SubMenu

NOKIA

MML Changes between Releases S9 and S10

Contents

1 INTRODUCTION

This document describes the changes that have been made to MML programs between S9 and S10.

MMLs with only a few internal changes or guide text changes are not listed in this document. It is possible that command sequences must be modified due to the changes summarised in this document.

This document may contain information which is irrelevant to the customer. The relevance of the information depends on the delivered software build. For example, some MML programs are optional and are not automatically included in the software build.

For more detailed descriptions please see the corresponding commands and instructions.

Note

Because the documentation is delivered before the software release, some changes may still occur before release delivery.

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2 NEW MML PROGRAMS

2.1 (EX) POBHAN - Position Based Services Handling

Program's function: The user can modify and output the parameters of the object SMLC and create, delete, modify, and output the objects LCS element, LMU area, RIT transfer table, and Repeater in the BSC.

New command(s) and menu text(s):

A	CREATE LMU AREA
B	MODIFY LMU AREA PARAMETERS
C	CREATE LCS ELEMENT
D	DELETE LCS ELEMENT
E	CREATE RIT TRANSFER TABLE
F	DELETE RIT TRANSFER TABLE
G	MODIFY RIT TRANSFER TABLE PARAMETERS
H	CREATE REPEATER
I	OUTPUT LMU AREA PARAMETERS
K	DELETE REPEATER
L	OUTPUT REPEATER PARAMETERS
M	MODIFY LCS ELEMENT PARAMETERS
N	MODIFY SMLC PARAMETERS
O	OUTPUT LCS ELEMENT PARAMETERS
P	OUTPUT RIT TRANSFER TABLE PARAMETERS
Q	OUTPUT SMLC PARAMETERS

	R	DELETE LMU AREA
	T	MODIFY REPEATER PARAMETERS

2.2 (WB) BOHAND - Computer Configuration Handling

Program's function:		Commands for handling the Computer Configuration Table.
MML commands:	A	ADD MESSAGE BUS ADDRESS
	E	DELIVER DATA TO ALL COMPUTERS
	I	INTERROGATE COMPUTER CONFIGURATION
	M	MODIFY MESSAGE BUS ADDRESS
	R	REMOVE MESSAGE BUS ADDRESS

3 MODIFIED MML PROGRAMS

3.1 (AB) ABLHAN - Blocked Alarms Handling

Modified command:	O	OUTPUT BLOCKED ALARMS
Description of execution printout changes:		The following changes have been made to output field lengths: • the alarm number field has been shortened from 10 to 6 characters • the alarm text field has been lengthened from 60 to 64 characters • all other fields are unaffected

3.2 (CE) CSTHAN - Circuit State Handling

Modified command:	C	CHANGE EXTERNAL CIRCUIT STATE
Description of execution printout changes:		The printout form of guide and execution has been changed. The SYS-ST field has been moved to the second line and the SYS-ST field length has increased from WORD to DWORD. Execution printout:

```
EXTERNAL CIRCUIT(S) IN SPECIFIED STATES
CRCT     CGR    NCGR     OLDST  NEWST  CONN    COND
12-3     7      LYHL4    BA-US  WO-EX  IDLE
SYS-ST: 00000000000000000000000000000000
```

3.3 (CI) ISTHAN - Internal Routing States

Modified command:	C	MODIFY INTERNAL ROUTE STATE
Description of changes:		The new decimal-defined parameter bit based circuit(s) (BCRCT) has been added to the second parameter block. The parameter indicates the bit based circuit in pcm-tsl-subtsl.
Old syntax:		CII: (SWI | GSW | SSW) : (NCGR = <circuit group name>... | CGR = <circuit group number>... | CRCT = <circuit(s)...>) : (WO | BA) ;
New syntax:		CII: (SWI | GSW | SSW) : (NCGR = <circuit group name>... | CGR = <circuit group number>... | CRCT = <circuit(s)...> | BCRCT = <bit based circuit(s)...>) : (WO | BA) ; The command still works with the old syntax.
Description of execution printout changes:		The new parameter bit based circuit (BCRCT) has been added to the execution printout text.
Additional information:		New BCRCT printout is: `BCRCT  OLD STATE  NEW STATE`

Modified command:	I	INTERROGATE INTERNAL CIRCUIT OR CIRCUIT GROUP STATE
Description of changes:		The new decimal-defined parameter bit based circuit(s) (BCRCT) has been added to the second parameter block. the parameter indicates bit based circuit in pcm-tsl-subtsl.
Old syntax:		CII: (SWI | GSW | SSW) : (NCGR = <circuit group name>... | CGR = <circuit group number>... | CRCT = <circuit(s)...>) : (WO | BA) ;
New syntax:		CII: (SWI | GSW | SSW) : (NCGR = <circuit group name>... | CGR = <circuit group number>... | CRCT = <circuit(s)...> | BCRCT = <bit based circuit(s)...>) : (WO | BA) ; The command still works with the old syntax.

Description of execution printout changes:	The new parameter bit based circuit (BCRCT) has been added to the execution printout text.
Additional information:	New BCRCT printout is: `BCRCT STATE INFO`

3.4 (DB) DBHAND - Database Handling

New command(s) and menu text(s):	T	PREVENT OR RESUME DATABASE REMOTE COPY UPDATING
Modified command:	B	BUILD DIRECTORY
Description of changes:		The reference to TDL96 compiler has been removed from one of the error texts.
Removed error text(s):		/*** THIS COMMAND CAN ONLY BE APPLIED ON TDL96-BASED DATABASES ***/
New error text(s):		/*** COMMAND CAN NOT BE APPLIED ON THIS DATABASE ***/
Modified command:	C	COPY DATABASE TO DISK
Description of changes:		The error text has been changed to make it more understandable.
Removed error text(s):		/*** DATABASE HAS NO DISKS ***/
New error text(s):		/*** DATABASE HAS NO DISK COPY ***/

Modified command:	M	COPY DATABASE FROM DISK TO UNIT OR REFRESH SUBDATABASE
Description of changes:		The error text has been changed to make it more understandable.
Removed error text(s):		/*** DATABASE HAS NO DISKS ***/
New error text(s):		/*** DATABASE HAS NO DISK COPY ***/
Modified command:	O	SAVE DATABASE LOG TO DISK
Description of changes:		The error text has been changed to make it more understandable.
Removed error text(s):		/*** DATABASE HAS NO DISKS ***/
New error text(s):		/*** DATABASE HAS NO DISