape utility program is not currently active.
= the track no. is illegal - must be (1-4).

RL = The message should be Repeated Later.
= a prior tape utility request is in progress.

IP = The message is In Progress.
this will be followed by one or more of the following messages:

TAPEUTIL COMPL

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

INH:ADM

INH:ADM

1. INPUT MESSAGE FORMAT

INH:ADM!

2. EXPLANATION OF MESSAGE

Used to abort the administrative program. This message is valid if it is requested from the same channel as the ALW:ADM message.

3. SYSTEM RESPONSES

IP - the abort is in progress.

?C - the abort was requested from a channel other than the one requesting the MSF.

4. REFERENCES

PR-3H020-02 ADMCON - ADMINISTRATIVE FUNCTIONS CONTROL PROGRAM

CHL=MTC,MTR,TRF,SO

INH:BLDG

INH:BLDG

1. INPUT MESSAGE FORMAT

INH:BLDG!

2. EXPLANATION OF MESSAGE

INHhibit all BUILDing alarm scan points except FIRE alarm. All other building alarm scan points will be ignored. This message is the software equivalent of operating the Inhibit Building Alarm key on the System Status Panel. The ALW:BLDG! message rearms all building alarms.

3. SYSTEM RESPONSES

RL = The paging buffer is busy and the message cannot be processed.

OK = .The desired action has been taken.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL=MTC

INH:DSP

INH:DSP

1. INPUT MESSAGE FORMAT

INH:DSP!

2. EXPLANATION OF MESSAGE

INHibit Dynamic Service Protection. (DSP) DSP will not be invoked if such a condition should arise. dSP was originally turned on by the ALW:DSP TTY message.

3. SYSTEM RESPONSES

OK The request was accepted and DSP is now turned off.

NG DSP was already inhibited and therefore nothing was done.

4. REFERENCES

BLMMA	PR-3H004-02
INPUT	PR-3H160-02
LNORIG	PR-3H162-02

CHL-MTC, TRF, MTR

INH:DTDA

INH:DTDA

1. INPUT MESSAGE FORMAT

INH:DTDA!

2. EXPLANATION OF MESSAGE

INHhibit the Dial Tone Delay Alarm. The DTDA alarm is silenced and the circuit is inhibited.

A TTY output message will be printed if the DTDA circuit inhibit control point changes state.

3. SYSTEM RESPONSES

OK = The request to activate was accepted.

NG = A problem was encountered while processing the request.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL-MTC

INH:MASAU

INH:MASAU

1. INPUT MESSAGE FORMAT

INH:MASAU!

2. EXPLANATION OF MESSAGE

Used to inhibit the execution of the MAS audit. This is a temporary state. The audit will be automatically allowed if the system is ever removed from the update mode and then enters that mode again; ie, the audit is always made active after a UPD OMAS COMPL message is printed. The audit can also be allowed manually via the ALW:MASAU input message.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The MAS audit has been inhibited.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

INH:MSF

INH:MSF

1. INPUT MESSAGE FORMAT

INH:MSF n!

2. EXPLANATION OF MESSAGE

Used to inhibit, ie, prevent the execution of, a multiscan function.

3. INPUT FIELDS

n = number of the multiscan function to be inhibited (0-15)

4. SYSTEM RESPONSES

OK = Function has been inhibited.

NG = Function was already inhibited.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

1. INPUT MESSAGE FORMAT

INH:NGC cs!

2. EXPLANATION OF MESSAGE

This message causes an order to be sent to the specified active network controller (NWC) to inhibit group checks to the pulser so that the pulser will operate under failure conditions. This message will also cause the system software to ignore NWC failures in an attempt to process calls under severe failures conditions.

This message is provided so that calls can be processed under unusual grid failure conditions and should be used with EXTREME CAUTION. DAMAGE TO THE NETWORK FABRIC OR CONTROLLER COULD RESULT FROM ITS USE (SPECIFICALLY, WELDING OF THE REMREED CROSSPOINTS AND FAILURE OF THE FB229 CIRCUIT PACK). The Network Troubleshooting Manual (PK-3H301-03) should be consulted.

3. EXPLANATION OF VARIABLE FIELD

c - the Peripheral Control Frame (PCF) on which the NWC is located.

s - the System Control (SYC) on which the NWC is located.

4. SYSTEM RESPONSES

'OK' will be printed as an immediate response.

The system will also print

** REPT NGC cs INH

every ten minutes giving a major alarm to notify the craft that the system group checks are inhibited and should be repaired

(CONTINUED)

quickly.

On the hour this condition will be cleared by an automatic SYNC switch. When this condition is cleared and group checks are active again the following message is printed:

REPT NGC ACT

This condition is cleared whenever a SYNC switch or an initialization occurs.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

PK-3H301-03 Network Troubleshooting Manual

CHL=MTC,MTR

INH:NW

INH:NW

1. INPUT MESSAGE FORMAT

INH:NW;COUNT!

2. EXPLANATION OF MESSAGE

Request the Grid Error Count Auto Start feature to be INHIBITED. This is the opposite of ALW:NW;COUNT.

3. SYSTEM RESPONSES

OK

The Grid Error Count Auto Start feature is INHIBITED.

NG

The Grid Error Count Auto Start feature can NOT be inhibited because the feature is already inhibited or the Grid Error Count function is NOT allowed.

4. REFERENCES

PR-3H218 - GDCNT - Grid Error Count program
PK-3H301 - Network Trouble-Shooting Manual
BSP-233-153-145 - Remreed Network Fault Isolation Utilities

CHL-MTC

INH:SCHED

INH:SCHED

1. INPUT MESSAGE FORMAT

INH:SCHED!

2. EXPLANATION OF MESSAGE

INHhibit execution of the general SCHEDuler. While inhibited, the scheduler will reject all requests to begin scheduler execution (i.e. manual or automatic requests). If active, the general scheduler is marked to become inhibited at the completion of the current job, i.e. until the job completes normally or is aborted.

The inhibit condition can only be cancelled by the ALW:SCHED message.

To resume execution of a previously inhibited schedule, see TTY input message BEGIN:SCHED!

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

IP = The message is In Progress.

REPT SCHED INH sched major minoradr

OK = The message was OK and has been completed.

5. REFERENCES

PR-1C963 CMMON Common Maintenance Monitor Program
PR-3H203 MMONA Maint. Monitor Application Program (No. 3 ESS)

CHL=MTC

1. INPUT MESSAGE FORMAT

INIT:OWFILE!

2. EXPLANATION OF MESSAGE

Initialize (INIT) the overwrite file (OWFILE). used to format the overwrite file on tape by writing a header at the beginning of the first block of the file. It is assumed that the generic identifier and the issue identifier have been initialized via the IN:GENID and IN:ISSID input messages respectively. This message effectively wipes out all records of previous overwrites as well as any overwrites to resident programs. THIS MESSAGE SHOULD ONLY BE USED UNDER EXTRAORDINARY CIRCUMSTANCES such as the overwrite file getting garbaged to the point that it is unusable as it exists.

This message also destroys the current overwrite buffer contents (since the last IN:OW input message).

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

- NG = The message was not accepted (No Good).
= the overwrite program is not currently active.
- RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.
- PF = A Printout will Follow. This will be followed by one or more of the following messages:

INIT OWFILE COMPL

(CONTINUED)

INIT:OWFILE

(CONTINUED)

INIT:OWFILE

INIT OWFILE STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT=2,9 CHL-MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C143

INIT:PD

INIT:PD

1. INPUT MESSAGE FORMAT

INIT:PD ppd pd!
INIT:PD ppd pd www!

2. EXPLANATION OF MESSAGE

This message will attempt to initialize a specified Peripheral Decoder pack (FC181) to a known state.

This function is required when a PD pack has been replaced and should only be invoked under the guide lines of the Peripheral Decoder Replacement Procedure BSP.

The initialization will send a sequence of seven "zeros" to both PDs on a pack and optionally clear (idle) all relays controlled by the PDs.

3. INPUT FIELDS

ppd = Peripheral Pulse Distributor which controls the Peripheral Decoder to be initialized

pd = one of the two Peripheral Decoders on the pack that has been replaced

www = option to initialize and clear all the relays on the replaced PD pack:
 (blank) - Initialize only
 CLR - Initialize and idle all relays

4. SYSTEM RESPONSES

?D = CLR option or data specified wrong

RL = Another non-resident function is active. Retry Later.

NG = The PD specified is marked NOT EQUIPPED in the equipped PD map or the orders to initialize the PD failed.

(CONTINUED)

INIT:PD

(CONTINUED)

INIT:PD

OK = The PD has been initialized successfully.

5. ACTION TO BE TAKEN

If the response is 'NG', determine if the equipped PD map (symbol EQPT_PD) in translations is in error. If so, correct the map with the appropriate recent change (RC) messages. If not, the orders to initialize the PD failed. Determine if the PPD controller for the specified PD fails the controller diagnostic. If it fails, correct the problem and repeat the INIT:PD.

6. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines
BSP-233-143-100 TOPP Trouble recovery procedures

CHL=MTC

INIT:PROG

INIT:PROG

1. INPUT MESSAGE FORMAT

INIT:PROG!

2. EXPLANATION OF MESSAGE

Used to initialize the buffer.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

PF	The execution of the function has been started. A TTY response of INIT PROG COMPL will be printed upon completion of the function.
NG	This message is only allowed if the previous program has been stopped. See STOP:PROG input message.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL=MTC

INIT:TAPE

INIT:TAPE

1. INPUT MESSAGE FORMAT

INIT:TAPE!

2. EXPLANATION OF MESSAGE

Used to cleanup a hung tape system and retension the inservice tape data controllers. do not use if tapes are not hung and a tape function is ip.

3. SYSTEM RESPONSES

IP Message accepted and function executing.

4. REFERENCES

PR-1C957-01 CTAPH Tape Handling Program

CHL=MTC

INIT:TTYC

INIT:TTYC

1. INPUT MESSAGE FORMAT

INIT:TTYC!

2. EXPLANATION OF MESSAGE

Initialize all TTY controllers. This message performs the same function as the TTY INIT key on the status panel.

3. SYSTEM RESPONSES

No immediate response is given. 'REPT STAT TTYC' output messages should be printed for controllers with any ports remaining out-of-service.

4. REFERENCES

PR-3H259-02 TTYMAP - TTY MESSAGE ADMINISTRATION PROGRAM

CHL-MTC,MTR

1. INPUT MESSAGE FORMAT

LOD:INDIR nn;action-options:dd,mm!
LOD:INDIR nn;action-options:dd!

2. EXPLANATION OF MESSAGE

Used to monitor eight words of store indirectly through a register pair and simultaneously modify the first monitored word. The monitor occurs before the word is modified, i.e., the printed data is the original contents of the word. The register pair will usually be one of the two base address registers (RA0 or RA1). The contents of the register pair is interpreted as a 20-bit address which may be masked and to which an offset may be added (see input message SET:INDIR) before it is used to point to the first of eight words to be monitored. Monitoring indirect is only meaningful if done when an address or data match occurs. If the destination is the TTY (default), the contents of the eight words will print the first time a match occurs. They will print on subsequent matches only if the contents of one or more of the eight words has changed when monitored. If the destination is the LAMPS (display buffer on 3ACC panel or system status panel), the contents of the first word are displayed on every match.

3. INPUT FIELDS

nn = number of the register pair whose contents are to be used as a 20-bit address
(the first register of the pair is nn)

dd = data to be loaded (default value is 0)

mm = a mask which allows only certain bits of the original data to be changed. The bits of the original data will be changed if the corresponding bits in mm are one. The default mask or a specified mask of zero will result in an actual mask of all ones.

action-options (The ONC option must be specified.)

ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match

(CONTINUED)

does not occur before the function can be specified.
If an immediate match is expected, the SET:MATCH must
be entered last. It is not necessary to stop the
utility program to change either the match condition
or the function.

RPT = Execute the function repetitively.

RDT LAMPS = Direct the result to the display buffer.

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed
each base level loop or when a match occurs as requested.

RL = A previous utility message is still active. Wait for
normal termination or stop it via STOP:UTIL input message.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL=MTC

1. INPUT MESSAGE FORMAT

LOD:OMAS;TAPE a:file!
 LOD:OMAS;BOOT!
 LOD:OMAS;BOOT:FULL!
 LOD:OMAS;BOOT:ERASE!

2. EXPLANATION OF MESSAGE

Load (LOD) the other main store (OMAS) from tape. This message will reload the OMAS with data from the tape via one of two methods.

For the TAPE option, the generic (GENERIC), translation (TRNSLN) and/or patch (PATCH) tape files will be loaded from tape unit a.

For the BOOT option, the OMAS is loaded by a bootstrap operation on the off-line CC. Upon completion, the OMAS will be loaded as if a normal bootstrap had been performed. Active overwrites from the overwrite file (OWFILE) are also loaded. To load from the off-line tape only, the on-line tape must be physically removed from its transport.

For either option, the system must be in the locked state. If the system was initially in the normal update system state, the successful completion of this message will stop the main store audit and remove the system from the double store read (DSR) mode.

The tape utility program must be active (allowed) to use this function. See TTY input message ALW:TAPUTIL!

3. INPUT FIELDS

a = tape no. (TAPE option only)
 file = GENERIC (load generic file only)
 = TRNSLN (load translation file only)
 = PATCH (load patch file only)

(CONTINUED)

(default - load, GENERIC, TRNSLN and PATCH)

BOOT = Perform off-line bootstrap
 FULL = Reload all memory (BOOT option only)
 ERASE = Destroys the old data in the off-line store
 before reloading all memory (BOOT option only).
 TAPE = Load specified file from tape a

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
 = the tape utility program is not currently active.
 = the tape no. is illegal (tape option).
 = the file name is illegal (must be GENERIC or TRNSLN).
 = neither BOOT nor TAPE was specified.

RL = The message should be Repeated Later.
 = a prior tape utility request is in progress.

IP = The message is In Progress.
 this will be followed by one or more of the following
 messages:

LOD OMAS COMPL

UPD OTS COMPL

TAPEUTIL STOPPED aa bb cc dd

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT-06,09 CHL-MTC

1. INPUT MESSAGE FORMAT

LOD:OW:NEW!
LOD:OW:OLD!

2. EXPLANATION OF MESSAGE

Load (LOD) the overwrite (OW). used to change the contents of program locations. The data in the overwrite buffer is used to overwrite the data in the off-line main store for resident programs and in the PAGEMON file on tape for nonresident programs.

If the load (LOD) operation is successful, a verify (VER) is automatically performed. See TTY input message VER:OW.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

OLD = Overwrite the present program data with the 'old data' in the overwrite buffer (used to remove an overwrite).
NEW = Overwrite the present program data with the 'new data' in the overwrite buffer (used to load an overwrite).

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.
= request out of sequence - overwrite data is not present in the ow buffer.

RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

(CONTINUED)

LOD:OW

(CONTINUED)

LOD:OW

LOD OW COMPL

LOD OW STOPPED

VER OW COMPL

VER OW STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

1. INPUT MESSAGE FORMAT

LOD:REG nn;action-options:dd,mm!
LOD:REG nn;action-options:dd!

2. EXPLANATION OF MESSAGE

Used to monitor eight consecutive registers and simultaneously modify the first monitored register. The monitor occurs before the register is modified, i.e., the printed data is the original register contents. Monitoring registers is only meaningful if done when an address or data match occurs. Therefore, the ONC action option is required. If the destination is the TTY (default), the contents of the eight registers will print the first time a match occurs. They will print on subsequent matches only if the contents of one or more of the eight registers has changed when monitored. If the destination is the LAMPS (display buffer on 3ACC panel or system status panel), the contents of the first register is displayed on every match.

3. INPUT FIELDS

nn = number of the general register to be modified (0-15)

dd = data to be loaded (default value is 0)

mm = a mask which allows only certain bits of the original data to be changed. The bits of the original data will be changed if the corresponding bits in mm are one. The default mask or a specified mask of zero will result in an actual mask of all ones.

action-options (The ONC option must be specified.)

ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match does not occur before the function can be specified. If an immediate match is expected, the SET:MATCH must be entered last. It is not necessary to stop the utility program to change either the match condition or the function.

RPT = Execute the function repetitively.

(CONTINUED)

RDT LAMPS = Direct the result to the display buffer.

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed each base level loop or when a match occurs as requested.

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

NG = A register number above 15 was specified.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

1. INPUT MESSAGE FORMAT

LOD:ST aa;action-options:dd,mm!
LOD:ST aa;action-options:dd!

2. EXPLANATION OF MESSAGE

Used to monitor eight consecutive words of store and simultaneously modify the first monitored word. The monitor occurs before the word is modified. The monitoring may be done each base-level loop or only when an address or data match occurs. If the destination is the TTY (default), the contents of the eight words will print the first time they are monitored. They will print subsequently only if the contents of one or more of the four words has changed when monitored. If the destination is the LAMPS (display buffer on 3ACC panel or system status panel), the contents of the first word are displayed every time the words are monitored.

3. INPUT FIELDS

aa = address of the word to be loaded

dd = data to be loaded (default value is 0)

mm = a mask which allows only certain bits of the original data to be changed. The bits of the original data will be changed if the corresponding bits in mm are one. The default mask or a specified mask of zero will result in an actual mask of all ones.

action-options

ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match does not occur before the function can be specified. If an immediate match is expected, the SET:MATCH must be entered last. It is not necessary to stop the utility program to change either the match condition or the function.

RPT = Execute the function repetitively.

RDY LAMPS = Direct the result to the display buffer.

SG

(CONTINUED)

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed each base level loop or when a match occurs as requested.

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

MON:ALNK

MON:ALNK

1. INPUT MESSAGE FORMAT

MON:ALNK!

MON:ALNK(cg)!

MON:ALNK(cg,b)!

MON:ALNK(cg,bcd)!

2. EXPLANATION OF MESSAGE

MONitor all errors that occur involving the specified A-LINK. The request may ask to monitor all A-LINKs, a group of A-LINKs or a specific A-LINK.

NOTE: A MONitor A-LINK request will initiate the Trunk and Service circuit maintenance aids program (TSVMON).

3. EXPLANATION OF VARIABLE FIELD

cg

Is the CONCENTRATOR GROUP of the A-LINK.

BLANK - MONITOR ALL A-LINKS.

bcd

b - Is the concentrator(0-1) of the A-LINK.

c - Is the output switch(0-7) of the A-LINK.

d - Is the output switch horizontal(0-7) of the A-LINK.

BLANK - MONITOR ALL A-LINKS IN CONCENTRATOR 0.

(CONTINUED)

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL=MTC

MON:BLNK

MON:BLNK

1. INPUT MESSAGE FORMAT

MON:BLNK!

MON:BLNK(cg)!

MON:BLNK(cg,j)!

2. EXPLANATION OF MESSAGE

MONitor all errors that occur involving the specified B-LINK. The request may ask to monitor all B-LINKs, a group of B-LINKs or a specific B-LINK.

NOTE: A MONitor B-LINK request will initiate the Trunk and Service circuit maintenance aids program (TSVMON).

3. EXPLANATION OF VARIABLE FIELD

cg

Is the CONCENTRATOR GROUP of the B-LINK.

BLANK - MONITOR ALL B-LINKS.

j

Is the JUNCTOR SWITCH NUMBER(0-32) for the B-LINK.

BLANK - MONITOR ALL WIRE B-LINKS IN THE CONCENTRATOR GROUP.

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

(CONTINUED)

MON:BLNK

(CONTINUED)

MON:BLNK

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

MON:INDIR

MON:INDIR

1. INPUT MESSAGE FORMAT

MON:INDIR nn;action-options!

2. EXPLANATION OF MESSAGE

Used to monitor eight words of store indirectly through a register pair. The register pair will usually be one of the two base address registers (RA0 or RA1). The contents of the register pair is interpreted as a 20-bit address which may be masked and to which an offset may be added (see input message SET:INDIR) before it is used to point to the first of eight words to be monitored. Monitoring indirect is only meaningful if done when an address or data match occurs. If the destination is the TTY (default), the contents of the eight words will print the first time a match occurs. They will print on subsequent matches only if the contents of one or more of the eight words has changed when monitored. If the destination is the LAMPS (display buffer on 3ACC panel or system status panel), the contents of the first word are displayed on every match.

3. INPUT FIELDS

nn = number of the register pair whose contents are to be used as a 20-bit address.

The first register of the pair is nn.

action-options (The ONC option must be specified.)

ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match does not occur before the function can be specified. If an immediate match is expected, the SET:MATCH must be entered last. It is not necessary to stop the utility program to change either the match condition or the function.

SGL = Terminate the function after the first execution.

RDT LAMPS = Direct the result to the display buffer.

4. SYSTEM RESPONSES

(CONTINUED)

MON:INDIR

(CONTINUED)

MON:INDIR

IP = The function has been activated. It will be executed each base level loop or when a match occurs as requested.

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

MON:JC

MON:JC

1. INPUT MESSAGE FORMAT

MON:JC!

MON:JC(cg)!

MON:JC(cg,j)!

2. EXPLANATION OF MESSAGE

MONitor all errors that occur involving the specified JUNCTOR. The request may ask to monitor all JUNCTORs, a group of JUNCTORs or a specific JUNCTOR.

NOTE: A MONitor JUNCTOR request will initiate the Trunk and Service circuit maintenance aids program (TSVMON).

3. EXPLANATION OF VARIABLE FIELD

cg

Is the CONCENTRATOR GROUP of the JUNCTOR.

BLANK - MONITOR ALL JUNCTORS.

j

Is the JUNCTOR SWITCH NUMBER(0-32) for the JUNCTOR.

BLANK - MONITOR ALL JUNCTORS(CIRCUIT B-LINKS) IN THE CONCENTRATOR GROUP.

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

(CONTINUED)

MON:JC

(CONTINUED)

MON:JC

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

MON:LINE

MON:LINE

1. INPUT MESSAGE FORMAT

MON:LINE!

MON:LINE(cg)!

MON:LINE(cg,b)!

MON:LINE(cg,bcde)!

2. EXPLANATION OF MESSAGE

MONitor all errors that occur involving the specified LINE. The request may ask to monitor all LINES, a group of LINES or a specific LINE.

NOTE: A MONitor LINE request will initiate the Trunk and Service circuit maintenance aids program (TSVMON).

3. EXPLANATION OF VARIABLE FIELD

cg

Is the CONCENTRATOR GROUP of the LINE.

BLANK - MONITOR ALL LINES.

bcde

b - Is the concentrator(0-1) of the LINE.

c - Is the input switch group(0-2) of the LINE.

d - Is the output switch horizontal(0-7) of the LINE.

e - Is the input level(0-7) of the LINE.

BLANK - MONITOR ALL LINES IN CONCENTRATOR 0.

(CONTINUED)

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

1. INPUT MESSAGE FORMAT

MON:REG nn;action-options!

2. EXPLANATION OF MESSAGE

Used to monitor eight consecutive registers. Monitoring registers is only meaningful if done when an address or data match occurs. Therefore, the ONC action option is required. If the destination is the TTY (default), the contents of the eight registers will print the first time a match occurs. They will print on subsequent matches only if the contents of one or more of the eight registers has changed when monitored. If the destination is the LAMPS (display buffer on 3ACC panel or system status panel), the contents of the first register is displayed on every match.

3. INPUT FIELDS

nn = number of the first of eight consecutive registers
The register numbers range from 0-31 as follows:

2B REG

0--R0		16--IM
1--R1		17--CF
2--R2	LW	18--IS
3--R3	LR	19--HG
4--R4	LM	20--SS(19-16)
5--R5	LF-RF	21--SS(15-0)
6--R6	KM	22--ER(19-16)
7--R7	GR	23--ER(15-0)
8--R8	EA	24--MMSR
9--R9		25--MCHB(19-16)
10--R10		26--MCHB(15-0)
11--R11		27--MS
12--R12	PFM	28--DB(19-16)
13--R13	CA	29--DB(15-0)
14--R14	DFH	30--PA(19-16)
15--R15	AA	31--PA(15-0)

action-options (The ONC option must be specified.)
ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used

(CONTINUED)

in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match does not occur before the function can be specified. If an immediate match is expected, the SET:MATCH must be entered last. It is not necessary to stop the utility program to change either the match condition or the function.

SGL = Terminate the function after the first execution.
RDT LAMPS = Direct the result to the display buffer.

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed each base level loop or when a match occurs as requested.

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL=MTC

MON:SCAN

MON:SCAN

1. INPUT MESSAGE FORMAT

MON:SCAN sc rw!

2. EXPLANATION OF MESSAGE

MONitor a row in the SCANner once per base level loop and display the state of the row on the system status panel.

3. INPUT FIELDS

sc = scanner number (0-15) in decimal in which the desired row is located

rw = row number (0-31) in decimal in the indicated scanner to be displayed

4. SYSTEM RESPONSES

NG = The scanner number is illegal.

RL = The monitor request was rejected. This occurs if the SSP display is already in use or if the application utility routine is busy. STOP:UTIL! will free all utility functions.

OK = The monitor request was accepted.

5. REFERENCES

PR-3H251 MCSUB Maintenance Subroutines
PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL=MTC

1. INPUT MESSAGE FORMAT

MON:ST aa!
MON:ST aa;action-options!

2. EXPLANATION OF MESSAGE

Used to monitor eight consecutive words of store. The monitoring may be done each base-level loop or only when an address or data match occurs. If the destination is the TTY (default), the contents of the eight words will print the first time they are monitored. They will print subsequently only if the contents of one or more of the four words has changed when monitored. If the destination is the LAMPS (display buffer on 3ACC panel or system status panel), the contents of the first word are displayed every time the words are monitored.

3. INPUT FIELDS

aa = address of the first word to be monitored

action-options

ONC = Execute the function on the condition that an address and/or data match has occurred. This option is used in conjunction with the SET:MATCH input message which loads and enables the utility matchers. The messages may be entered in either order provided that the match does not occur before the function can be specified. If an immediate match is expected, the SET:MATCH must be entered last. It is not necessary to stop the utility program to change either the match condition or the function.

SGL = Terminate the function after the first execution.

RDT LAMPS = Direct the result to the display buffer.

4. SYSTEM RESPONSES

IP = The function has been activated. It will be executed each base level loop or when a match occurs as requested.

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

(CONTINUED)

MON:ST

(CONTINUED)

MON:ST

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

MON:SVC

MON:SVC

1. INPUT MESSAGE FORMAT

MON:SVC!
MON:SVC(g)!
MON:SVC(g,m)!

2. EXPLANATION OF MESSAGE

MONitor all errors that occur involving the specified SERVICE CIRCUIT. The request may ask to monitor all SERVICE CIRCUITS, a group of SERVICE CIRCUITS or a specific SERVICE CIRCUIT.

NOTE: A MONitor SERVICE CIRCUIT request will initiate the Trunk and Service circuit maintenance aids program (TSVMON).

3. EXPLANATION OF VARIABLE FIELD

g

Is the GROUP NUMBER(64-127) of the SERVICE CIRCUIT.

BLANK - MONITOR ALL SERVICE CIRCUIT GROUPS.

m

Is the MEMBER NUMBER(0-127) of the SERVICE CIRCUIT.

BLANK - MONITOR ALL MEMBERS.

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

(CONTINUED)

MON:SVC

(CONTINUED)

MON:SVC

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

MON:TRK

MON:TRK

1. INPUT MESSAGE FORMAT

MON:TRK!
MON:TRK(g)!
MON:TRK(g,m)!

2. EXPLANATION OF MESSAGE

MONitor all errors that occur involving the specified TRUNK.
The request may ask to monitor all TRUNKs, a group of TRUNKs or
a specific TRUNK.

NOTE: A MONitor TRUNK request will initiate the Trunk and
Service circuit maintenance aids program (TSVMON).

3. EXPLANATION OF VARIABLE FIELD

g

Is the GROUP NUMBER(128-256) of the TRUNK.

BLANK - MONITOR ALL TRUNK GROUPS.

m

Is the MEMBER NUMBER(0-127) of the TRUNK.

BLANK - MONITOR ALL MEMBERS.

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

(CONTINUED)

MON:TRK

(CONTINUED)

MON:TRK

RL

The request was denied. Repeat the request later.

5. REFERENCES.

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

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1. INPUT MESSAGE FORMAT

OFR:UTIL/
TYP aaa/ (ALWAYS REQUIRED)
UNT b (ONLY FOR DMP ...DEFAULT 0)
BLK ccc/ (ALWAYS REQUIRED)
OFS dd/ (ONLY FOR CLR)
NUM ff/ (ONLY FOR CLR)
UCL yes OR no/ (ONLY FOR CLR)
END!

2. EXPLANATION OF MESSAGE

This message and its associated keywords are used to dump or clear blocks of tape for the office records file (OFR3). Each appropriate keyword and its data should be entered along with the continuation character (/), with the last keyword being END! or the last keyword and its data followed by the execution character (!).

TYP aaa

Where aaa is DMP (dump) or CLR (clear) depending on which function is to be done.

UNT b

where b is the tape unit (0,1) to be used to dump. (default is 0)

BLK ccc

Where ccc is the starting block number relative to the beginning of the file. If TYP DMP is specified all non-zero blocks are dumped starting from block ccc to the end of the file. The dump may be terminated prematurely by hitting the

(CONTINUED)

'break' key while printing.

OFS dd

Where dd is the offset within the block to start clearing..
CAUTION: the offset is relative to word 1 in the block (not word 0). Thus if dd is n, the first word cleared in the block is n+1. Offsets (dd) within block ccc range from 0-829 ...corresponding to words 1-830. Notice that of the 832 words in the block that word 0 and word 831 can not be cleared. For convience, specifying an offset of 830+m will refer to offset m in block ccc+1.

NUM ff

Where ff is the number of consecutive words cleared. If the word or words to be cleared includes offsets greater than 830, clearing will continue in block ccc+1 starting at offset 0 (word 1).

UCL yes OR no

The UCL YES must be specified when clearing blocks of tape. Unconditional keyword is used as a safety. Required only for type CLR. Care should be exercised in clearing blocks.

END

End of message:

No more segments will be accepted for this message. "END" must be followed by the standard execute character "!". The message will now be executed. The end can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by a (/).

(CONTINUED)

3. SYSTEM RESPONSES

IP - Printout In Progress.

RL - Retry Later. This multiscan function request was
deined do to another active multiscan function
being active.

4. REFERENCES

PR-3H105 OFRUTL

ALM=0 CHL=ALL

OP:ALM

OP:ALM

1. INPUT MESSAGE FORMAT

OP:ALM:STAT!

2. EXPLANATION OF MESSAGE

OutPut the ALarM STATus of the system.

3. SYSTEM RESPONSES

'PF' will be printed followed by the alarm status.

4. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

OP:AMA

OP:AMA

1. INPUT MESSAGE FORMAT

OP:AMA:STAT!

2. EXPLANATION OF MESSAGE

OutPut the Automatic Message Accounting unit STATus.

3. SYSTEM RESPONSES

'PF' will be printed followed by the AMA status.

4. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

OP:CLK

OP:CLK

1. INPUT MESSAGE FORMAT

OP:CLK!

2. EXPLANATION OF MESSAGE

Used to output the system clock.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

PF = The printing of the clock will follow.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

ALM=4 CHL=MTS

OP:CU

OP:CU

1. INPUT MESSAGE FORMAT

OP:CU:STAT!

2. EXPLANATION OF MESSAGE

Output the state of the processor as recorded in the primary system control words.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

PF = The printout of the control words will follow.

RL = A common print buffer is currently busy and hence the status printout cannot be generated at this time (e.g., a utility function is presently active).

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

OP:DATA

OP:DATA

1. INPUT MESSAGE FORMAT

OP:DATA;CURR!
or

OP:DATA;OLD!

2. EXPLANATION OF MESSAGE

This message causes one of two files on magnetic tape cartridge units 0 and 1 to be updated to reflect the contents of the online translation store. The updated file is then flagged with the current date.

'CURR' Indicates file 'TRNSLN' is to be updated.

'OLD' Either file 'BACKDT1' or file 'BACKDT2' is to be updated. The update will be done on the file flagged with the least recent date or with a zero date.

ATTENTION: Both tape units must be in service in order for the update to be completed successfully.

3. SYSTEM RESPONSES

NG = the message was not accepted. The error message VERB ERR nnnn will follow indicating the reason.

IP = the message was accepted and the requested update is in progress. Upon successful completion of the update, the message VERB IDENT1 COMPL will be printed.

4. REFERENCES

PR-3H030-03 OFFICE DATA FILE UPDATE PROGRAM

CHL=MTC

OP:DELAY

OP:DELAY

1. INPUT MESSAGE FORMAT

OP:DELAY n!

2. EXPLANATION OF MESSAGE

This message is used to print out the contents of a pending office records delay message that was entered by OP:OFR.

n - The message slot number in the range 0 - 19.

3. SYSTEM RESPONSES

OK - The message was accepted and the print out of the message slot contents will follow.

NG - No Good the message was not accepted and a ADM ERR nnnn will follow stating the reason.

4. REFERENCES

PR-3H208 OPDEL

CHL=ALL

OP:EXP

OP:EXP

1. INPUT MESSAGE FORMAT

OP:EXP!

2. EXPLANATION OF MESSAGE

This message will print out the volumn of all spare memory in the office. The spare translation store and temporary store sizes and locations are read directly from the MTI. The spare expansion blocks of various sizes are counted.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

RL = The message should be Repeated Later.

PF = A Printout will Follow.

4. REFERENCES

PR-3H205 OPEXP

CHL=ALL

OP:FEA

OP:FEA

1. INPUT MESSAGE FORMAT

OP:FEA/

LIST ttt/
OP ooo/
TN nxx xxxx/
BTN mmm/
WATS mmm/
SER mmm/
TTC mmm/
EL mmm/
GST mmm/
TRC mmm/
ESM mmm/
ESC mmm/
ESX mmm/
ESL mmm/
CSL1 mmm/
ESF mmm/
CSL2 mmm/
DP mmm/
DPM mmm/
DPU mmm/
DPCN mmm/
SPN mmm/
RTI mmm/
BSY mmm/
SS mmm/
SOB mmm/
BLN mmm/
HLN mmm/
MR mmm/
RTN mmm/
CLS mmm/
TTYC mmm/
PORT mmm/
AUTO mmm/
TO mmm/
PRIOR mmm/
NDB mmm/
ETYP mmm/
TER mmm/
NIGHT mmm/
TONE mmm/
RAML mmm/
PLIT mmm/
PTY mmm/
HML mmm/
RMB mmm/
ROH mmm/

(CONTINUED)

END!

2. EXPLANATION OF MESSAGE

This message will cause a search of all the originating and terminating telephone number translations or a specified range, for an office and provide a printout, and a summary count of the lines with a specific feature or combination of features (See example usages in section 4). The user can specify what to count by key word values. The message will handle all relevant key words that are the same as those used by other line - type recent change messages (RC:LINE, RC:MTL, RC:TWOPTY, RC:MPTY). All input keywords are divided into 2 groups based on the value for each keyword. The allowable values are:

mmmm

MH - To be counted, the line Must Have the feature indicated.

MNH - To be counted, the line Must Not Have the feature indicated.

IHA - The line will be counted If it Has Any (at least one) of the indicated features.

All keywords are divided into 2 groups based on the above values.

Group 1 = consists of all keywords with the value 'MH' or 'MNH'.

Group 2 = consists of all keywords with the value 'IHA'.

Group 1 requirements are met (group 1 is true) if the line satisfies all of the MH and MNH statements. Group 2 is true if the line satisfies a least one of the IHA statements. The final count or no count decision for each line is then determined by the following:

(CONTINUED)

Case 1: only Group 1 exists > count line if Group 1 is true.
 Case 2: only Group 2 exists > count line if Group 2 is true.
 Case 3: both Group 1 and Group 2 exist. > Group 1 and 2 are combined as follows, based on the value of the keyword OP. OP may be set to either AND or OR (default is OR).

CONDITION		ACTION	
<u>Group 1</u>	<u>Group 2</u>	<u>OP=AND</u>	<u>OP=OR</u>
false	false	don't count	don't count
false	true	don't count	do count
true	false	don't count	do count
true	true	do count	do count

Stated mathematically, for Case 3 a line will be counted if the following statement is true.

"count or don't count" = (GROUP1) OP (GROUP2)

or more exactly

(MH1&MH2&...&MHN&MNH1&MNH2&...&MNHn)OP(IHA1|IHA2|...|IHAn)

Where "&" = "and", "|" = "inclusive or"

An option exists to print each telephone number that matches the input conditions as it is found (see LIST keyword), in addition to printing the count.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be 'END!' or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

(CONTINUED)

(also see IM for RC:LINE, RC:MTL,RC:MPTY and RC:TWOPTY).

LIST ttt

List all matching telephone numbers:

LIST may be used to cause a list of all matching telephone numbers to print as they are found in addition to the printout of the count. ttt = ON or OFF; default is OFF.

CAUTION: LIST ON may generate a long list, depending on the input conditions. It may be more appropriate to use OP:OFR.

OP ooo

Keyword group interpretation function:

As explained in detail above OP may be set equal to "OR" or "AND" (default is OR). This keyword is used to determine how to interpret the other keywords after they are divided into two groups for use. Evaluating each line for counting Group 1 is all the keywords set to MH and MNH. Group 2 is all the keywords set to IHA (see Case 3 above).

TN

Telephone Number range:

This keyword is designed to specify a range of telephone numbers to scan. Default is every telephone number in the office. 1 to 7 digits can be consecutively input and are interpreted from left to right to determine range. Examples:

TN 555 11/	555 1100 --->	555 1199
TN 555 1/	555 1000 --->	555 1999

BTN mmm

Bill to Number:

Matches all lines which have a bill to number different than the telephone number.

WATS mmm

WATS Billing Number:

Matches all lines which have a WATS billing number.

SER mmm

Series completion directory number:

(CONTINUED)

Matches all lines which have a series completion number.

TTC mmmm

Touch-Tone calling:

Matches all lines which have touch-tone calling.

EL mmmm

Essential line:

Matches all essential lines.

GST mmmm

Ground start:

Matches all ground start lines.

TRC mmmm

Trace:

Matches all lines which are being traced.

ESM mmmm

Call forwarding:

Matches all lines which have call forwarding.

ESC mmmm

Three-way calling:

Matches all lines which have three way calling service.

ESX mmmm

Call Waiting service:

Matches all lines which have call waiting service.

ESL mmmm

Speed call 1 digit service:

Matches all lines which have speed call 1 digit service.

CSL1 mmmm

Change 1 digit Speed call service:

Match all lines which can change their 1 digit speed call list.

ESF mmmm

Speed Call 2 digit service:

(CONTINUED)

Matches any telephone number that has a TTY port number associated with it. Used only on autoconnect lines.

AUTO mmm

Automatic Dialup Option:

Matches any telephone number that has automatic dialup option to the RTN. Used only on autoconnect lines.

TO mmm

Time Out:

Matches any telephone number that has any time out at all. Used only on autoconnect lines.

PRIOR mmm

Priority:

Matches any telephone number that has any non-zero priority. To be used only on autoconnect lines (not currently used).

NDB mmm

No Dial-Back:

Matches any telephone number that has no dial back. Used only on autoconnect lines.

ETYP mmm

Function:

Matches any telephone number that has an ETYP associated with it. Used only on autoconnect lines.

TER mmm

Member number in a MLHG or LTD trunk group. Matches any telephone number that has a member number in a LTD trunk group associated with it. Also matches any PBX / MLHG lines which have terminal numbers.

NIGHT mmm

Night Desk:

Matches any telephone number that specifies that the night Local Test Desk is to be called.

STONE mmm

Carrier Tone:

(CONTINUED)

Matches any telephone number that has carrier tone associated with it. This is an autoconnect feature.

RAML mmm

ROTL can remove trunks beyond service circuit limit:

Matches any telephone number which says ROTL can remove trunks beyond service circuit limit.

PLIT mmm

Prohibit Line installation test:

Matches any telephone number which has the Prohibit Line Installation Test feature.

PTY mmm

Party number:

Matches any telephone number which is a party number 1-8.

HML mmm

PBX/MLHG number:

Matches any telephone number that has a PBX/MLHG number associated with it.

RMB mmm

Random make busy key number:

Matches any telephone number that has a random make busy key associated with it (PBX/MLHG lines only).

ROH mmm

Receiver Off Hook tone inhibit:

Matches any telephone number that has a Inhibit Receiver Off Hook tone associated with it.

END

End of message:

No more segments will be accepted for this message. "END" must be followed by the standard execute character "!". The message will now be executed. The end can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by a (/).

(CONTINUED)

3. SYSTEM RESPONSES

RL = The message should be Repeated Later.
IP = The program is active and a print out will follow
after a time delay.

4. EXAMPLE USAGES

Problem - count all lines which have call forwarding
and not touch-tone.

OP:FEA/
ESM MH/
TTC MNH/
END!

Problem - count all lines which have 1 digit speed call
or 2 digit speed call.

OP:FEA/
ESL IHA/
ESF IHA/
END!

Problem - count all lines which do not have touch-tone
but have custom calling.

OP:FEA/
OP AND/
TTC MNH/
ESM IHA/
ESC IHA/
ESX IHA/
ESL IHA/
ESF IHA!

Problem - count and list all lines in the range 555 2000 -
555 2999 which meet either or both of the following

(CONTINUED)

OP:FEA

(CONTINUED)

OP:FEA

conditions:

1. Line is an essential line and has trace active.
2. Line has service observing active.

OP:FEA/
LIST ON/
TN 555 2/
EL MH/
TRC MH/
SOB IHA!

5. REFERENCES

PROGRAM REFERENCE: PR-3H209 OPFEA

CHL=ALL

OP:FLTS

OP:FLTS

1. INPUT MESSAGE FORMAT

OP:FLTS:STAT!

2. EXPLANATION OF MESSAGE

OutPut the STATus of any known scan matrix row (SM ROW) faults, scan matrix column (SM COL) faults, or peripheral decoder (PD) faults present in the system.

3. SYSTEM RESPONSES

'PF' will be printed followed by a list of the known faults. if no faults are present a 'NO SM/PD FLTS' message will be printed.

4. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

OP:HASH:GENERIC adr bgn!
OP:HASH:TRNSLN adr bgn!

2. EXPLANATION OF MESSAGE

Output (OP) the hashsum (HASH) for resident generic (GENERIC) or translations (TRNSLN). This input request will calculate the requested hashsum(s) from the data residing in the off-line main store. If the final address (adr) is not specified, all hashsums for the GENERIC (or TRNSLN) will be calculated through the last defined word. If the final address is specified, the hashsum will be computed for this address only.

If the beginning address (bgn) is specified, this address will override the normal beginning for the first calculation. In this case, no range check is made on the address parameters. (The beginning address option is intended only for generic restart procedures. Unless specifically requested, this option should not be used.)

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

adr = The address of the requested hashsum (optional).
bgn = The starting address for the first hashsum (optional).

GENERIC = Calculate hashsums over the resident generic data.
TRNSLN = Calculate hashsums over the resident transition data.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= The overwrite program is not currently active.
= The message did not specify GENERIC or TRNSLN.

(CONTINUED)

OP:HASH

(CONTINUED)

OP:HASH

= Beginning address (bgn) or last address (adr) illegal.

RL = The message should be Repeated Later.

= A prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed
by one or more of the following messages:

OP HASH adr hashsum

OP HASH COMPL

OP HASH STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT-08,02 CHL-MTC

1. INPUT MESSAGE FORMAT

OP:HASHNR:BOOT!
OP:HASHNR:SEG segb
OP:HASHNR:SEG segb segf

2. EXPLANATION OF MESSAGE

Output (OP) the nonresident hashsum (HASHNR) of one or more segments (SEG) of the nonresident program file or the bootstrap (BOOT) files. This input request will calculate hashsums from the data contained on the preferred tape cartridge.

For the SEG option, one hashsum is given for each requested segment. If no segments are specified, hashsums corresponding to the last segment of logical 32-segment groups are calculated for each defined group. If only one segment number (segb) is inputted, only the hashsum for this segment is given. If beginning (segb) and final segments (segf) are specified, hashsums corresponding to this range of segments will be outputted.

For the BOOT option, a single hashsum for each bootstrap file will be calculated.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

BOOT = Calculate the hashsum over the tape cartridge bootstrap files (BOOTSTP and BOOT2).
SEG = Calculate hashsums for one or more segments in the nonresident program file (PAGEMON).
segb = The segment number for the first (or only) hashsum (optional).
segf = The segment number for the last hashsum to obtain a range of desired hashsums (optional).

(CONTINUED)

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= The overwrite program is not currently active.
= The message did not specify SEG or BOOT.
= A segment number equal to 0 was specified.
= Final segment no. is less than beginning segment no.
= A final segment no. greater than the default value was specified with a beginning segment no. greater than 1.

RL = The message should be Repeated Later.
= A prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

OP HASHNR ident hashsum

OP HASHNR COMPL

OP HASHNR STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT=09,02 CHL=MTC

OP:LINE

OP:LINE

1. INPUT MESSAGE FORMAT

OP:LINE(a,bcde):STAT!

OP:LINE:STAT!

OP:LINE a:STAT f!

2. EXPLANATION OF MESSAGE

OutPut LINE STATE information. The request may ask for the state of a single line or a list of all lines in an out-of-service state (out-of-service, plugged-up, or high and wet). The list may also be restricted to lines in a specific concentrator group and/or lines in a specific out-of-service state.

3. EXPLANATION OF VARIABLE FIELD

a bcde is the TERMINAL EQUIPMENT NUMBER of the line

a - concentrator group (1-15)

b - concentrator (0-1)

c - switch group (0-2)

d - switch (0-7)

e - level (0-7)

blank ==> list ALL LINES in an out-of-service state

a only ==> list only lines in concentrator group a

f is the STATE requested

blank - list lines in all out-of-service states (out-of-service, plugged-up, or high and wet).

OOS - restrict list to out-of-service or plugged-up lines.

PLUGUP - restrict list to plugged-up lines.

HAW - restrict list to high and wet lines.

(CONTINUED)

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow identifying the current state of the LINE.

IP

The request was accepted and is in progress. A printout of the state information will follow.

RL

The multiscan function request was denied. Repeat the request later.

?I

The LINE identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

PR-3H319 TSVNR

Trunk, Line & Service Circuit Nonresident Routines

CHL=ALL

OP:MATCH

OP:MATCH

1. INPUT MESSAGE FORMAT

OP:MATCH/

LIST ttt/

TN nxx xxxx/

BTN nxx xxxx/
WATS nxx xxxx/
LCC ttt/
OMAJ NN/
TMAJ NN/
SCR NN/
RAX n/
SER nxx xxxx/
CFN number/
ESL iiii/
ESF iiii/
ESM iiii/
DP p ddd t/
DPM p ddd t/
DPU p ddd t/
DPCN p ddd t/
SPN ss rr pp/
RTI nnn/
HLN number/
MR nnnn/
RTN nxx xxxx/
CLS n/
TTYC n/
PORT n/
TO nnn/
PRIOR nn/
ETYP n/
TER n/
TONE n/
HML gg/
PTY n/
END!

2. EXPLANATION OF MESSAGE

This message will cause a search through all the originating and terminating telephone number translations in the office or a specified range, and provide a print out and summary count, of all telephone numbers that contain specific data in their

(CONTINUED)

definition. For example, all lines with "BTN 555 1234" could be listed and counted (see example usage section 4). The user can specify what data to match by key word values. The message will handle all relevant key words that are the same as those used by other messages to recent change any line or MLHG member on NO. 3 ESS. Only those recent change key words which have numeric variable input fields are deemed relevant. See input message OP:FEA for those keywords that don't have data. If more than one key word with data is typed, an "AND" function is done and a telephone number's translation must contain all pieces of data for a match to occur.

An option exists that will turn off the printing of all telephone numbers that match (see LIST key word).

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be 'END!' or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

(also see IM for RC:LINE, RC:MTL, RC:MPTY and RC:TWOPTY).

LIST ttt

List all matching telephone numbers:

LIST may be used to stop the listing of all matching telephone numbers that prints as each is match occurs. For this purpose ttt may be either ON or OFF; default is ON. Caution: LIST may generate an extremely long list, depending on the input conditions. It may be more appropriate to use OP:OFR.

TN nxx xxxx

Telephone Number range:

This keyword is designed to specify a range of telephone numbers to scan. Default is every telephone number in the office. 1 to 7 digits can be consecutively input and are interpreted from left to right to determine range.

(CONTINUED)

Examples:

	Input		range
	TN 555 11/	555 1100	----> 555 1199
	TN 555 1/	555 1000	----> 555 1999

BTN nxx xxxx

Bill to Number:

Print all lines with the given billing number. (See TN key word discription for an explanation of how a range on the BTN keyword can be specified)

WATS nxx xxxx

WATS Billing Number:

Print all lines with the given outward WATS billing number. (See TN key word discription for an explanation of how a range on the WATS keyword can be specified)

LCC ttt

Line Class Code:

Print all lines with the given Line Class Code. The LCC is made originating major class, terminating major class, and screening class. Key word RAX is used with LCC to determine the classes.

OMAJ nn

Originating Major Class:

Print all lines with the specified Originating Major Class. Range (0 through 31).

TMAJ nn

Terminating Major Class:

Print all lines with the specified Terminating Major Class. Range (0 through 31).

SCR nn

Screening Class:

Print all lines with the specified Screening Class. Range (0 through 30).

RAX n

Rate Area Data:

This keyword is used with keyword LCC to determine the classes of service.

(CONTINUED)

SER nxx xxxx

Series completion directory number:

Print all lines with the given series completion directory number. (See TN key word discription for an explanation of how a range on the SER keyword can be specified)

CFN number

Call Forward to Number:

Print all telephone numbers that are forwarded to the specified number.

1 npa nxx xxxx
npa nxx xxxx
1 nxx xxxx
nxx xxxx

A range can be specified for CFN the same as for TN except up to eleven digits can be input.

ESL iiii

1 Digit Speed Call index:

Print all lines with the specified 1 digit speed call index. Range 0 - 2047.

ESF iiii

2 Digit Speed Call index:

Print all lines with the specified 2 digit speed call index. Range 0 - 2047.

ESM iiii

Call Forwarding Variable index:

Print all lines with the specified call forwarding variable index. Range 0 - 4095.

DP p ddd t

Distributor Triplet:

Used to provide a "sleeve lead" function.

p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

DPM p ddd t

Distributor Triplet for message registers:

p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

(CONTINUED)

DPU p ddd t

Distributor triplet for Noise Immunity Line circuit:

p = peripheral pulse distributor (0 through 1)

ddd = peripheral decoder (000 through 255)

t = triplet (0 through 3)

DPCN p ddd t

Distributor triplet for Coin Line circuit:

p = peripheral pulse distributor (0 through 1)

ddd = peripheral decoder (000 through 255)

t = triplet (0 through 3)

SPN ss rr pp

Scan Point Number:

Matches all lines which have associated key Scan Points. Includes SPN's associated with 1A concentrator lines, group alerting lines, subscriber loop multiplexer lines, and lines with with Remote Make Busy keys. Excludes SPN's associated with PBX RMB's, PBX night stop, and PBX stop hunt. The numbers 'ss rr pp' are broken down as follows:

ss = scanner number (00 through 15)

rr = row number (00 through 31)

pp = point in row (00 through 15)

RTI nnn

Route Index:

Print all lines with the given route. nnn = a 3-digit variable field.

HLN number

Hot Line Number:

Print all lines with the given hot line number (only found on manual lines). number = Hot line number having one of the following forms:

1 npa nxx xxxx

npa nxx xxxx

1 nxx xxxx

nxx xxxx

A range can be specified for HLN the same as for TN except up to eleven digits can be input.

MR nnnn

Software Message Register:

Print all lines with the given software message register. nnnn = a 4-digit message register index (max. 4095)

(CONTINUED)

RTN npa nxx xxxx

Return Telephone Number:

Print all lines with the given telephone number that will be automatically called by NO. 3 ESS to establish a connection to the associated channel.

CLS n

TTY Message Class:

Print all lines with the given TTY Message Class. n = a number from 0 to 7

- n = 0 Maintenance
- n = 1 Backup Maintenance
- n = 2 Service Orders
- n = 3 Traffic
- n = 4 Repair Service Bureau
- n = 5 Office Records
- n = 6 AMA Primary
- n = 7 AMA Backup

TTYC n

TTY Controller Number :

Print all lines with the given TTY Controller Number. n = a number from 0 to 7 specifying the TTY controller for the associated message class.

PORT n

TTY Port Number:

Print all lines with the given TTY Port Number. n = a number from 0 to 3 specifying the TTY port number for the associated message class.

TO nnn

Time Out:

Print all line with the given Time Out value. nnn = Number of seconds that the associated TTY channel can remain idle waiting for input before automatic disconnect.

PRIOR nn

TTY Priority:

Print all lines with the given TTY Priority. nn = 0 through 15 (lowest priority is 0, highest priority is 15)

(CONTINUED)

ETYP n

Function performed by the user of Auto Connect:

Function performed by the user of Auto Connect. n = a number form 0 to 7

- 0 = TTY
- 1 = Reserved
- 2 = Reserved
- 3 = SPARE
- 4 = LTD
- 5 = Reserved
- 6 = SPARE
- 7 = SPARE

TER n

Terminal Number:

Print all lines with the given Terminal number. Member number of a LTD trunk group if HML is not typed. If HML is typed, this is a multi-line hunt group terminal number.

STONE n

Carrier Tone on the associated data set:

- n = 0 high tone- (normal auto-connect TTY or LTD).
- = 1 2225 Hz tone - (time 10 seconds)

HML gg

Multi-line hunt group number:

Print all lines with the given MLHG number (00-63).

PTY n

Party Number:

Print all lines with a given party number (1-8).

END

End of message:

No more segments will be accepted for this message. "END" must be followed by the standard execute character "!". The message will now be executed. The end can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by a (/).

3. SYSTEM RESPONSES

(CONTINUED)

OP:MATCH

(CONTINUED)

OP:MATCH

RL = The message should be repeated later.

IP = The program is active and a print out will follow after a time delay.

4. EXAMPLE USAGES

Problem - list all lines which have line class code CN2 in the range 555 2000 to 555 2999.

OP:MATCH/
TN 555 2/
LCC CN2/
END!

Problem - list all lines which have bill to number 555 1234.

OP:MATCH/
BTN 555 1234!

5. REFERENCES

PR-3H206 OPMTCH

CHL=ALL

OP:MON

OP:MON

1. INPUT MESSAGE FORMAT

OP:MON!

2. EXPLANATION OF MESSAGE

OutPut the current result of the MONitoring requested.

NOTE: An OutPut MONitor request DOES NOT initiate the Trunk and SERVICE CIRCUIT MAINTENANCE AIDS PROGRAM (TSVMON). IT MAY ONLY BE REQUESTED IF MONITORING IS IN PROGRESS.

3. EXPLANATION OF VARIABLE FIELD

None

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON
Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

OP:MSF

OP:MSF

1. INPUT MESSAGE FORMAT

OP:MSF!

2. EXPLANATION OF MESSAGE

OutPut MultiScan Function status. This message outputs the currently active MSF (or the last MSF executed if none are in progress) in addition to the currently requested and aborting MSFs.

3. SYSTEM RESPONSES

PF = A Printout will Follow.

4. REFERENCES

PR-3H251 MCSUB Maintenance Subroutines

CHL=ALL

OP:NW

OP:NW

1. INPUT MESSAGE FORMAT

OP:NW;STAT!

2. EXPLANATION OF MESSAGE

OutPut NetWork STATE information. A list of network links that are currently out-of-service is generated. This includes junctor B-links, wire B-links, and A-links as well as test vertical test circuits, test vertical test multiples, junctor test verticals, and wire test verticals.

3. EXPLANATION OF VARIABLE FIELD

none

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress. A printout of the state information will follow.

RL

The multiscan function request was denied. Repeat the request later.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

PR-3H319 TSVNR

Trunk, Line & Service Circuit Nonresident Routines

CHL=ALL

OP:NW

OP:NW

1. INPUT MESSAGE FORMAT

OP:NW;COUNT!
OP:NW s;COUNT!

2. EXPLANATION OF MESSAGE

Request the results of the CURRENT Grid Error Counting to be printed.

3. EXPLANATION OF VARIABLE FIELD

s is the side (0 or 1) of the Control Complex to be printed.

If not specified, both sides will be printed.

4. SYSTEM RESPONSES

PF

Request accepted, printout follows.

NG

Request NOT accepted, because the Grid Error Count function is not active or it is not allowed.

?D

The specified side is invalid.

RL

The results are currently being printed.

5. REFERENCES

(CONTINUED)

OP:NW

(CONTINUED)

OP:NW

PR-3H218 - GDCNT - Grid Error Count program
PK-3H301 - Network Trouble-Shooting Manual
BSP-233-153-145 - Remreed Network Fault Isolation Utilities

CHL-MTC

OP:NW

OP:NW

1. INPUT MESSAGE FORMAT

OP:NW;ANAL!

2. EXPLANATION OF MESSAGE

Request the results of the most recent Network Pattern Analysis to be printed.

3. SYSTEM RESPONSES

PF - Request accepted, printout follows.

NG - Request not accepted because no results exist.

4. REFERENCES

PR-3H219 - NWCEA - Network Pattern Analysis

PK-3H301 - Network Trouble-Shooting Manual

BSP-233-153-145 - Remreed Network Fault Isolation Utilities

CHL-MTC

OP:OA

OP:OA

1. INPUT MESSAGE FORMAT

OP:OA:STAT!

2. EXPLANATION OF MESSAGE

OutPut the Overload Announcment unit STATus.

3. SYSTEM RESPONSES

'PF' will be printed followed by the OA status.

4. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

OP:OFR/

→ FORM aaaaaa OR ALL
HDR YES or ~~NO~~
NUM bbbb/
DELAY YES OR ~~NO~~
EXTRA YES OR ~~NO~~
TN nxx abcd OR all/
OE ggcwsi OR ALL/
GRP nnn OR ALL/
TER nnn OR ALL/
CHI nn OR ALL/
TBL nn OR ALL/
ODIG n OR ALL/
TOTANI nn OR ALL/
SCR nn OR ALL/
SCRTBL nn OR ALL/
DIG nnn OR ALL/
FAT n/
RTI nnn OR ALL/
CDI nnn OR ALL/
LCI nnn OR ALL/
LCC nnn/
CAC nnn OR ALL/
TTYC nn OR ALL/
TNR nxx xxxx/
PORT n OR ALL/
THDIG ntxt OR ALL/
HDIG n/
SP ssrrpp OR ALL/
CODE nxx OR ALL/
RMK ooooooooooooo OR OUT/
END!

2. EXPLANATION OF MESSAGE

This message and its associated keywords are used to (1) request a printout of OFFICE RECORDS (2) add a remark to be associated with a telephone number. Each appropriate keyword and its data should be entered along with the continuation character (/), with the last keyword being (END!) or the last keyword and data followed by the execution character (!).

(CONTINUED)

The following are some of the allowed formats for office records messages.

- 1) To print all of a form using the form number.

```
OP:OFR/  
FORM nnnn!
```

- 2) To print all of a form using the keyword where the form is default based on the keyword (see Table B).

```
OP:OFR/  
CHI ALL/ (defaulted form 3302)  
END!
```

- 3) To print one page of the 3100 form during the nightly routines.

```
OP:OFR/  
TN NXX ABCD/  
NUM 20/  
DELAY YES/  
EXTRA NO/  
END!
```

Note - Using EXTRA NO here causes just the 3100 form to print. If EXTRA YES (default value) was specified the related forms to the 3100 form would also print for the specified page. (see Table B for related forms).

- 4) To print a one line verify for an OE on form 3171.

```
OP:OFR OE ggcwsil
```

- 5) Print all forms starting at form 3201 and group 130 rather than at the first form (3100).

```
OP:OFR/  
START 3201/  
GRP 130!
```

(CONTINUED)

FORM aaaaaa OR ALL

This keyword is used to specify the office record FORM number. Where aaaaaa is any form number from TABLE A. If 'ALL' is specified then each form is printed in its entirety and in the order shown in TABLE A, except for form 3890 and 3891. See START keyword for starting FORM ALL option at a specific form. If this keyword is not specified the default is assigned base on the keywords received as shown TABLE B by (&). Every form can be printed in its entirety by just specifying the form number. Forms 3400, 3500-1, and 3500-2 can only be printed by specifying the form number.

TABLE A (available forms)

3100	==>	Directory number
3107-1	==>	Supplementary information
3107-2	==>	Supplementary Information
3105	==>	Multi-line hunt
3171	==>	Office equipment number
3201	==>	Trunk assignment
3202-1	==>	Trunk group / service circuits
3202-3	==>	Trunk group / trunks
3204	==>	Trunk feature
3209	==>	One digit translations
3300	==>	3 & 6 digit translations
3301	==>	Rate & Route
3302	==>	Charge Table
3303-1	==>	Route index / NOC
3303-2	==>	Route index
3304	==>	Code index
3306	==>	Line class code
3307	==>	IDDD
3400	==>	Traffic work table
3500-1	==>	General information 'capacity or option'
3500-2	==>	General information 'tty/misc.'
3500-3	==>	General information 'tty assignment'
3501	==>	Office code table
3505	==>	TOTANI
3506	==>	Alarm monitor data
3576	==>	Universal scan points
3890	==>	List unassigned tn's
3891	==>	Main Station Counts

(CONTINUED)

TABLE B (keyword/form relationship)

FORM OR START	D E L A Y	E X H D R A M	T N U M P R E	G T R E O H B I N C T D A S T D F R C L L C T O D D C C T G	O T H B I N C B I A T D C C A Y R I I S D N	T S C R D F A T I I C C T G	T P H H C O T D N P E R
3100	*	*	R	*	&		
3107-1	*	*	r	*	*		
3107-2	*	*	r	*	*		
3105	*	*	*	*	*		
3171	*	*	*	*	&		
3201	*	*	*	*	*		
3202-1	*	*	*	*	*		
3202-3	*	*	R	*	*		
3204	*	*	r	*	K		
3209	*	*	*	*	& &		
3300	*	*	*	*	& &		
3301	*	*	*	*	& &		
3302	*	*	*	*	&		
3303-1	*	*	*	*		K	
3303-2	*	*	*	*		&	
3304	*	*	*	*		&	
3306	*	*	*	*		& &	
3307	*	*	*	*		&	
3400	*						
3500-1	*						
3500-2	*						
3500-3	*	*	*	*		& &	
3501	*	*	*	*		&	
3505	*	*	*	*	&		
3506	*	*	*	*			*
3576	*	*	*	*			*
3890	*	*	*	*			&
3891	*	*					&

* - This keyword is allowed on this form. See description of

(CONTINUED)

the keyword for details.

- & - This keyword is allowed on this form and the indicated form is also the default value for FORM keyword.
- K - This keyword is allowed on this form. The indicated form is not the default value for the FORM keyword. Hence, this keyword and the FORM keyword must be explicitly specified.
- R - This keyword is allowed on this form and it is related to the form(s) immediately following. (identified by an 'r') See description of the keyword for other details.
- r - This keyword is not allowed on this form but is related to the preceding form identified by an R in the table. The form(s) identified with an 'r' will automatically be printed when its related form (identified by an R) is printed providing EXTRA YES option is used. For example: specifying OP:OFR TN 231 1100! (default to EXTRA YES) always causes the 3100-R form to print. In addition the related forms (3107-1R and 3107-2R) will also print if they contain data.

(CONTINUED)

START aaaaaa

Specifying START aaaaaa is equivalent to specifying 'FORM ALL' but starts printing at the beginning of form aaaaaa (where aaaaaa is the form number, see TABLE A for allowed forms) instead of form 3100. To start in the middle of form aaaaaa, specify the appropriate keywords associated with form aaaaaa (see TABLE B). NOTE keywords HDR, EXTRA, and NUM are overridden by this keyword and doesn't affect the output. FORM keyword and START keyword not allowed on the same message.

HDR YES OR NO

This keyword is used to specify if the HEADER associated with this form should be printed. YES print it, NO do not print it. If the number of items to print (NUM) is greater than or equal to 20 the header is always printed. Less than 20 a default of 'NO' is assigned unless specified otherwise.

NUM bbbb

Used to specify the number of consecutive items that will be printed out. This keyword ignored if 'ALL' is used to print an entire form. (default = 1)

DELAY YES or NO

This keyword is used to specify if this office records request is to be printed immediately (NO) or be delayed to the office records time in the nightly routines (YES). To schedule which days delayed office record print see SCHED:OFR input message. Up to 20 delayed message can be saved at one time and those that don't get printed the first scheduled time will be printed the next scheduled time. (default is NO). All delayed messages will be

(CONTINUED)

printed on the same channel from which they were requested.

EXTRA YES or NO

This keyword is used to specify if the forms related to the specified form are to be printed (YES) or just the specified form (NO). See TABLE B for forms which allow the EXTRA keyword and the other forms that will automatically print by using this option. Default is YES.

TN nxx abcd OR ALL

This keyword is used to specify the telephone number which is used (1) to print office record forms 3100, 3107-1, and 3107-2 or (2) to add remarks (see RMK keyword).

If a remark is to be added only the TN and RMK keywords are needed. If an office record is to be printed consider the following.

If 'ALL' is specified then the information for every telephone number is printed. If 'ALL' is not specified the telephone numbers are listed in order up to the number of TNs specified by the NUM keyword or up to a thousands group boundary (which ever occurs first). Unassigned hundreds groups are skipped.

OE ggcwsi OR ALL

This keyword is used to specify the terminal equipment number which is used by the office record 3171 form.

gg = concentrator group (1-15)
c = concentrator (0-1)
w = switch group (0-2)
s = switch (0-7)
i = input level (0-7)

(CONTINUED)

The number of terminal equipment numbers listed in order is specified by the (NUM) keyword. If 'ALL' is specified then the information for all terminal equipment numbers is printed.

CDI nnn OR ALL

Used to specify the CODE INDEX for form 3304. Where nnn is in the range 0 through whatever the maximum code index is for the office (maximum is 255).

TBL nn OR ALL

Used to specify the ONE DIGIT TABLE NUMBER for form 3209. Where nn is in the range 0 through whatever the maximum one digit table number is for the office (maximum is 63).

ODIG n OR ALL

Used to specify the ONE DIGIT NUMBER for form 3209. Where n is in the range 0 through 9. If 'ALL' is specified the information for every ONE DIGIT NUMBER is printed for the specified table (see TBL keyword).

TOTANI nn OR ALL

Used to specify the TERMINAL OFFICE TEST ACCESS NUMBER INDEX for form 3505. Where nn is in the range 1 through 63 and index 0 is used to print the Trunk Maintenance Billing Number. If 'ALL' is specified the information for every TOTANI is printed.

TNR nxx xxxx

This keyword is designed to specify a range of telephone numbers to scan. Default is every telephone number in the office. 1 to 7 digits can be consecutively input and are interpreted from left to right to determine range. If this keyword is used to print the 3891 form, no counts involving OE's are made.

(CONTINUED)

Examples:

TNR 555 11 ==> 555 1100 - 555 1199
TNR 555 1 ==> 555 1000 - 555 1999

SCR nn OR ALL

Used to specify the SCREENING CLASS for form 3301. Where nn is in the range 0 through whatever the maximum screening class is for the office (maximum is 62). If 'ALL' is specified the information for every screening class is printed in increasing screening class order. If 'ALL' is specified and the a screening table (see SCRTBL) the information for every screening class in the specified screening table is printed.

SCRTBL nn OR ALL

Used to specify the SCREENING TABLE for form 3301. Where nn is in the range 0 through whatever the maximum screening table is for the office (maximum is 63). If 'ALL' is specified the information for every screening table is printed in increasing screening table order. If 'ALL' is specified and the screening class (see SCR) the information for every screening table in the specified screening class is printed.

DIG nnn OR ALL

Used to specify the 3 digit code (NXX or NPA) for form 3300. Where nnn is in the range 110 through 119 or 200 through 999 for NXX and nnn is in the range 200 through 999 for NPA. If 'ALL' is specified the information for every 3 digit code is printed.

FAT n

Used to specify the local or foreign area translator number (FAT) for form 3300. Where n is in the range 0 through 3.

RTI nnn OR ALL

(CONTINUED)

Used to specify the ROUTE INDEX for forms 3303-1 and 3303-2. Where nnn is in the range 0 through 7 for form 3303-1 and range 8 through whatever the maximum route index is for the office (maximum is 255). If 'ALL' is specified the information for every route index on the specified form (see FORM) is printed. (default FORM is 3303-2)

LCI nnn OR ALL

Used to specify the LINE CLASS CODE INDEX for form 3306. Where nnn is in the range 0 through whatever the maximum line class code index is for the office (maximum in 255). If 'ALL' is specified the information for every line class code index is printed. The LCC keyword is not allowed when using the LCI keyword.

LCC nnn

Used to specify the LINE CLASS CODE for form 3306. Where nnn is the 3 character line class code. The information for each occurrence of the specified line class code is printed. The LCI keyword is not allowed when using LCC keyword.

CAC nnn OR ALL

Used to specify the COUNTRY ACCESS CODE for form 3307. Where nnn is in the range 0 through 999. If 'ALL' is specified the information for every country access code is printed.

TTYC nn OR ALL

Used to specify the TTY CONTROLLER NUMBER for form 3500-3. Where nn is in the range 0 through 7. If 'ALL' is specified the information for every tty controller number and port number is printed.

PORT n OR ALL

(CONTINUED)

Used to specify the PORT NUMBER for form 3500-3. Where n is in the range 0 through 3. If 'ALL' is specified the information for every port of the specified tty controller number (see TTYC) is printed.

THDIG ntxt OR ALL

Used to specify the OFFICE CODE AND THOUSANDS DIGIT for form 3501. Where 'nxx' is three digit office code in the range 200 through 999 and 't' is the thousands digit in the range 0 through 9. If 'ALL' is specified the information for every hundreds group is printed.

HDIG n

Used to specify the HUNDREDS DIGIT for form 3501. Where n is in the range 0 through 9. To use this keyword the THDIG keyword must be specified.

SP ssrrpp OR ALL

Used to specify the SCAN POINT NUMBER for forms 3506 and 3576. Where ss is the scanner, rr is the row, pp is the point. The 'SP' must be a miscellaneous scan point for form 3506 (range 00 16 00 - 00 27 15). The 'SP' must be a universal scan point for form 3576 (range is scanner 0, row 0-15 or 28-31 or scanner 1-15, row 28-31). If 'ALL' is specified the information for every scan point is printed for the specified form. If the FORM keyword is not specified along with the SP keyword, the FORM keyword is defaulted as follows.

00 00 00 - 00 15 15 => form 3576
00 16 00 - 00 27 15 => form 3506
(00-15) 28 00 - (00-15) 31 15 => form 3576
All => form 3576

CODE NXX OR ALL

Used to specify the OFFICE CODE for form 3890. Where NXX is in the range 200 through 999. If 'ALL' is specified the information for every telephone number is printed.

(CONTINUED)

CHI nn OR ALL

Used to specify the CHARGE INDEX for form 3302. Where nn is in the range 1 through 31. If 'ALL' is specified the information for every charge index is printed.

GRP nn OR ALL

Used to specify the GROUP NUMBER for forms 3105, 3201, 3202-1, 3202-3, and 3204. Where nnn is in the range 0 - 255. If the form keyword is not included along with the GRP keyword, the FORM keyword is defaulted as follows:

0-63	With or without 'TER'	=> form=3105
64-127	If 'TER' specified	=> form=3201
	If 'TER' not specified	=> form=3202-1
128-255	If 'TER' specified	=> form=3201
	If 'TER' not specified	=> form=3202-3

If 'ALL' is specified the information for groups in the range 64-255 is printed for form 3201.

TER nnn OR ALL

Used to specify the MEMBER NUMBER for forms 3105 and 3201. Where nnn is in the range 0 through whatever the maximum member number is 63 and 126 for form 3105 and 3201 respectively. If 'ALL' is specified the information for every member in the specified group is printed.

(CONTINUED)

RMK ooooooooooooo OR OUT

oooooooooooo = 1 to 13 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3100-R form for the TN specified.

OUT = Remove the current remark (if any) now associated with the TN. If the remark was a 'general' remark the space available for general remarks is increased by one (max 31 per 100's grp).

Two types of remarks can be used with the 3100-R form:

1. General Remark (see NOTES below)

Any remark not exceeding 13 character. A maximum of 31 TN's per 100's group may have a 'general remark'. The TN may be assigned or unassigned.

2. Unassigned Remark (see NOTES below)

Any one of the listed remarks below. An unassigned RMK is intended to be used for unassigned TN's (including 'intercept' with TMAJ=28; and 'special routing' with TMAJ=31).

<u>RMK</u>	<u>Meaning of unassigned RMK</u>
VAC	- vacant
RD	- resident disconnect
BD	- business disconnect
RC	- resident change
BC	- business change
DNA	- do not assign
PLA	- plant assignment
NP	- non published
MAN	- manual
ICP	- intercept
DLL	- dial long lines
PC	- public coin
SPC	- semi-public coin
RSV	- reserve

NOTE- 'unassigned RMKs' do not use up any space allocated to 'general RMKs' if the TN is unassigned.

(CONTINUED)

NOTE- 'unassigned RMKs' are distinguished from 'general RMKs' when printed on the 3100-R form in that 'unassigned RMKs' are indented one space before they are printed.

3. SYSTEM RESPONSES

IP - A Printout In Progress.

OK - Remark was accepted but if followed by an error printout remark was not accepted.

RL - Retry Later. This multiscan function request was defined do to another multiscan function being active.

4. REFERENCES

PR-3H135 OPOFR

CHL=ALL

OP:OW

OP:OW

1. INPUT MESSAGE FORMAT

OP:OW;TTY!
OP:OW;TAPE!

2. EXPLANATION OF MESSAGE

Output (OP) the overwrite (OW). used to copy an overwrite from the overwrite buffer to the tape (TAPE option) or to format and print the contents of the buffer on the TTY (TTY option).

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

TTY = Format and print the contents of the overwrite buffer.
TAPE = Copy the contents of the overwrite buffer to the tape.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.
= request out of sequence - overwrite data is not present in the ow buffer.

RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

OP OW COMPL

OP OW STOPPED

5. REFERENCES

(CONTINUED)

OP:OW

(CONTINUED)

OP:OW

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C237

OP:OWFILE

OP:OWFILE

1. INPUT MESSAGE FORMAT

OP:OWFILE!
OP:OWFILE(mm,dd,yy),trnsln!

2. EXPLANATION OF MESSAGE

Output (OP) the overwrite file (OWFILE). prints a census of the tape overwrite file on the TTY. the census information consists of the system generic (GENID) and issue (ISSID) identifiers, and the overwrite (OW) number, status, and date and hour of input for each overwrite in the OW file. the last line gives the number of physical tape blocks used currently and the total OWFILE length. optionally, a short census can be printed which will list only those overwrites entered after a specified date, and/or only translation overwrites. See TTY output message OP OWFILE for a definition of output fields.

This message destroys the current overwrite buffer contents (since the last IN:OW input message).

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

mm = Month to start printing census.
dd = Day to start printing census.
yy = Year to start printing census.
trnsln = TRNSLN - output only translation overwrites.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.

RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.

(CONTINUED)

OP:OWFILE

(CONTINUED)

OP:OWFILE

PF = A Printout will Follow. This will be followed
by one or more of the following messages:

OP OWFILE aa
GENID xxxxxxxx
ISSID zzzzzzzz
OW nnnnn s mmdd yyhh type
.
.
.
CURR cur LENGTH len
OP OWFILE COMPL
OP OWFILE STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT=2,9 CHL=MTC

OP:POSTMORT

OP:POSTMORT

1. INPUT MESSAGE FORMAT

OP:POSTMORT!

2. EXPLANATION OF MESSAGE

Used to print the data accumulated the last time the system was in the initialization state.

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

PF	The print-out of the data follows.
RL	A common print buffer is currently busy and hence the post-mortem data cannot be printed at this time.

5. REFERENCES

PR-1C952 CINIT - Common Initialization

CHL=MTC

OP:RT

OP:RT

1. INPUT MESSAGE FORMAT

OP:RT:STAT!

2. EXPLANATION OF MESSAGE

Output the STATUS of the Ringing and Tone (RT) plants.

3. SYSTEM RESPONSES

'PF' will be printed followed by the status of both RTs.

4. REFERENCES

PR-3H254-03 PURC - PHERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

OP:SVC(a,b):STAT!
OP:SVC:STAT!

2. EXPLANATION OF MESSAGE

OutPut Service Circuit STATE information. The request may ask for the state of a single service circuit or a list of all service circuits out-of-service (locked-out).

3. EXPLANATION OF VARIABLE FIELD

a is the GROUP NUMBER (64-127) of the service circuit

b is the MEMBER NUMBER (0-127) of the service circuit

blank ==> list ALL SERVICE CIRCUITS out-of-service

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow identifying the current state of the SERVICE CIRCUIT.

IP

The request was accepted and is in progress. A printout of the state information will follow.

RL

The multiscan function request was denied. Repeat the request later.

?I

The SERVICE CIRCUIT identification is in error or the message is constructed incorrectly.

(CONTINUED)

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

PR-3H319 TSVNR

Trunk, Line & Service Circuit Nonresident Routines

CHL=ALL

OP:SYC

OP:SYC

1. INPUT MESSAGE FORMAT

OP:SYC s:STAT!

2. EXPLANATION OF MESSAGE

OutPut the STATus of System Control (SYC). This message will print the status of the SYC requested and its major components (CU, SC, NWC and PPD).

3. EXPLANATION OF VARIABLE FIELD

s - the System Control status that is desired.

4. SYSTEM RESPONSES

"PF" will be printed followed by the SYC's status.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

OP:TAPE a,BLK(b,cccc)!

2. EXPLANATION OF MESSAGE

Output (OP) to tape. Outputs the contents of the input/output buffer to a specified tape block. Cannot be used to write track 1.

The tape utility program must be active (allowed) to use this function. See TTY input message ALW:TAPEUTIL!

3. INPUT FIELDS

a = Tape no. to be written
b = Track no. (1-4)
cccc = Block no. (in decimal)

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the tape utility program is not currently active.
= the track no. is illegal.

RL = The message should be Repeated Later.
= a prior tape utility request is in progress.

IP = The message is In Progress.
this will be followed by one or more of the following messages:

TAPEUTIL COMPL

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL=MTC

OP:TDC

OP:TDC

1. INPUT MESSAGE FORMAT

OP:TDC:STAT!

2. EXPLANATION OF MESSAGE

OutPut the Tape Data Controllers STATUS (tape units 0 and 1).

3. SYSTEM RESPONSES

'PF' will be followed by the status of the tape units.

4. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

OP:TRK

OP:TRK

1. INPUT MESSAGE FORMAT

OP:TRK(a,b):STAT!
OP:TRK:STAT!

2. EXPLANATION OF MESSAGE

OutPut TRunK STATE information. The request may ask for the state of a single trunk or a list of all trunks in an out-of-service state (locked-out, disabled, or high and wet).

3. EXPLANATION OF VARIABLE FIELD

a is the GROUP NUMBER (128-255) of the trunk

b is the MEMBER NUMBER (0-127) of the trunk

blank ==> list ALL TRUNKS in an out-of-service state

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow identifying the current state of the TRUNK.

IP

The request was accepted and is in progress. A printout of the state information will follow.

RL

The multiscan function request was denied. Repeat the request later.

?I

The TRUNK identification is in error or the message is constructed incorrectly.

(CONTINUED)

OP:TRK

(CONTINUED)

OP:TRK

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

PR-3H319 TSVNR

Trunk, Line & Service Circuit Nonresident Routines

CHL=ALL

OP:TTYC

OP:TTYC

1. INPUT MESSAGE FORMAT

OP:TTYC n!

2. EXPLANATION OF MESSAGE

This message requests the status of the TTY controller to be outputted. The message outputted will be the 'REPT STAT TTYC'.

3. EXPLANATION OF VARIABLE FIELD

n - specifies the TTY controller (0-7)

4. SYSTEM RESPONSES

PF - a REPT STAT TTYC message should be printed immediately

NG - an invalid or an undefined controller was requested

5. REFERENCES

PR-3H259-02 TTYMAP - TTY MESSAGE ADMINISTRATION PROGRAM

CHL=MTC,MTR

OP:UNAS

OP:UNAS

1. INPUT MESSAGE FORMAT

OP:UNAS!

2. EXPLANATION OF MESSAGE

```
*****
*   This message has been replaced by:   *
*                                           *
*           OP:OFR FORM 3890!             *
*****
```

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

1. INPUT MESSAGE FORMAT

ORD:CNTRL:tt nn!
ORD:CNTRL:tt!

2. EXPLANATION OF MESSAGE

Used to control how the OMAS, I/O, MCH, and TEST orders will be handled once execution is started on a given set of orders. The only order in this group which is allowed to have a variable field is the LOOP order. this field is used to specify the number of times the code is suppose to be looped through.

3. INPUT FIELDS

tt	Any of the following control orders. STLOP Signify the start of a loop. LOOP Signifies the end of loop. STOP Stops execution of program entered. EXIT Used in conjunction with the TEST orders to exit from a loop. WAIT Cause execution of program to be delayed for one base level loop.
nn	The number of times the loop is supposed to be performed.

4. SYSTEM RESPONSES

OK	The message was accepted and buffered.
RL	The ORDUTIL program has not been allowed yet. No messages will be accepted until the ALW:ORDUTIL message has been entered.
NG	The buffer is full, no more messages will be accepted.
NG	Message is not allowed with the present configuration of buffered orders.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL-MTC

1. INPUT MESSAGE FORMAT

ORD:IOM(chan,schan,dd)!
ORD:ION(chan,schan,dd)!

2. EXPLANATION OF MESSAGE

Used to send either maintenance(IOM), or normal(ION) input/output orders to the off-line maintenance frame or control unit.

3. INPUT FIELDS

chan	Any equipped channel number(dec).
schan	Any equipped subchannel number(dec).
dd	Data to be sent by the I/O order.

4. SYSTEM RESPONSES

OK	The message was accepted and buffered.
RL	The ORDUTIL program has not been allowed yet. No messages will be accepted until the ALW:ORDUTIL message has been entered.
NG	The buffer is full, no more messages will be accepted.
NG	Invalid channel or subchannel number specified.
NG	Orders to on line main store are not accepted.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL=MTC

1. INPUT MESSAGE FORMAT

ORD:MCH:order dd!

2. EXPLANATION OF MESSAGE

Used to send any maintenance channel order to the off-line cc. the order to be sent is specified by the mnemonic for that order.

3. INPUT FIELDS

order	Any of the 23 MCH order mnemonics:
	RTNER MCHTR<--ER; TRANSMIT (BST)
	RTNSS MCHTR<--SS; TRANSMIT (BST)
	RTNMB MCHTR<--MB; TRANSMIT (BST)
	RTNMCHB TRANSMIT
	RTNMMH MCHTR<--MMH; TRANSMIT
	RTNMML MCHTR<--MML; TRANSMIT
	LDMCHB MCHB<--MCHTR
	LDMIRL MCHTR; EXECUTE ONE CYCLE
	CLPT CLEAR PT
	DISA DISABLE A
	DISB DISABLE B
	LDMAR CLEAR STP; MAR<--MCHTR; SET FRZ
	MSTOP SET STP
	MSTART CLEAR FREEZE
	LDMIRH MIRH<--MCHTR
	CLER CLEAR ER
	SWITCH HARDWARE INITIALIZATION (BST)
	CLMSR CLEAR MSR
	CLTTO CLEAR TIMER TIMEOUT REGISTER
	TOGCLK TOGGLE CLOCK INPUT (BST)
	INITCLK INITIALIZE CLOCK (BST)
	STCLK START THE CLOCK (BST)
	SPCLK STOP THE CLOCK (BST)
dd	Data to be used by the MCH order.

4. SYSTEM RESPONSES

OK	Message was accepted and buffered.
NG	Invalid order mnemonic used.

(CONTINUED)

ORD:MCH

(CONTINUED)

ORD:MCH

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL-MTC

1. INPUT MESSAGE FORMAT

ORD:NTST:DATA(dd,mm),TYP(tt,nn)!
ORD:NTST:DATA dd!
ORD:NTST:DATA(dd,mm)!
ORD:NTST:TYP tt!
ORD:NTST:TYP(tt,nn)!
ORD:NTST:DATA(dd,mm),TYP tt!

2. EXPLANATION OF MESSAGE

Used to test for certain types of response data and/or flag types from the previously sent order. Based on this test, either the first or second order following this order will be executed next. If the test conditions were satisfied, the first order following will be executed, otherwise, the second order will be executed.

3. INPUT FIELDS

dd	Data to be tested against the response data.
mm	Mask which allows certain bits of data to be ignored for test purposes. Default value is mm=0.
tt	Data to be tested against the response flags.
nn	Mask which allows certain bits of the response flags to be ignored for test purposes. Default value is nn=0.

4. SYSTEM RESPONSES

OK	The message was accepted and buffered.
RL	The ORDUTIL program has not been allowed yet. No messages will be accepted until the ALW:ORDUTIL message has been entered.
NG	The buffer is full, no more messages will be accepted.
NG	Test order only allowed if previous orders are active.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL-MTC

1. INPUT MESSAGE FORMAT

ORD:NW s,terminal,b-link!
ORD:NW s,terminal,b-link;action-option!
ORD:NW s,b-link1,b-link2!
ORD:NW s,b-link1,b-link2;action-option!

2. EXPLANATION OF MESSAGE

Send a specified Network Order sequence to the offline network controller (NWC). The orders are applied to a specified path in the network fabric. Each terminal/Link of the specified path must be removed from service before the request will be accepted. Each terminal/Link should be restored to its previous state upon completion of the test.

CAUTION: Sending an order sequence in the REPEAT mode can block network orders from call processing for more than 25 percent of each base-level loop. Avoid testing in the REPEAT mode during high traffic periods. Also use the lowest numbered sequence suitable for the test since higher numbered sequences take more time per base-level loop than lower numbered ones.

See the CLR:RPT:STEP or ABT:MSF input messages to cancel the request.

The network order sequences are designed to be non-scrubbing (i.e. a crosspoint is never closed twice in succession without an intervening open). In each order sequence, the one underlined network order is considered the primary order of the sequence. The other orders are necessary to prevent scrubbing. One of 14 order sequences may be selected.

The first 11 order sequences each have a unique primary order corresponding to each of the 11 possible different network orders. In each of these 11 order sequences, the primary order is within the repeatable portion of the order sequence which allows repetitive execution of the primary order. These order sequences may be used to repetitively execute a particular network order or repetitively open or close a particular crosspoint.

(CONTINUED)

The last 3 order sequences have no network orders within the repeatable portion of the order sequence. In either the REPEAT or STEP mode, this allows the specified network path to be held closed for a period of time. These order sequences may be used to set up a tip-ring path and manually check for continuity or a short.

The repeatable portion of each order sequence including the time-break is run repetitively when in either the REPEAT or STEP mode. A failure of a network order other than the primary order will cause the REPEAT or STEP mode to be discontinued. In this case select a simpler (lower numbered) sequence to test the failing order.

3. EXPLANATION OF VARIABLE FIELD

s is the NUMBER OF THE ORDER SEQUENCE to send
(see TABLE 2 below for definitions)

terminal,b-link identifies the PATH (non 3rd stage order)
terminal may be:

- TRK(a,b) - see RMV:TRK input message
- SVC(a,b) - see RMV:SVC input message
- LINE(a,bcde) - see RMV:LINE input message
- TEN(a,bcde) - same as LINE

b-link may be:

- JC(a,b) - see RMV:JC input message
- BLNK(a,b) - see RMV:BLNK input message

Note: To define a path, the concentrator group of the terminal and b-link must be the same.

b-link1,b-link2 identifies the PATH (3rd stage order only)
specify as:

JC(a1,b1),BLNK(a2,b2) or BLNK(a1,b1),JC(a2,b2)
see RMV:JC and RMV:BLNK input messages

Note: To define a path, the junction switch number of b-link1 and b-link2 must be the same.

action-option

UCL - indicates an UNCONDITIONAL mode of execution. in this mode the network orders are sent with the offline network controller in the group check bypass state. Any group check failures are ignored and will not cause orders to fail. This mode may also be run repetitively by specifying UCL,RPT or UCL,STEP.

(CONTINUED)

RPT - indicates a REPEAT mode of execution. The repeatable portion of the specified order sequence including the time-break is run repetitively until cleared by an input message. A message is generated by the first failure; thereafter, a printout is generated only if the result changes. The status is displayed by the PASS/FAIL lamps on the SSP (System Status Panel). The repetition may be stopped by depressing the EXECUTE key on the SSP and may be restarted again by depressing the key again.

STEP - indicates a STEP mode of execution. This mode is the same as the REPEAT mode except, the execution stops after the first run. Thereafter, the repeatable portion of the order sequence is repeated once each time the EXECUTE key on the SSP is depressed.

Note: In the RPT or STEP modes of operation, the exercise will abort itself after generating 50 failure messages.

TABLE 1 -- Network Order Definitions

ORDER SEQUENCE	PRIMARY ORDER	CUTOFF	1ST STAGE	2ND STAGE	TEST VERTICAL	3RD STAGE
1	OCOX	open	open			
2	OXOY		open	open		
3	OZ					open
4	COX	close	open			
5	OCXYOT	open	close	close	open	
6	OXYOT		open	close	open	
7	Z					close
8	CXYOT	close	close	close	open	
9	OXYT		open	close	close	
10	OCXYT	open	close	close	close	
11	CXYT	close	close	close	close	
12	hold OXCYT	open	close	close	close	
13	hold CXYT	close	close	close	close	
14	hold Z					close

TABLE 2 -- Order Sequence Definitions

(CONTINUED)

ORDER SEQUENCE	INSTRUCTIONS	OPERATION NUMBER
1	RPT1 BREAK <u>OCOX</u> REPEAT RPT1	1
2	RPT2 BREAK <u>OXOY</u> REPEAT RPT2	1
3	RPT3 BREAK <u>OZ</u> REPEAT RPT3	1
4	OCOX RPT4 BREAK <u>COX</u> <u>OCOX</u> REPEAT RPT4	1 2 3
5	OXOY RPT5 BREAK <u>OCXYOT</u> <u>OXOY</u> REPEAT RPT5	1 2 3
6	OXOY RPT6 BREAK <u>OXYOT</u> <u>OXOY</u> REPEAT RPT6	1 2 3
7	OZ RPT7 BREAK <u>Z</u> <u>OZ</u> REPEAT RPT7	1 2 3
8	OCOX OXOY RPT8 BREAK <u>CXYOT</u> <u>OCOX</u> OXOY REPEAT RPT8	1 2 3 4 5
9	OXOY OXYOT OXOY RPT9 BREAK	1 2 3

(CONTINUED)

		<u>OXYT</u>	4
		OXOY	5
		OXYOT	6
		OXOY	7
		REPEAT RPT9	
10		OXOY	1
		OXYOT	2
		OXOY	3
	RPT10	BREAK	
		<u>OCXYT</u>	4
		OXOY	5
		OXYOT	6
		OXOY	7
		REPEAT RPT10	
11		OXOY	1
		OCXYOT	2
		OXOY	3
	RPT11	BREAK	
		<u>CXYT</u>	4
		OXOY	5
		OCXYOT	6
		OXOY	7
		REPEAT RPT11	
12		OXOY	1
		OXYOT	2
		OXOY	3
		<u>OCXYT</u>	4
	RPT12	BREAK	
		REPEAT RPT12	
		OXOY	5
		OXYOT	6
		OXOY	7
13		OXOY	1
		OCXYOT	2
		OXOY	3
		<u>CXYT</u>	4
	RPT13	BREAK	
		REPEAT RPT13	
		OXOY	5
		OCXYOT	6
		OXOY	7
14		OZ	1
		Z	2
	RPT14	BREAK	
		REPEAT RPT14	
		OZ	3

(CONTINUED)

BREAK ==> take time-break for 1 base-level loop
(nominally 200 milliseconds)
REPEAT rpt ==> repeat execution at label rpt
(REPEAT or STEP mode only)
other ==> see TABLE 1 above for network order
definitions

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

RL

The multiscan function request was denied or the
maintenance TCR is busy. Repeat the request later.

5. REFERENCES

PR-3H320 NWGRID
Network Grid Utility Programs

CHL=MTC

1. INPUT MESSAGE FORMAT

ORD:OMAS:ttt aa dd!

2. EXPLANATION OF MESSAGE

Used to read or write the write protect register or to read or write any store location in the off-line store.

3. INPUT FIELDS

ttt Any of the following types of OMAS orders.
 RD Read store location at given address.
 RWP Read write protect register for mode that
 the given address is in.
 WRI Write into given store location.
 WWP Write into the write protect register that
 covers the given address.
dd Data to be written into given store location or
 write protect register.

4. SYSTEM RESPONSES

OK The message was accepted and buffered.
RL The ORDUTIL program has not been allowed
 yet. No messages will be accepted until the
 ALW:ORDUTIL message has been entered.
NG The buffer is full, no more messages will
 be accepted.
NG The address aa references unequipped main store.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL-MTC

1. INPUT MESSAGE FORMAT

ORD:OP;RDT LAMPS!

2. EXPLANATION OF MESSAGE

Used to output the responses returned from any of the following orders: ORD:OMAS, ORD:IOM, ORD:ION, or ORD:MCH. This message must immediately follow the order whose response is to be output.

3. INPUT FIELDS

action-options

RDT LAMPS direct the response to the display buffer.

4. SYSTEM RESPONSES

OK	The message was accepted and buffered.
RL	The ORDUTIL program has not been allowed yet. No messages will be accepted until the ALW:ORDUTIL message has been entered.
NG	The buffer is full, no more messages will be accepted.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL=MTC

1. INPUT MESSAGE FORMAT

ORD:PPD x,y,z,s1!

ORD:PPD x,y,z,s1:s2!

2. EXPLANATION OF MESSAGE

Execute a Peripheral Pulse Distributor ORDER to set the state of some relays to any desired state.

Caution should be used when using this function since calls in progress and the general health of the system can be affected.

3. EXPLANATION OF VARIABLE FIELD

x

= the peripheral pulse distributor (0 or 1) which the desired point is on.

y

= the point number (0 to 255) which is to be exercised.

z

= the triplet number (0 to 3) in which the desired relays are found.

s1

= the state (0 to 7) to which the triplet is to be set.

s2

= the alternate state to which the triplet is to be

(CONTINUED)

set. If s2 is not given, the triplet is set to state s1 and no further action is taken. If s2 is given however, the triplet is toggled between states s1 and s2 approximately every 200 milliseconds.

4. SYSTEM RESPONSES

OK = the point was set into the state desired.

NG = the requested point is not equipped.

IP = Toggling action is In Progress.

Use the STOP:UTIL! message to stop order execution. A request for another MSF function will also terminate the order.

5. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL=MTC

1. INPUT MESSAGE FORMAT

ORD:TST:DATA(dd,mm),TYP(tt,nn)!
ORD:TST:DATA dd!
ORD:TST:DATA(dd,mm)!
ORD:TST:TYP tt!
ORD:TST:TYP(tt,nn)!
ORD:TST:DATA(dd,mm),TYP tt!

2. EXPLANATION OF MESSAGE

Used to test for certain types of response data and/or flag types from the previously sent order. Based on this test either the first or second order following this order will be executed next. If the test conditions were satisfied the second order following will be executed otherwise the first order will be executed.

3. INPUT FIELDS

dd	Data to be tested against the response data.
mm	Mask which allows certain bits of data to be ignored for test purposes. Default value is mm=0.
tt	Data to be tested against the response flags.
nn	Mask which allows certain bits of the response flags to be ignored for test purposes. Default value is nn=0.

4. SYSTEM RESPONSES

OK	The message was accepted and buffered.
RL	The ORDUTIL program has not been allowed yet. No messages will be accepted until the ALW:ORDUTIL message has been entered.
NG	The buffer is full, no more messages will be accepted.
NG	Test order only allowed if previous orders are active.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:BTN/
TYP ttt/ ALWAYS REQUIRED
CODE nxx t/ ALWAYS REQUIRED
NCODE nxx t/
END!

2. EXPLANATION OF MESSAGE

This message defines a group of one thousand numbers to be used as billing numbers. The numbers must be defined via this message before being used with keywords BTN or TN in messages RC:LINE, RC:MLHG, RC:MPTY, RC:MTL, or RC:TWOPTY. The office code is 'nxx' and the thousand's digit is 't'. The 'nxx t' does not have to be defined in the four-digit translator, but the office code 'nxx' must have been previously defined in an RC:RTI message (RTI 0 through 7). The maximum number of combinations of office codes and thousand's digits is 31.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

Type of order. The three types for ttt are:

- NEW - Define a new 'nxx t'
- CHG - Change an already defined 'nxx t' to a new 'nxx t'. This effectively changes all the telephone numbers and bill to numbers stored in translations using the old 'nxx t'.
- OUT - Remove the existing 'nxx t'. All telephone numbers and bill to numbers using the 'nxx t'

(CONTINUED)

must be removed.

CODE nxx t

Office Code and Thousands digit to be used in billing numbers, where 'nxx' is the office code and 't' is the thousands digit.

NCODE nxx t

New Office Code and Thousands digit to be used in the billing numbers in place of an existing 'nxx t' (keyword CODE).

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

(CONTINUED)

4. REFERENCES

PROGRAM REFERENCE: PR-3H034 RCBTN

Recent Change - Define Group of One Thousand Numbers as
Billing Numbers

CHL-MTC

RC:CAC

RC:CAC

1. INPUT MESSAGE FORMAT

RC:CAC/
TYP ttt/ Always Required
CAC nnn or NO/ Always Required
MXDE nn/
MNDE nn/
CDI nnn/
RMK oooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message defines the treatment given to a Country Access Code (CAC). It is used either to define a new CAC, change an existing CAC or remove an existing CAC.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW CAC
CHG - CHanGe an existing CAC
OUT - remove an existing CAC

CAC nnn or NO

Country Access Code:

nnn = A 3-digit variable field.
Range is 2 through 9, 20 through 99 and

(CONTINUED)

200 through 999. A value of 0 is for the overseas operator and the valid keywords are CDI and RMK. The other decimal values are valid country codes and all of the keywords are valid. An input of NO routes all IDDD calls to a destination when the office does not allow IDDD calls or when screening on IDDD is not to be done by the office but by the TSPS. The valid keywords then are CDI and RMK.

MXDE nn

Maximum number of Digits Expected:

nn = A 2-digit variable field.
Range is decimal 7 through 12. The MXDE number is equal to the MNDE number or is greater than the MNDE number.

MNDE nn

Minimum number of Digits Expected:

nn = A 2-digit variable field.
Range is decimal 7 through 12. The MNDE number is equal to the MXDE number or is less than the MXDE number.

CDI nnn

Code Index:

nnn = A 3-digit variable field.
Range is decimal 0 through whatever the maximum defined code index is for this office (max. 255).

The CDI number must be an assigned number and must point to a Route Index (RTI) that will point to a TSPS trunk group.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will

(CONTINUED)

appear in the 'REMARKS' field of the
output record 3307-R form.
OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is
not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be
followed by the standard execute character (!). The END
can also be signaled by following the last keyword typed
by the execute character. Otherwise all keywords should
be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn
should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H213 RCCAC

Recent Change - Define Country Code Table

(CONTINUED)

RC:CAC

(CONTINUED)

RC:CAC

CHL-MTC

1. INPUT MESSAGE FORMAT

RC:CDI/
TYP ttt/ Always required
CDI nnn/ Always required
ETYP n/
NPCI nnn/
PICI nnn/
POCI nnn/
RTI nnn/
SCRTBL nn/
FAT n/
ACDI nnn/
OCDI nnn/
PRC n/
NCDI nnn/
RMK ooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is the recent change message for code index expansion entries. It is used either to define a new entry, change an existing entry, or remove an existing entry.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW CDI
CHG - CHanGe an existing CDI

(CONTINUED)

OUT - remove an existing CDI

ETYP n

Code Index Entry Type:

Also see the validity table.

- 0 - not allowed.
- 1 - ignore any prefix digits.
- 2 - "1" prefix normally received. Code indexes are provided to allow or to deny "0" prefix or "no" prefix.
- 3 - normally no prefix is received. Code indexes are provided to allow or to deny a "0" prefix or a "1" prefix.
- 4 - ignore a "1" prefix. Normally no prefix or a "1" prefix is received. A code index is provided to allow or deny a "0" prefix.
- 5 - foreign area translation required on next 3 digits.
- 6 - conflict between area code and office code.
- 7 - Preroute Peg Count desired.

NPCI nnn

No Prefix Code Index:

nnn = A 3-digit variable field.
Range is decimal 0 through whatever the maximum defined code index is for this office (max. 255).
The NPCI number must be an assigned number, and can't equal the CDI number.

P1CI nnn

1 Prefix Code Index:

nnn = A 3-digit variable field.
Range is decimal 0 through whatever the maximum defined code index is for this office (max. 255).
The P1CI number must be an assigned number and can't equal the CDI number.

POCI nnn

0 Prefix Code Index:

nnn = A 3-digit variable field.
Range is decimal 0 through whatever the maximum defined code index is for this office (max. 255).
The POCI number must be an assigned number and

(CONTINUED)

can't equal the CDI number.

RTI nnn

Direct Route Index:

nnn = A 3-digit variable field.

Range is decimal 0 through whatever the maximum defined route index is for this office (max. 255).

The RTI number must be an assigned number.

SCRTBL nn

Screening Table number:

nn = A 2-digit variable field.

Range is decimal 0 through whatever the maximum defined screening table is for this office (max. 63).

The SCRTBL number must be an assigned number.

FAT n

Foreign Area Translation:

n = A one-digit field.

Range is decimal 1 through 3.

The FAT must be an assigned number.

ACDI nnn

Conflict Area Code Index:

nnn = A 3-digit variable field.

Range is decimal 0 through whatever the maximum defined CODE INDEX is for this office (max. 255).

The ACDI number must be an assigned number.

The ACDI cannot equal the CDI number.

OCDI nnn

Conflict Office Code Index:

nnn = A 3-digit variable field.

Range is decimal 0 through whatever the maximum defined CODE INDEX is for this office (max. 255).

The OCDI number must be an assigned number.

the OCDI cannot equal the CDI number.

PRC n

Preroute Peg Counter:

(CONTINUED)

n = peg counter number - range 1 through 4

NCDI nnn

Next Code Index:

nnn = A 3-digit variable field.

Range is decimal 0 through whatever the maximum defined CODE INDEX is for this office (max. 255).

The NCDI number must be an assigned number.

The NCDI can't equal the CDI number.

RMK ooooooo OR OUT

ooooooo = 1 to 7 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3304-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

(CONTINUED)

VALIDITY TABLE

Keywords TYP and CDI are always required and keyword CTYP is required on a NEW order and not allowed on a CHG order. A '*' indicates that the keyword is required on a NEW order and optional on a CHG order. The exception is keyword POCI which is optional if the office does not have '0+'.

KEYWORD	ETYP						
	1	2	3	4	5	6	7
NPCI		*					
P1CI			*				
POCI		*	*	*			
RTI	*	*	*	*			
SCRTBL	*	*	*	*			
FAT					*		
ACDI						*	
OCDI						*	
PRC							*
NCDI							*

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

(CONTINUED)

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H035 RCCDI

Recent Change - Code Index Expansion Entries

CHL-MTC

1. INPUT MESSAGE FORMAT

RC:CFN/
TN nxx xxxx/ Always required
CFN p npa nxx xxxx or NO/ Always required
END!

2. EXPLANATION OF MESSAGE

This message is used either to deactivate a customers call forwarding number, to activate the service with a call forwarding number, or to change an existing call forwarding number. The customer must have call forwarding service before this message can be used.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TN nxx xxxx

Telephone Number: The data is all numeric (decimal).

CFN p npa nxx xxxx or NO

Call Forwarding Number:

The number may be any one of the following:

1 npa nxx xxxx
npa nxx xxxx
1 nxx xxxx
nxx xxxx

To deactivate the service (remove the CF number) specify NO in

(CONTINUED)

the data field.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H036 RCCFN

Recent Change - Call Forwarding

CHL=MTC,SO

1. INPUT MESSAGE FORMAT

RC:CHI/
TYP ttt/ Always required
CHI nn/ Always required
ETYP MR or CN/
ITM n/
ICU nn/
OTM n/
OCU nn/
RMK oooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is used either to define a new charge index, to change an existing charge index, or to delete an existing charge index.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW CHI
CHG - CHanGe an existing CHI
OUT - remove an existing CHI

CHI nn

Charge Index:

(CONTINUED)

Range is 2 though 31. CHI = 1 is a free charge index.

ETYP MR or CN

Entry Type:

MR = message rate

CN = coin

ITM n

Initial Time:

n = 0 => local untimed MR or CN

= 1-7 => initial time in minutes

ICU nn

Initial Charge Units (MR only):

nn = 1-15 message units

Initial charge for coin is determined by the
coin phone (5-45 cents).

OTM n

Overtime:

n = 1-7 minutes

OCU nn

Overtime Charge Units (MR only):

nn = 1-15 message units

Overtime charge for coin is 5 cents.

RMK 00000000000000 OR OUT

00000000000000 = 1 to 14 alphanumeric characters that will
appear in the 'REMARKS' field of the
output record 3302-R form.

OUT = Remove the current remark (if any).

(CONTINUED)

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H037 RCCHI

Recent Change - Charge Index

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:CKT/
TYP ttt/ Always required
GRP nnn/ Always required
TER nnn/ Always required
OE gg cws i/
SP ss rr pp/
DSP ss rr pp/
DP p ddd t/
EQL tffbjjpp/
TOC nnnnn/
CKT nn/ Required for trunk group 128 only
RMK oooooooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is used to associate scan points, distributor triplets, and network terminals with particular circuits of a trunk or service circuit group.

If the circuit is not in the LKO state (service circuits) or DSA state (trunks), the message will be aborted with an 'RL' response.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

(CONTINUED)

NEW - define a NEW CIRCUIT
CHG - CHanGe an existing CIRCUIT
OUT - remove an existing CIRCUIT

GRP nnn

Group Number:

nnn = Two- to 3-digit number specifying the circuit's group number. Range is 64 through the maximum defined group number for this office (max. 255). The Group number must be an assigned number.

TER nnn

Terminal number (member number):

nnn = One- to 3-digit number that specifies the entry in the member list for this circuit. Range is 0 through the maximum defined terminal number for this group (max. 126).

OE gg cws i

Terminal Equipment Number:

gg = concentrator group (01 through 15)
c = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

See SD/CD-3H912-01 for OE assignment rules

SP ss rr pp

Scan Point Number:

ss = SCANNER number (00 through 15)
rr = ROW number (00 through 31)
pp = POINT in the row (00 through 15)

The value 00 00 00 is not allowed.

See SD/CD-3H912-01 for SP assignment rules

This scan point number identifies the supervisory scan point for a trunk or service circuit. The tone present scan point number for touch-tone and MF receivers is also derived from this number, and therefore is not required. The tone present scan point is assumed to be in the same scanner and row as the

(CONTINUED)

supervisory scan point but four points lower.

DSP ss rr pp

Directed Scan Point Number:

ss = SCANNER number (00 through 15)
rr = ROW number (00 through 31)
pp = POINT in the row (00 through 15)

The value 00 00 00 is not allowed.

See SD/CD-3H912-01 for DSP assignment rules

If the circuit has more than one directed scan point, specify the first directed scan point. It is assumed that all the directed scan points for the same circuit are contiguous. The tone scan points for TT and MF receivers are considered directed scan points.

CAUTION --- the SP and DSP can NOT be the same.

DP p ddd t

Distributor Triplet:

p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

The value 00000 is not allowed.

See SD/CD-3H912-01 for DP assignment rules.

EQL

Equipment Location:

EQL tffbl1pp/

t = Type of frame (c,m,n,t)
ff = Frame number (00-15)
b = Bay number (0-2)
l1 = Level in bay (00-99)
pp = Position at level l1 (00-99)

EQL will appear on the office record output form 3171-R on issue 4 or later generics. Refer to OP:OFR.

(CONTINUED)

TOCTrunk Order Code:

TOC is a five-digit number for trunk order code. It will appear on the office record output form 3171-R on issue 4 or later generics. Refer to OP:OFR.

CKT nnCircuit Code:

This keyword may be used only if trunk group 128 is specified. Trunk group 128 is used to store and test miscellaneous trunk circuits, nn = two-digit number. Range is 01 through 07.

(CONTINUED)

CIRCUIT CODE TABLE

CKT CODE	DESCRIPTION	SD	CPS-FB	TOC
0	TONE & ANNOUNCEMENT CKTS	3H411	383	60910
1	TWO-WAY E&M LEAD TRUNK	3H220	361	
1	TWO-WAY E&M TRUNK WITH TYPE 2 IN- TERFACE	3H220	382	50204
1	TWO-WAY E&M TRUNK WITH TYPE 3 IN- TERFACE	3H220	391	50205
1	D4 DIRECT INTERFACE	3C304	---	51327
2	SPARE			
3	INCOMING REVERSE BATTERY TRUNK (WINK OR IMMEDIATE) / 911 TRUNK	3H220	371	10203
4	INCOMING REVERSE BATTERY TRUNK (DELAY DIAL)	3H220	370	10202
5	OUTGOING REVERSE BATTERY HIGH-LOW TRUNK	3H220	399	00206
6	SPARE			
7	OFFICE TO OFFICE TEST TRUNK	3H220	429	50228
8	CUSTOMER DIAL PULSE RECEIVER CKT	3H410	367	60808
9	TOUCH-TONE RECEIVER - INCLUDES: CUSTOMER DIAL PULSE RECEIVER CKT	3H410	367	60809
	TOUCH-TONE CALLING DETECTOR CKT	3H401		
10	MULTIFREQUENCY RECEIVER CKT	3H402	---	60400
11	MULTIFREQUENCY TRANSMITTER CKT	3H404	362-364	60600
12	DIAL PULSE TRANSMITTER CKT	3H403	403	60500
13	REGULAR RINGING CKT	3H410	358	60807
14	SUPERIMPOSED RINGING CKT	3H406	375, 376	60700
15	COIN CONTROL CKT	3H411	423	60911
16	CONFERENCE CKT	3H411	427	60913
17	INCOMING LOCAL TEST DESK(NO.14 & 16)	3H520	519	31025
18	STATION RINGER TEST CKT	3H520	521, 522	71022
19	OTHER TEST CIRCUITS:			
	CONTINUITY & POLARITY TEST	3H520	500	71016
	DIAL PULSE RECEIVER TEST	3H520	501, 502	71017
	TRANSMISSION TEST TERMINATION	3H520	504	71018
	MW & TRANSMISSION ENVIRONMENT TEST	3H520	505-509	71019
	LOOP ENVIRONMENT TEST	3H520	510	71020
	TONE PRESENCE DETECTOR	3H520	516, 517	71021
	LINE INSULATION TEST	3H520	669	71023
	TOUCH-TONE RECEIVER TEST	3H520	526-529	71024

(CONTINUED)

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3201-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

(CONTINUED)

RC:CKT

(CONTINUED)

RC:CKT

OK = The message was OK and has been completed.

If the circuit is not in the LKO state (service circuits) or DSA state (trunks), the message will be aborted with an 'RL' response.

4. REFERENCES

PROGRAM REFERENCE: PR-3H038 RCCKT

Recent Change - Trunk or Service Circuit

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:CLS/
TYP ttt/ Always required
CLS nn/ Always required
REG n/ Always required
END!

2. EXPLANATION OF MESSAGE

This message is used to assign and remove major classes to or from the Class of Service traffic registers. There are four registers used for originating measurements and 1 register for terminating measurements. A major class may be assigned to more than 1 register at once. A register may correspond to more than one class of service at once. However, a major class may not be assigned to all 4 originating registers at once. To count both originating and terminating calls with the same major class, the major class assigned to the terminating register is automatically assigned to originating register 4.

This message is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data, followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!", or a keyword and its corresponding data followed by an execute character (!).

The keywords are explained below.

TYP ttt
Indicates the type of message. ttt may be
NEW - To assign a major class to a register.
OUT - To remove a major class from a register.

CLS nn
Specifies the major class. nn may be in the range 0-31.

REG n

(CONTINUED)

Specifies the register. n may be
1-4 originating class of service registers
5 terminating class of service register

If TYP=NEW, and REG=5, the major class is assigned to the terminating register and automatically assigned to originating register 4 only. It must be removed from these registers (TYP=OUT, REG=5), before it can be reassigned solely to an originating register.)

The keyword "END" indicates that no more data follows. The preceeding message should be performed. END must be followed by the standard execute character (!). The end can also be signalled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message "TRF ERR nnnn" will follow giving the exact reason.

RL = The message should be Repeated Later. The message might not be allowed because:
1. Reallocation of memory is in progress.
2. Or, off line store is inaccessible.

OK = The message was OK and has been completed.

4. REFERENCES

PR-3H080 RCCLS Recent Change Class of Service

CHL=MTC,MTR,TRF

1. INPUT MESSAGE FORMAT

RC:DIG/
TYP ttt/ Always required
FAT n/ Always required
DIG nxx or NO/ Always required
CDI nnn/
RMK oooooooooooooo or OUT/
NPA nnn/
END!

2. EXPLANATION OF MESSAGE

This message defines a code index for a 3- or 6-digit code or a default code index for an area translator.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW 3-DIGIT ENTRY
CHG - CHanGe an existing 3-DIGIT ENTRY
OUT - remove an existing 3-DIGIT ENTRY

FAT n

Foreign Area Translator:

n = 0 => local area translator
 = 1-3 => foreign area translator number

(CONTINUED)

DIG nxx or NO

Three-Digit Office or Area Code:

nxx = Office or area code digit.
Range is 200 through 999. For 11x codes
input x11 (dialed 11x codes are converted
to x11).

In a complete translator, the default code index is assumed to be 0 (vacant code treatment). In the case of a partial translator, a default code index for each partial translator must be specified. To do this specify a code index (CDI) and specify NO for keyword DIG.

CDI nnn

Code Index:

nnn = a 3-digit decimal number.
Range 0 through the maximum defined code index for
this office (max. 255). The number must be an assigned
number.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will
appear in the 'REMARKS' field of the
output record 3300-R form.
OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is
not specified, OUT is the default.

NPA nnn

NPA associated with the local or foreign area translator. This
NPA is printed out as part of the "header" information of the
3- and 6-digit translation (Form 3300-R). This is a required
keyword on TYP CHG message but has no meaning for the NPA.

(CONTINUED)

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H039 RCDIG

Recent Change - Define 3- or 6-Digit Code

CHL=MTC

RC:DP

RC:DP

1. INPUT MESSAGE FORMAT

RC:DP pddd!

or

RC:DP pddd;RMV!

2. EXPLANATION OF MESSAGE

The first form of this message is used to specify an equipped peripheral decoder, where:

p = Peripheral pulse distributor (0 through 1)
ddd = Peripheral decoder (000 through 255)

Use the second form of the message to remove a previously defined peripheral decoder.

This recent change is active immediately upon successful completion of the message.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

(CONTINUED)

4. REFERENCES

PROGRAM REFERENCE: PR-3H040 RCDP

Recent Change - Define or Remove a Peripheral Decoder

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:GRP/
 TYP ttt/ Always required *NEW CNA OUT*
 GRP nnn/ Always required
 DR n/ TRKS *0 = OUT 1 = INC 2 = 2way*
 SCHED n/ SVC & TRKS
 EM ttt/ TRKS
 CKT nn/ SVC & TRKS
 DISC n/ TRKS
 OTYP n/ OG TRKS
 OMF ttt/ OG TRKS
 ODP ttt/ OG TRKS
 ST n/ OG TRKS
 OLP ttt/ OG TRKS
 LP ttt/ OG TRKS
 SIG I,M,E or NO/ TRKS
 IDGN YES or NO/ TRKS
 OTO YES or NO/ TRKS
 EBS YES or NO/ TRKS
 STP ttt/ OG TRKS
 AUDB ttt/ OG TRKS
 TOTANI nn/ OG TRKS
 BYLK ttt/ INC TRKS
 IMF ttt/ INC TRKS
 CHGE ttt/ INC TRKS
 RTEQ ttt/ INC TRKS
 NT ttt/ INC TRKS
 TBL nn/ INC TRKS
 CODE nxx/ INC TRKS
 NDE n/ INC TRKS
 THDIG n/ INC TRKS
 SCR nn/ INC TRKS
 RMK 00000000000000 or OUT/ SVC & TRKS
 END!

2. EXPLANATION OF MESSAGE

This message is used to specify the trunk or service circuit features for a group. NOTE: if the circuit code or scan list information is changed on a group, every member of the group must be removed with a RC:CKT TYP OUT message, then the group data can be changed, and then each member put back in with a RC:CKT TYP NEW message.

This recent change is active immediately upon successful

(CONTINUED)

completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

Type of order. The three types for ttt are:

- NEW = define features for a NEW group. The group exists but doesn't have working members.
- CHG = Change the features assigned to a group. The group has working members. The group must be taken out of service before inputting this message.
- OUT = Remove the features assigned to the group. The group must not have any working members.

GRP nnn

Group Number:

- nnn = Two- to three-digit circuit group number. Range 64 through the maximum defined group number for this office (max. 255).

DR n

Direction of traffic on the trunks:

DR is required on a new order and not allowed on a change order.

- n = 0 - outgoing trunk only
- = 1 - incoming trunk only
- = 2 - two-way trunk (incoming & outgoing)

SCHED n or NO

Traffic Schedule:

- n = 0 reserved

(CONTINUED)

RC:GRP

(CONTINUED)

RC:GRP

= 1 reserved
= 2 - H schedule
= 3 - C schedule
= 4 - D schedule

EM ttt

E & M Supervision:

ttt is either YES or NO:

YES => E & M supervision is used.

CKT must equal 1 or 2.

NO => Loop supervision is used (default case).

CKT nn

Circuit Code:

nn = A 1- or 2-digit number that uniquely identifies the hardware circuits to be used in this group.

(CONTINUED)

CIRCUIT CODE TABLE

CKT CODE	DESCRIPTION	SD	CPS-FB	TOC
0	TONE & ANNOUNCEMENT CKTS	3H411	383	60910
1	TWO-WAY E&M LEAD TRUNK	3H220	361	
1	TWO-WAY E&M TRUNK WITH TYPE 2 IN- TERFACE	3H220	382	50204
1	TWO-WAY E&M TRUNK WITH TYPE 3 IN- TERFACE	3H220	391	50205
1	D4 DIRECT INTERFACE	3C304	---	51327
2	SPARE			
3	INCOMING REVERSE BATTERY TRUNK (WINK OR IMMEDIATE) / 911 TRUNK	3H220	371	10203
4	INCOMING REVERSE BATTERY TRUNK (DELAY DIAL)	3H220	370	10202
5	OUTGOING REVERSE BATTERY HIGH-LOW TRUNK	3H220	399	00206
6	SPARE			
7	OFFICE TO OFFICE TEST TRUNK	3H220	429	50228
8	CUSTOMER DIAL PULSE RECEIVER CKT	3H410	367	60808
9	TOUCH-TONE RECEIVER - INCLUDES: CUSTOMER DIAL PULSE RECEIVER CKT	3H410	367	60809
	TOUCH-TONE CALLING DETECTOR CKT	3H401		
10	MULTIFREQUENCY RECEIVER CKT	3H402	---	60400
11	MULTIFREQUENCY TRANSMITTER CKT	3H404	362-364	60600
12	DIAL PULSE TRANSMITTER CKT	3H403	403	60500
13	REGULAR RINGING CKT	3H410	358	60807
14	SUPERIMPOSED RINGING CKT	3H406	375, 376	60700
15	COIN CONTROL CKT	3H411	423	60911
16	CONFERENCE CKT	3H411	427	60913
17	INCOMING LOCAL TEST DESK(NO.14 & 16)	3H520	519	31025
18	STATION RINGER TEST CKT	3H520	521, 522	71022
19	OTHER TEST CIRCUITS:			
	CONTINUITY & POLARITY TEST	3H520	500	71016
	DIAL PULSE RECEIVER TEST	3H520	501, 502	71017
	TRANSMISSION TEST TERMINATION	3H520	504	71018
	MW & TRANSMISSION ENVIRONMENT TEST	3H520	505-509	71019
	LOOP ENVIRONMENT TEST	3H520	510	71020
	TONE PRESENCE DETECTOR	3H520	516, 517	71021
	LINE INSULATION TEST	3H520	669	71023
	TOUCH-TONE RECEIVER TEST	3H520	526-529	71024

(CONTINUED)

If circuit code is 4 (Inc. RVB), then IMF is required.

If circuit code is 17 (LTD), then IMF, NT, and SCR are required.

DISC n

Type of Disconnect Supervision required:

- n = 0 => Regular hold - Standard disconnect procedures are used.
- = 1 => Joint hold - both parties must go on-hook (trunks to recording completing operator).
- = 2 => Service hold - disconnect when distant party goes on-hook.
(Toll Switch, TSP(S), or No-Test)
- = 3 => Customer hold - disconnect when calling party goes on-hook.
If specified, AADB is not allowed.
(CAMA and non-operator intercept trunks i.e. Answer supervision is not expected).

NOTE: A two-way operator or a two-way operator-office trunk group should be marked service hold. Joint hold will be assumed on outgoing calls.

OTYP n

Outgoing Trunk Type:

- n = 0 => regular trunk
- = 1 => CAMA trunk group
- = 2 => TSP trunk group
- = 3 => TSPS trunk group

TSP, TSPS, and CAMA require OMF.

OMF ttt

MF Outpulsing:

- ttt = YES => MF outpulsing required.
If specified, keyword ODP is not allowed.
- = NO => MF outpulsing is not used (default case).

ODP ttt

Dial Pulse Outpulsing:

(CONTINUED)

ttt = YES => DP output pulsing required
If specified, keyword OMF is not allowed.
= NO => DP output pulsing is not used (default case).

ST n

Start Dial, specifies when to begin output pulsing on the outgoing trunks:

- n = 0 => immediate start (by-link) - specifies that output pulsing is to begin after the trunk is seized, or no output pulsing is required.
- = 1 => Delay dial - specifies that output pulsing is to be delayed until the signal, which is received from the distant office at seizure time, changes to on-hook.
- = 2 => Wink start - wait 350 msec for end of wink.

If a two-way trunk, a wink duration of greater than 350 msec assumes a glare situation. Backoff and let the other office win.

- = 3 => Wink start (2-way only) - wait 1000 msec for end of wink.

OLP ttt

Overlap Output Pulsing:

ttt = YES => overlap output pulsing permitted.

Dial pulse output pulsing (keyword ODP) required.

- = NO (default case) => overlap output pulsing is not permitted.

LP ttt

Long Loop Pulsing:

ttt = YES => long loop pulsing required.

Loop is greater than 500 ohms, and dial pulse output pulsing (keyword ODP) is required.

- = NO (default case) => long loop pulsing not used.

SIG I,M,F or NO

Signaling Type:

(CONTINUED)

I = Inband
M = Multiwink
E = Extended Inband
NO = No signalling

NOTE: The supervision of a trunk cannot be changed. A type OUT and a type NEW message is required.

IDGN YES or NO

Inhibit trunk diagnostic during daisy chain. Default is NO.

OTO YES or NO

Trunk Office To Office test during automatic tests. Default is NO.

EBS YES or NO

If 'YES', provide single flash for outgoing trunk group for 911 service only. If 'NO', do not provide single flash. Refer to FD 233-190-203.

STP ttt

Stop-go:

ttt = YES => indicates that interruption of pulsing is permitted on the trunk.

Required for outgoing trunks to SxS Toll and SxS Tandem offices. Dial pulse outpulsing (keyword ODP) is required.

= NO (default case) => interruption of pulsing is not permitted on the trunk.

AUDB ttt

Audible:

ttt = YES => return audible on the outgoing trunk
(outgoing to 23 intercept system,
recording completing operator, etc.)
Keyword DISC can't equal 3 (customer hold).
= NO (default case) => do not return audible

(CONTINUED)

NOTE: Answer supervision is expected.

TOTANI nn

Terminal Office Test Access Number Index:

nn = One or 2 digit test access number index.
Range 1 through whatever the maximum defined
index is for this office (max. 31). The Access
number index must be an assigned number.

A TOTANI can not be specified for TSP, TSPS, and operator
trunks.

BYLK ttt

Bylink trunk from SxS office:

ttt is either YES or NO:

YES => bylink trunk
NO => not a bylink trunk (default case)

IMF ttt

Multifrequency Impulsing:

ttt = YES => Multifrequency impulsing expected
from far office.
If CKT = 4 (inc. Reverse battery trk),
than MF impulsing is required.
= NO (default case) => Dial Pulse impulsing
expected from far office.

CHGE ttt

Charge:

ttt = YES => specifies that calls to a free termination
line from this trunk are to be given answer
supervision. This allows charging on incoming
calls even if it is to a free termination,
and also for proper operation of operator
cord lamps. Keyword should be specified for
all incoming operator and toll completing
trunks.
= NO (default case) => if free terminating line, do
not return answer supervision.

RTEQ ttt

(CONTINUED)

Remote Test Equipment Facilities:

- ttt = YES => Remote Test equipment facilities
(SD-99311) are provided for local
test desk. Auto-connect procedures
are used.
- = NO (default case) => Dedicated facilities
are provided for local test desk.

NT ttt

No Test trunk:

- ttt = YES => No Test trunk
- = NO (default case) => not a No Test trunk

If the no test trunk is not Local Test Desk (CKT=17),
then MF inband sigaling (INBD) is required.

TBL nn

One-digit Table Number: The specified table describes
how calls coming in on the trunk group are to be treated
based upon the first digits received (see the message
RC:ODIG). This table is to be used when neither the
three- or four-digit translators (keyword SCR or
keywords CODE, NDE, and THDIG, respectively) can be
used.

- nn = One- or 2-digit table number.
Range 0 through whatever the maximum
defined one-digit table number is for
this office (max. 63). The table number
must be an assigned number.

CODE nxx

Office Code:

- nxx = The 3-digit office code to be associated
with all calls coming over the trunk
(see keyword NDE). If specified, keywords
TBL and SCR are not allowed.

NDE n

Number of Digits Expected over the trunk:

All calls received on the trunk have a common office code and
will be processed in the four-digit translator. Keyword CODE is
required when NDE is specified. NDE is not allowed if keyword

(CONTINUED)

TBL or keyword SCR is specified.

- n = 3 => The last 3 digits of the station number are expected. These are to be prefixed with the digit from keyword THDIG and used in the four-digit translator specified by keyword CODE.
- = 4 => The 4 digits of the station number are expected. These digits are used in the four-digit translator specified by CODE.
- = 5 => Five digits are expected. Ignore the first digit and use the last four in the 4-digit translator specified by keyword CODE.

THDIG n

Thousands Digit:

- n = thousands digit to be prefixed when receiving only 3 digits (see NDE = 3). If specified, keywords TBL and SCR are not allowed.

SCR nn

Screening Class:

Use 3-digit translation on first 3 digits received. If specified, keywords TBL, CODE, NDE, and THDIG are not allowed.

- nn = one- or two-digit screening class. Range is 0 through 63. (63 for no screening)

RMK oooooooooooooooooo OR OUT

- oooooooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3202-R form.
- OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

(CONTINUED)

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H041 RCGRP

Recent Change - Define Features for Trunk or Service Ckt

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:GTSA/
GRP nnn/ Always required
SCHED n/ Always required
END!

2. EXPLANATION OF MESSAGE

this message is used to assign trunk, service circuit, and pbx groups to traffic schedules.

This message is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data, followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!", or a keyword and its corresponding data followed by an execute character (!).

The keywords are explained below.

GRP nnn
Specifies the group. nnn may be
 0-63 PBX groups
 64-127 Service Circuit groups
 128-255 Trunk groups

SCHED n
Specifies the traffic schedule. n may be
 2 busy hour (H)
 3 non busy hour (C)
 4 daily (D)
 NO remove the group from the schedule it is currently
 assigned to and assign it to no other schedule.
 The group data will not appear on any traffic
 printout.

The keyword "END" indicates that no more data follows. The preceeding message should be performed. END must be followed

(CONTINUED)

by the standard execute character (!). The end can also be signalled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message "TRF ERR nnnn" will follow giving the exact reason.

RL = The message should be Repeated Later. The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off line store is inaccessible.

OK = The message was OK and has been completed.

4. REFERENCES

PR-3H088 RCGTSA Recent Change Group Traffic
Assignment Schedule

CHL=MTC, MTR, TRF

1. INPUT MESSAGE FORMAT

RC:INCP/
RTI nnn/ Always required
REG n/ Always required
END!

2. EXPLANATION OF MESSAGE

This message is used to assign and remove route indices from the incoming and intraoffice intercept traffic registers. There are 3 incoming and 3 intraoffice traffic registers. One route index may be assigned to a pair of registers (1 incoming and 1 intraoffice). All calls whose treatment is determined by that route index will cause one of the register pair to be pegged.

This message is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data, followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!", or a keyword and its corresponding data followed by an execute character (!).

The keywords are explained below.

RTI nnn

Indicates the route index. nnn may be in the range 8-255, or NO, which removes the route index assigned to the register and does not put anything in its place.

REG n

Specifies the register pair number. n may be 1, 2, or 3.

The keyword "END" indicates that no more data follows. The

(CONTINUED)

preceeding message should be performed. END must be followed by the standard execute character (!). The end can also be signalled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message "TRF ERR nnnn" will follow giving the exact reason.

RL = The message should be Repeated Later. The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off line store is inaccessible.

OK = The message was OK and has been completed.

4. REFERENCES

PR-3H089 RCINCP Recent Change Incoming &
Intraoffice INterCePts

CHL=MTC,MTR,TRF

1. INPUT MESSAGE FORMAT

RC:LCC/
TYP ttt/ Always required
LCI nnn/ Always required
LCC ttt/
RAX n/
OMAJ nn/
TMAJ nn/
SCR nn/
PTY n/
UCL YES or NO/
RMK oooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is used to associate an originating major class, a terminating major class, and a screening class with a line class code and rate area.

NOTE: The class of service for lines already defined using this LCC is not automatically changed by this message. To change the class of service for an existing line, the appropriate line recent change message must be inputted (RC:LINE, RC:TWOPTY, RC:MPTY, RC:MTL, or RC:MLHG).

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

(CONTINUED)

NEW - define a NEW LCI ENTRY
CHG - CHanGe an existing LCI ENTRY
OUT - remove an existing LCI ENTRY

LCI nnn

Line Class Index:

nnn = 3-digit number that identifies the LCC table entry. Range is 0 through 255. If the LCC is going to be used to provide an originating major class and a screening class for Multi-line Hunt groups (message RC:MLHG), the range is 0 through 15.

LCC ttt

Line Class Code:

ttt = A three-character alphanumeric code with which to reference the major class codes and the screening information. Use of USO codes is recommended.

RAX n

Rate Area:

This keyword is used with LCC to reference the classes of service. If RAX is not specified, zero is used. Range of ' n ' is 0 through 7.

OMAJ nn

Originating Major Class:

nn = two-digit major class code.
Range 0 through 31 (see Tables 1&2)

TMAJ nn

Terminating Major Class:

nn = two-digit major class code.
Range 0 through 31 (see Tables 1&2)

SCR nn

Screening Class:

(CONTINUED)

nn = two-digit screening class.
Range 0 through 62.

The screening class defines what routing and charging treatment is to be used for a line that has this class of service. The routing and charging treatments for screening classes are defined in the screening tables (see message description for RC:SCR).

PTY n

Party number for two-, four-, and eight-party class of service:

n = one-digit number, range is 0 through 8.
Specify 0 for individual lines.
Specify 1 and 2 for ring and tip party,
respectively, on two-party lines.

UCL YES or NO

YES to by-pass line class code validity check, NO not to by-pass line class code validity check.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3306-R form.
OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

(CONTINUED)

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

(CONTINUED)

Table 1: ORIGINATING and TERMINATING MAJOR CLASSES

MAJOR CLASS	ASSIGNMENT	ORG	TERM
0	UNASSIGNED	*	
1			
2			
3			
4	TWO-PARTY RING	*	*
5	TWO-PARTY TIP	*	*
6	INDIVIDUAL-TRAFFIC	*	*
7	INDIVIDUAL-FREE		*
8	INDIVIDUAL	*	*
9	HOTEL-MOTEL	*	
10	MANUAL	*	
11	SELECTIVE CALL SCREENING	*	
12			
13			
14			
15			
16	MULTIPARTY PARTY 1	*	*
17	MULTIPARTY PARTY 2		*
18	MULTIPARTY PARTY 3		*
19	MULTIPARTY PARTY 4		*
20	MULTIPARTY PARTY 5		*
21	MULTIPARTY PARTY 6		*
22	MULTIPARTY PARTY 7		*
23	MULTIPARTY PARTY 8		*
24	COIN FIRST COIN	*	*
25	DIAL TONE FIRST COIN	*	*
26			
27			*
28	INTERCEPT	*	*
29	AUTO-CONNECT	*	*
30	DENIED SERVICE		*
31	SPECIAL ROUTING		*

Where:

- * in ORG column => originating major class assignment
- * in TERM column => terminating major class assignment

(CONTINUED)

Table 2

Allowed combinations of Originating and Terminating major classes.

* => Allowed combination

T E R M C L	ORIGINATING MAJOR CLASS												
	0	4	5	6	8	9	10	11	16	24	25	29	30
0													
4		*											*
5			*										*
6				*	*	*	*	*					*
7				*	*	*	*	*					*
8				*	*	*	*	*					*
16		*							*				
17		*	*						*				
18		*		*	*	*		*	*				
19		*	*	*	*				*				
20		*		*	*	*		*	*				
21			*						*				
22									*				
23									*				
24										*			*
25											*		*
28	*												
29												*	
30		*	*		*	*	*	*	*	*	*		*
31	*												

3. SYSTEM RESPONSES

(CONTINUED)

RC:LCC

(CONTINUED)

RC:LCC

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H042 RCLCC

Recent Change - Line Class Code

CHL-MTC

RC:LINE

RC:LINE

1. INPUT MESSAGE FORMAT

RC:LINE/
ORD oooo/ Always required
TYP ttt/ Always required
TN nxx xxxx/ Always required
OE gg cws/ .
LCC ttt/
RAX n/
BTN nxx xxxx or NO/
WATS nxx xxxx or NO/
SER nxx xxxx or NO/
TTC YES or NO/
EL YES or NO/
GST YES or NO/
TRC YES, MN, MJ, or NO/
ESM YES or NO/
ESC YES or NO/
ESX YES or NO/
ESL YES or NO/
CSL1 YES or NO/
ESF YES or NO/
CSL2 YES or NO/
DP p ddd t or NO/
DPM p ddd t or NO/
DPU p ddd t or NO/
DPCN p ddd t o or NO/
RTI nnn/
NTN nxx xxxx/
IOE gg cws/
SP ss rr pp or NO/
BSY ttt/
SOB YES or NO/
BLN YES or NO/
HLN number/
MR nnnn or NO/
SS YES or NO/
PLIT YES or NO/
ROH YES or NO/
RMK oooooooooooooo or OUT/
UCL YES or NO/

(CONTINUED)

RC:LINE

(CONTINUED)

RC:LINE

The following keywords apply to auto-connect lines.

RTN nxx xxxx/
CLS nn/
TTYC n/
PORT n/
AUTO YES or NO/
TO nnn or NO/
PRIOR nn/
NDB YES or NO/
TONE n/
ETYP nn/
TER n/
NIGHT YES or NO/
RAML YES or NO/
END!

2. EXPLANATION OF MESSAGE

This message is the recent change message for customer line service orders. It is used to add, change, or remove individual Line information. This includes individual lines, manual lines, coin lines, telephone numbers on intercept, telephone numbers used for special routing, dial tone delay alarm circuit, and auto-connect lines. The line must be idle before this message will be accepted (except see keyword UCL below).

For two party, multi-party, and multi-line hunt group lines, see messages RC:TWOPTY, RC:MPTY, and RC:MTL, respectively.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

(CONTINUED)

ORD oooo

ORDER Number: The range is from 0 through 9999.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW ENTRY
CHG - CHAnGe an existing ENTRY
OUT - remove an existing ENTRY

TN nxx xxxx

Telephone Number: The data is all numeric (decimal).

OE gg cws i

Terminal Equipment Number:

This keyword is required except for TNs on intercept and TNs used for special routing.

gg = concentrator group (01 through 15)
c* = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

The additional trigger numbers for auto-connect must use the auto-connect OE.

LCC ttt

Line Class Code:

This specifies what originating major class, terminating class, and screening class a line will have. Keyword RAX is used with LLC to determine the classes. If RAX is not specified, RAX is assumed to be zero.

RAX n

Rate Area Data:

This keyword is used with keyword LCC to determine the classes of service. If it is not used it is assumed to be zero. Range is decimal 0 through 7.

BTN nxx xxxx

Bill to Number:

(CONTINUED)

This specifies the billing number if different from the telephone number (TN). The data is all numeric (decimal). To remove the bill to number, specify NO in the data field.

NOTE: A line is not allowed to have both a bill to number and special toll billing (keyword BLN).

Invalid keyword for special routing, intercept or coin line.

WATS nxx xxxx

WATS Billing Number:

This specifies a billing number for outward WATS lines. If 'NO' is specified, this billing feature is removed.

SER nxx xxxx

Series Completion Directory Number:

The office code must equal the office code specified for the telephone number (TN or NTN). The data is all numeric (decimal). To remove the series completion directory number, specify NO in the data field.

NOTE: A line is not allowed to have both call waiting service (keyword ESX) and series completion.

Invalid keyword for special routing, intercept or coin line.

TTC ttt

Touch-Tone Calling:

It may be used in TYPE NEW service orders to add TTC, or in TYPE CHG service orders to add or delete TTC. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

Invalid keyword for special routing or intercept.
Invalid keyword for manual line.

EL ttt

Essential Line (class A):

It may be used in TYPE NEW service orders to add EL, or in

(CONTINUED)

TYPE CHG service orders to add or delete EL. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

Invalid keyword for special routing or intercept.

GST ttt
Ground Start:

It may be used in TYPE NEW service orders to add GST, or in TYPE CHG service orders to add or delete GST. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

Invalid keyword for special routing or intercept.
Invalid keyword for manual line.

Do not use with keyword ESC.
See SD-3H120-01 for ground start rules.

TRC ttt
Trace:

This parameter generates a "REPT ICT FROM" output message as a result of a Call Trace. The alarm level is used to indicate where the traced call is to be reported. Valid entries for TRC are:

YES = NO ALARM - route call to the Annoyance Call Bureau
MN = MINOR ALARM - route call to the Security Center
MJ = MAJOR ALARM - route call to the Security Center
(not recommended)
NO = remove Call Trace

ESM ttt
Call Forwarding:

It may be used in TYPE NEW service orders to add Call Forwarding Service, or in TYPE CHG service orders to add or delete Call Forwarding Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

(CONTINUED)

RC:LINE

(CONTINUED)

RC:LINE

Invalid keyword for special routing, intercept or coin line.

ESC ttt

Three Way Calling:

It may be used in TYPE NEW service orders to add Three Way Calling Service, or in TYPE CHG service orders to add or delete Three Way Calling Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

Invalid keyword for special routing, intercept or coin line.

ESX ttt

Call Waiting Service:

It may be used in TYPE NEW service orders to add Call Waiting Service, or in TYPE CHG service orders to add or delete Call Waiting Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

NOTE: A line is not allowed to have both series completion (keyword SER) and call waiting service.

Invalid keyword for special routing, intercept or coin line.

ESL ttt

Speed Call 1-Digit Service:

It may be used in TYPE NEW service orders to add Speed Call 1-Digit Service, or in TYPE CHG service orders to add or delete Speed Call 1-Digit Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

Invalid keyword for special routing, intercept or coin line.

CSL1 ttt

Customer Changeable Speed Call 1-Digit Service:

(CONTINUED)

It may be used in TYPE NEW service orders to add Customer Change SC1 Service, or in TYPE CHG service orders to add or delete Customer Change SC1 Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

ESF ttt

Speed Call 2-Digit Service:

It may be used in TYPE NEW service orders to add Speed Call 2-Digit Service, or in TYPE CHG ~~service orders to add or delete~~ Speed Call 2-Digit Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

Invalid keyword for special routing, intercept or coin line.

CSL2 ttt

Customer Changeable Speed Call 2-Digit Service:

It may be used in TYPE NEW service orders to add Customer Change SC2 Service, or in TYPE CHG service orders to add or delete Customer Change SC2 Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

DP p ddd t or NO

Distributor Triplet: Used to provide a "sleeve lead" function. This keyword is not allowed if keyword DPU is specified.

Invalid keyword for special routing or intercept.

p =	peripheral pulse distributor	(0 through 1)
ddd =	peripheral decoder	(000 through 255)
t =	triplet	(0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

(CONTINUED)

DPM p ddd t or NO

Distributor Triplet for Message Registers:

p = periheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

Invalid keyword for special routing, intercept or coin line.

DPU p ddd t or NO

Distributor Triplet for Noise Immunity Line Circuit:

Because this distributor triplet also provides the "sleeve lead" function, keywords DP and DPU can not both be specified.

p = periheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

Invalid keyword for special routing or intercept.

DPCN p ddd t o or NO

Distributor Point for coin line circuit:

p = periheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)
o = point (0 through 2)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 0 is not allowed.

Invalid keyword for special routing or intercept.
Invalid keyword for manual line.

(CONTINUED)

RTI nnn

Route Index:

This is the route index to be used when the terminating major class is intercept, special routing, or denied service.

nnn = a 3-digit variable field.

Range is decimal 8 through whatever the maximum defined route index is for this office (max. 255).

If RTI is not specified and the terminating major class is intercept, the default value for intercept route index per office code specified will be used. If none has been specified for the office code, the program assumes 8.

NTN nxx xxxx

New Telephone Number: The data is all numeric (decimal).

The new telephone number assigned must have previously been in the unassigned state. This service order will automatically place the old TN in the unassigned condition. Any calls to TNs in the unassigned state will be routed to route index 10. If intercept service is desired, an additional service order is required to place the TN on intercept and to assign the desired route index.

Invalid keyword for special routing or intercept.

IOE gg cws i

New Terminal Equipment Number:

The new terminal equipment number must previously have been unassigned. This service order will automatically place the old OE in the unassigned state.

gg	= concentrator group	(01 through 15)
c	= concentrator	(0 through 1)
w	= switch group	(0 through 2)
s	= switch	(0 through 7)
i	= input level	(0 through 7)

Invalid keyword for special routing or intercept.
Invalid keyword for auto-connect lines.

SP ss rr pp or NO

Scan Point Number:

(CONTINUED)

SP should be specified for the following types of lines:

1. Individual lines requiring the remote make busy feature
2. Mobile radio lines
3. 1A concentrator lines
4. Group alerting lines
5. Subscriber loop multiplexor lines

The variable ss rr pp is the scan point number where:

ss = SCANNER number (00 through 15)
rr = ROW number (00 through 31)
pp = POINT in the row (00 through 15)

The value 00 00 00 is not allowed.

To remove the scan point number, specify NO in the data field.

BSY ttt

BuSY or reorder:

This keyword is used in conjunction with the keyword SP. It is used to specify whether busy tone or reorder tone will be returned to the calling party when the scan point is set (i.e. All channels busy, make busy key on, group alerting service activated). If ttt is YES busy tone will be returned. If ttt is NO reorder tone will be returned. If keyword BSY is not specified, reorder tone will be returned.

SOB ttt

Service Observing Feature:

It may be used in TYPE NEW service orders to add SOB, or in TYPE CHG service orders to add or delete SOB. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

BLN ttt

Special Toll Billing (QZ billing, ONI):

It may be used in TYPE NEW service orders to add BLN, or in TYPE CHG service orders to add or delete BLN. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

(CONTINUED)

NOTE: A line is not allowed to have both a bill to number (keyword BTN) and special toll billing.

Invalid keyword for special routing or intercept.
Invalid keyword for coin line.

HLN number

Hot Line Number:

This keyword is used to provide hot line service.
Only Manual lines are allowed to have this service.

number = Hot line number having one of the following forms:

1 npa nxx xxxx
npa nxx xxxx
1 nxx xxxx
nxx xxxx

To remove the hot line number, specify NO in the data field.

Invalid keyword for special routing or intercept.

MR nnnn

Software Message Register:

This keyword associates the line with a software message register. To remove software message register, specify NO in data field.

nnnn = a 4-digit message register index (max. 4095)

Invalid keyword for special routing or intercept.
Invalid keyword for coin line.

SS ttt

Special Studies Feature:

It may be used in TYPE NEW service orders to add SS, or in TYPE CHG service orders to add or delete SS. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

(CONTINUED)

Invalid keyword for special routing or intercept.

PLIT ttt

Prohibit Line Insulation Test:

It may be used in TYPE NEW service orders to add Prohibit Line Insulation Test, or in TYPE CHG service orders to add or delete Prohibit Line Insulation Test. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

ROH ttt

Inhibit Receiver Off-Hook Tone:

It may be used in TYPE NEW service orders to add Inhibit Receiver Off-Hook Tone, or in TYPE CHG service orders to add or delete Inhibit Receiver Off-Hook Tone. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

RMK ooooooooooooo OR OUT

oooooooooooo = 1 to 13 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3100-R form for the TN specified.

OUT = Remove the current remark (if any) now associated with the TN. If the remark was a 'general' remark the space available for general remarks is increased by one (max 31 per 100's grp).

Two types of remarks can be used with the 3100-R form:

1. General Remark (see NOTES below)

Any remark not exceeding 13 character. A maximum of 31 TN's per 100's group may have a 'general remark'. The TN may be assigned or unassigned.

(CONTINUED)

2. Unassigned Remark (see NOTES below)

Any one of the listed remarks below. An unassigned RMK is intended to be used for unassigned TN's (including 'intercept' with TMAJ=28; and 'special routing' with TMAJ=31).

RMK	Meaning of unassigned RMK
VAC	- vacant
RD	- resident disconnect
BD	- business disconnect
RC	- resident change
BC	- business change
DNA	- do not assign
PLA	- plant assignment
NP	- non published
MAN	- manual
ICP	- intercept
DLL	- dial long lines
PC	- public coin
SPC	- semi-public coin
RSV	- reserve

NOTE- 'unassigned RMKs' do not use up any space allocated to 'general RMKs' if the TN is unassigned.

NOTE- 'unassigned RMKs' are distinguished from 'general RMKs' when printed on the 3100-R form in that 'unassigned RMKs' are indented one space before they are printed.

NOTE- On TYPE 'NEW' orders if no RMK keyword is specified RMK OUT is the default.

NOTE- On TYPE 'OUT' orders the date of the out-order is recorded in memory until the TN is re-assigned. the date will automatically print out in the REMARKS column of the 3890-R form. The date is automatically included on the 3100-R form providing the remark stored is an 'unassigned' remark.

NOTE- On TYPE 'OUT' orders if the RMK keyword is not specified VAC is used as the default.

NOTE- If an NTN keyword is specified the RMK keyword is associated with the TN keyword and not the NTN keyword. The current remark stored on tape (if any) is first transferred to

(CONTINUED)

the NTN remark storage area on tape before processing the RMK keyword.

UCL YES or NO

This keyword is used to by-pass the line busy check. It should be used with extreme caution as it may cause translations to be changed out from a call in progress, leading to a possible machine initialization. The primary purpose is to allow OE's to be changed on high and dry lines, in which case use of UCL is safe. A RST:LINE message is required to open line cut-off relays after the reason for the permanent busy has been removed.

RTN npa nxx xxxx

Return Telephone Number:

This is the telephone number that will be automatically called by No. 3 ESS to establish a connection to this channel.

CLS nn

Message CLaSSs:

nn = a number from 0 to 15 specify the TTY message class that will be assigned to TTY controller.

- nn = 0 Maintenance
- = 1 Backup Maintenance
- = 2 Service Orders
- = 3 Traffic
- = 4 Repair Service Bureau
- = 5 Office Records
- = 6 Regional Accounting Office
- = 7 spare
- = 8 AMA Primary
- = 9 AMA Backup
- =10 ROTL data
- =11 spare
- =12 spare
- =13 spare
- =14 spare
- =15 spare

NOTE: The backup maintenance port assigned to TTYC1, PORT1 is a special case in that it also provides the miscellaneous

(CONTINUED)

auto-connect capability. Once RC:TTY defines TTYC1, PORT1 with n=1, that port can be used as a miscellaneous autoconnect port by any message class (n => 2) not uniquely assigned to a TTYC. The specific message classes assigned to the miscellaneous port are done when the trigger numbers are assigned with RC:LINE message.

TTYC n

TTY Controller Number:

n = a number from 0 to 7 specifying the TTY controller for this message class.

PORT n

TTY Port Number:

n = a number from 0 to 3 specifying the TTY port number for this message class.

AUTO ttt

Automatic Dialup Option:

ttt = YES if automatic dialup is desired. If this option is chosen, No. 3 ESS will automatically call the RTN whenever a message is ready for printing on the channel even if the trigger number was not dialed previously.

To remove automatic disconnect, specify 0 or NO.

This keyword is invalid for CLS equal to 0 or 1.

TO nnn

Time Out:

nnn = Number of seconds that the TTY channel can remain idle waiting for input before automatic disconnect. (max value = 360)

PRIOR nn

Priority:

nn = 0 through 15

Lowest priority is 0, highest priority is 15.
This keyword is reserved for future use.

(CONTINUED)

NDB YES or NO
No Dial-Back:

This keyword is reserved for future use.

tone n
Carrier Tone:

This defines the carrier tone of the data set.

- n = 0 high tone- normal auto-connect TTY or LTD
- = 1 2225 Hz tone - time 10 seconds
(Answer tone for 212a data set)

ETYP nn
Function:

- nn = 0 TTY
- = 1 spare
- = 2 spare
- = 3 ROTL data
- = 4 spare
- = 5 spare
- = 6 spare
- = 7 spare
- = 8 Local Test Desk trunk
- = 9 Remote Recording Announcement
- = 10 ROTL security
- = 11 spare
- = 12 spare
- = 13 spare
- = 14 spare
- = 15 spare
- = 32 TLTP0
- = 33 TLTP1
- = 34 FETLO
- = 35 FETL1

TER n
Member number in LTD trunk group or ROTL security member.
Required keyword when ETYP = 8 or 9.

NIGHT YES or NO
Night Desk:

(CONTINUED)

If YES is specified, then night LTD is called.
If NO is specified, the day LTD is called.

RAML ttt

ROTL: Remove Trunks Beyond Service Limit.

It may be used in TYPE NEW service orders to add allow ROTL to remove trunks beyond service limit, or in TYPE CHG service orders to add or delete allow ROTL to remove trunks beyond service limit. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

(CONTINUED)

RC:LINE

(CONTINUED)

RC:LINE

If the terminal is busy, the message will be aborted with an 'RL' response.

4. REFERENCES

PROGRAM REFERENCE: PR-3H043 RCLINE

Recent Change - Line Service Orders

CHL-MTC, SO

1. INPUT MESSAGE FORMAT

RC:MLHG/
ORD oooo/ Always required
TYP ttt/ Always required
HML gg/ Always required
LCC ttt/
RAX n/
BTN nxx xxxx/
TTC ttt/
EL ttt/
GST ttt/
ESC ttt/
ESL ttt/
CSL1 ttt/
ESF ttt/
CSL2 ttt/
SOB ttt/
BLN ttt/
HSZ nn/
NST nn or NO/
SKEY n/
SPN ss rr pp/
EHT nn or NO/
SCHED n/
SS YES or NO/
RMK oooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is the recent change message for Multi-line hunt group service orders. It is used to add, change, or remove Group information.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

(CONTINUED)

Each keyword is explained below.

ORD 0000

ORder Number: The range is from 0 through 9999.

TYP ttt

The TYPE of request. The three types for ttt are:

- NEW - This type is used when the multi-line hunt group data is to be setup for the first time.
- CHG - This type is used to change any of the existing multi-line hunt group data.
- OUT - This type is used to remove all the multi-line hunt group data.

HML nn

Group Number:

This keyword specifies the multi-line hunt group number. Range is decimal 0 through whatever the maximum defined multi-line hunt group number is for this office (max 63).

LCC ttt

Line Class Code:

This specifies what originating major class and screening class the group will have. Keyword RAX is used with LLC to determine the classes. If RAX is not specified, RAX is assumed to be zero.

CAUTION: Changing the LCC for the group changes the originating major class and screening class for the group but it does not change the LCC for individual members of the group.

RAX n

Rate Area Data:

This keyword is used with keyword LCC to determine the classes of service. If it is not used it is assumed to be zero. Range is decimal 0 through 7.

BTN nnx xxxx

(CONTINUED)

Bill to Number:

This specifies the billing number for the multi-line hunt group.

NOTE: A group is not allowed to have both a bill to number and special toll billing (keyword BLN).

TTC ttt

Touch-Tone Calling:

It may be used in TYPE NEW service orders to add TTC, or in TYPE CHG service orders to add or delete TTC. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

NOTE: If YES is specified, then all members of the group will have Touch-Tone service. If there are members within the group who will not have the service, then specify NO and provide the service on an individual member basis (message RC:MTL).

EL ttt

Essential Line (Class A):

It may be used in TYPE NEW service orders to add EL, or in TYPE CHG service orders to add or delete EL. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

NOTE: If YES is specified, then all members of the group will have Essential service. If there are members within the group who will not have the service, then specify NO and provide the service on an individual member basis (message RC:MTL).

GST ttt

Ground Start:

It may be used in TYPE NEW service orders to add GST, or in TYPE CHG service orders to add or delete GST. For this purpose ttt may be either YES or NO. Either YES or NO is required if

(CONTINUED)

this keyword is used.

See SD-3H120-01 for ground start rules.

NOTE: If YES is specified, then all members of the group will have Ground Start. If there are members within the group who will not have the service, then specify NO and provide the service on an individual member basis (message RC:MTL).

ESC ttt

Three Way Calling:

It may be used in TYPE NEW service orders to add Three Way Calling Service, or in TYPE CHG service orders to add or delete Three Way Calling Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

NOTE: If YES is specified, then all members of the group will have Three Way Service. If there are members within the group who will not have the service, then specify NO and provide the service on an individual member basis (message RC:MTL).

ESL ttt

Speed Call 1-Digit Service:

It may be used in TYPE NEW service orders to add Speed Call 1-Digit Service, or in TYPE CHG service orders to add or delete Speed Call 1-Digit Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

CSL1 ttt

Speed Call Change 1-Digit Service:

This feature allows the MLHG lines to dial in direct changes to the group's speed call 1-digit list. Before the group dialed change ability can be assigned to the group, the MLHG must have the speed calling (ESL) feature. To allow the group's members to change the SC list, specify YES for ttt. To deny the group's members the ability to change the SC list, specify NO for ttt.

(CONTINUED)

ESF ttt

Speed Call 2-Digit Service:

It may be used in TYPE NEW service orders to add Speed Call 2-Digit Service, or in TYPE CHG service orders to add or delete Speed Call 2-Digit Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

CSL2 ttt

Speed Call Change 2-Digit Service:

This feature allows the MLHG lines to dial in direct changes to the group's speed call 2-digit list. Before the group dialed change ability can be assigned to the group, the MLHG must have the speed calling (ESF) feature. To allow the group's members to change the SC list, specify YES for ttt. To deny the group's members the ability to change the SC list, specify NO for ttt.

SOB ttt

Service Observing Feature:

It may be used in TYPE NEW service orders to add SOB, or in TYPE CHG service orders to add or delete SOB. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

NOTE: If YES is specified, then all members of the group will have the Service Observing Feature. If there are members within the group who will not have the service, then specify NO and provide the service on an individual member basis (message RC:MTL).

BLN ttt

Special Toll Billing (QZ billing, ONI):

It may be used in TYPE NEW service orders to add BLN, or in TYPE CHG service orders to add or delete BLN. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

(CONTINUED)

NOTE: A group is not allowed to have both a bill to number (keyword BTN) and special toll billing.

NOTE: If YES is specified, then all members of the group will have Special Toll Billing. If there are members within the group who will not have the service, then specify NO and provide the service on an individual member basis (message RC:MTL).

HSZ nn

Last Huntatable Terminal Number for the group:

nn = last huntatable terminal number. Range is
0 through the largest terminal number.

NST nn or NO

Night Stop Terminal:

This keyword specifies the last terminal to be hunted when the night stop feature is activated. The number may be less than or equal to the HSZ. To remove the feature, specify NO in the data field.

SKEY n

Control Key:

- n = 1 for SPN associated with RMB key 1
- = 2 for SPN associated with RMB key 2
- = 3 for SPN associated with RMB key 3
- = 4 for SPN associated with RMB key 4
- = 5 for SPN associated with RMB key 5
- = 6 for SPN associated with RMB key 6
- = 7 for SPN associated with RMB key 7
- = 8 for SPN associated with NST key
- = 9 for SPN associated with EHT key

SPN ss rr pp

Scan Point Number:

Scan point number associated with SKEY function.

ss = scanner number
rr = row number
pp = point number

(CONTINUED)

EHT nn or NOStop Hunt Terminal:

This keyword specifies the last terminal to be hunted when the stop hunt feature is activated. The number may be less than or equal to the HSZ. To remove the feature, specify NO in the data field.

SCHED n or NOTraffic Schedule:

- n = 0 reserved
- = 1 reserved
- = 2 - H schedule
- = 3 - C schedule
- = 4 - D schedule

SS tttSpecial Studies Feature:

It may be used in TYPE NEW service orders to add SS, or in TYPE CHG service orders to add or delete SS. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

RMK 00000000000000 OR OUT

00000000000000 = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3105-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

(CONTINUED)

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H044 RCMLHG

Recent Change - Multi-Line Hunt Group Information

CHL=MTC, SO

1. INPUT MESSAGE FORMAT

RC:MPTY/
 ORD oooo/ Always required
 TYP ttt/ Always required
 TN nxx xxxx/ Always required
 PTY n/ Always required
 OE gg cws i/ Always required
 LCC ttt/
 RAX n/
 TTC YES or NO/
 EL YES or NO/
 TRC YES, MN, MJ, or NO/
 DP p ddd t or NO/
 DPU p ddd t or NO/
 RTI nnn/
 SP ss rr pp or NO/
 BSY YES or NO/
 NTN nxx xxxx/
 SOB YES or NO/
 SS YES or NO/
 PLIT YES or NO/
 ROH YES or NO/
 RMK oooooooooooooo or OUT/
 UCL YES or NO/
 END!

2. EXPLANATION OF MESSAGE

This message is the recent change message for multi-party line service orders. It is used to add, change, or remove line information. The line must be idle before this message will be accepted (except see keyword UCL below).

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

(CONTINUED)

Each keyword is explained below.

ORD oooo

ORDER Number: The range is from 0 through 9999.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW ENTRY
CHG - CHanGe an existing ENTRY
OUT - remove an existing ENTRY

TN nxx xxxx

Telephone Number: The data is all numeric (decimal).

PTY n

Party Number:

n = 1 through 8

A savings in program store is achieved if parties one through four of an OE are fully assigned before parties five through eight are assigned.

OE gg cws i

Terminal Equipment Number:

gg = concentrator group (01 through 15)
c = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

LCC ttt

Line Class Code:

This specifies what originating major class, terminating class, and screening class a line will have. Keyword RAX is used with LCC to determine the classes. if RAX is not specified, RAX is assumed to be zero.

RAX n

Rate Area Data:

(CONTINUED)

This keyword is used with keyword LCC to determine the classes of service. If it is not used it is assumed to be zero. Range is decimal 0 through 7.

TTC ttt

Touch-Tone Calling:

It may be used in TYPE NEW service orders to add TTC, or in TYPE CHG service orders to add or delete TTC. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

EL ttt

Essential Line (Class A):

It may be used in TYPE NEW service orders to add EL, or in TYPE CHG service orders to add or delete EL. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

TRC ttt

Trace:

This parameter generates a "REPT ICT FROM" output message as a result of a Call Trace. The alarm level is used to indicate where the traced call is to be reported. Valid entries for TRC are:

YES = NO ALARM - route call to the Annoyance Call Bureau
MN = MINOR ALARM - route call to the Security Center
MJ = MAJOR ALARM - route call to the Security Center
 (not recommended)
NO = remove Call Trace

DP p ddd t or NO

Distributor Triplet: Used to provide a "sleeve lead" function. Specifying a DP for one of the parties specifies the Distributor Point for all defined parties.

NOTE: A line is not allowed to have both a DP and a DPU.

```
p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder          (000 through 255)
t = triplet                      (0 through 3)
```

(CONTINUED)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

DPU p ddd t or NO

Distributor Triplet for Noise Immunity Line circuit:

Specifying a DPU for one of the parties specifies the DPU for all defined parties for that line.

NOTE: A line is not allowed to have both a DP and a DPU.

p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

RTI nnn

Route Index:

This route index is used when the terminating major class is denied service.

nnn = a 3-digit variable field.
Range is decimal 8 through whatever the maximum defined route index is for this office (max. 255).

SP ss rr pp or NO

Scan Point Number:

SP should be specified for the following types of lines:

1. Individual lines requiring the remote make busy feature
2. Mobile radio lines
3. 1A concentrator lines
4. Group alerting lines
5. Subscriber loop multiplexor lines

The variable ss rr pp is the scan point number where:

ss = SCANNER number (00 through 15)
rr = ROW number (00 through 31)

(CONTINUED)

pp = POINT in the row (00 through 15)

The value 00 00 00 is not allowed.

To remove the scan point number, specify NO in the data field.

BSY ttt

BuSY or reorder:

This keyword is used in conjunction with the keyword SP. It is used to specify whether busy tone or reorder tone will be returned to the calling party when the scan point is set (i.e. All channels busy, make busy key on, group alerting service activated). If ttt is YES busy tone will be returned. If ttt is NO reorder tone will be returned. If keyword BSY is not specified, reorder tone will be returned.

NTN nxx xxxx

New Telephone Number: The data is all numeric (decimal).

The new telephone number assigned must have previously been in the unassigned state. This service order will automatically place the old TN in the unassigned condition. Any calls to TNs in the unassigned condition will be routed to route index 10. If intercept service is desired, an additional service order is required to place the TN on intercept and to assign the desired route index.

SOB ttt

Service Observing Feature:

It may be used in TYPE NEW service orders to add SOB, or in TYPE CHG service orders to add or delete SOB. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

SS ttt

Special Studies Feature:

It may be used in TYPE NEW service orders to add SS, or in TYPE CHG service orders to add or delete SS. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

(CONTINUED)

PLIT ttt

Prohibit Line Insulation Test:

It may be used in TYPE NEW service orders to add Prohibit Line Insulation Test, or in TYPE CHG service orders to add or delete Prohibit Line Insulation Test. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

ROH ttt

Inhibit Receiver Off-Hook Tone:

It may be used in TYPE NEW service orders to add Inhibit Receiver Off-Hook Tone, or in TYPE CHG service orders to add or delete Inhibit Receiver Off-Hook Tone. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

RMK ooooooooooooo OR OUT

oooooooooooo = 1 to 13 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3100-R form for the TN specified.

OUT = Remove the current remark (if any) now associated with the TN. If the remark was a 'general' remark the space available for general remarks is increased by one (max 31 per 100's grp).

Two types of remarks can be used with the 3100-R form:

1. General Remark (see NOTES below)

Any remark not exceeding 13 character. A maximum of 31 TN's per 100's group may have a 'general remark'. The TN may be assigned or unassigned.

2. Unassigned Remark (see NOTES below)

Any one of the listed remarks below. An unassigned RMK is

(CONTINUED)

intended to be used for unassigned TN's (including 'intercept' with TMAJ=28; and 'special routing' with TMAJ=31).

RMK Meaning of unassigned RMK

VAC	- vacant
RD	- resident disconnect
BD	- business disconnect
RC	- resident change
BC	- business change
DNA	- do not assign
PLA	- plant assignment
NP	- non published
MAN	- manual
ICP	- intercept
DLL	- dial long lines
PC	- public coin
SPC	- semi-public coin
RSV	- reserve

NOTE- 'unassigned RMKs' do not use up any space allocated to 'general RMKs' if the TN is unassigned.

NOTE- 'unassigned RMKs' are distinguished from 'general RMKs' when printed on the 3100-R form in that 'unassigned RMKs' are indented one space before they are printed.

NOTE- On TYPE 'NEW' orders if no RMK keyword is specified RMK OUT is the default.

NOTE- On TYPE 'OUT' orders the date of the out-order is recorded in memory until the TN is re-assigned. the date will automatically print out in the REMARKS column of the 3890-R form. The date is automatically included on the 3100-R form providing the remark stored is an 'unassigned' remark.

NOTE- On TYPE 'OUT' orders if the RMK keyword is not specified VAC is used as the default.

NOTE- If an NTN keyword is specified the RMK keyword is associated with the TN keyword and not the NTN keyword. The current remark stored on tape (if any) is first transferred to the NTN remark storage area on tape before processing the RMK keyword.

(CONTINUED)

UCL YES or NO

This keyword is used to by-pass the line busy check. It should be used with extreme caution as it may cause translations to be changed out from a call in progress, leading to a possible machine initialization. The primary purpose is to allow OE's to be changed on high and dry lines, in which case use of UCL is safe. A RST:LINE message is required to open line cut-off relays after the reason for the permanent busy has been removed.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

If the terminal is busy, the message will be aborted with an 'RL' response.

(CONTINUED)

RC:MPTY

(CONTINUED)

RC:MPTY

4. REFERENCES

PROGRAM REFERENCE: PR-3H046 RC:MPTY

Recent Change - Multi-Party Line Service Orders

CHL=MTC, SO

RC:MTL

RC:MTL

1. INPUT MESSAGE FORMAT

RC:MTL/
ORD oooo/ Always required
TYP ttt/ Always required
TN nxx xxxx/ Always required
OE gg cws/ Always required
HML gg/
TER nn/
LCC ttt/
RAX n/
BTN nxx xxxx or NO/
TTC ttt/
EL YES or NO/
GST YES or NO/
TRC YES, MJ, MN or NO/
ESM YES or NO/
ESC YES or NO/
ESL YES or NO/
CSL1 YES or NO/
ESF YES or NO/
CSL2 YES or NO/
DP p ddd t or NO/
DPM p ddd t or NO/
DPU p ddd t or NO/
RTI nnn/
LHT nn/
SS YES or NO/
BLN YES or NO/
MR nnnn or NO/
SOB YES or NO/
IOE gg cws/
NTN nxx xxxx/
PLIT YES or NO/
ROH YES or NO/
RMB n/
RMK oooooooooooooo or OUT/
UCL YES or NO/
END!

2. EXPLANATION OF MESSAGE

This message is the recent change message for multi-line (Multi-Line Hunt Group terminal) service orders. It is used to add, change, or remove Line information. To add or change the Group features, use message RC:MLHG. The line must be idle before this message will be accepted (except see keyword UCL

(CONTINUED)

below).

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

ORD 0000

Order Number: The range is from 0 through 9999.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW ENTRY
CHG - CHanGe an existing ENTRY
OUT - remove an existing ENTRY

TN nxx xxxx

Telephone Number: The data is all numeric (decimal).

OE gg cws i

Terminal Equipment Number:

gg = concentrator group (01 through 15)
c = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

HML nn

This keyword specifies the multi-line hunt group number. range is decimal 0 through whatever maximum defined multi-line hunt group number is for the office (max. 63).

(CONTINUED)

TER nn

This is the multi-line hunt group terminal number assigned to the specified telephone number (TN). It is also the first hunt terminal number for this telephone number.

LCC ttt

Line Class Code:

This specifies what originating major class, terminating class, and screening class a line will have. keyword RAX is used with LLC to determine the classes. if RAX is not specified, RAX is assumed to be zero.

RAX n

Rate Area Data:

This keyword is used with keyword LCC to determine the classes of service. If it is not used it is assumed to be zero. Range is decimal 0 through 7.

BTN nxx xxxx

Bill to Number:

This specifies the billing number if different from the telephone number (TN). The data is all numeric (decimal). To remove the bill to number, specify NO in the data field.

NOTE: A line is not allowed to have both a bill to number and special toll billing (keyword BLN).

TTC ttt

Touch-Tone Calling:

It may be used in TYPE NEW service orders to add TTC, or in TYPE CHG service orders to add or delete TTC. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

EL ttt

Essential Line (class A):

(CONTINUED)

It may be used in TYPE NEW service orders to add EL, or in TYPE CHG service orders to add or delete EL. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

GST ttt

Ground Start:

It may be used in TYPE NEW service orders to add GST, or in TYPE CHG service orders to add or delete GST. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

See SD-3H120-01 for ground start rules.

TRC ttt

Trace:

This parameter generates a "REPT ICT FROM" output message as a result of a Call Trace. The alarm level is used to indicate where the traced call is to be reported. Valid entries for TRC are:

YES = NO ALARM - route call to the Annoyance Call Bureau
MN = MINOR ALARM - route call to the Security Center
MJ = MAJOR ALARM - route call to the Security Center
(not recommended)
NO = remove Call Trace

ESM ttt

Call Forwarding:

It may be used in TYPE NEW service orders to add Call Forwarding Service, or in TYPE CHG service orders to add or delete Call Forwarding Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

ESC ttt

Three Way Calling:

It may be used in TYPE NEW service orders to add Three Way

(CONTINUED)

Calling Service, or in TYPE CHG service orders to add or delete Three Way Calling Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

ESL ttt

Speed Call 1-Digit Service:

It may be used in TYPE NEW service orders to add Speed Call 1-Digit Service, or in TYPE CHG service orders to add or delete Speed Call 1-Digit Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

CSL1 YES or NO

It may be used in TYPE NEW service orders to add Customer Change Speed Call 1-Digit, or in TYPE CHG service orders to add or delete Customer Change Speed Call 1-Digit. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

This keyword requires ESL keyword.

ESF ttt

Speed Call 2-Digit Service:

It may be used in TYPE NEW service orders to add Speed Call 2-Digit Service, or in TYPE CHG service orders to add or delete Speed Call 2-Digit Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

CSL2 ttt

Customer Change SC2 Service:

It may be used in TYPE NEW service orders to add Customer Change SC2 Service, or in TYPE CHG service orders to add or delete Customer Change SC2 Service. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

(CONTINUED)

This keyword requires ESF keyword.

DP p ddd t or NO

Distributor Triplet: Used to provide a "sleeve lead" function. This keyword is not allowed if keyword DPU is specified.

p = periheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

DPM p ddd t or NO

Distributor Triplet for Message Registers:

p = periheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

DPU p ddd t or NO

Distributor Triplet for Noise Immunity Line circuit:

Because this distributor triplet also provides the "sleeve lead" function, keywords DP and DPU can not both be specified.

p = periheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

RTI nnn

Route Index:

(CONTINUED)

This is the route index to be used when the terminating major class is intercept, special routing, or denied service.

nnn = a 3-digit variable field.

Range is decimal 8 through whatever the maximum defined route index is for this office (max. 255).

LHT nn

Last Hunt Terminal:

This keyword specifies the last hunt terminal hunted for the given telephone number (keyword TN). The number may be less than or equal to the hunt size (keyword HSZ in RC:MLHG). If not specified, the terminal number (keyword TER) is used.

Range is 0 through 63.

SS ttt

Special Studies Feature:

It may be used in TYPE NEW service orders to add SS, or in TYPE CHG service orders to add or delete SS. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

BLN ttt

Special Toll Billing (QZ billing, ONI):

It may be used in TYPE NEW service orders to add BLN, or in TYPE CHG service orders to add or delete BLN. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

NOTE: A line is not allowed to have both a bill to number (keyword BTN) and special toll billing.

Specify only if different from the group.

MR nnnn

Software Message Register:

nnnn = 4-digit TELCO-assigned index which associates a customer to a message register.

(CONTINUED)

If 'NO' is specified in the data field, the message register feature is removed.

SOB tttService Observing Feature:

It may be used in TYPE NEW service orders to add SOB, or in TYPE CHG service orders to add or delete SOB. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

IOE gg cws iNew Terminal Equipment Number:

gg = concentrator group (01 through 15)
c = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

The new terminal equipment number must previously have been unassigned. This service order will automatically place the old OE in the unassigned state.

NTN nxx xxxxNew Telephone Number: The data is all numeric (decimal).

The new telephone number assigned must have previously been in the unassigned state. This service order will automatically place the old TN in the unassigned condition. Any calls to TNs in the unassigned state will be routed to route index 10. If intercept service is desired, an additional service order is required to place the TN on intercept and to assign the desired route index.

PLIT tttProhibit Line Insulation Test:

It may be used in TYPE NEW service orders to add Prohibit Line Insulation Test, or in TYPE CHG service orders to add or delete Prohibit Line Insulation Test. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

(CONTINUED)

ROH ttt

Inhibit Receiver Off-Hook Tone:

It may be used in TYPE NEW service orders to add Inhibit Receiver Off-Hook Tone, or in TYPE CHG service orders to add or delete Inhibit Receiver Off-Hook Tone. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

RMB n

Random Make Busy Key Number:

This keyword specifies what control digit a given terminal is to be assigned to. Range is 1 through 7. To remove the RMB, make variable n equal to 0.

RMK ooooooooooooo OR OUT

oooooooooooo = 1 to 13 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3100-R form for the TN specified.

OUT = Remove the current remark (if any) now associated with the TN. If the remark was a 'general' remark the space available for general remarks is increased by one (max 31 per 100's grp).

Two types of remarks can be used with the 3100-R form:

1. General Remark (see NOTES below)

Any remark not exceeding 13 character. A maximum of 31 TN's per 100's group may have a 'general remark'. The TN may be assigned or unassigned.

2. Unassigned Remark (see NOTES below)

Any one of the listed remarks below. An unassigned RMK is intended to be used for unassigned TN's (including 'intercept' with TMAJ=28; and 'special routing' with TMAJ=31).

(CONTINUED)

<u>RMK</u>	<u>Meaning of unassigned RMK</u>
VAC	- vacant
RD	- resident disconnect
BD	- business disconnect
RC	- resident change
BC	- business change
DNA	- do not assign
PLA	- plant assignment
NP	- non published
MAN	- manual
ICP	- intercept
DLL	- dial long lines
PC	- public coin
SPC	- semi-public coin
RSV	- reserve

NOTE- 'unassigned RMKs' do not use up any space allocated to 'general RMKs' if the TN is unassigned.

NOTE- 'unassigned RMKs' are distinguished from 'general RMKs' when printed on the 3100-R form in that 'unassigned RMKs' are indented one space before they are printed.

NOTE- On TYPE 'NEW' orders if no RMK keyword is specified RMK OUT is the default.

NOTE- On TYPE 'OUT' orders the date of the out-order is recorded in memory until the TN is re-assigned. the date will automatically print out in the REMARKS column of the 3890-R form. The date is automatically included on the 3100-R form providing the remark stored is an 'unassigned' remark.

NOTE- On TYPE 'OUT' orders if the RMK keyword is not specified VAC is used as the default.

NOTE- If an NTN keyword is specified the RMK keyword is associated with the TN keyword and not the NTN keyword. The current remark stored on tape (if any) is first transferred to the NTN remark storage area on tape before processing the RMK keyword.

UCL YES or NO

This keyword is used to by-pass the line busy check. It

(CONTINUED)

should be used with extreme caution as it may cause translations to be changed out from a call in progress, leading to a possible machine initialization. The primary purpose is to allow OE's to be changed on high and dry lines, in which case use of UCL is safe. A RST:LINE message is required to open line cut-off relays after the reason for the permanent busy has been removed.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR·nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

If the terminal is busy, the message will be aborted with an 'RL' response.

(CONTINUED)

RC:MTL

(CONTINUED)

RC:MTL

4. REFERENCES

PROGRAM REFERENCE: PR-3H047 RCMTL

Recent Change - Multi-Line Hunt Group Terminal Information

CHL-MTC, SO

RC:NG

RC:NG

1. INPUT MESSAGE FORMAT

RC:NG/
THDIG nxx t/ Always required
HDIG h/
CDI nnn or NO/
CUT YES or NO/
RTI nnn or NO/
RMK oooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is to be used: 1. When calls to a Thousands group are to be terminated in another office, or 2. It is used to indicate whether a hundreds group is awaiting cutover.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

THDIG nxx t
Thousands Digit:

nxx = 3-digit office code
t = thousands digit

HDIG h
Hundreds digit is 'h'.

Keywords HDIG and CUT are required when indicating a hundreds group is awaiting cutover.

(CONTINUED)

CDI nnn or NO

nnn = A 3-digit variable field.

Range is decimal 0 through whatever the maximum defined CODE INDEX is for this office (max. 255).

The CDI number must be an assigned number.

To remove the code index, specify NO in the data field.

CUT YES or NO

To indicate that a hundreds group is awaiting cutover, specify YES. To indicate that a hundreds group has been cutover, specify NO. Keyword HDIG is required.

RTI nnn or NO

Route Index:

nnn = a 3-digit variable field. (max. 255)

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3501-R form.

OUT = Remove the current remark (if any).

NOTE- If this keyword is not specified,
OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

(CONTINUED)

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H048 RCNG
Recent Change - Number Group Definitions

CHL-MTC

1. INPUT MESSAGE FORMAT

RC:ODIG/
TYP ttt/ Always required
TBL nn/ Always required
ODIG n/ Always required
CODE nxx/
NDE n/
NTBL nn/
RTI nnn/
RMK oooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message defines a new one-digit translation entry, changes an existing entry, or removes an existing entry. One-digit entries are associated with trunk group information (see message RC:GRP). The tables in this translator describe how calls coming in on a trunk are to be treated based upon the first incoming digit.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW 1-DIGIT ENTRY
CHG - CHAnGe an existing 1-DIGIT ENTRY
OUT - remove an existing 1-DIGIT ENTRY

(CONTINUED)

TBL nn

One-digit Table Number:

nn = one- or 2-digit table number.

Range 0 through whatever the maximum
defined TBL is for this office (max. 63).
Each table contains 10 entries.

ODIG n

One-digit:

n = one-digit number specifying the table entry.
Range is 0 through 9.

Calls to undefined entries are routed via
ROUTE INDEX 18. THEREFORE, ONLY VALID One
digit entries should be specified.

The number 'n' represents either the first
digit of a four-digit station number (X XXX),
the single directing digit (X-XXXX), or one of
two directing digits (XX-XXXX). If two
directing digits, the entry for the 1st digit
points to the next table (NTBL) to be
used in translating the 2nd digit.

CODE nxx

Office Code:

nxx = Three-digit office code.

When specified, keyword NDE is required
and keyword NTBL is not allowed.

NDE n

Number of Digits Expected:

n = one-digit number indicating the total number
of digits expected over a trunk.

Range is 4 through 6.

When specified, keyword CODE is required
and keyword NTBL is not allowed.

NTBL nn

Next One-Digit Table:

nn = one- or two-digit number specifying the
table to be used in translating the
next digit.

(CONTINUED)

If specified, keywords CODE and NDE
are not allowed.

RTI nnn

Route Index:

nn = a 3-digit variable field.

RMK 00000000000000 OR OUT

00000000000000 = 1 to 14 alphanumeric characters that will
appear in the 'REMARKS' field of the
output record 3209-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is
not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be
followed by the standard execute character (!). The END
can also be signaled by following the last keyword typed
by the execute character. Otherwise all keywords should
be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn
should follow giving the exact reason.

(CONTINUED)

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H049 RCODEG
Recent Change - One Digit Translator

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:OE/
ETYP n/ ALWAYS REQUIRED
OE gg cws i or NO/ ALWAYS REQUIRED
RMK 00000000000000 or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is used to specify miscellaneous Terminal Equipment Numbers.

ETYP n

- n = 2 => OE is the No Test terminal equipment number assigned to wire test multiple for even numbered concentrator groups.
- = 3 => OE is the No Test terminal equipment number assigned to wire test multiple for odd numbered concentrator groups.
- = 4 => OE is the No Test terminal equipment number assigned to circuit test multiple for even numbered concentrator groups.
- = 5 => OE is the No Test terminal equipment number assigned to circuit test multiple for odd numbered concentrator groups.

OE gg cws i

Terminal Equipment Number: See description of ETYP.

gg = concentrator group (01 through 15)
c = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

If NO is specified, the OE is removed.

(CONTINUED)

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3500-02-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

(CONTINUED)

RC:OE

(CONTINUED)

RC:OE

PROGRAM REFERENCE: PR-3H050 RCOE

Recent Change - Specify Miscellaneous Terminal Equipment

CHL-MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C377

RC:OFFICE

RC:OFFICE

1. INPUT MESSAGE FORMAT

RC:OFFICE/
NPA1 nnn/
NPA2 nnn/
NPA3 nnn/
NPA4 nnn/
ICS YES or NO/
DPG YES or NO/
ZPLUS YES or NO/
SUP YES or NO/
MOT YES or NO/
OID 0000000000000000/
CUPANELS YES or NO/
STLIM nnn/
JC n/
SVC n/
TRK n/
NETM n/
NETP n/
CFEM 000000/
MFEM 000000/
RANGE n /
MODE n/
PRECUT YES or NO/
EBS YES or NO/
AMA YES or NO/
SLU YES or NO/
TRF YES or NO/
CMPOBS YES or NO/
MODSIZ n/
MICRO n/
ICFP YES or NO/
ICDC YES or NO/
HIT YES or NO/
SET n/
RESET n/
RMK 0000000000000000 or OUT/
AMAID nnnnnn/
END!

2. EXPLANATION OF MESSAGE

This message is used to define the office options and the office identification.

(CONTINUED)

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

NPA1 nnn
Area Code:

The local area code of this office, or, if two local area codes are served, the numerically lower of the four.

nnn = 3-digit area code

NPA2 nnn
Area Code:

For offices serving two local NPA's; NPA2 must be numerically greater than NPA1.

nnn = 3-digit area code

NPA3 nnn
Area Code:

For offices serving three local NPA's; NPA3 must be numerically greater than NPA2.

nnn = 3-digit area code

NPA4 nnn
Area Code:

For offices serving four local NPA's; NPA4 must be numerically greater than NPA3.

nnn = 3-digit area code

(CONTINUED)

ICS YES or NO

Default value for keywords CSL1 and CSL2:

This keyword sets the default value for CSL1 and CSL2 as used by RC:LINE, RC:MTL, and RC:MLHG when the keywords ESL and or ESF is specified. ICS NO is the same as CSL1 and or CSL2 YES, and ICS YES is the same as CSL1 and or CSL2 NO. This default is used by recent change only, not by call processing. Unless otherwise specified, the default is to allow customer change of speed call. (ICS NO)

NOTE: This keyword should not be confused with ICDC keyword.

DPG YES or NO

Dial Pulse Receiver Group:

YES => Dial pulse receivers are provided.

NO => Dial pulse receivers are not provided. DP customers will use Touch Tone receivers.

ZPLUS YES or NO

0+ calls:

YES => 0+ calls allowed

NO => 0+ calls not allowed

SUP YES or NO

Superimposed ringing:

YES => Office has both superimposed and ac-dc ringing.

NO => Office has only ac-dc ringing.

MOT YES or NO

Minus One Thirty volts:

YES => Use -130v for coin collect
Use +130v for coin return

NO => Use +130v for coin collect
Use -130v for coin return

OID ooooooooooooo

Office Identification:

oooooooooooooooo = 1 to 14 alphanumeric office identifier which

(CONTINUED)

will appear on Teletype printouts.

The TTY office code identification may be a 6 digit number. The first 3 digits is the 'NPA' code and the last 3 digits is one of the office codes assigned to the office.

CUPANELS YES or NO

YES => The control units are equipped with control unit panels.

NO => The control units are not equipped with control unit panels.

This keyword is reserved for future use.

STLIM nnn

Store Limit:

nnn = 96, 128, ... , 256 (multiples of 32) and defines the upper bound in k-words of in-service store.

JC n

Junctor Circuit Diagnostic Rate:

n = one-digit number specifying the rate in which junctor circuit diagnostics are invoked.

0 = invalid (can not do all)

1 = one-half of circuits diagnosed each day

2 = one-fourth of circuits diagnosed each day

3 = one-eighth of circuits diagnosed each day

4 = one-sixteenth of circuits diagnosed each day

5 = one-thirty second of circuits diagnosed each day

SVC n

Service Circuit Diagnostic Rate:

n = one-digit number specifying the rate in which service circuit diagnostics are invoked.

0 = invalid (can not do all)

1 = one-half of circuits diagnosed each day

2 = one-fourth of circuits diagnosed each day

3 = one-eighth of circuits diagnosed each day

4 = one-sixteenth of circuits diagnosed each day

5 = one-thirty second of circuits diagnosed each day

(CONTINUED)

TRK n

Trunk Circuit Diagnostic Rate:

n = one-digit number specifying the rate in which trunk circuit diagnostics are invoked.

- 0 = invalid (can not do all)
- 1 = one-half of circuits diagnosed each day
- 2 = one-fourth of circuits diagnosed each day
- 3 = one-eighth of circuits diagnosed each day
- 4 = one-sixteenth of circuits diagnosed each day
- 5 = one-thirty second of circuits diagnosed each day

NETM n

Number of Equipped Control Frames for Maintenance:

n = 0 or 1

NETP n

Number of Equipped Control Frames for Call Processing:

n = 0 or 1

CFEM 000000

Call Processing Network Frames Equipped Mask:

000000 = 16-bit mask in octal

MFEM 000000

Maintenance Network Frames Equipped Mask:

000000 = 16-bit mask in octal

RANGE n

Range Subfield in ALIT:

- n = 1 for 80K ohms
- = 2 for 320K ohms
- = 4 for 2.56 megohms

MODE n

Mode Subfield in ALIT:

- n = 1 for short and ring to ground test

(CONTINUED)

- = 2 for tip and ring to ground test
- = 3 for short, tip and ring to ground test
- = 4 for foreign EMF test
- = 5 for foreign EMF, short and ring to ground test
- = 6 for foreign EMF, tip and ring to ground test
- = 7 for foreign EMF, short, tip and ring to ground test

PRECUT YES or NO

Precut State:

Defines whether or not the office is in the precut state.

EBS YES or NO

Reverse Tip and Ring for 911 Service

AMA YES or NO

Office is Equipped for AMARC

SLU YES or NO

Office has Subscriber Line Utilization

TRF YES or NO

Office has Traffic Sampling

CMPOBS YES or NO

Office has Complaint Observing

SLU, TRF, and CMPOBS comprise the special studies field and the three keywords are mutually exclusive.

MODSIZ n

Memory Module Size:

- n = 0 If MODSIZ is 32K (4K chips).
- n = 1 If MODSIZ is 128K (16K chips).

MICRO n

MICRO Store Equipped:

- n = 0 If single density, before LDIs 8A and 8B.
- n = 1 If double density, before LDIs 8A and 8B.
- n = 2 If LDIs 8A and 8B applied.
- n = 3 Single density with LDI 8A only.

(CONTINUED)

n = 4 Double density with LDI 8A only.

ICFP YES or NO

Inhibit Call Forwarding Print:

If YES is specified, inhibit printing a message every time a customer activates or deactivates his call forwarding service. If No is specified, allow the printing of a message every time the customer activates or deactivates his call forward service.

NOTE: The message printed is a record of the TN and the number to which it is forwarded. This information is needed to rebuild the call forward list in the event a memory reload from tape occurs.

ICDC YES or NO

Inhibit Customer Dialed Changes (that is, speed call or call forwarding) temporarily. ***** use with EXTREME CAUTION *****

If YES is specified, then all customers and RC:SCN and RC:CFN will be prevented from changing the digits in the speed call or call forwarding lists. This option is intended as a temporary maintenance feature only. Specifying ICDC NO is required to allow changes to the speed call and call forwarding lists.

Note: ICDC is a bit in temporary store and not translation store. Hence, if a STABLE initialization occurs, the bit is zeroed. This bit being zero is equivalent to ICDC NO.

HIT YES or NO

Hit Timing:

It may be used in TYPE NEW service orders to add hit timing, or in TYPE CHG service orders to add or delete hit timing. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

SET n

This message will set bit n in third word of office data. It is to be used for new features only.

RESET n

(CONTINUED)

This message will reset bit n in third word of office data. It is to be used for new features only.

AMAID nnnnnn

AMA IDentification:

This message is used to assign six-digit AMA terminal identification number required for AMARC.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3500-02-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

(CONTINUED)

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H051 RCOFIC

Recent Change - Office Identification Parameters

CHL-MTC

1. INPUT MESSAGE FORMAT

RC:QDUMP!

2. EXPLANATION OF MESSAGE

this message generates a printout of the quarter hourly data for the present and past 3 quarter hours.

3. SYSTEM RESPONSES

the response to this message is

REPT	TRF	mm/dd/yy	hh:mm:ss	ID	Q	l	hh:mm
QH	1	2	3	4	5	6	7
	11	12	13	14	15	16	
QH	.	.	.	.	.	.	.
QH	.	.	.	.	.	.	.
QH	.	.	.	.	.	.	.

In the header:

mm/dd/yy	indicates the current month, day, and year
hh:mm:ss	specifies the current hours, minutes, and seconds
ID	office identification
Q	indicates that quarter hour reports will follow
l	specifies the level of the last emergency action
hh:mm	gives the hours and minutes of the last emergency action

The report includes 4 quarter hour sections in the following order

Current quarter hour (averages and percents are not calculated). They are together total time of delay (in milliseconds X 80).

Past 15 minutes quarter hour

Past 30 minutes quarter hour

Past 45 minutes quarter hour

The traffic measurements printed are as follows

(CONTINUED)

1. Average dial pulse dial tone delay
2. Percent of dial pulse calls waiting more than 3 seconds for dial tone
3. Dial pulse originations
4. Number of dial pulse calls waiting more than 3 seconds for dial tone
5. Average touch tone dial tone delay
6. Percent of touch tone calls waiting more than 3 seconds for dial tone
7. Touch tone originations
8. Number of touch tone calls waiting more than 3 seconds for dial tone
9. Average MF receiver attachment delay
10. Percent of calls waiting more than 3 seconds for an MF receiver
11. Bids for an MF receiver
12. Number of calls waiting more than 3 seconds for an MF receiver
13. Longest base level loop (in 10s of milleseconds)
14. Number of base level loops over 150 mills.
15. Number of interrupts deferred
16. 100 sec dynamic service protection usage

4. REFERENCES

PR-3H090-02 RCQDUMP Recent Change Quarter Hourly
Traffic DUMP

CHL=MTC,MTR,TRF

1. INPUT MESSAGE FORMAT

RC:QH/
DED ttt/
TRF ttt/
MAINT ttt/
RMK 00000000000000 or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is used to specify whether or not there is a dedicated traffic channel, and where the Quarter Hourly reports should be printed.

This message is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data, followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!", or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

DED ttt

Specify the type of traffic channel. ttt may be
YES - There is a dedicated traffic channel. Print busy hour data on the traffic channel immediately after the busy hour.
NO - The office is non dedicated. Busy hour data should be stored on the tape cartridge.

TRF ttt

Quarter hour traffic reports. ttt may be
YES - Print Q reports on the dedicated traffic channel every 15 minutes. This is effective only when the office has a dedicated traffic channel.

(CONTINUED)

NO - Do not print Q reports every 15 minutes on the traffic channel.

MAINT ttt

Quarter hour traffic reports. ttt may be

YES - Print Q reports on the maintenance channel every 15 minutes.

NO - Do not print Q reports on the maintenance channel every 15 minutes.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3400-R form.

OUT = Remove the current remark (if any).

NOTE- If this keyword is not specified, OUT is the default.

The keyword "END" indicates that no more data follows. The preceeding message should be performed. END must be followed by the standard execute character (!). The end can also be signalled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message "TRF ERR nnnn" will follow giving the exact reason.

RL = The message should be Repeated Later. The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off line store is inaccessible.

OK = The message was OK and has been completed.

(CONTINUED)

RC:QH

(CONTINUED)

RC:QH

4. REFERENCES

PR-3H091 RCQH Recent Change Quarter Hourly &
Schedule Designation

CHL-MTC,MTR,TRF

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C391

1. INPUT MESSAGE FORMAT

RC:REPT/
TYP ttt/ Always required
SCHED n/ Always required
CLS nn/
ST nn mm/
RMK oooooooooooooo or OUT/
END nn mm!

2. EXPLANATION OF MESSAGE

This message is used to schedule busy hours (H), non busy hours (C), weekly periods (W), and the daily routines (D) which includes the office record printout, the daily schedule, and the nightly routines.

This message is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data, followed by a continue character (/). These segments may be entered in any order. The last input line must be a keyword and its corresponding data followed by an execute character.

The keywords are explained below.

TYP ttt

Indicates the type of change. ttt may be
NEW - To establish a new busy hour or other scheduled period.
OUT - To remove a current busy hour or other scheduled period.

SCHED n

Indicates the type of schedule. n may be
2 busy hour (H)
3 non busy hour (C)

(CONTINUED)

- 4 daily routine (D), office record printout, daily schedule, and nightly routines. (See NOTE1)
- 5 weekly (W)
- 7 software message registers (M)

CLS nn

Message CLaSSs:

nn = a number from 00 to 06 to specify the TTY message class for the TTY controller that the printout is be printed on. They are:

- 00 Maintenance
- 01 Backup Maintenance
- 02 Service Orders
- 03 Traffic
- 04 Repair Service
- 05 Office Records
- 06 Regional Accounting Office

This keyword CLS is only specified when SCHED 7 is specified. Also the message class inputted should have already been defined by the RC:TTY or RC:LINE input message.

ST nn mm (See NOTE1)

Specify the beginning of the scheduled period.

nn is the hour (00-23)

mm is the minutes (00 or 30)

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3400-R form.

OUT = Remove the current remark (if any).

NOTE- If this keyword is not specified,
OUT is the default.

END nn mm

Specify the end of the scheduled period.

nn is the hour (0-23)

mm is the minutes (00 or 30)

(CONTINUED)

The END keyword is required for the C schedule only, as it is the only schedule whose length can vary. A busy hour (H) is always defined as an hour, and is automatically ended by the program 1 hour after the time specified in the ST keyword. Similarly a W schedule period is always a half hour, and D schedule is always 24 hours.

NOTE1: DAILY ROUTINE DESCRIPTION

The inputting of the daily routine time controls the starting time of the office record printout and the start of the daily schedule and the printout of the registers on the daily schedule. Once the daily schedule printout starts the rest of the nightly functions including the nightly routines follow. The order of the functions controlled by the daily routine time are given below.

- 1) Office Record Printout
This printout is started 2 hours and 15 minutes before the daily routine time. And runs for 2 hours.
- 2) D schedule printout
This printout also include the zeroing of the the registers.
- 3) Traffic busy Hours
This is a printout of the busy hours stored on tape for the last 24 hours. If the busy hours printout hourly then there is no printout.
- 4) Message Register Printout
This printout is the reading of the software message registers and their associated telephone numbers.
- 5) Out Of Service Report
This printout is the report of all the out of service trunk and service circuits.
- 6) Set Selection Status Bits
Sets the selection status bits of spare members in PBX/MLH groups, service circuit groups and trunk groups.
- 7) Turns control of the Nightly Routines over to the General Scheduler Handler.

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message "TRF ERR nnnn" will follow giving the exact reason.

(CONTINUED)

RC:REPT

(CONTINUED)

RC:REPT

RL = The message should be Repeated Later. The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off line store is inaccessible.

OK = The message was OK and has been completed.

4. REFERENCES

PR-3H092 RCREPT Recent Change Traffic REPort Scheduling

CHL=MTC,MTR,TRF

1. INPUT MESSAGE FORMAT

RC:RTI/
TYP ttt/ Always required
RTI nnn/ Always required
ETYP nn/
GRP nnn/
ARTI nnn or NO/
DLT n or NO/
PFX nnn or NO/
FREE ttt/
TONE tt/
DIG nnn nnnn/
NPA nnn/
CODE nxx/
CRTI nnn or NO/
IRTI nnn or NO/
ORTI nnn or NO/
RMK oooooooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message adds, changes, or deletes a ROUTE INDEX expansion entry and its associated alternate route index expansion entry. This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a solidus (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an exclamation point (!). each keyword is explained below.

TYP ttt

The TYPE of service order. The three types for ttt are:

NEW - define a NEW route index
CHG - CHanGe an existing route index
OUT - remove an existing route index

RTI nnn

RouTe Index:

(CONTINUED)

nnn = a 3-digit variable field.

If ETYP = 1, then the range is 0 through 7. If ETYP is not 1, then the range is decimal 8 through whatever the maximum defined route index is for this office (max. 255).

ETYP nn

Entry TYPE: Required on NEW service orders and prohibited on CHG or OUT service orders.

The entry types are:

- 00 - reserved
- 01 - intraoffice
- 02 - ten-digit interoffice (no overlap outpulsing permitted)
- 03 - ten-digit interoffice (overlap outpulsing permitted)
- 04 - seven-digit interoffice (no overlap outpulsing permitted)
- 05 - seven-digit interoffice (overlap outpulsing permitted)
- 06 - reserved
- 07 - interoffice - all digits received (examples are n11 codes and intercept treatments)
- 8-15 - reserved
- 16 - vacant circuit group. Restricted to route index 13 through 17. May be used to skip steps in the partial dial or permanent signal treatment.
- 17 - vacant code operator - unknown number of digits expected.
- 18 - no outpulsing trunk group - 411, 611, 811, and operator trunks except vacant code operator.
- 19 - 30 sec. Tones
- 20 - tones with no timeout
- 21 - local announcement
- 22 - route to reorder
- 23 - station ringer test
- 24 - dialed digits are converted to the specified number.
- 25 - balance test line termination
- 26 - interrupted milliwatt test line termination
- 27 - synchronous test line termination
- 28 - loop around test line 0 termination
- 29 - loop around test line 1 termination
- 30 - short circuit test line termination
- 31 - open circuit test line termination
- 32 - charge test line termination
- 33 - continuous milliwatt test line termination

(CONTINUED)

- 34 - ac/dc open circuit test line
- 35 - reserved
- 36 - auto-connect routing
- ✓ 37 - ROTL input terminal

GRP nnn

GRouP Number (trunk or service circuit group):

The Group number must be an assigned number in the range 64 through 255.

nnn = a 3-digit variable field.
Range is decimal 64 through 255.

ARTI nnn or NO

AlternatE RouTe Index:

nnn = a 3-digit variable field.
range is decimal 8 through whatever the maximum defined route index is for this office (max. 255).
NO = Remove the alternate route index.

DLT n or NO

number of digits to DeLeTe:

n = range 0 through 7. Does not include prefix digits 0 or 1 since they are always deleted.
n = 7 deletes all the dialed digits.
n = 0 or NO => No digits are deleted

PFX nnn or NO

PreFiX digits:

nnn = One to three prefix digits
NO = Delete the prefix digits

FREE YES or NO

YES = All calls over the specified route are free calls (examples: 411, 611, 811, intercept, etc)
NO = Delete the free call feature

TONE HI or LO or NO

class of service TONE:

HI = use HIgh tone

(CONTINUED)

LO = use LOw tone
NO = delete the class of service tone

DIG nnn nnnn
conversion DIGits:

nnn nnnn = one to seven conversion digits (used with
call type 24)

NPA nnn
Area Code:

Defines the area code of the specified CODE for offices with
four local NPA's.

nnn = 3-digit area code

CODE nxx
Office Code:

nxx = 3-digit office code to be associated with the RTI.
CODE is not allowed for RTIs 8 through 255.

CRTI nnn
Cutover Route Index:

nnn = one- to 3-digit number for route indexes 0-7.
Range is 0 through 255 and it must be an assigned
route index.

To remove the Cutover Route Index, specify NO.

The CRTI can be used in one of two ways: It can be used before
cutover to route calls to the old office, or it can be used to
associate a regular post-cutover office code with a test office
code. the latter one allows full test access to all of the
hundreds groups defined for the post-cutover office code,
independent of whether those hundreds groups are defined as
working or not working.

IRTI nnn or NO
Intercept Route Index (system defaults to 8):

nnn = one- to three-digit number. Range is
8 through 255 and it must be an assigned
route index.

(CONTINUED)

To remove the Intercept Route Index, specify NO.

This route index is used by RC:LINE as default route index when line class code is intercept. A default intercept route index can be assigned per NPA.

ORTI nnn or NO

Office-to-office Test Route Index:

nnn = one- to three-digit number. Range is
8 through 255 and it must be an assigned
route index.

To remove the Office-to-office Route Index,
specify NO.

This route index is used before cutover to route office to office test calls to the old office for the purpose of making continuity tests on the precut lines.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will
appear in the 'REMARKS' field of the
output record 3303-1-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is
not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be
followed by the standard execute character (!). The END
can also be signaled by following the last keyword typed

(CONTINUED)

RC:RTI

(CONTINUED)

RC:RTI

by the execute character. Otherwise all keywords should be followed by the continue character (/).

(CONTINUED)

This table shows what keywords are required, optional, or not allowed as a function of the type of order (keyword TYP) and the entry type (keyword ETYP). Entry types not defined in the table are not allowed.

KEYWORD	ORDER TYPE (TYP)			ENTRY TYPE (KEYWORD ETYP)						
	NEW	CHG	OUT	1	2-5	7	17-18	19-21,36	16,35 22-23 25-34	24
TYP	R	R	R							
RTI	R	R	R							
ETYP	R	N	N							
GRP	R	O	N	*					*	*
ARTI	O	O	N	*			*	*	*	*
DLT	O	O	N	*			*	*	*	*
PFX	O	O	N	*			*	*	*	*
FREE	O	O	N	*						*
ZONE	O	O	N	*	*	*		*	*	*
DIG	R	O	N	*	*	*	*	*	*	
CODE	R	O	N		*	*	*	*	*	*
CRTI	O	O	N		*	*	*	*	*	*
IRTI	O	O	N		*	*	*	*	*	*
ORTI	O	O	N		*	*	*	*	*	*

Where:

(CONTINUED)

R = The keyword is required for this type of order
N = The keyword is not allowed for this type of order
O = The keyword is optional for this type of order
* = The keyword is not allowed for this entry type

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H054 RCRTI

Recent Change - Route Indices

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:SCHED/
OFT n/
PRE n/
CLS n/
ALK n/
BLK n/
TLU n/
END!

2. EXPLANATION OF MESSAGE

This message is used to assign a section of traffic measurements to a traffic schedule.

This message is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data, followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!", or a keyword and its corresponding data followed by an execute character (!).

There are 4 possible traffic schedules.

- 2 - H (busy hour)
- 3 - C (non busy hour-only in offices with a dedicated traffic channel)
- 4 - D (daily)
- 5 - W (weekly)

The following sections of measurements may be assigned to any one of the schedules indicated.

OFT	Office totals	2 or 3
PRE	Preroute	2,3, or 4
CLS	Class of Service	2,3, or 4
ALK	A Link	2,3,4, or 5
BLK	B Link	2,3,4, or 5
TLU	Terminal Usage	2,3, or 5

(CONTINUED)

If "NO" is specified instead of a schedule number in any message segment, the section of measurements is not assigned to any schedule and will not appear on any traffic report.

Each section of traffic measurements may only be assigned to 1 schedule at once.

The keyword "END" indicates that no more data follows. The preceeding message should be performed. END must be followed by the standard execute character (!). The end can also be signalled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message "TRF ERR nnnn" will follow giving the exact reason.

RL = The message should be Repeated Later. The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off line store is inaccessible.

OK = The message was OK and has been completed.

4. REFERENCES

PR-3H093 RCSCHE Recent Change Traffic
Measurement SCHEDuling

CHL=MTC,MTR,TRF

1. INPUT MESSAGE FORMAT

RC:SCN/	
ORD 0000/	Always required
TN nxx xxxx/	Always required
ADN nn/	Always required
DGS p npa nxx xxxx or NO/	Always required
OE gg cws i/	Always required
END!	

2. EXPLANATION OF MESSAGE

This message is used to change the speed calling list of a customer, given the telephone number. The customer must already have the speed call service.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

ORD 0000

Order Number: The range is 0000 to 9999.

TN nxx xxxx

Telephone Number: The data is all numeric (decimal).

ADN nn

Abbreviated Dial Number:

nn = One-digit (2-9) or 2-digit (20-49) code to be changed.

(CONTINUED)

DGS p npa nxx xxxx NO

Speed Call Number. The number to be associated with the given ADN may be any one of the following:

p npa nxx xxxx
npa nxx xxxx
p nxx xxxx
nxx xxxx
n11

Where p = prefix (1 or 0)

To remove a speed call number, specify NO for DGS.

OE gg cws i

Terminal Equipment Number:

gg = concentrator group (01 through 15)
c = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

(CONTINUED)

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H055 RCSCN

Recent Change - Change a Speed Calling List

CHL=MTC, SO

1. INPUT MESSAGE FORMAT

RC:SCR/
TYP ttt/ Always required
SCR nn/ Always required
SCRTBL nn/ Always required
RTI nnn or NO/
CHI na/
TD ttt/
RMK oooooooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message adds, changes, or deletes a SCREENING CLASS expansion entry.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW SCREENING TABLE ENTRY
CHG - CHanGe an existing SCREENING TABLE ENTRY
OUT - remove an existing SCREENING TABLE ENTRY

SCR nn

SCReening Class:

nn = a 2-digit variable field.
Range is decimal 0 through 62

(CONTINUED)

SCRTBL nn
SCReening TaBLe:

nn = a 2-digit variable field.
Range is decimal 0 through 63.

RTI nnn
RouTe Index:

nnn = a 3-digit variable field.
Range is decimal 8 through whatever the maximum
defined route index for this office (max. 255).
NO = Remove the route index.

CHI nn
CHarge Index:

nn = a 2-digit variable field.
Range is decimal 1 or 16 through 31.

1 = free call
16-31 = charged call

15 = Toll Call - Detail Bill

TD ttt
Toll Diversion:

It may be used in TYPE NEW service orders to add TD, or in
TYPE CHG service orders to add or delete TD. For this purpose
ttt may be either YES or NO. Either YES or NO is required if
this keyword is used.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will
appear in the 'REMARKS' field of the
output record 3301-R form.

(CONTINUED)

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H056 RCSCR

Recent Change - Screening Class Expansion Entry

CHL=MTC,

1. INPUT MESSAGE FORMAT

RC:SP/
TYP ttt/ Always required
SP ss rr pp/ Always required
ACT YES or NO/
USERID nn/
ALM n or NO/
CKT OPEN or CLOSED/
RMK oooooooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message defines, changes, or deletes a miscellaneous scan point in the master scanner (rows 16 through 27).

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW SCAN POINT ENTRY
CHG - CHanGe an existing SCAN POINT ENTRY
OUT - remove an existing SCAN POINT ENTRY

SP ss rr pp

Scan Point Number:

ss = SCANNER number = 00 (Master Scanner)
rr = ROW number (16 - 27)

(CONTINUED)

pp = POINT number (00 - 15)

ACT YES or NO/

Active Scan Point:

ttt = YES => activate the scan point
= NO => deactivate the scan point

USERID nn

This keyword defines the user group the point belongs to.

nn = user identification number: range is 0 through 63.

See NOTE 1 for fixed USERID assignments.

ALM n or NO

Alarm Class:

n = 0 => Alarm class determined internally (i.e. Fixed
under program control)
= 1 => Major
= 2 => Minor
= 3 => Major power
= 4 => Minor power
= 5 => Major fuse
= 6 => Minor fuse
= 7 => Critical

NO => Scan point is not an alarm scan point

CKT OPEN or CLOSED

Normal Circuit State:

If OPEN is specified, the circuit is normally open and the alarm will be caused by a closed (saturated ferrod) circuit.

If CLOSED is specified the circuit is normally closed and the alarm will be caused by an open (unsaturated ferrod) circuit.

(CONTINUED)

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3506-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

(CONTINUED)

The following table is a list of fixed and assignable scan points covered by this message, where:

O => OPEN circuit
C => CLOSED circuit

NOTE 1

The following userids are used for assignable scan points:

userid = 47 toll alarms (TOLL)
 = 46 carrier group alarms (CGA)
 = 45 misc. such as subscriber loop multiplexor
 alarms, loop switching system alarms, 1a
 concentrator alarms, or any other alarm not
 covered in the table. (MISCT)

The corresponding output messages for the above userids are:

rept toll r p xxxx norm
rept cga r p xxxx norm
rept misct r p xxxx ofn

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
RINGING AND TONE PLANT, SIDE 0 POINTS					
MANUAL OVERRIDE-FORCED (GEN 0)	22	03	49	00	C
FUSE ALARM (GENERATOR 0)	22	04	49	00	C
RING VOLTAGE INVERTER CHECK (GEN 0)	22	05	49	00	C
DIAL TONE LOW VOLTAGE (GEN 0)	22	06	49	00	O
LOW TONE LOW VOLTAGE (GEN 0)	22	07	49	00	O
AUDIBLE RING LOW VOLTAGE (GEN 0)	23	03	49	00	O
HIGH TONE LOW VOLTAGE (GEN 0)	23	04	49	00	O
CALL WAITING LOW VOLTAGE (GEN 0)	23	05	49	00	O
GROUND DETECTION (GEN 0)	23	06	49	00	O
RINGING AND TONE PLANT, SIDE 1 POINTS					
MANUAL OVERRIDE-FORCED (GEN 1)	16	11	50	00	C
FUSE ALARM (GENERATOR 1)	16	12	50	00	C
RING VOLTAGE INVERTER CHECK (GEN 1)	16	13	50	00	C
DIAL TONE LOW VOLTAGE (GEN 1)	16	14	50	00	O
LOW TONE LOW VOLTAGE (GEN 1)	16	15	50	00	O
AUDIBLE RING LOW VOLTAGE (GEN 1)	17	11	50	00	O
HIGH TONE LOW VOLTAGE (GEN 1)	17	12	50	00	O
CALL WAITING LOW VOLTAGE (GEN 1)	17	13	50	00	O
GROUND DETECTION (GEN 1)	17	14	50	00	O
RINGING AND TONE PLANT NON-DUPLICATED POINTS					
EMERGENCY MAN LINE OUTPUT (1/PLANT)	18	03	51	NO	C
RECEIVER OFF HOOK MONITOR (1/PLANT)	17	04	51	02	O
RINGING DISTRIBUTION FUSE ALARM	18	04	51	05	C
OVERLOAD ANNOUNCEMENT	17	03	51	NO	O
DIAL TONE DELAY ALARM	27	13	51	07	O
DIAL TONE DELAY ALARM INHIBIT	27	14	51	NO	O
DIAL TONE DELAY ALARM POWER	27	15	51	00	C

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
FCG PX GROUP ON CIRCUIT SIDE					
FALSE CROSS AND GROUND 0 - CKT SIDE	19	14	17	00	O
FALSE CROSS AND GROUND 0 - CKT SIDE	19	15	17	00	O
FALSE CROSS AND GROUND 1 - CKT SIDE	23	10	17	00	O
FALSE CROSS AND GROUND 1 - CKT SIDE	23	11	17	00	O
POWER CROSS 0 - CKT SIDE	20	14	17	00	O
POWER CROSS 1 - CKT SIDE	24	10	17	00	O
FCG AND PX GROUP ON WIRE SIDE					
FALSE CROSS AND GROUND - 0 WIRE SIDE	21	12	18	00	O
FALSE CROSS AND GROUND - 0 WIRE SIDE	21	13	18	00	O
FALSE CROSS AND GROUND 1 - WIRE SIDE	25	08	18	00	O
FALSE CROSS AND GROUND 1 - WIRE SIDE	25	09	18	00	O
POWER CROSS 0 - WIRE SIDE	22	12	18	00	O
POWER CROSS 1 - WIRE SIDE	27	07	18	00	O
MISCELLANEOUS NON-REPORTED POINTS					
REMOTE RECORDING MACHINE	18	15	19	00	O
REMOTE RECORDING MACHINE	18	14	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 1	16	04	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 2	20	15	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 3	21	11	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 4	23	08	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 5	23	09	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 6	21	03	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 7	21	04	19	00	O
RECORDED ANNOUNCEMENT MESSAGE 8	27	12	19	00	O

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
R AND T PLANT MISC. NON REPORTED POINTS					
TONE INTERRUPTOR (GENERATOR 0)	21	14	20	00	0
TONE INTERRUPTOR (GENERATOR 1)	27	11	20	00	0
RINGING AND TONE - ACTIVE PLANT	27	06	20	00	0
BUS TRANSFER ALARM(GEN 0)	23	07	20	00	0
BUS TRANSFER ALARM(GEN 1)	17	15	20	00	0
+24V POWER ALARMS					
+24V CONVERTER FAILURE	26	09	52	00	0
+24V FUSE ALARM	26	10	52	00	0
CONVERTER NO POWER ALARMS.					
+24V NO POWER ALARM	26	11	22	NO	0
130V CONVERTER ALARMS					
130V CONVERTER FAILURE	24	11	56	04	0
130V CONVERTER FUSE ALARM	24	12	56	06	0
130V CONVERTER MANUAL OFF	25	10	56	NO	0
+48V POWER ALARMS					
+48V CONVERTER FAILURE	27	08	57	03	0
+48V CONVERTER FUSE ALARM	27	09	57	05	0
+48V CONVERTER MANUAL OFF	27	10	57	NO	0

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
ALARMS FOR THE 151 POWER PLANT					
-48V RECTIFIER 1 FAILURE	16	00	53	03	0
-48V RECTIFIER 2 FAILURE	16	01	53	03	0
-48V RECTIFIER 3 FAILURE	16	02	53	03	0
-48V RECTIFIER 4 FAILURE	16	03	53	03	0
-48V RECTIFIER 5 FAILURE	17	00	53	03	0
-48V RECTIFIER 6 FAILURE	25	13	53	03	0
-48V RECTIFIER 7 FAILURE	25	14	53	03	0
-48V RECTIFIER 8 FAILURE	25	15	53	03	0
-48V HIGH VOLTAGE ALARM	17	01	53	03	0
-48V LOW LOW VOLTAGE ALARM	17	02	53	03	0
-48V LOW VOLTAGE ALARM	18	00	53	03	0
-48V MINOR FUSE ALARM	18	01	53	06	0
-48V FUSE ALARM	26	08	53	05	0
A-BUS,B-BUS INDICATORS FOR GPWR,MPWR,P48PWR					
CONVERTER FAILURE ON BUS A	22	08	21	NO	0
CONVERTER FAILURE ON BUS B	20	11	21	NO	0
TRUNK TEST PANEL GROUP A.					
ACCESS TRK 1 DISCONNECT SUPERVISION	24	06	16	NO	0
NO TEST VERTICAL REQUEST FOR TRK 1	24	07	16	NO	0
REQ ORDER ON CKT ASSOC WITH ACC TRK	24	08	16	NO	0
REQ ORDER ON JCTR ASSOC WITH ACC TRK	24	09	16	NO	0
OPERATE RELAY A IN CKT UNDER TEST	25	03	16	NO	0
OPERATE RELAY B IN CKT UNDER TEST	25	04	16	NO	0
OPERATE RELAY C IN CKT UNDER TEST	25	05	16	NO	0
APPLY RINGING TO ACCESS TRUNK	25	06	16	NO	0
EXECUTE REQUESTED ORDER	25	07	16	NO	0
ACCESS TRK 2 DISCONNECT SUPERVISION	26	03	16	NO	0
NO TEST VERTICAL REQUEST FOR TRK 2	26	04	16	NO	0
IDLE CKT ASSOC WITH ACC TRK	26	05	16	NO	0
BUSY CKT ASSOC WITH ACC TRK	26	06	16	NO	0
MARK ALL CKTS ON ASSOC PD BOARD OOS	26	07	16	NO	0
PD ROW DISPLACED FROM FIRST DTA	27	03	16	NO	0
PD ROW DISPLACED FROM FIRST DTA	27	04	16	NO	0

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
TLTP ACTIVATE OR DEACTIVATE.					
ACT OR DEACT T AND L TEST PANEL	27	05	48	NO	O
4A TIMER SCAN POINT					
USER GROUP FOR THE 4A TIMER SCAN POI	23	12	60	NO	O
CENTRAL CONTROL 0 POWER SCAN POINTS.					
BAY 0 MAJ POWER ALARM - FUSE	22	09	62	01	C
BAY 0 MIN POWER ALARM (SYC0)	22	10	62	02	C
BAY 0 POWER KEY INDICATOR (SYC0)	22	11	62	NO	C
POWER CONTROL POINTS FOR SYC0 UNITS					
CF 00 POWER SCAN POINTS (CODED FIELD	18	11	54	NO	C
CF 00 POWER SCAN POINTS (CODED FIELD	18	12	54	NO	C
CF 00 POWER SCAN POINTS (CODED FIELD	18	13	54	NO	C
CF 10 POWER SCAN POINTS (CODED FIELD	19	11	54	NO	C
CF 10 POWER SCAN POINTS (CODED FIELD	19	12	54	NO	C
CF 10 POWER SCAN POINTS (CODED FIELD	19	13	54	NO	C
CENTRAL CONTROL 1 POWER SCAN POINTS.					
BAY 1 MAJ POWER ALARM	24	03	63	01	C
BAY 1 MIN POWER ALARM (SYC1)	24	04	63	02	C
BAY 1 POWER KEY INDICATOR (SYC1)	24	05	63	NO	C

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
POWER CONTROL POINTS FOR SYC1 UNITS					
CF 01 POWER SCAN POINTS (CODED FIELD	20	00	55	NO	C
CF 01 POWER SCAN POINTS (CODED FIELD	20	01	55	NO	C
CF 01 POWER SCAN POINTS (CODED FIELD	20	02	55	NO	C
CF 11 POWER SCAN POINTS (CODED FIELD	21	00	55	NO	C
CF 11 POWER SCAN POINTS (CODED FIELD	21	01	55	NO	C
CF 11 POWER SCAN POINTS (CODED FIELD	21	02	55	NO	C
MISCELLANEOUS ALARMS					
TAPE DATA CONTR MAJOR POWER	19	00	58	05	C
TTY CONTROLLER MAJOR ALARM (0,1)	19	01	58	05	C
SYSTEM STATUS PANEL MAJOR POWER-FUSE	19	02	58	05	C
SYSTEM STATUS PANEL POWER SWITCH	19	03	58	00	C
EMERGENCY LINE TRANSFER	19	04	58	NO	C
CONVERTER OUT OF LIMIT MAINT FRAME	20	03	58	04	C
FUSE ALARM FOR TRKS, JCTRS, SVC CKTS	20	12	58	06	O
FUSE ALARM FOR LINE FERRODS	20	13	58	06	O
COMMERCIAL POWER FAILURE	25	12	58	03	O
AC DISTRIBUTION	26	12	58	03	O
BATTERY BOOST POWER ALARM	25	11	58	03	O
TOLL DISTRIBUTION FUSE ALARM	18	02	58	05	O
ALARM BATTERY SCAN POINT.					
ALARM BATTERY ALARM.	21	15	61	01	O

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
LOCAL TEST DESK SCAN POINTS.					
LOCAL TEST DESK NIGHT TRANSFER POINT	20	04	23	NO	0
LTD TRUNK 0 PILOT PULSE POINT	26	15	23	NO	0
LTD TRUNK 1 PILOT PULSE POINT	27	00	23	NO	0
BUILDING ALARMS					
FIRE - BUILDING ALARM 0	16	09	59	07	0
BUILDING ALARM 1	17	08	59	01	0
BUILDING ALARM 2	18	07	59	01	0
BUILDING ALARM 3	19	06	59	01	0
BUILDING ALARM 4	20	05	59	01	0
BUILDING ALARM 5	21	10	59	01	0
BUILDING ALARM 6	22	13	59	01	0
BUILDING ALARM 7	22	14	59	01	0
BUILDING ALARM 8	22	15	59	01	0
BUILDING ALARM 9	24	00	59	01	0
BUILDING ALARM 10	24	01	59	01	0
BUILDING ALARM 11	24	02	59	01	0
BUILDING ALARM 12	25	00	59	01	0
BUILDING ALARM 13	25	01	59	01	0
BUILDING ALARM 14	25	02	59	01	0
BUILDING ALARM 15	26	00	59	01	0

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
ASSIGNABLE SCAN POINTS FOR CGA, TOLL, AND MISC. ALARMS					
	16	05			
	16	06			
	16	07			
	16	08			
	16	10			
	17	05			
	17	06			
	17	07			
	17	09			
	17	10			
	18	05			
	18	06			
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	20	09			
	20	10			
	21	05			
	21	06			
	21	07			
	21	08			
	21	09			
22	00				
22	01				
22	02				
23	00				
23	01				
23	02				
23	13				

(CONTINUED)

DESCRIPTION	SP		USER ID	ALM	CKT
	RR	PP			
ASSIGNABLE SCAN POINTS FOR CGA,TOLL, AND MISC. ALARMS					
	23	14			
	23	15			
	24	13			
	24	14			
	24	15			
	26	01			
	26	02			
	26	13			
	26	14			
	27	01			
	27	02			

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H057 RCSP

(CONTINUED)

RC:SP

(CONTINUED)

RC:SP

Recent Change - Miscellaneous Scan Point Definition

CHL-MTC

1. INPUT MESSAGE FORMAT

RC:TLU/
TYP ttt/ Always required
TLU nn/ Always required
OE gg cws i/
END!

2. EXPLANATION OF MESSAGE

This message is used to assign OE's to the Terminal Line Usage list. Only defined OE's can be assigned. OE's defined for no test vertical can not be assigned to the list.

This message is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data, followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!", or a keyword and its corresponding data followed by an execute character (!).

The keywords are explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

- NEW - define a NEW entry.
- CHG - CHanGe an existing entry.
- OUT - remove an existing entry.

TLU nn

Terminal Line Usage register to be assigned. Valid range for TLU is 0 to 15. Only one OE can be assigned to a TLU.

OE gg cws i

Office Equipment number:

- gg = concentrator group (01 through 15)
- c = concentrator (0 through 1)
- w = switch group (0 through 2)

(CONTINUED)

s = switch (0 through 7)
i = input level (0 through 7)

The keyword "END" indicates that no more data follows. The preceding message should be performed. END must be followed by the standard execute character (!). The end can also be signalled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good). If NG is the response, the error message "TRF ERR nnnn" will follow giving the exact reason.

RL = The message should be Repeated Later. The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off line store is inaccessible.

OK = The message was OK and has been completed.

4. REFERENCES

PR-3H212 RCTLU - Recent Change Terminal Line Usage

CHL=MTC,MTR,TRF

1. INPUT MESSAGE FORMAT

RC:TOTANI/
TYP ttt/
TOTANI nn/
APT n/
NPA nxx or NO/
PBTN nnnnnnnn or NO/
OPTN nnnnnnnn or NO/
SYNC YES or NO/
RMK oooooooooooooo or OUT/
END!

or

RC:TOTANI/
TYP ttt/
TMBN nxx xxxx/
RMK oooooooooooooo or OUT/
END!

or

RC:TOTANI/
TYP ttt/
NPA nxx/
NWNPA nxx/
END!

2. EXPLANATION OF MESSAGE

The first form of this message is used to define a Terminal Office Test Access Number Index (TOTANI) by specifying the various test access numbers for automatic or manual trunk test.

The second form of this message is used to supply the Trunk Maintenance Billing Number which is used for billing on trunk maintenance calls.

The third form of this message is used to specify an area code that will be used in the first form of the message to indicate the NPA of the other office.

This recent change is active immediately upon successful

(CONTINUED)

completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW TOTANI
CHG - CHanGe an existing TOTANI
OUT - remove an existing TOTANI

If the third form of this message is used, CHG is not allowed.

TOTANI nn

One- or two-digit Terminal Office Test Access Number Index:

Range of TOTANI is 1 through 63.

TOTANI is required and can only be used on the first form of the message.

APT n

Automatic Progression Test Code:

n = 0 => no test is to be performed
= 1 => permanent busy test
= 2 => operational, synchronous test
= 3 => operational, non-synchronous test

NPA nxx

NPA Code:

In the third form of the message, the NPA specifies an allowed NPA. Up to three NPAs may be specified. To change a previously defined NPA use NWNPA and specify CHG for TYP. To remove a previously defined NPA specify OUT for TYP.

(CONTINUED)

In the first form of the message, NPA indicates the area code of the other office. It is specified only if the other office requires the area code to complete the test call and it must have been previously defined using the third form of the message. To remove a previously specified NPA, specify NO.

PBTN nnnnnnnn or NO

A three- to seven-digit number used to access the Permanent Busy Test line. Required if APT = 1.
To remove an existing PBTN, specify NO.

OPTN nnnnnnnn or NO

A three- to seven-digit number used to access the Operational Test line. Required if APT = 2 or 3.
To remove an existing OPTN, specify NO.

SYNC YES or NO

Synchronous operational test:

ttt = YES => OPTN is for the synchronous operational test.
= NO => OPTN is for the nonsynchronous operational test.

TMBN nxx xxxx

Trunk Maintenance Billing Number:

A seven-digit billing number used to satisfy test calls to the CAMA office.

NWNPA nxx

New NPA:

Used in the third form of the message to change a previously defined NPA.

nxx = Area Code

(CONTINUED)

RMK 00000000000000 OR OUT

00000000000000 = 1 to 14 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3505-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is not specified, OUT is the default.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

(CONTINUED)

RC:TOTANI

(CONTINUED)

RC:TOTANI

PROGRAM REFERENCE: PR-3H059 RCTOTA

Recent Change - Specify Terminal Office Test Access
Numbers

CHL-MTC

1. INPUT MESSAGE FORMAT

RC:TTY/
TYP ttt/ Always required
TTYC n/ Always required
CLS n/
PORT n/
HS YES or NO/
PAR ttt/
WRU ttt/
MON ttt/
RMK oooooooooooooo or OUT/
END!

2. EXPLANATION OF MESSAGE

This message is used to change a TTY controller or port. a controller can be added or deleted and parity characteristics can be changed. A port can be added or deleted, or its answer-back and send-receive characteristics can be changed. The TTYC can be deleted only after ALL ports have been deleted.

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

Each keyword is explained below.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW TTYC OR PORT
CHG - CHanGe an existing TTYC OR PORT
OUT - remove an existing TTYC OR PORT

(CONTINUED)

TTYC n
TTY Controller Number:

n = a number from 0 to 7 specifying the physical TTY controller.

CLS nn
Message CLaSSs:

nn = a number from 0 to 15 specify the TTY message class that will be assigned to TTY controller.

nn = 0 Maintenance
= 1 Backup Maintenance
= 2 Service Orders
= 3 Traffic
= 4 Repair Service Bureau
= 5 Office Records
= 6 Regional Accounting Office
= 7 spare
= 8 AMA Primary
= 9 AMA Backup
=10 ROTL data
=11 spare
=12 spare
=13 spare
=14 spare
=15 spare

NOTE: The backup maintenance port assigned to TTYC1, PORT1 is a special case in that it also provides the miscellaneous auto-connect capability. Once RC:TTY defines TTYC1, PORT1 with n=1, that port can be used as a miscellaneous autoconnect port by any message class (n => 2) not uniquely assigned to a TTYC. The specific message classes assigned to the miscellaneous port are done when the trigger numbers are assigned with RC:LINE message.

PORT n
TTY Port Number:

n = a number from 0 to 3 specifying the TTY port.
this item is used only if a port is being added, deleted, or changed.

HS YES or NO
High Speed TTY:

(CONTINUED)

If HS = YES, entry is defined as a high-speed device.
If HS = NO, high-speed definition is removed.

PAR ttt

Parity Check Option:

ttt = YES if all input characters are
to be checked for even parity

WRU ttt

Answer-Back Option:

ttt = YES if this port is to be tested via
the WRU-ACK sequence

This item is used only when defining or changing a TTY port.

MON ttt

MONitor Option:

YES if this port is monitor and its port status will follow the
status of ports 0 and 1. This is NOT a receive only option.
Receive only is only achieved via the hardware.

RMK oooooooooooooo OR OUT

oooooooooooooooo = 1 to 14 alphanumeric characters that will
appear in the 'REMARKS' field of the
output record 3500-3-R form.

OUT = Remove the current remark (if any).

NOTE- On TYPE 'NEW' orders if this keyword is
not specified, OUT is the default.

END

END of message:

(CONTINUED)

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

PROGRAM REFERENCE: PR-3H060 RCTTY.

Recent Change - TTY Definitions

CHL=MTC

1. INPUT MESSAGE FORMAT

RC:TWOPTY/
ORD oooo/ Always required
TYP ttt/ Always required
TN nxx xxxx/ Always required
OE gg cws/ Always required
PTY n/
LCC ttt/
RAX n/
TTC YES or NO/
EL YES or NO/
TRC YES, MJ, MN or NO/
DP p ddd t or NO/
DPM p ddd t or NO/
DPU p ddd t or NO/
RTI nnn/
SP ss rr pp or NO/
BSY YES or NO/
NTN nxx xxxx/
SS YES or NO/
SOB YES or NO/
MR nnnn or NO/
PLIT YES or NO/
ROH YES or NO/
RMK ooooooooooooo or OUT/
UCL YES or NO/
END!

2. EXPLANATION OF MESSAGE

This message is the recent change message for Two Party line service orders. It is used to add, change, or remove Line information. The line must be idle before this message will be accepted (except see keyword UCL below).

This recent change is active immediately upon successful completion of the message.

This is a linked message. The first input line is followed by several message segments, each consisting of a keyword and keyword data followed by a continue character (/). These segments may be entered in any order. The last input line must be "END!" or a keyword and its corresponding data followed by an execute character (!).

(CONTINUED)

Each keyword is explained below.

ORD 0000

ORDER Number: The range is from 0 through 9999.

TYP ttt

TYPE of service order. The three types for ttt are:

NEW - define a NEW ENTRY
CHG - CHanGe an existing ENTRY
OUT - remove an existing ENTRY

TN nxx xxxx

Telephone Number: The data is all numeric (decimal).

OE gg cws i

Terminal Equipment Number:

gg = concentrator group (01 through 15)
c = concentrator (0 through 1)
w = switch group (0 through 2)
s = switch (0 through 7)
i = input level (0 through 7)

PTY n

Party Number:

n = 1 or 2

LCC ttt

Line Class Code:

This specifies what originating major class, terminating class, and screening class a line will have. Keyword RAX is used with LCC to determine the classes. If RAX is not specified, RAX is assumed to be zero.

RAX n

Rate Area Data:

(CONTINUED)

This keyword is used with keyword LCC to determine the classes of service. If it is not used it is assumed to be zero. Range is decimal 0 through 7.

TTC ttt

Touch-Tone Calling:

It may be used in TYPE NEW service orders to add TTC, or in TYPE CHG service orders to add or delete TTC. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

EL ttt

Essential Line (Class A):

It may be used in TYPE NEW service orders to add EL, or in TYPE CHG service orders to add or delete EL. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

TRC ttt

Trace:

This parameter generates a "REPT ICT FROM" output message as a result of a Call Trace. The alarm level is used to indicate where the traced call is to be reported. Valid entries for TRC are:

YES = NO ALARM - route call to the Annoyance Call Bureau
MN = MINOR ALARM - route call to the Security Center
MJ = MAJOR ALARM - route call to the Security Center
 (not recommended)
NO = remove Call Trace

DP p ddd t or NO

Distributor Triplet: Used to provide a "sleeve lead" function.

NOTE: A line is not allowed to have both DP and DPU. Because both parties use the DP, a message for each party is required to define a DP.

p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)

(CONTINUED)

t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

DPM p ddd t or NO

Distributor Triplet for Message Registers:

p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

DPU p ddd t or NO

Distributor Triplet for Noise Immunity Line Circuit:

NOTE: A line is not allowed to have both DP and DPU. because both parties use the DPU, a message for each party is required to define a DPU.

p = peripheral pulse distributor (0 through 1)
ddd = peripheral decoder (000 through 255)
t = triplet (0 through 3)

To remove the distributor point, specify NO in the data field.

The value 0 0 000 is not allowed.

RTI nnn

Route Index:

This route index is used when the terminating major class is denied service.

nnn = a 3-digit variable field.
Range is decimal 8 through whatever the maximum defined route index is for this office (max. 255).

SP ss rr pp or NO

(CONTINUED)

Scan Point number:

SP should be specified for the following types of lines:

1. Individual lines requiring the remote make busy feature
2. Mobile radio lines
3. 1A concentrator lines
4. Group alerting lines
5. Subscriber loop multiplexor lines

The variable ss rr pp is the scan point number where:

ss = SCANNER number (00 through 15)
rr = ROW number (00 through 31)
pp = POINT in the row (00 through 15)

The value 00 00 00 is not allowed.

To remove the scan point number, specify NO in the data field.

BSY ttt

BuSY or reorder:

This keyword is used in conjunction with the keyword SP. It is used to specify whether busy tone or reorder tone will be returned to the calling party when the scan point is set (i.e. All channels busy, make busy key on, group alerting service activated). If ttt is YES busy tone will be returned. If ttt is NO reorder tone will be returned. If keyword BSY is not specified, reorder tone will be returned.

NTN nxx xxxx

New Telephone Number: The data is all numeric (decimal).

The new telephone number assigned must have previously been in the unassigned state. This service order will automatically place the old TN in the unassigned state. Any calls to TNs in the unassigned condition will be routed to ROUTE INDEX 10. IF INTERCEPT SERVICE IS DESIRED, an additional service order is required to place the TN on intercept and to assign the desired route index.

SS ttt

Special Studies Feature:

It may be used in TYPE NEW service orders to add SS, or in

(CONTINUED)

TYPE CHG service orders to add or delete SS. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

SOB ttt

Service Observing Feature:

It may be used in TYPE NEW service orders to add SOB, or in TYPE CHG service orders to add or delete SOB. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

MR nnnn

Software Message Register:

nnnn = 4-digit TELCO-assigned index associating a customer with a message register; if ' NO ' is specified, the feature is removed.

PLIT YES or NO

Prohibit Line Insulation Test:

It may be used in TYPE NEW service orders to add Prohibit Line Insulation Test, or in TYPE CHG service orders to add or delete Prohibit Line Insulation Test. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

ROH YES or NO

Inhibit Receiver Off-Hook Tone:

It may be used in TYPE NEW service orders to add Inhibit Receiver Off-Hook Tone, or in TYPE CHG service orders to add or delete Inhibit Receiver Off-Hook Tone. For this purpose ttt may be either YES or NO. Either YES or NO is required if this keyword is used.

RMK ooooooooooooo OR OUT

oooooooooooo = 1 to 13 alphanumeric characters that will appear in the 'REMARKS' field of the output record 3100-R form for the TN specified.

(CONTINUED)

OUT = Remove the current remark (if any) now associated with the TN. If the remark was a 'general' remark the space available for general remarks is increased by one (max 31 per 100's grp).

Two types of remarks can be used with the 3100-R form:

1. General Remark (see NOTES below)

Any remark not exceeding 13 character. A maximum of 31 TN's per 100's group may have a 'general remark'. The TN may be assigned or unassigned.

2. Unassigned Remark (see NOTES below)

Any one of the listed remarks below. An unassigned RMK is intended to be used for unassigned TN's (including 'intercept' with TMAJ=28; and 'special routing' with TMAJ=31).

RMK	<u>Meaning of unassigned RMK</u>
VAC	- vacant
RD	- resident disconnect
BD	- business disconnect
RC	- resident change
BC	- business change
DNA	- do not assign
PLA	- plant assignment
NP	- non published
MAN	- manual
ICP	- intercept
DLL	- dial long lines
PC	- public coin
SPC	- semi-public coin
RSV	- reserve

NOTE- 'unassigned RMKs' do not use up any space allocated to 'general RMKs' if the TN is unassigned.

NOTE- 'unassigned RMKs' are distinguished from 'general RMKs' when printed on the 3100-R form in that 'unassigned RMKs' are indented one space before they are printed.

(CONTINUED)

NOTE- On TYPE 'NEW' orders if no RMK keyword is specified RMK OUT is the default.

NOTE- On TYPE 'OUT' orders the date of the out-order is recorded in memory until the TN is re-assigned. the date will automatically print out in the REMARKS column of the 3890-R form. The date is automatically included on the 3100-R form providing the remark stored is an 'unassigned' remark.

NOTE- On TYPE 'OUT' orders if the RMK keyword is not specified VAC is used as the default.

NOTE- If an NTN keyword is specified the RMK keyword is associated with the TN keyword and not the NTN keyword. The current remark stored on tape (if any) is first transferred to the NTN remark storage area on tape before processing the RMK keyword.

UCL YES or NO

This keyword is used to by-pass the line busy check. It should be used with extreme caution as it may cause translations to be changed out from a call in progress, leading to a possible machine initialization. The primary purpose is to allow OE's to be changed on high and dry lines, in which case use of UCL is safe. A RST:LINE message is required to open line cut-off relays after the reason for the permanent busy has been removed.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

(CONTINUED)

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

If the terminal is busy, the message will be aborted with an 'RL' response.

4. REFERENCES

PROGRAM REFERENCE: PR-3H061 RCTWOP

Recent Change - Two-Party Line Service Orders

CHL=MTC,SO

RC:ZERO

RC:ZERO

1. INPUT MESSAGE FORMAT

RC:ZERO/
TN nxx xxxx/
OE gg cws i/
RTI nnn/
ZCF YES/
END!

2. EXPLANATION OF MESSAGE

This message is used to zero translation words that appear to be incorrect, and the normal RC message (RC:LINE, RC:MPTY, RC:TWOPTY, RC:RTI, or RC:MTL) is unable to correct the problem. Only one keyword at a time should be specified.

THIS REQUEST MUST BE USED WITH EXTREME CAUTION.

Caution must be used because this request will zero just the translation store words pointed to by the input data. Any expansion blocks pointed to by the data are not zeroed. Therefore, this request may leave garbage in translation store, but this data should never be accessed and will be deleted the next time the tables are packed.

Only one of the following keywords may be specified:

TN nxx xxxx

Telephone Number: Data field contains a seven-digit telephone number.

OE gg cws i

Terminal Equipment Number:

gg	= concentrator group	(01 through 15)
c	= concentrator	(0 through 1)
w	= switch group	(0 through 2)
s	= switch	(0 through 7)
i	= input level	(0 through 7)

RTI nnn

(CONTINUED)

Route Index expansion entry:

nnn = one- to 3-digit route index.

Range is 0 through the maximum defined RI entry
for this office.

ZCF YES

This message is to be used with extreme CAUTION, it will zero ALL of the telephone numbers in the call forwarding list.

END

END of message:

Indicates that no more data follows.

The preceding message should be performed. END must be followed by the standard execute character (!). The END can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by the continue character (/).

3. SYSTEM RESPONSES

NG = The message was not accepted (No Good).

If NG is the response, the error message RC ERR nnnn should follow giving the exact reason.

RL = The message should be Repeated Later.

The message might not be allowed because:

1. Reallocation of memory is in progress.
2. Or, off-line store is inaccessible.
3. Or, the PAST OFFICE DATA lamp is lit.
4. Or, the BAKDATE OFFICE DATA lamp is lit.

OK = The message was OK and has been completed.

4. REFERENCES

(CONTINUED)

RC:ZERO

(CONTINUED)

RC:ZERO

PROGRAM REFERENCE: PR-3H062 RCZERO

Recent Change - Zero Incorrect Office Data

CHL-MTC

REPT:CKT

REPT:CKT

1. INPUT MESSAGE FORMAT

REPT:CKT TRBL!

2. EXPLANATION OF MESSAGE

REPORT each peripheral Circuit TRouBLE. This message will cause the contents of the error analysis input buffer to be dumped by a TTY output message on the occurrence of every peripheral failure. it cancels the action performed by the STOP:CKT TRBL input message.

3. EXPLANATION OF VARIABLE FIELD

none

4. SYSTEM RESPONSES

OK

The request was accepted and completed.

NG

The request is already active.

5. REFERENCES

PR-3H261 TSVIOM

Trunk and Service Circuit IMOM Program

PR-3H256 TSVEA

Trunk, Line, Service Circuit and Network Line
Error Analysis

CHL=MTC

REPT:NWC

REPT:NWC

1. INPUT MESSAGE FORMAT

REPT:NWC TRBL!

2. EXPLANATION OF MESSAGE

When this input message is received the 'REPT NWC TRBL' output message will be printed subsequent to every occurrence of a potential NWC failure.

3. SYSTEM RESPONSES

'OK' Message was accepted.

'NG' Message already invoked.

4. REFERENCES

PR-3H254-03 PURC - PERIPHERAL FAULT RECOVERY

CHL-MTC,MTR

REPT:TAPE

REPT:TAPE

1. INPUT MESSAGE FORMAT

REPT:TAPE STAT!

2. EXPLANATION OF MESSAGE

Used to check status of tape units.

3. SYSTEM RESPONSES

PF Message has been accepted.

4. REFERENCES

PR-1C957-01 CTAPH Tape Handler Program

CHL-MTC

1. INPUT MESSAGE FORMAT

REPT:TRBL!

REPT:TRBL; wrd1!

2.. EXPLANATION OF MESSAGE

REPORt on peripheral circuit TRouBLE. The request may ask to report on all peripheral failures or on a specified peripheral failure. A maximum of three specified failures are allowed. The failure types are defined below.

NOTE: a REPORt TRouBLE request will initiate the Trunk and Service Cirucit Maintenance Aids Program (TSVMON).

3. EXPLANATION OF VARIABLE FIELD

wrd1 Is the PERIPHERAL FAILURE TYPE to be reported:

- CONT - CONTinuity failure
- RC - Ringing Continuity failure
- FCG - False Cross and Ground failure
- NWC - NetWork Controller error
- LLR - Low Leakage Resistance failure
- LCO - Line CutOff failure
- TTR - Touch-Tone Receiver error
- MFR - MF Receiver error
- FTO - False Trunk Origination error
- PST - Permanent Signal Timeout
- PDT - Partial Dial Timeout
- MFT - MF Transmitter error
- NSD - No Start Dial error
- EDP - Excessive Dial Pulse error
- ANIS - ANI Start failure
- CLC - Coin Line Circuit failure
- NCC - No-Coin Control failure
- SCC - StuCk-Coin control failure
- RVF - Restore VeriFy failure
- LCRV - Line Circuit Restore Verify failure
- PX - Power Cross failure

4. SYSTEM RESPONSES

(CONTINUED)

IP

The request was accepted and is in progress.

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL=MTC

RESET:DTDA

RESET:DTDA

1. INPUT MESSAGE FORMAT

RESET:DTDA!

2. EXPLANATION OF MESSAGE

RESET the Dial Tone Delay Alarm circuit. The DTDA alarm is silenced and the circuit is reactivated.

A TTY output message will be printed if the DTDA circuit inhibit control point changes state.

3. SYSTEM RESPONSES

OK = The request to activate was accepted.

NG = A problem was encountered while processing the request.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL-MTC

RESET:NW

RESET:NW

1. INPUT MESSAGE FORMAT

RESET:NW;COUNT!

2. EXPLANATION OF MESSAGE

Reset the Grid Error Count function. Any counting in progress is aborted and the Grid Error Count function is idled.

CAUTION

A RESET must be done if the Grid Error Count function is no longer needed or the problem being tracked down has been cleared.

3. SYSTEM RESPONSES

OK

The Grid Error Count function has been RESET.

NG

The Grid Error Count function is not allowed.

4. REFERENCES

PR-3H218 - GDCNT - Grid Error Count program
PK-3H301 - Network Trouble-Shooting Manual
BSP-233-153-145 - Remreed Network Fault Isolation Utilities

CHL-MTC

1. INPUT MESSAGE FORMAT

RMV:ALNK(a,bcd)!
RMV:ALNK(a,bcd);action-option!

2. EXPLANATION OF MESSAGE

ReMoVe a network A-LiNK (1st stage link) from service. the default case will place the single A-link in the out-of-service state on the condition that the out-of-service limit has not been reached for A-links in this concentrator or for A-links on the same input switch.

3. EXPLANATION OF VARIABLE FIELD

a is the CONCENTRATOR GROUP (1-15) of the link

b is the CONCENTRATOR (0-1) of the link

c is the OUTPUT SWITCH NUMBER (0-7) of the link

d is the OUTPUT SWITCH LEVEL (0-7) of the link

action-option

UCL - indicates an UNCONDITIONAL removal. The A-LINK will be removed from service without checking the out-of-service limit.

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. A busy

(CONTINUED)

RMV:ALNK

(CONTINUED)

RMV:ALNK

A-LINK is camped-on for 5 minutes and removed from service if it becomes idle during that time period. The STOP:CKT CMP input message may be used to cancel the camp-on activity.

NG

The current state of the A-LINK is the same as the state requested.

?I

The A-LINK identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ
Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL=MTC

1. INPUT MESSAGE FORMAT

RMV:BLNK(a,b)!
RMV:BLNK(a,b);action-option!

2. EXPLANATION OF MESSAGE

ReMoVe a network wire B-LiNK (2nd stage link) from service. the default case will place the single B-link in the out-of-service state on the condition that the out-of-service limit has not been reached for B-links in this concentrator group.

3. EXPLANATION OF VARIABLE FIELD

a is the CONCENTRATOR GROUP (1-15) of the link

b is the JUNCTOR SWITCH NUMBER (0-31) of the link

action-option

UCL - indicates an UNCONDITIONAL removal. The B-LINK will be removed from service without checking the out-of-service limit.

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. A busy B-LINK is camped-on for 5 minutes and removed from service if it becomes idle during that time period. The STOP:CKT CMP input message may be used to cancel the camp-on activity.

(CONTINUED)

RMV:BLNK

(CONTINUED)

RMV:BLNK

NG

The current state of the B-LINK is the same as the state requested.

?I

The B-LINK identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC

RMV:CU

RMV:CU

1. INPUT MESSAGE FORMAT

RMV:CU!

2. EXPLANATION OF MESSAGE

Used to remove the off-line CU from service. Removing the CU will place it in the OUT-OF-SERVICE MANUAL REMOVE state. This will prevent any normal switches of the system. Emergency switches will still occur.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The CU has been removed.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

1. INPUT MESSAGE FORMAT

RMV:GRID a ISW bc!
RMV:GRID a OSW d!
RMV:GRID a JSW e!

2. EXPLANATION OF MESSAGE

ReMoVe a network GRID form service. this message handles removing a 15A (first stage) or 15B (second stage) or 15C (third stage) network grid from service.

CAUTION: Care should be taken in using this message during busy hours because blocking can be increased drastically and removing a 15A (first stage) grid directly effects customer service.

3. EXPLANATION OF VARIABLE FIELD

a - is the CONCENTRATOR GROUP (1-15) of the grid.

ISW - Identifies this as a first stage (15A) grid.
the line/trunk/service-circuit of each terminal equipment number associated with this grid will be removed from service.

OSW - Identifies this as a second stage (15B) grid.
the wire B-links and junctor circuit B-links associated with this grid will be removed from service.

JSW - Identifies this as a third stage (15C) grid.
the junctor circuit B-links associated with this grid will be removed from service.

b - is the CONCENTRATOR (0-1) of the grid.
c - is the SWITCh GROUP (0-2) of the grid.
d - is the OUTPUT SWITCH NUMBER (0-7) of the grid.
e - is the JUNCTOR SWITCH NUMBER (0-31) of the grid.

4. SYSTEM RESPONSES

(CONTINUED)

IP -The request was accepted and is in progress.
a printout will follow to explain the action taken.

RL -All TCRs busy or mini-msf request buffer full
or another non-resident msf is active.

5. REFERENCES

PR-3H321-03 GRDUTL

CHL-MTC

1. INPUT MESSAGE FORMAT

RMV:JC(a,b)!
RMV:JC(a,b);action-option!
RMV:JC(a,b),PDG!
RMV:JC(a,b),FUSE!

2. EXPLANATION OF MESSAGE

ReMoVe a network Junctor Circuit B-link (2nd stage link) from service. the default case will place the single junctor in the out-of-service state on the condition that the out-of-service limit has not been reached for junctors in this concentrator group.

3. EXPLANATION OF VARIABLE FIELD

a is the CONCENTRATOR GROUP (1-15) of the link

b is the JUNCTOR SWITCH NUMBER (0-31) of the link

action-option

UCL - indicates an UNCONDITIONAL removal. The JUNCTOR will be removed from service without checking the out-of-service limit.

PDG

This JUNCTOR and all other circuits (8 maximum) associated with the same PERIPHERAL DECODER GROUP are removed from service unconditionally. Trunks are disabled, service circuits are locked-out, and junctors are placed out-of-service.

FUSE

The same as PDG except only the JUNCTORS (4 maximum) associated with the same FUSE pair (talk and signal) are removed from service. Power may then be removed from the board by pulling the associated fuse pair.

(CONTINUED)

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. A busy JUNCTION is camped-on for 5 minutes and removed from service if it becomes idle during that time period. The STOP:CKT CMP input message may be used to cancel the camp-on activity.

RL

The multiscan function request was denied. Repeat the request later.

NG

The current state of the JUNCTION is the same as the state requested.

?I

The JUNCTION identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ
Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC

RMV:LINE

RMV:LINE

1. INPUT MESSAGE FORMAT

RMV:LINE(a,bcde),TN f g!
RMV:LINE(a,bcde),TN f g:PLUGUP!

2. EXPLANATION OF MESSAGE

ReMoVe a LINE or unassigned terminal from service. The line will be placed in the out-of-service state and its cut-off contact will be opened. It will not be used to originate or terminate calls.

3. EXPLANATION OF VARIABLE FIELD

a bcde is the TERMINAL EQUIPMENT NUMBER of the line

- a - concentrator group (1-15)
- b - concentrator (0-1)
- c - switch group (0-2)
- d - switch (0-7)
- e - level (0-7)

f g is the TELEPHONE NUMBER of the line
(use 1st party for a multi-party line)
(not required for an unassigned terminal)

PLUGUP

In addition to being removed from service, the line is also placed on the plug-up list which causes terminating calls to be routed to intercept rather than receiving busy tone.

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

(CONTINUED)

IP

The request was accepted and is in progress. A busy LINE is camped-on for 5 minutes and removed from service if it becomes idle during that time period. The STOP:CKT CMP input message may be used to cancel the camp-on activity.

RL

All TCRs are busy. Repeat the request later.

NG

The current state of the LINE is the same as the state requested.

?I

The LINE identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL=MTC,RSB

1. INPUT MESSAGE FORMAT

RMV:NWC cs!

2. EXPLANATION OF MESSAGE

Manually ReMoVe a NetWork Controller (NWC) from service.

3. EXPLANATION OF VARIABLE FIELD

c - specifies the Control Frame the NWC is located on.

s - specifies the System Control the NWC is located on.

4. SYSTEM RESPONSES

'NG' will be printed whenever a removal request does not invoke any action. More specifically, a 'NG' will be printed if the c or s fields are out of range; the NWC is already out of service (OOS) or if the NWC is in the active state. (If an active NWC is desired to be manually removed from service, a SYNC switch must be performed to place the NWC in the standby state prior to the manual request.)

'IP' is printed whenever the NWC can be removed from service (placed in the OOS state). Upon completion of the removal the following message will be printed:

M tt RMV NWC cs ff.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

RMV:OW!

2. EXPLANATION OF MESSAGE

Remove (RMV) the overwrite (OW). Change the status of overwrite to dead. A dead overwrite can never be accessed again. The only place it will show up is in the census of the overwrite file requested by TTY input message OP:OWFILE. The overwrite number associated with the overwrite may be reused.

This message does not change any program data. To change data see TTY input message LOD:OW.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.
= request out of sequence - overwrite data is not present in the ow buffer.

RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

RMV OW COMPL

RMV OW STOPPED

(CONTINUED)

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

1. INPUT MESSAGE FORMAT

RMV:PPD cs!

2. EXPLANATION OF MESSAGE

Manually ReMoVe a Peripheral Pulse Distributor (PPD) from service.

3. EXPLANATION OF VARIABLE FIELD

c - specifies the Control Frame the PPD is located on.

s - specifies the System Control the PPD is located on.

4. SYSTEM RESPONSES

'NG' will be printed whenever a removal request does not invoke any action. More specifically, a 'NG' will be printed if the c or s fields are out of range; the PPD is already out of service (OOS) or if the PPD is in the active state. (If an active PPD is desired to be manually removed from service, a SYNC switch must be performed to place the PPD in the standby state prior to the manual request.)

'IP' is printed whenever the PPD can be removed from service (placed in the OOS state). Upon completion of the removal the following message will be printed:

M tt RMV PPD cs ff.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

1. INPUT MESSAGE FORMAT

RMV:RT p!

2. EXPLANATION OF MESSAGE

Manually ReMoVe a Ringing and Tone plant (RT) from service.

3. EXPLANATION OF VARIABLE FIELD

p - specifies which Ringing and Tone plant.

4. SYSTEM RESPONSES

'NG' will be printed whenever a removal request does not invoke any action. More specifically, a 'NG' will be printed if the p field is out of range; the RT is already out of service (OOS) or if the specified RT is in the active state. (If an active RT is desired to be manually removed from service, a RT switch must be performed to place the RT in the standby state prior to the manual request.)

'IP' is printed whenever the RT can be removed from service (placed in the OOS state). Upon completion of the removal the following message will be printed:

M tt RMV RT p ff.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

RMV:SC cs!

2. EXPLANATION OF MESSAGE

Manually ReMoVe a Scanner Controller (SC) from service.

3. EXPLANATION OF VARIABLE FIELD

c - specifies the Control Frame the SC is located on.

s - specifies the System Control the SC is located on.

4. SYSTEM RESPONSES

'NG' will be printed whenever a removal request does not invoke any action. More specifically, a 'NG' will be printed if the c or s fields are out of range; the SC is already out of service (OOS) or if the SC is in the active state. (If an active SC is desired to be manually removed from service, a SYNC switch must be performed to place the SC in the standby state prior to the manual request.)

'IP' is printed whenever the SC can be removed from service (placed in the OOS state). Upon completion of the removal the following message will be printed:

M tt RMV SC cs ff.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

RMV:SSP

RMV:SSP

1. INPUT MESSAGE FORMAT

RMV:SSP!

2. EXPLANATION OF MESSAGE

Used to remove the system status panel from service.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The SSP has been removed from service.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

1. INPUT MESSAGE FORMAT

RMV:SVC(a,b)!
RMV:SVC(a,b);action-option!
RMV:SVC(a,b),LKO;action-option!
RMV:SVC(a,b),PDG!
RMV:SVC(a,b),FUSE!

2. EXPLANATION OF MESSAGE

ReMoVe a SerVice Circuit from service. The default case will place the single service circuit in the locked-out state on the condition that the out-of-service limit has not been reached for this service circuit group.

3. EXPLANATION OF VARIABLE FIELD

a is the GROUP NUMBER (64-127) of the service circuit

b is the MEMBER NUMBER (0-127) of the service circuit

LKO

The SERVICE CIRCUIT will be placed in the LOCKED-OUT out-of-service state if possible. It will not be selected by call processing programs to perform its normal call handling functions.

action-option

UCL - indicates an UNCONDITIONAL removal. The SERVICE CIRCUIT will be removed from service without checking the out-of-service limit.

PDG

This SERVICE CIRCUIT and all other circuits (8 maximum) associated with the same PERIPHERAL DECODER GROUP are removed from service unconditionally. Trunks are disabled, service circuits are locked-out, and junctors are placed out-of-service.

FUSE

(CONTINUED)

The same as PDG except only the SERVICE CIRCUITS (4 maximum) associated with the same FUSE pair (talk and signal) are removed from service. Power may then be removed from the board by pulling the associated fuse pair.

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. A busy SERVICE CIRCUIT is camped-on for 5 minutes and removed from service if it becomes idle during that time period. The STOP:CKT CMP input message may be used to cancel the camp-on activity.

RL

The multiscan function request was denied. Repeat the request later.

NG

The current state of the SERVICE CIRCUIT is the same as the state requested.

?I

The SERVICE CIRCUIT identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC

RMV:TAPE

RMV:TAPE

1. INPUT MESSAGE FORMAT

RMV:TAPE x!

2. EXPLANATION OF MESSAGE

Used to remove a tape from service and activate panel buttons for unloading tape.

3. INPUT FIELDS

x Tape to be removed.

4. SYSTEM RESPONSES

OK Tape removed.

5. REFERENCES

PR-1C957-01 CTAPH Tape Handler Program

CHL-MTC

1. INPUT MESSAGE FORMAT

RMV:TRK(a,b)!
RMV:TRK(a,b);action-option!
RMV:TRK(a,b),LKO;action-option!
RMV:TRK(a,b),DSA;action-option!
RMV:TRK(a,b),PDG!
RMV:TRK(a,b),FUSE!

2. EXPLANATION OF MESSAGE

ReMoVe a TRUnK from service. The default case will place the single trunk in the locked-out state on the condition that the out-of-service limit has not been reached for this trunk group.

3. EXPLANATION OF VARIABLE FIELD

a is the GROUP NUMBER (128-255) of the trunk

b is the MEMBER NUMBER (0-127) of the trunk

LKO

The TRUNK will be placed in the LOCKED-OUT out-of-service state if possible. It will not be selected by call processing programs to perform its normal call handling functions. Two-way or incoming trunks in the LKO state will accept incoming calls.

DSA

The trunk will be placed in the DISABLED out-of-service state if possible. It will not be selected by call processing programs to perform its normal call handling functions and, in addition, all supervision will be ignored. Thus, no incoming calls will be accepted on this trunk.

action-option

UCL - indicates an UNCONDITIONAL removal. The TRUNK will be removed from service without checking the out-of-service limit.

(CONTINUED)

PDG

This TRUNK and all other circuits (8 maximum) associated with the same PERIPHERAL DECODER GROUP are removed from service unconditionally. Trunks are disabled, service circuits are locked-out, and junctors are placed out-of-service.

FUSE

The same as PDG except only the TRUNKs (4 maximum) associated with the same FUSE pair (talk and signal) are removed from service. Power may then be removed from the board by pulling the associated fuse pair.

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. A busy TRUNK is camped-on for 5 minutes and removed from service if it becomes idle during that time period. The STOP:CKT CMP input message may be used to cancel the camp-on activity.

RL

The multiscan function request was denied. Repeat the request later.

NG

The current state of the TRUNK is the same as the state requested or conflicts with the action requested.

?I

The TRUNK identification is in error or the message is constructed incorrectly.

(CONTINUED)

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC, SO

1. INPUT MESSAGE FORMAT

RMV:TTYC a,PORT b!

2. EXPLANATION OF MESSAGE

Remove a TTY controller or port from service. To remove an entire controller, the PORT phrase should be omitted. If the maintenance channel is removed, the system will sound an alarm and attempt to re-establish a maintenance channel using TTYC 0 or TTYC 1.

3. EXPLANATION OF VARIABLE FIELD

a specifies the TTY controller (0-7)
b specifies the port (0-3)

4. SYSTEM RESPONSES

IP if the action has been initiated. If any of the TTYC's ports have changed status, a REPT STAT TTYC message should be printed when the action is completed.
NG if the TTYC does not exist or is already out of service or if the port is already out of service.

5. REFERENCES

PR-3H259-02 TTYMAP - TTY MESSAGE ADMINISTRATION PROGRAM
PR-3H015-02 TTYAPP - APPLICATION TELETYPE COMPATIBILITY PROGRAM

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

RMV:TV t!
RMV:TV t;action-option!

2. EXPLANATION OF MESSAGE

ReMoVe a network Test Vertical link from service. The default case will place the single test vertical link in the out-of-service state on the condition that the out-of-service limit has not been reached for test verticals of this type.

3. EXPLANATION OF VARIABLE FIELD

t is the TEST VERTICAL TYPE

TC n ==> test vertical test circuit
TM m ==> test vertical test multiple
JC g ==> junctor test vertical
BLNK g ==> wire test vertical

n is the TV TC (Test Vertical Test Circuit)

where 0 ==> wire TV TC, low concentrator groups
1 ==> junctor TV TC, low concentrator groups
2 ==> wire TV TC, high concentrator groups
3 ==> junctor TV TC, high concentrator groups

m is the TV TM (Test Vertical Test Multiple)

where 0 ==> wire TV TM, even concentrator groups
1 ==> wire TV TM, odd concentrator groups
2 ==> junctor TV TM, even concentrator groups
3 ==> junctor TV TM, odd concentrator groups

g is the CONCENTRATOR GROUP (1-15) of the link

action-option

UCL - indicates an UNCONDITIONAL removal. The TEST VERTICAL will be removed from service without checking the out-of-service limit.

4. SYSTEM RESPONSES

(CONTINUED)

PF

The request was accepted and a printout will follow to explain the action taken.

RL

The test vertical is operator busy. Repeat the request later.

NG

The current state of the TEST VERTICAL is the same as the state requested.

?I

The TEST VERTICAL identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H319 TSVNR

Trunk, Line & Service Circuit Nonresident Routines

CHL-MTC

RST:ALNK

RST:ALNK

1. INPUT MESSAGE FORMAT

RST:ALNK(a,bcd)!

2. EXPLANATION OF MESSAGE

ReStore a network A-LiNK (1st stage link) to service. The single A-link is placed in the in-service idle state. There is no diagnostic to run.

3. EXPLANATION OF VARIABLE FIELD

- a is the CONCENTRATOR GROUP (1-15) of the link
- b is the CONCENTRATOR (0-1) of the link
- c is the OUTPUT SWITCH NUMBER (0-7) of the link
- d is the OUTPUT SWITCH LEVEL (0-7) of the link

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

NG

The current state of the A-LINK is the same as the state requested.

?I

The A-LINK identification is in error or the message is constructed incorrectly.

5. REFERENCES

(CONTINUED)

RST:ALNK

(CONTINUED)

RST:ALNK

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC

RST:BLNK

RST:BLNK

1. INPUT MESSAGE FORMAT

RST:BLNK(a,b)!

2. EXPLANATION OF MESSAGE

ReStore a network wire B-LINK (2nd stage link) to service. the single B-link is placed in the in-service idle state. there is no diagnostic to run.

3. EXPLANATION OF VARIABLE FIELD

a is the CONCENTRATOR GROUP (1-15) of the link

b is the JUNCTOR SWITCH NUMBER (0-31) of the link

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

NG

The current state of the B-LINK is the same as the state requested.

?I

The B-LINK identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link

(CONTINUED)

RST:BLNK

(CONTINUED)

RST:BLNK

TTY Message Handler

CHL-MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C486

RST:CU

RST:CU

1. INPUT MESSAGE FORMAT

RST:CU!
RST:CU;UCL!

2. EXPLANATION OF MESSAGE

Used to restore the off-line CU to service. This message requests diagnostics to be run and will do the restore only if they pass. To restore the CU immediately and independent of the results of the diagnostics, the unconditional action option may be used.

3. INPUT FIELDS

UCL = Restore CU immediately without running diagnostics.

4. SYSTEM RESPONSES

PF = Acknowledgement will be printed indicating either the completion of the restoral or that it was stopped due to the failure of diagnostics.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

1. INPUT MESSAGE FORMAT

RST:GRID a ISW bc!
RST:GRID a OSW d!
RST:GRID a JSW e!

2. EXPLANATION OF MESSAGE

ReStore a network GRID to service. this message handles restoring a 15A (first stage) or 15B (second stage) or 15C (third stage) network grid. the grid is place in the in-service idle state.

CAUTION: This has the effect of a unconditional restoral and is it suggested that the network be exercised before restoral. (see input message EX:NW)

3. EXPLANATION OF VARIABLE FIELD

a - is the CONCENTRATOR GROUP (1-15) of the grid.

ISW - Identifies this as a first stage (15A) grid.
the line/trunk/servic-circuit of each terminal equipment number associated with this grid will be restored to service.

OSW - Identifies this as a second stage (15B) grid.
the wire B-links and junctor circuit B-links associated with this grid will be restored to service.

JSW - Identifies this as a third stage (15C) grid.
the junctor circuit B-links associated with this grid will be restored to service.

b - is the CONCENTRATOR (0-1) of the grid.
c - is the SWITCH GROUP (0-2) of the grid.
d - is the OUTPUT SWITCH NUMBER (0-7) of the grid.
e - is the JUNCTOR SWITCH NUMBER (0-31) of the grid.

4. SYSTEM RESPONSES

(CONTINUED)

IP -The request was accepted and is in progress.
a printout will follow to explain the action taken.

RL -All TCRs busy or mini-msf request buffer full
or another non-resident msf is active.

5. REFERENCES

PR-3H321-C3 GRDUTL

CHL-MTC

1. INPUT MESSAGE FORMAT

RST:JC(a,b)!
RST:JC(a,b);action-option!
RST:JC(a,b),PDG;action-option!
RST:JC(a,b),FUSE;action-option!

2. EXPLANATION OF MESSAGE

ReStore a network Junctor Circuit B-link (2nd stage link) to service. the default case will place the single junctor in the in-service idle state on the condition that the diagnostic for this junctor passes.

3. EXPLANATION OF VARIABLE FIELD

a is the CONCENTRATOR GROUP (1-15) of the link

b is the JUNCTOR SWITCH NUMBER (0-31) of the link

action-option

UCL - indicates an UNCONDITIONAL restoral. The JUNCTOR is restored to service without first running the diagnostic for this JUNCTOR.

PDG

This JUNCTOR and all other circuits (8 maximum) associated with the same PERIPHERAL DECODER GROUP are restored to service. Whenever the PDG option is specified an initialization of both peripheral decoders, in the group, will be performed. Also, a diagnostic is run on each circuit unless the request is unconditional.

FUSE

The same as PDG except only the JUNCTORS (4 maximum) associated with the same FUSE pair (talk and signal) are restored to service. However, peripheral decoder initialization is NOT performed.

(CONTINUED)

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. For conditional requests, an out-of-service JUNCTOR is diagnosed before being restored to service.

RL

The diagnostic request buffer is full or, if PDG or FUSE was specified, then the multiscan function request was denied. Repeat the request later or specify an unconditional restoral.

NG

The current state of the JUNCTOR is the same as the state requested.

?I

The JUNCTOR identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL=MTC

RST:LINE

RST:LINE

1. INPUT MESSAGE FORMAT

RST:LINE(a,bcde),TN f g!
RST:LINE(a,bcde),TN f g;action-option!

2. EXPLANATION OF MESSAGE

ReStore a LINE or unassigned terminal to service. The line will be placed in the in-service idle state, its cut-off contact will be closed, and a restore verify test will be performed. if the line was plugged-up, it will be removed from the plug-up list.

Note: The restore verify test is not performed if the required test vertical is unavailable. Also the cut-off contact of an unassigned terminal is not closed unless the request is unconditional.

3. EXPLANATION OF VARIABLE FIELD

a bcde is the TERMINAL EQUIPMENT NUMBER of the line
a - concentrator group (1-15)
b - concentrator (0-1)
c - switch group (0-2)
d - switch (0-7)
e - level (0-7)

f g is the TELEPHONE NUMBER of the line
(use 1st party for a multi-party line)
(not required for an unassigned terminal)

action-option

UCL - indicates an UNCONDITIONAL restoral. The cut-off contact of an unassigned terminal is closed.

4. SYSTEM RESPONSES

(CONTINUED)

RST:LINE

(CONTINUED)

RST:LINE

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress.

RL

All TCRs or all paths are busy. Repeat the request later.

NG

The current state of the LINE is the same as the state requested.

?I

The LINE identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL=MTC,RSB

RST:NWC

RST:NWC

1. INPUT MESSAGE FORMAT

RST:NWC cs!
RST:NWC cs;UCL

2. EXPLANATION OF MESSAGE

ReStore an out of service (OOS) NetWork Controller (NWC) to service.

The restoral request will run the diagnostic tests for the NWC to be restored and if all tests pass the NWC will be marked as standby in the status table. Also, the NWC lamp on the system status panel will be turned off if no other network controllers on the nonactive SYC are OOS.

If the optional UnConditional field is specified the diagnostic tests will not be run and the restoral will be completed as if all the tests had passed.

3. EXPLANATION OF VARIABLE FIELD

c - specifies the Control Frame the NWC is located on.

s - specifies the System Control the NWC is located on.

4. SYSTEM RESPONSES

'NG' will be printed whenever the restoral request does not invoke any action. More specifically, a 'NG' will be printed if the c or s fields are out of range or if the NWC is in the standby or active states.

'IP' is printed whenever an attempt will be made to restore the NWC to service.

(CONTINUED)

DIAGNOSTIC TEST FAILURES

If a diagnostic test fails TLM information will be printed and the NWC will not be restored to service.

ALL DIAGNOSTIC TESTS PASS OR UCL REQUESTS

Upon the successful completion of a NWC restoral the following message will be printed:

M tt RST NWC cs COMPL.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

RST:PCF cs!
RST:PCF cs;UCL

2. EXPLANATION OF MESSAGE

ReStore any out of service (OOS) peripheral controllers on a Peripheral Control Frame.

This restoral request will run the diagnostic tests for any peripheral controllers (SC, NWC or PPD) on the specified peripheral control frame that are marked out of service (OOS). If the diagnostic tests pass the peripheral controllers will be marked as standby in the status table. also, the known fault list (FLT LIST) will be checked for any associated entries and will remove them from the list.

If the optional UnConditional field is specified the diagnostic tests will not be run and the restoral will be completed as if all the tests had passed.

3. EXPLANATION OF VARIABLE FIELD

c - specifies which Peripheral Control Frame on a System Control is to be restored.

s - specifies which System Control the Peripheral Control Frame is located on.

4. SYSTEM RESPONSES

'NG' will be printed whenever the restoral request does not invoke any action. More specifically, a 'NG' will be printed if the c or s fields are out of range or if all the peripherals are in the standby or active states.

(CONTINUED)

'IP' is printed whenever an attempt will be made to restore at least one peripheral controller to service.

DIAGNOSTIC TEST FAILURES

If a diagnostic test fails TLM information for that controller will be printed and the peripheral controller that failed the test will not be restored to service.

ALL DIAGNOSTIC TESTS PASS OR UCL REQUESTS

Upon the successful completion of each peripheral controller restoral one of the following messages will be printed:

M tt RST SC cs COMPL,

M tt RST NWC cs COMPL,

or

M tt RST PPD cs COMPL.

If any scan matrix entries in the known fault list are removed messages of the following types will be printed:

M REPT SM m ROW r TRBL CLR

or

M REPT SM m COL cc TRBL CLR.

If any peripheral decoder entries in the known fault list are removed a message of the following type will be printed:

M REPT PD c q TRBL CLR.

(CONTINUED)

RST:PCF

(CONTINUED)

RST:PCF

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

1. INPUT MESSAGE FORMAT

RST:PPD cs!
RST:PPD cs;UCL

2. EXPLANATION OF MESSAGE

ReStore an out of service (OOS) Peripheral Pulse Distributor (PPD) to service.

The restoral request will run the diagnostic tests for the PPD to be restored and if all tests pass the PPD will be marked as standby in the status table. The known fault list will then be checked and any associated entries will be removed from the list. Also, the PPD lamp on the system status panel will be turned off if no other PPDs on the nonactive SYC are OOS.

If the optional UnConditional field is specified the diagnostic tests will not be run and the restoral will be completed as if all the tests had passed.

3. EXPLANATION OF VARIABLE FIELD

c - specifies the Control Frame the PPD is located on.

s - specifies the System Control the PPD is located on.

4. SYSTEM RESPONSES

'NG' will be printed whenever the restoral request does not invoke any action. More specifically, a 'NG' will be printed if the c or s fields are out of range or if the PPD is in the standby or active states.

(CONTINUED)

RST:PPD

(CONTINUED)

RST:PPD

'IP' is printed whenever an attempt will be made to restore the PPD to service.

DIAGNOSTIC TEST FAILURES

If a diagnostic test fails TLM information will be printed and the PPD will not be restored to service.

ALL DIAGNOSTIC TESTS PASS OR UCL REQUESTS

Upon the successful completion of a PPD restoral the following message will be printed:

M tt RST PPD cs COMPL.

If any peripheral decoder entries in the known fault list are removed a message of the following type will be printed:

M REPT PD c q TRBL CLR.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY.

CHL-MTC,MTR

RST:RT

RST:RT

1. INPUT MESSAGE FORMAT

RST:RT p[;UCL]!

2. EXPLANATION OF MESSAGE

ReStore an out of service (OOS) Ringing and Tone plant (RT) to service.

The restoral request will run the diagnostic tests for the RT to be restored and if all tests pass the RT will be marked as standby in the status table and both ringing and tone plants will be rechecked by the recovery routine. Also, the RT lamp on the system status panel will be turned off if the other side of the RT is not OOS.

If the optional UnConditional field is specified the diagnostic tests will not be run and the restoral will be completed as if all the tests had passed.

3. EXPLANATION OF VARIABLE FIELD

p - specifies which Ringing and Tone plant.

4. SYSTEM RESPONSES

'NG' will be printed whenever the restoral request does not invoke any action. More specifically, a 'NG' will be printed if the p field is out of range or if the RT is in the standby or active states.

'IP' is printed whenever an attempt will be made to restore the RT to service.

DIAGNOSTIC TEST FAILURES

(CONTINUED)

RST:RT

(CONTINUED)

RST:RT

If a diagnostic test fails TLM information will be printed and the RT will not be restored to service.

ALL DIAGNOSTIC TESTS PASS OR UCL REQUESTS

Upon the successful completion of a RT restoral the following message will be printed:

M tt RST RT p COMPL.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

RST:SC

RST:SC

1. INPUT MESSAGE FORMAT

RST:SC cs!
RST:SC cs;UCL

2. EXPLANATION OF MESSAGE

ReStore an out of service (OOS) Scanner Controller (SC) to service.

The restoral request will run the diagnostic tests for the SC to be restored and if all tests pass the SC will be marked as standby in the status table. The known fault list will then be checked and any associated entries will be removed from the list. Also, the SC lamp on the system status panel will be turned off if no other scanner controllers on the nonactive SYC are OOS.

If the optional UnConditional field is specified the diagnostic tests will not be run and the restoral will be completed as if all the tests had passed.

3. EXPLANATION OF VARIABLE FIELD

c - specifies the Control Frame the SC is located on.

s - specifies the System Control the SC is located on.

4. SYSTEM RESPONSES

'NG' will be printed whenever the restoral request does not invoke any action. More specifically, a 'NG' will be printed if the c or s fields are out of range or if the SC is in the standby or active states.

(CONTINUED)

RST:SC

(CONTINUED)

RST:SC

'IP' is printed whenever an attempt will be made to restore the SC to service.

DIAGNOSTIC TEST FAILURES

If a diagnostic test fails TLM information will be printed and the SC will not be restored to service.

ALL DIAGNOSTIC TESTS PASS OR UCL REQUESTS

Upon the successful completion of a SC restoral the following message will be printed:

M tt RST SC cs COMPL.

If any scan matrix entries in the known fault list are removed messages of the following types will be printed:

M REPT SM m ROW r TRBL CLR

or

M REPT SM m COL cc TRBL CLR.

5. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

RST:SSP

RST:SSP

1. INPUT MESSAGE FORMAT

RST:SSP!

2. EXPLANATION OF MESSAGE

Used to restore the system status panel to service after it has been removed by the RMV:SSP message.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The SSP has been restored to service.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

RST:SVC

RST:SVC

1. INPUT MESSAGE FORMAT

RST:SVC(a,b)!
RST:SVC(a,b);action-option!
RST:SVC(a,b),PDG;action-option!
RST:SVC(a,b),FUSE;action-option!

2. EXPLANATION OF MESSAGE

ReStore a Service Circuit to service. The default case will place the single service circuit in the in-service idle state on the condition that the diagnostic for this service circuit passes.

3. EXPLANATION OF VARIABLE FIELD

a is the GROUP NUMBER (64-127) of the service circuit

b is the MEMBER NUMBER (0-127) of the service circuit

action-option

UCL - indicates an UNCONDITIONAL restoral. The SERVICE CIRCUIT is restored to service without first running the diagnostic for this SERVICE CIRCUIT.

PDG

This SERVICE CIRCUIT and all other circuits (8 maximum) associated with the same PERIPHERAL DECODER GROUP are restored to service. Whenever the PDG option is specified an initialization of both peripheral decoders, in the group, will be performed. Also, a diagnostic is run on each circuit unless the request is unconditional.

FUSE

The same as PDG except only the SERVICE CIRCUITS (4 maximum) associated with the same FUSE pair (talk and signal) are restored to service. However, peripheral decoder initialization is NOT performed.

(CONTINUED)

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. For conditional requests, an out-of-service SERVICE CIRCUIT is diagnosed before being restored to service.

RL

The diagnostic request buffer is full or, if PDG or FUSE was specified, then the multiscan function request was denied. Repeat the request later or specify an unconditional restoral.

NG

The current state of the SERVICE CIRCUIT is the same as the state requested.

?I

The SERVICE CIRCUIT identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC

RST:TAPE

RST:TAPE

1. INPUT MESSAGE FORMAT

RST:TAPE a!
RST:TAPE a;UCL!

2. EXPLANATION OF MESSAGE

Used to restore a tape to service if it is now out- of service. The out of-service unit must have passed diagnostics and a tape audit must have passed to assure that both are identical. The use of the UCL action option will bypass the above and force the unit into service.

3. INPUT FIELDS

a is the tape unit to be restored.

4. SYSTEM RESPONSES

OK Message has been accepted and execution of request started
RL Units has not passed compare and/or diag.

5. REFERENCES

PR-1C957-01 CTAPH Tape Handling Program

CHL-MTC

1. INPUT MESSAGE FORMAT

RST:TRK(a,b)!
RST:TRK(a,b);action-option!
RST:TRK(a,b),PDG;action-option!
RST:TRK(a,b),FUSE;action-option!

2. EXPLANATION OF MESSAGE

ReStore a TRUNK to service. The default case will place the single trunk in the in-service idle state on the condition that the diagnostic for this trunk passes.

3. EXPLANATION OF VARIABLE FIELD

a is the GROUP NUMBER (128-255) of the trunk

b is the MEMBER NUMBER (0-127) of the trunk

action-option

UCL - indicates an UNCONDITIONAL restoral. The TRUNK is restored to service without first running the diagnostic for this TRUNK.

PDG

This TRUNK and all other circuits (8 maximum) associated with the same PERIPHERAL DECODER GROUP are restored to service. Whenever the PDG option is specified an initialization of both peripheral decoders, in the group, will be performed. Also, a diagnostic is run on each circuit unless the request is unconditional.

FUSE

The same as PDG except only the TRUNKs (4 maximum) associated with the same FUSE pair (talk and signal) are restored to service. However, peripheral decoder initialization is NOT performed.

(CONTINUED)

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. For conditional requests, an out-of-service TRUNK is diagnosed before being restored to service.

RL

The diagnostic request buffer is full or, if PDG or FUSE was specified, then the multiscan function request was denied. Repeat the request later or specify an unconditional restoral.

NG

The current state of the TRUNK is the same as the state requested or conflicts with the action requested.

?I

The TRUNK identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H257 TSVREQ

Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC

RST:TTYC

RST:TTYC

1. INPUT MESSAGE FORMAT

RST:TTYC a,PORT b!

2. EXPLANATION OF MESSAGE

Restore a tty controller or port to service. To restore an entire controller, the PORT phrase should be omitted.

3. EXPLANATION OF VARIABLE FIELD

a specifies the TTY controller (0-7)
b specifies the port number (0-3)

4. SYSTEM RESPONSES

IP if the action has been initiated. If any of the TTYC's ports have changed status, a REPT STAT TTYC message should be printed when the action is completed.
NG if the TTYC does not exist or is already in service, or if the port is already in service, or if restoral of the TTYC would result in two controllers handling the same message class.

5. REFERENCES

PR-3H259-02 TTYMAP - TTY MESSAGE ADMINISTRATION PROGRAM
PR-3H015-02 TTYAPP - APPLICATION TELETYPE COMPATIBILITY PROGRAM

CHL=MTC,MTR

1. INPUT MESSAGE FORMAT

RST:TV t!
RST:TV TC n;action-option!

2. EXPLANATION OF MESSAGE

ReStore a network Test Vertical link to service. The single test vertical link is placed in the in-service idle state. For test vertical test circuits, this is done on the condition that the diagnostic for this circuit passes. For other test vertical types, there is no diagnostic to run.

3. EXPLANATION OF VARIABLE FIELD

t is the TEST VERTICAL TYPE

TC n ==> test vertical test circuit
TM m ==> test vertical test multiple
JC g ==> junctor test vertical
BLNK g ==> wire test vertical

n is the TV TC (Test Vertical Test Circuit)

where 0 ==> wire TV TC, low concentrator groups
1 ==> junctor TV TC, low concentrator groups
2 ==> wire TV TC, high concentrator groups
3 ==> junctor TV TC, high concentrator groups

m is the TV TM (Test Vertical Test Multiple)

where 0 ==> wire TV TM, even concentrator groups
1 ==> wire TV TM, odd concentrator groups
2 ==> junctor TV TM, even concentrator groups
3 ==> junctor TV TM, odd concentrator groups

g is the CONCENTRATOR GROUP (1-15) of the link

action-option

UCL - indicates an UNCONDITIONAL restoral. The TEST VERTICAL TEST CIRCUIT is restored to service without first running the diagnostic for this TEST VERTICAL TEST CIRCUIT.

(CONTINUED)

4. SYSTEM RESPONSES

PF

The request was accepted and a printout will follow to explain the action taken.

IP

The request was accepted and is in progress. For conditional requests, an out-of-service TEST VERTICAL TEST CIRCUIT is diagnosed before being restored to service.

RL

The diagnostic request buffer is full. Repeat the request later or specify an unconditional restoral.

NG

The current state of the TEST VERTICAL is the same as the state requested.

?I

The TEST VERTICAL identification is in error or the message is constructed incorrectly.

5. REFERENCES

PR-3H319 TSVNR
Trunk, Line & Service Circuit Nonresident Routines

CHL-MTC

RTE:ALM

RTE:ALM

1. INPUT MESSAGE FORMAT

RTE:ALM!

2. EXPLANATION OF MESSAGE

Route critical, major, and minor ALarMs to a remote location. Critical, major, and minor alarms, both visual and audible, are retired after 5 seconds. This message is the software equivalent of operating the Alarm Transfer key. The ACP:ALM! message returns alarm indications to the local office.

3. SYSTEM RESPONSES

RL = The paging buffer is busy and the message cannot be processed.

OK = The desired action has been taken.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL-MTC

1. INPUT MESSAGE FORMAT

SCHED:OFR/
RPT YES or NO/
SUN YES or NO/
MON YES or NO/
TUES YES or NO/
WED YES or NO/
THURS YES or NO/
FRI YES or NO/
SAT YES or NO/
CLS n/
PCHG YES or NO/
ZCHG YES or NO/
END!

2. EXPLANATION OF MESSAGE

This message and its associated keywords are used to schedule on which day(s) the office records changed pages and delay messages print. The delay messages are those OP:OFR messages that specified YES on the DELAY keyword.

This message just controls the days on which office records prints, starting time is controlled by the nightly routine schedule (see RC:REPT), in which office records starts 2 hours before the nightly routine scheduled time.

This message with just the END keyword specified will print out the currently scheduled print days.

SUN	YES or NO
MON	YES or NO
TUES	YES or NO
WED	YES or NO
THURS	YES or NO
FRI	YES or NO
SAT	YES or NO

These seven keywords can be used to add a scheduled day for printing office records (specifying YES) or to remove a scheduled day for printing office record (specifying NO).

(CONTINUED)

If the keyword is not specified no change is made for that day.

RPT YES or NO

This keyword is used to specify if the changed pages printed last time should be reprinted along with the new changed pages. The default is NO and the change pages are not reprinted only the new chaged pages. This keyword is provided in case the last printing of the changed pages became lost or mutilated or the TTY channel went down in the middle of printing. To be effective this option must be specified before the next scheduled time to print.

CLS n

Used to specify the message class that office records changed pages are to print on. This keyword does not control where delayed messages are printed. Delayed messages print out on the same channel they were requested from.

PCHG YES or NO

This keyword is used to control printing of the changed pages. If YES is specified, print the changed pages at the next scheduled printing. If NO is specified, do not print the changed pages ...instead accumulate all the changed pages till the YES option is specified. In this way the delayed messages can be scheduled without having the changed pages print sooner than desired.

ZCHG YES or NO

This keyword is used to zero the list of changed pages to be printed. If YES is specified, the list is zeroed. If NO (default) is specified the list is not zeroed. The YES option can be used to avoid unnecessary printing of the changed pages (accumulated thus far) when, for example the OP:OFR message has just been use to print 'ALL' the TN records.

(CONTINUED)

3. SYSTEM RESPONSES

OK - The message was accepted and a print out of all the days schedule will follow (see SCHED OFR output message)

NG - No Good the message was not accepted and a ADM ERR nnnn will follow stating the reason.

4. REFERENCES

PR-3H138 OFR24

CHL=ALL

SET:CLK

SET:CLK

1. INPUT MESSAGE FORMAT

SET:CLK:TIME(hh,mi,ss),day(mo,dd,yy)!
SET:CLK:TIME(hh,mi,ss)!

2. EXPLANATION OF MESSAGE

Used to set the software clock. The clock can be interrogated via the OP:CLK input message.

3. INPUT FIELDS

hh = hour of the day (0-23)
mm = number of minutes past the hour (0-59)
ss = number of seconds past the minute (0-59)
day = day of the week (SUN, MON, TUES, WED, THURS, FRI, SAT)
mm = month of the year (1-12)
dd = day of the month (1-31)
yy = year (00-99)

4. SYSTEM RESPONSES

OK = The clock has been set.

NG = An illegal value for one of the input fields has been detected. Either the value typed is bad or an input field has been defaulted and the present system value is bad.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL-MTC

SET:CUT

SET:CUT

1. INPUT MESSAGE FORMAT

SET:CUT!

2. EXPLANATION OF MESSAGE

SET the office into the CUTover (normal in-service) mode. close the cutoff contacts on all non-test lines which are in pre-cutover directory number hundreds groups to begin supervision at their line ferroids. Reset the office PRECUTover bit.

3. SYSTEM RESPONSES

The system will not respond until the requested action is accomplished or aborted. No TTY input is possible and no other processing occurs during execution. Maximum duration is approximately 1 minute. Progress is denoted by a display of the current SPN on the System Status Panel.

WARNING: this message puts the machine "on-line", i.e. all lines are now in service. It should not be issued in the presence of known faults. a request to ALW:TOCO! must precede this message. do not issue consecutive SET:CUT commands without intervening SET:PRECUT commands!

4. REFERENCES

PR-3HQ23-02 CUT - CUTOVER PROGRAM

CHL=MTC,MTR

SET:INDIR

SET:INDIR

1. INPUT MESSAGE FORMAT

SET:INDIR(mm,oo)!
SET:INDIR mm!
SET:INDIR(0,oo)!

2. EXPLANATION OF MESSAGE

Used to initialize two parameters which are used by the indirect utility functions to modify the indirect address before it is used.

3. INPUT FIELDS

mm = A mask which allows certain bits of the indirect address to be ignored. Zero bits in mm will cause the corresponding bits in the 20-bit indirect address to be zeroed. A mask with high bits equal to zero can be used to convert a 16-bit address to a 20-bit address. A mask with low bits equal to zero can be used to point to the base of a block aligned on a binary boundary when the indirect address points anywhere within the block. The default value is all ones.

oo = An offset which is added to the indirect address after the mask mm has been applied to it. The offset allows any word within a block to be accessed even though the indirect address only points at the base of a block. The default value is 0.

4. SYSTEM RESPONSES

OK = The parameters have been initialized and will be used by the next indirect function to be requested.

RL = A previous utility message is still active. Wait for normal termination or stop it via STOP:UTIL input message.

5. REFERENCES

(CONTINUED)

SET:INDIR

(CONTINUED)

SET:INDIR

PR-1C962 CUTIL Common Utilities

CHL-MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C521

1. INPUT MESSAGE FORMAT

```
SET:MATCH:ADR(aa,mm),DATA(dd,nn)!  
SET:MATCH:ADR aa!  
SET:MATCH:ADR(aa,mm)!  
SET:MATCH:DATA dd!  
SET:MATCH:DATA(dd,nn)!  
SET:MATCH:ADR(aa,mm),DATA dd!  
SET:MATCH:ADR(aa,0),DATA(dd,0)!
```

2. EXPLANATION OF MESSAGE

Used to set the address and/or data matchers in the 3ACC. This message is used in conjunction with the ONC action-option associated with a DMP, MON, or LOD utility input message. The matchers are used to trigger these requests when particular words of store are accessed and/or certain data is read from or written into store. The address and/or data matchers can be changed by entering another SET:MATCH utility request either before or after entering the utility function. Likewise, the utility function using the ONC action-option may be reentered provided the ONC action-option is respecified.

3. INPUT FIELDS

aa = address on which a match is expected
mm = a mask which allows certain bits of the address to be ignored for match purposes. Bits in aa will be ignored if the corresponding bits in mm are one. The default value is mm=0. This must be specified if the address and mask are enclosed in parenthesis.
dd = the data on which the match is expected
nn = a mask which allows certain bits of the data to be ignored for match purposes. Bits in dd will be ignored if the corresponding bits in nn are one. The default value is nn=0. This must be specified if the data and mask are enclosed in parenthesis.

4. SYSTEM RESPONSES

OK = The matchers have been set up.

(CONTINUED)

SET:MATCH

(CONTINUED)

SET:MATCH

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C523

SET:PRECUT

SET:PRECUT

1. INPUT MESSAGE FORMAT

SET:PRECUT!

2. EXPLANATION OF MESSAGE

SET the office into the PRE-CUTover mode. Open the cutoff contacts on all non-test lines which are in pre-cutover directory number hundreds groups. These lines will then be unsupervised and inaccessible to normal calls. the office PRECUTover bit is set to inhibit completion of normal calls to all PRECUTover lines.

3. SYSTEM RESPONSES

The system will not respond until the requested action is accomplished or aborted. No TTY input is possible and no other processing occurs during execution. Maximum duration is approximately 1 minute. Progress is denoted by a display of the current SPN on the System Status Panel.

WARNING: this message puts the machine "off-line", i.e. all PRECUTover lines are now out of service. It should not be issued in the presence of known faults. a request to ALW:TOCO! must precede this message.

4. REFERENCES

PR-3H023-02 CUT - CUTOVER PROGRAM

CHL-MTC,MTR

STOP:CKT

STOP:CKT

1. INPUT MESSAGE FORMAT

STOP:CKT type!

2. EXPLANATION OF MESSAGE

This message is used to STOP two different types of Circuit activity. One is to stop any circuit CAMP-ON and the other is to stop reporting each peripheral CIRCUIT TROUBLE message.

3. EXPLANATION OF VARIABLE FIELD

type - Is the type of circuit activity to stop:

CMP

STOP any Circuit CAMP-on activity. If a busy circuit (trunk, service circuit, line, or network link) is being camped-on in order to remove it from service, this message forces the camp-on activity to time-out immediately. This action frees up the camp-on buffer for any new requests.

TRBL

STOP reporting each peripheral Circuit TRouBLE. This message stops the contents of the error analysis input buffer from being dumped on the occurrence of every peripheral failure. The REPT:CKT TRBL input message will cause a return to the normal state of printing this information.

4. SYSTEM RESPONSES

OK

(CONTINUED)

STOP:CKT

(CONTINUED)

STOP:CKT

The request was accepted and completed.

NG

If CMP was specified: No CAMP-ON activity was in progress.

If TRBL was specified: The activity is already stopped.

?I

The message is constructed incorrectly.

5. REFERENCES

PR-3H261 TSVIOM
Trunk and Service Circuit IMOM Program
PR-3H256 TSVEA
Trunk, Line, Service Circuit and Network Line
Error Analysis
PR-3H257 TSVREQ
Trunk, Line, Service, Circuit and Network Link
TTY Message Handler

CHL-MTC

STOP:EX

STOP:EX

1. INPUT MESSAGE FORMAT

STOP:EX SSP!

2. EXPLANATION OF MESSAGE

Used to terminate the system status panel exercise.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The system status panel exercise has been stopped.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL-MTC

STOP:MON

STOP:MON

1. INPUT MESSAGE FORMAT

STOP:MON!

2. EXPLANATION OF MESSAGE

A STOP MONitor request will terminate any monitoring being performed by the Trunk and Service Circuit Maintenance Aids Program(TSVMON).

CAUTION: The STOP MONitor request will terminate the program if monitoring is the only function being performed.

3. EXPLANATION OF VARIABLE FIELD

None

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON

Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

STOP:NWC

STOP:NWC

1. INPUT MESSAGE FORMAT

STOP:NWC TRBL!

2. EXPLANATION OF MESSAGE

When this message is received, not all output messages will necessarily be printed. Subsequent to this input message the the output message is printed, if all of the following conditions are met:

- a. Not in network group check by-pass mode
- b. NWC not marked OOS
- c. No fault list entry for this network

3. SYSTEM RESPONSES

'OK' Message was accepted.

4. REFERENCES

PR-3H254-03 PURC -PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

STOP:OA

STOP:OA

1. INPUT MESSAGE FORMAT

STOP:OA!

2. EXPLANATION OF MESSAGE

STOP the remote recorded Overload Announcement. All calls which would normally have been routed to reorder will again receive reorder tone.

A TTY output message will be printed if the overload announcement control relay changes state.

3. SYSTEM RESPONSES

OK = The request to deactivate was accepted.

NG = A problem was encountered while processing the request.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL-MTC

STOP:ORDUTIL

STOP:ORDUTIL

1. INPUT MESSAGE FORMAT

STOP:ORDUTIL!

2. EXPLANATION OF MESSAGE

Used to abort all functions that were allowed by the ALW:COUTIL message. It will stop whatever is presently active and return the system to the update mode.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

PF	Acknowledgement will be printed indicating that the ALW ORDUTIL program has been stopped.
NG	The ALW ORDUTIL program has not been activated.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL-MTC

STOP:OW

STOP:OW

1. INPUT MESSAGE FORMAT

STOP:OW!

2. EXPLANATION OF MESSAGE

Stop (STOP) the overwrite (OW) program. Used to terminate the overwrite program at the conclusion of all overwrite activity and update the other main store if new overwrite data has been loaded by LOD:OW. This message must be typed to allow other multiscan functions to be activated.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

UPD OMAS COMPL

ALW OW STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

STOP:PROG

STOP:PROG

1. INPUT MESSAGE FORMAT

STOP:PROG!

2. EXPLANATION OF MESSAGE

Used to stop the execution of the present group of orders that are executing. This order does not destroy the group of orders that are executing. Execution may be started again by entering the EXC:PROG order.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

PF Acknowledgement will be printed indicating that program execution was stopped.

5. REFERENCES

PR-1C982 COUTIL COMMON ORDER UTILITIES

CHL=MTC

STOP:REPT

STOP:REPT

1. INPUT MESSAGE FORMAT

STOP:REPT!

2. EXPLANATION OF MESSAGE

A STOP REpOrT request will terminate any reporting being performed by the Trunk and Service Circuit Maintenance Aids Program.

CAUTION: The STOP REpOrT request will terminate the program if reporting is the only function being performed.

3. EXPLANATION OF VARIABLE FIELD

None

4. SYSTEM RESPONSES

IP

The request was accepted and is in progress.

RL

The request was denied. Repeat the request later.

5. REFERENCES

PR-3H318 TSVMON
Trunk and Service Circuit Maintenance Aids Program

CHL-MTC

STOP:RPT

STOP:RPT

1. INPUT MESSAGE FORMAT

STOP:RPT:STEP!

2. EXPLANATION OF MESSAGE

Clear the control word for repeat and step (RPT&STEP). This will terminate any repeat and step control of a multiscan function. If the function is currently in progress, it will complete normally but will not be requested again.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK = The control word has been cleared.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

STOP:TAPEUTIL

STOP:TAPEUTIL

1. INPUT MESSAGE FORMAT

STOP:TAPEUTIL!

2. EXPLANATION OF MESSAGE

Stop (STOP) the tape utility (TAPEUTIL) program. Used to terminate the tape utility program at the conclusion of all tape utility activity. The tape utility program must be stopped to allow other multiscan functions to be activated.

The tape utility program must be active (allowed) to use this function. See TTY input message ALW:TAPEUTIL!

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the tape utility program is not currently active.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

TAPEUTIL STOPPED aa bb cc dd

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

STOP:TOCO

STOP:TOCO

1. INPUT MESSAGE FORMAT

STOP:TOCO!

2. EXPLANATION OF MESSAGE

Stop the Turnover/Cutover MSF. This causes the Turnover/Cutover MSF to be halted. This will free the paging buffer for other non-resident programs after the CUT program or the Office To Office test program is run.

3. SYSTEM RESPONSES

IP

The request was accepted and the TOCO MSF will be stopped. When this is complete a message (ALW TOCO STOPPED) is printed.

NG

The request is not accepted. The Turnover/Cutover MSF is not currently active.

4. REFERENCES

PR3H081 OTOTST - Office To Office Test Program

CHL=MTC

STOP:UTIL

STOP:UTIL

1. INPUT MESSAGE FORMAT

STOP:UTIL!

2. EXPLANATION OF MESSAGE

Stop an active utility function.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

OK - The utility function has been stopped.

5. REFERENCES

PR-1C962 CUTIL Common Utilities

CHL-MTC

SW:INIT

SW:INIT

1. INPUT MESSAGE FORMAT

SW:INIT!
SW:INIT;UCL!

2. EXPLANATION OF MESSAGE

Used to perform an initialization which will result in the off-line CU being MRFed on-line. This message should be used with caution since it will cause a service loss. Normally the non-write protected store will be updated before the init. If the UCL option is used the ipdate will not occur.

3. INPUT FIELDS

UCL Do the initialization with no update.

4. SYSTEM RESPONSES

The system will initialize and the off-line side will go on-line unless it is locked off-line.

5. REFERENCES

PR-1C952 CINIT - Common Initialization

CHL=MTC

SW:RT

SW:RT

1. INPUT MESSAGE FORMAT

SW:RT!

SW:RT;UCL!

2. EXPLANATION OF MESSAGE

This request causes a Switch of the Ringing and Tone plants (RT) if the nonactive RT is in the standby state.

The optional UnConditional specification can be used to cause a switch to an out of service plant. Use extreme CAUTION when using the UCL option.

3. SYSTEM RESPONSES

'NG' will be printed whenever a switch cannot be performed due to the nonactive RT being in the out of service or unavailable states.

'OK' is printed whenever the switch is performed and will be followed by a

REPT RT p ACT

message to notify the user of the switch request which RT is active after the switch.

4. REFERENCES

PR-3H254-03 PURC - PERIPHERAL CONTROLLER FAULT RECOVERY

CHL-MTC,MTR

SW:SYC

SW:SYC

1. INPUT MESSAGE FORMAT

SW:SYC;UCL!
SW:SYC!

2. EXPLANATION OF MESSAGE

Used to request a switch of the active/standby status of the two half systems. If accepted, the switch will take place immediately/or after the off-line main store has been updated.

3. INPUT FIELDS

UCL Do the switch unconditionally.

4. SYSTEM RESPONSES

OK	The switch has been performed.
IP	An unconditional switch has been requested and the off-line SYC is not in standby. An update of the off-line main store has been initiated, and the switch will occur at its completion.
RL	The switch has not been performed because the system is not in an acceptable state. If an unconditional switch was requested, the system is either locked or forced. Otherwise, the off-line SYC is not in standby.

5. REFERENCES

PR-1C952 CINIT - Common Initialization

CHL=MTC

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TRC:ENTER

```
TRC:ENTER(aaa,bbbb),DNP ccc;DD!
```

This message places a telephone number in the Calling Line Identification (CLID) Table. All outgoing calls to this number will subsequently be traced. The ALARM LEVEL is used to indicate where the traced call is to be reported. All the fields are optional. The legitimate combinations are AC, AC+OC, AC+OC+DN, OC and OC+DN.

IDDD calls can be traced up to their first 9 digits. 911 and 411 calls can be traced by inserting the number into the office code slot.

- no alarm : direct call trace report to the
 ANNOYANCE CALL BUREAU

MN minor alarm : direct call trace report to the
 SECURITY CENTER

MJ major alarm : (not recommended) direct report to the
 SECURITY CENTER

```

RL  repeat later
OK  system has honored request

```

PR-3H079-02 CTRACN Call Trace Program

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C543

TRC:ERASE

TRC:ERASE

1. INPUT MESSAGE FORMAT

TRC:ERASE(aaa,bbbb),DNP ccc!

2. EXPLANATION OF MESSAGE

This message removes a number from the Calling Line Identification (CLID) Table. Outgoing calls to this number will no longer be traced. All the fields are optional. The legitimate combinations are AC, AC+OC, AC+OC+DN, OC and OC+DN.

aaa office code (OC)
bbbb telephone number (DN)
ccc area code (AC)

3. SYSTEM RESPONSES

RL repeat later
OK system has honored request

4. REFERENCES

PR-3H079-02 CTRACN Call Trace Program

CHL-MTC, SO

TRC:OE

TRC:OE

1. INPUT MESSAGE FORMAT

TRC:OE(aa,bcde)!

2. EXPLANATION OF MESSAGE

This message generates a search through all stable calls for one whose calling or called party OE matches the one specified above. A successful or unsuccessful call trace message will follow.

aa	concentrator group
b	concentrator
c	switch group
d	switch
e	input level

3. SYSTEM RESPONSES

RL	repeat later
OK	system has honored request

4. REFERENCES

PR-3H079-02 CTRACN Call Trace Program

CHL=MTC,SO

1. INPUT MESSAGE FORMAT

TRC:SCHED sw!

2. EXPLANATION OF MESSAGE

TRaCe the execution progress the general SCHEDuler. If the trace option is on, the initialization of every minor sequence step will be reported by a TTY output message.

3. INPUT FIELDS

sw = ON - activate the trace option
sw = OFF - deactivate the trace option

4. SYSTEM RESPONSES

OK = The message was OK and has been completed.
NG = The message was not accepted (No Good).
 = The specified option is invalid.

5. REFERENCES

PR-1C963 CMMON Common Maintenance Monitor Program
PR-3H203 MMONA Maint. Monitor Application Program (No. 3 ESS)

CHL-MTC

TRC:TN

TRC:TN

1. INPUT MESSAGE FORMAT

TRC:TN(aaa,bbbb)!

2. EXPLANATION OF MESSAGE

This message generates a search through all stable calls for one whose calling or called party telephone number matches the number specified. A successful or unsuccessful call trace message will follow.

aaa office code
bbbb telephone number

3. SYSTEM RESPONSES

RL repeat later
OK system has honored request

4. REFERENCES

PR-3H079-02 CTRACN Call Trace Program

CHL-MTC, SO

TST:BB

TST:BB

1. INPUT MESSAGE FORMAT

TST:BB!

2. EXPLANATION OF MESSAGE

TeST the Battery Boost converters on all equipped network frames. All converters are momentarily turned off, then back on. An output message is then generated to convey the state of the battery boost scan point. This test is used to distinguish between transient and hard battery boost alarms.

3. SYSTEM RESPONSES

RL = The paging buffer is busy and the message cannot be processed.

PF = The test has been performed and an output message follows.

4. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL=MTC

TST:LINE

TST:LINE

1. INPUT MESSAGE FORMAT

TST:LINE a bcde f g!

2. EXPLANATION OF MESSAGE

Perform the line insulation TeST on a specified LINE. the resistance range may be specified and the type of tests desired. Lines in the permanent signal or out of service state may be tested manually only. If the variable field is blank all office lines will be tested with the variables defaulted to the daily line insulation test parameters.

The tests and ranges for line insulation test are as follows.

SRG - short and ring to ground
TRG - tip and ring to ground
FEMF - foreign electromotive force

Range - 80K
- 320K
- 2.56M

3. EXPLANATION OF VARIABLE FIELD

the following specify the line

- a Concentrator Group
- b Concentrator
- c Switch Group
- d Input Switch
- e Input Switch Level

The following specify the test and range

f - 1 - SRG
2 - TRG

(CONTINUED)

TST:LINE

(CONTINUED)

TST:LINE

- 3 - SRG and TRG
- 4 - FEMF
- 5 - SRG and FEMF
- 6 - TRG and FEMF
- 7 - SRG and TRG and FEMF

g - 80k

320k

2.56m

4. SYSTEM RESPONSES

IP The request has been accepted and is in progress

RL The request has been denied. Repeat the request later.

5. REFERENCES

PR-3H310-01 ALIT - LINE INSULATION TEST

CHL-MTC,MTR,RSB

TST:SCC

TST:SCC

1. INPUT MESSAGE FORMAT

TST:SCC!

TST:SCC nnnn!

2. EXPLANATION OF MESSAGE

TeST the telemetry interface and displays in the SCC. The first form of this message removes the System Status Panel (SSP) from service and then sequences through all the panel indicators. Each indicator is on for 1.5 seconds. The program sequences through all the indicators in about two minutes and forty-five seconds.

There are a few indicators (listed below) that cannot be controlled by software. These will remain off during the test except those with an asterisk (*) which will remain on.

ALT BUS
CIRCUIT POWER *
DISABLE REMOTE ACCESS
EMER LINE TRFR
ENAB
LAMP POWER *
LAMP & POWER TEST
LOCK

The second form removes the SSP from service and blinks the selected indicator for five minutes. The selected indicator will flash on and off every 100 msec. The message can be aborted by typing ABT:MSF!

3. INPUT FIELDS

nnnn - Index number of the desired indicator as shown in the table below:

INDICATOR TABLE

ALARM CIRCUIT----- (70)

(CONTINUED)

TST:SCC

(CONTINUED)

TST:SCC

ALARM RELEASE----- (53)
ALARM TRFR----- (54)
AMA----- (47)

BACKDT OFF DATA----- (77)
BLDG----- (40)
BLDGPWR----- (08)

CKTAUD----- (00)
CKTLIM----- (04)
CRITICAL----- (64)
CU----- (42)
CU FORCE----- (82)
CU 0----- (80)
CU 1----- (81)

DB0----- (32)
DB1----- (31)
DB2----- (30)
DB3----- (29)
DB4----- (28)
DB5----- (27)
DB6----- (26)
DB7----- (25)
DB8----- (24)
DB9----- (23)
DB10----- (22)
DB11----- (21)
DB12----- (20)
DB13----- (19)
DB14----- (18)
DB15----- (17)
DB16----- (16)
DB17----- (15)
DB18----- (14)
DB19----- (13)
DB20----- (12)
DB21----- (11)
DB22----- (10)
DB23----- (09)
DSP----- (39)

EXEC----- (55)

FAIL----- (73)
FORCE----- (41)
FUSE----- (69)

INH BLDG ALARM----- (52)
INIT EXEC----- (78)

(CONTINUED)

MAJAUD----- (01)
MAJOR----- (65)
MAJOR EQPT LOSS----- (49)
MAJOR POWER----- (67)
MEM LOAD----- (75)
MINAUD----- (02)
MINOR----- (66)
MINOR POWER----- (68)
MISC----- (48)

NRP ACT----- (37)
NWC----- (43)

OVL D ANN----- (38)

PANEL TIMEOUT----- (51)
PASS----- (72)
PAST OFF DATA----- (76)
PERIPHA----- (06)
PERIPHB----- (05)
PPD----- (45)

RT----- (46)

SC----- (44)
SERVICE LOSS----- (71)
STAB CALLS----- (74)
SVC LIM----- (34)
SYC----- (07)
SYC0-ACTIVE----- (59)
SYC0-OUT OF SERVICE----- (57)
SYC0-STANDBY----- (58)
SYC0-UNAVAILABLE----- (56)
SYC1-ACTIVE----- (63)
SYC1-OUT OF SERVICE----- (61)
SCY1-STANDBY----- (62)
SYC1-UNAVAILABLE----- (60)
SYS NORMAL----- (50)

TDC----- (36)
TRAFFIC----- (03)
TRK LIM----- (33)
TTY INIT----- (79)
TTYC----- (35)

4. SYSTEM RESPONSES

(CONTINUED)

TST:SCC

(CONTINUED)

TST:SCC

NG = The index into the indicator table is invalid.

RL = The paging buffer is busy and the message cannot be processed or the MMSF is active.

OK = The desired action has been taken.

5. REFERENCES

PR-3H312 MNRSUB Maintenance Nonresident Subroutines

CHL-MTC

1. INPUT MESSAGE FORMAT

UPD:HASH:GENERIC!
UPD:HASH:TRNSLN!

2. EXPLANATION OF MESSAGE

Update (UPD) the hashsums (HASH) of the generic (GENERIC) or translations (TRNSLN). This input request will compute new hashsums from the on-line main store for the GENERIC (or TRNSLN) and write this data onto both tape cartridges (CHECKSUM file).

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

GENERIC = Update the generic hashsums into the CHECKSUM file.
TRNSLN = Update the translation hashsums into the CHECKSUM file.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= The overwrite program is not currently active.
= The message did not specify GENERIC or TRNSLN.

RL = The message should be Repeated Later.
= A prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

UPD HASH COMPL

UPD HASH STOPPED

5. REFERENCES

(CONTINUED)

UPD:HASH

(CONTINUED)

UPD:HASH

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT-08,02 CHL-MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C556

1. INPUT MESSAGE FORMAT

UPD:OMAS!

UPD:OMAS;action-options!

2. EXPLANATION OF MESSAGE

Update the off-line main store. If no options are specified the update is performed by copying the on-line store contents to the off-line for each word whose logical contents are different. If either option is selected every word in the off-line is updated. If possible the system will also be placed in the update mode so that the contents of the two stores will remain logically equal when this function completes.

3. INPUT FIELDS

action-options

COMP = Complement the on-line data and write it into the off-line (for maintenance purposes only).

UCL = Do the update as long as the off-line is powered up. Copy the contents of the on-line to the off-line without regard to the previous contents of the off-line contents.

4. EXPLANATION OF VARIABLE FIELD

IP = The update is in progress. If it completes, the output message UPD OMAS COMPL will be generated. If this message does not appear, the update function has been preempted. In any case, the system is not in the update mode until the complete message is typed.

NG = Update is not allowed in the current system state.

The following items preclude update:

The maintenance channel or off-line MAS is bad.

The power key or manual key of the off-line CC panel is active.

A program, eg, CU diagnostics, is using the off-line CU.

5. REFERENCES

(CONTINUED)

UPD:OMAS

(CONTINUED)

UPD:OMAS

PR-1C950 CBLM Common Base Level Monitor

CHL-MTC

UPD:OMAS

UPD:OMAS

1. INPUT MESSAGE FORMAT

UPD:OMAS:MCH!

2. EXPLANATION OF MESSAGE

Update the off-line main store using only the maintenance channel. This does not do a complete store update and should only be used when an on-line store bus has gone bad and the off-line cannot be restored. A SW:INIT;UCL! input message is needed to force copying across the remainder of the store.

3. INPUT FIELDS

none

4. SYSTEM RESPONSES

IP = The MCH update has been started.

NG = The off-line CU is either powered down or the maintenance channel is out-of-service.

5. REFERENCES

PR-1C950 CBLM Common Base Level Monitor

CHL=MTC

1. INPUT MESSAGE FORMAT

UPD:OWFILE!

2. EXPLANATION OF MESSAGE

Update (UPD) the overwrite file (OWFILE). used to update the header information in the first block of the overwrite file on tape. The generic and issue identifiers are updated by this message. it is assumed that the new values for them have been entered prior to this request via the IN:GENID and IN:ISSID input messages.

This message destroys the current overwrite buffer contents (since the last IN:OW input message).

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

None

4. SYSTEM RESPONSES

- NG = The message was not accepted (No Good).
 - = the overwrite program is not currently active.
- RL = The message should be Repeated Later.
 - = a prior overwrite program request is in progress.
- PF = A Printout will Follow. This will be followed by one or more of the following messages:

UPD OWFILE COMPL

UPD OWFILE STOPPED

(CONTINUED)

UPD:OWFILE

(CONTINUED)

UPD:OWFILE

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT-2,9 CHL-MTC

INPUT MESSAGE MANUAL

ISSUE 3

IM-3H300-03-C561

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VER:CDI

VER:CDI

1. INPUT MESSAGE FORMAT

VER:CDI!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*                               OP:OFR/ *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:CFN

VER:CFN

1. INPUT MESSAGE FORMAT

VER:CFN:TN nxx-xxxx!

2. EXPLANATION OF MESSAGE

This message verifies the call forwarding number associated with a customer's telephone number.

nxx-xxxx =

7 digit customer tn in decimal.

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

VER CFN TN nxx xxxx

4. REFERENCES

PR-3H066 VRCFN

CHL=ALL

VER:CHI

VER:CHI

1. INPUT MESSAGE FORMAT

VER:CHI!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*                               OP:OFR/ *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:DATE

, VER:DATE

1. INPUT MESSAGE FORMAT

VER:DATE:file!

2. EXPLANATION OF MESSAGE

This message causes the date with which 'file' is flagged to be printed on the TTY.

3. INPUT FIELD

file =:

'TRNSLN' Causes the date on file 'TRNSLN' to be printed out.

'BACKDT' Causes the two dates on files 'BACKDT1' and 'BACKDT2', respectively, to be printed out.

4. SYSTEM RESPONSES

NG = the message was not accepted. The error message VER ERR nnnn will follow indicating the reason.

IP = the message was accepted. A printout indicating the requested date or dates will follow.

5. REFERENCES

PR-3H068-03 VERIFY DATE OF TRANSLATION FILES

CHL-MTC

VER:DIG

VER:DIG

1. INPUT MESSAGE FORMAT

VER:DIG!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*                               OP:OFR/ *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:FATDEF

VER:FATDEF

1. INPUT MESSAGE FORMAT

VER:FATDEF!

2. EXPLANATION OF MESSAGE

This message verifies the default code index for all local and foreign area translator tables of the search type.

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

VER FATDEF

4. REFERENCES

PR-3H070 VRFATD

CHL=ALL

VER:GPR

VER:GPR

1. INPUT MESSAGE FORMAT

VER:GPR!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*          OP:OFR/                   *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

1. INPUT MESSAGE FORMAT

VER:HASH:GENERIC!
VER:HASH:TRNSLN!

2. EXPLANATION OF MESSAGE

Verify (VER) the hashsums (HASH) of the generic (GENERIC) or translations (TRNSLN). This input message will compute hashsums from the on-line main store for the GENERIC (or TRNSLN) and match this data against the prestored values contained on the preferred tape cartridge CHECKSUM file. Although all hashsum mismatches are printed, only the first mismatch in a given 32K module will show a valid MAS hashsum. Each hashsum entry covers exactly 4096 (4K) words of main store.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

GENERIC = Verify the generic hashsums with the CHECKSUM file.
TRNSLN = Verify the translation hashsums with the CHECKSUM file.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= The overwrite program is not currently active.
= The message did not specify GENERIC or TRNSLN.

RL = The message should be Repeated Later.
= A prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

VER HASH adr hashtp hashmas

(CONTINUED)

VER:HASH

(CONTINUED)

VER:HASH

VER HASH COMPL

VER HASH STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

FMT-08,02 CHL-MTC

VER:LCC

VER:LCC

1. INPUT MESSAGE FORMAT

VER:LCC!

2. EXPLANATION OF MESSAGE

```
*****  
* This message has been replaced by: *  
*                                     *  
*          OP:OFR/                   *  
*                                     *  
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:LINE

VER:LINE

1. INPUT MESSAGE FORMAT

VER:LINE/

OE ggcwsi/

(Required, this format)

PTY p/

END!

(Required, this format)

or

VER:LINE:TN nxx-xxxx!

(END! not required, this format)

or

VER:LINE:OE ggcwsi!

(END! not required, this format)

or

VER:LINE/

TN nxx-xxxx/

(Required this format)

LIST nnn/

END!

(Required this format)

2. EXPLANATION OF MESSAGE

These messages verify the office equipment for the customer line originating and terminating translation.

For explanation of the keywords: TN, OE, LIST, & PTY refer to input message VER:OE.

NOTE- The VER:LINE... message is provided as a convenience. It provides a one-to-one correspondence with the 'recent change' message RC:LINE...

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this

(CONTINUED)

VER:LINE

(CONTINUED)

VER:LINE

document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

ver line

4. REFERENCES

PR-3H072 VRLINE

CHL=ALL

VER:LSTOE

VER:LSTOE

1. INPUT MESSAGE FORMAT

VER:LSTOE!

2. EXPLANATION OF MESSAGE

```
*****  
* This message has been replaced by: *  
*                                     *  
*                               OP:OFR/ *  
*                                     *  
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:LSTRIG

VER:LSTRIG

1. INPUT MESSAGE FORMAT

VER:LSTRIG nnn!

2. EXPLANATION OF MESSAGE

This message lists the route indexes pointing to a specified trunk or service circuit group.

nnn =

1 to 3 digit trunk or service circuit group number in decimal. Range is 64 thru whatever the maximum trunk or service circuit group number is for the office (maximum is 255).

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

VER LSTRIG nnn

4. REFERENCES

PR-3H073 VRLSTR

CHL=ALL

VER:LSTTCI

VER:LSTTCI

1. INPUT MESSAGE FORMAT

VER:LSTTCI nnn!

2. EXPLANATION OF MESSAGE

This message lists all 3 digit codes that point to a specified code index.

nnn =

1 to 3 digit code index in decimal. Range is 0 thru whatever the maximum code index is for the office (maximum is 255).

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.
VER:LSTTCI nnn

4. REFERENCES

PR-3H075 VRLST3

CHL=ALL

VER:MPTY

VER:MPTY

1. INPUT MESSAGE FORMAT

VER:MPTY/
OE ggcwsi/ (Required, this format)
PTY p/ (Required, this format)
END!

or

VER:MPTY:TN nxx-xxxx! (END! not required, this format)

or

VER:MPTY:OE ggcwsi! (END! not required, this format)

or

VER:MPTY/
TN nxx-xxxx/ (Required this format)
LIST nnn/ (Required this format)
END!

2. EXPLANATION OF MESSAGE

These messages verify the office equipment for the customer line originating and terminating translation.

For explanation of the keywords: TN, OE, LIST, & PTY refer to input message VER:OE.

NOTE- The VER:MPTY... message is provided as a convenience. It provides a one-to-one correspondence with the 'recent change' message RC:MPTY...

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this

(CONTINUED)

VER:MPTY

(CONTINUED)

VER:MPTY

document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

ver mpty

4. REFERENCES

PR-3H072 VRLINE

CHL=ALL

1. INPUT MESSAGE FORMAT

VER:MRI iiii!

2. EXPLANATION OF MESSAGE

This message prints the contents of the software message register based on the specified software message message register index specified.

iiii=

Software message register index. Range is 0 thru whatever is the maximum index for the office (maximum is 4095).

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

NG = No Good.

This IS followed by the following message.

ADM ERR nnnn

IP = A Printout In Progress.

This IS followed by the following message.

VER MRI iiii vvvvv

4. REFERENCES

PR-3H103 VRMRI

CHL=ALL

VER:MTL

VER:MTL

1. INPUT MESSAGE FORMAT

VER:MTL/

OE ggcwsi/ (Required, this format)

PTY p/

END! (Required, this format)

or

VER:MTL:TN nxx-xxxx! (END! not required, this format)

or

VER:MTL:OE ggcwsi! (END! not required, this format)

or

VER:MTL/

TN nxx-xxxx/ (Required this format)

LIST nnn/

END! (Required this format)

2. EXPLANATION OF MESSAGE

These messages verify the office equipment for the customer line originating and terminating translation.

For explanation of the keywords: TN, OE, LIST, & PTY refer to input message VER:OE.

NOTE- The VER:MTL... message is provided as a convenience. It provides a one-to-one correspondence with the 'recent change' message RC:MTL...

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this

(CONTINUED)

VER:MTL

(CONTINUED)

VER:MTL

document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

ver mtl

4. REFERENCES

PR-3H072 VRLINE

CHL=ALL

VER:OCDNOC

VER:OCDNOC

1. INPUT MESSAGE FORMAT

VER:OCDNOC!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*               OP:OFR/               *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:OE

VER:OE

1. INPUT MESSAGE FORMAT

VER:OE/
OE ggcwsi/ (Required, this format)
PTY p/ (Required, this format)
END!

or

VER:OE:TN nxx-xxxx! (END! not required, this format)

or

VER:OE:OE ggcwsi! (END! not required, this format)

or

VER:OE/
TN nxx-xxxx/ (Required this format)
LIST nnn/ (Required this format)
END!

2. EXPLANATION OF MESSAGE

These messages verify customer line originating and terminating translations.

The first form of this message verifies any type of terminal given the terminal equipment number. if PTY p is not specified and the line is a party line, then party 1 is verified. The second form verifies any type of line given the telephone number. the third form verifies the same data as the first form with PTY p specified. The fourth form allows the verification of a list of nnn TN's starting from the specified TN.

NOTE- If the OE specified is a trunk or service circuit the group and member number will be printed.

The first form of this message is linked. The first input line

(CONTINUED)

is followed by one or two message segments, each consisting of a keyword and keyword data followed by the continued execute character "/". the segments may be entered in any order, but "END!" must be the last input line. All required keywords must be entered.

Each keyword and keyword data is explained below.

TN nxx-xxxx

Telephone number in decimal.

OE ggcwsi

Terminal equipment number in decimal:

gg	= concentrator group	(1 through 15)
c	= concentrator	(0 through 1)
w	= switch group	(0 through 2)
s	= switch	(0 through 7)
i	= input level	(0 through 7)

PTY p

Party number in decimal:

p	= 1 through 8 indicates party of a multi-party line
p	= 1 indicates ring party
p	= 2 indicates tip party

LIST nnn

List of sequential TN's to be verified in decimal:
nnn = 1 through 100.

NOTE- nnn should not attempt to include a verify of a TN outside the hundreds group of the TN specified. Attempts to verify any TN's outside the specified hundreds group will not be verified.

END

End of message:

No more segments will be accepted for this message. "END" must be followed by the standard execute character "!". The message will now be executed. The end can also be signaled by following the last keyword typed by the execute character. Otherwise all keywords should be followed by a (/).

(CONTINUED)

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

VER OE

4. REFERENCES

PR-3H072 VRLINE

CHL=ALL

VER:OFFICE

VER:OFFICE

1. INPUT MESSAGE FORMAT

VER:OFFICE!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*           OP:OFR/                   *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

1. INPUT MESSAGE FORMAT

VER:OW:NEW!
VER:OW:OLD!

2. EXPLANATION OF MESSAGE

Verify (VER) the overwrite (OW). as a check on the transmittal and entry of an overwrite, the present content of each location being changed is matched against the data specified by the IN:OWDATA input message now present in the overwrite buffer. the data is compared to the corresponding data in the off-line main store for resident programs and in the PAGEMON file on tape for nonresident programs.

The overwrite program must be active (allowed) to use this function. See TTY input message ALW:OW!

3. INPUT FIELDS

OLD = Compare the present program data to the 'old' data in the overwrite buffer.
NEW = Compare the present program data to the 'new' data in the overwrite buffer.

4. SYSTEM RESPONSES

NG = The message was not accepted (No Good).
= the overwrite program is not currently active.
= request out of sequence - overwrite data is not present in the ow buffer.

RL = The message should be Repeated Later.
= a prior overwrite program request is in progress.

PF = A Printout will Follow. This will be followed by one or more of the following messages:

VER OW COMPL

(CONTINUED)

VER:OW

(CONTINUED)

VER:OW

VER OW ERR seg adr fnd exp

VER OW STOPPED

5. REFERENCES

PR-1C954-01 CNRUTL Common Nonresident Utilities Program

CHL-MTC

VER:RTI

VER:RTI

1. INPUT MESSAGE FORMAT

VER:RTI!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*               OP:OFR/               *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:SCN

VER:SCN

1. INPUT MESSAGE FORMAT

VER:SCN:TN nxx-xxxx!

2. EXPLANATION OF MESSAGE

This message verifies all speed calling numbers associated with a customer's telephone number.

nxx-xxxx =7 digit customer telephone number in decimal.

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.
VER SCN TN nxx xxxx

4. REFERENCES

PR-3H077 VRSCN

CHL=ALL

VER:SCR

VER:SCR

1. INPUT MESSAGE FORMAT

VER:SCR!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*                               OP:OFR/ *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:SMRI

VER:SMRI

1. INPUT MESSAGE FORMAT

VER:SMRI!

2. EXPLANATION OF MESSAGE

```
*****  
*   This message has been replaced by:   *  
*                                         *  
*                               VER:MRI    *  
*****
```

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:THDIG

VER:THDIG

1. INPUT MESSAGE FORMAT

VER:THDIG!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*                OP:OFR/              *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

VER:TWOPTY

VER:TWOPTY

1. INPUT MESSAGE FORMAT

VER:TWOPTY/

OE ggcwsi/

(Required, this format)

PTY p/

END!

(Required, this format)

or

VER:TWOPTY:TN nxx-xxxx! (END! not required, this format)

or

VER:TWOPTY:OE ggcwsi! (END! not required, this format)

or

VER:TWOPTY/

TN nxx-xxxx/

(Required this format)

LIST nnn/

END!

(Required this format)

2. EXPLANATION OF MESSAGE

These messages verify the office equipment for the customer line originating and terminating translation.

For explanation of the keywords: TN, OE, LIST, & PTY refer to input message VER:OE.

NOTE- The VER:TWOPTY... message is provided as a convenience. It provides a one-to-one correspondence with the 'recent change' message RC:TWOPTY...

3. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this

(CONTINUED)

VER:TWOPTY

(CONTINUED)

VER:TWOPTY

document for more information concerning system responses.

IP = A Printout In Progress.

This IS followed by the following message.

VER TWOPTY

4. REFERENCES

5. REFERENCES

PR-3H072 VRLINE

CHL=ALL

VER:1DIG

VER:1DIG

1. INPUT MESSAGE FORMAT

VER:1DIG!

2. EXPLANATION OF MESSAGE

```
*****
* This message has been replaced by: *
*                                     *
*                               OP:OFR/ *
*                                     *
*****
```

3. EXPLANATION OF MESSAGE

4. SYSTEM RESPONSES

Refer to "Input Message Responses" in section B of this document for more information concerning system responses.

NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL
SYSTEM EXCEPT UNDER WRITTEN AGREEMENT.

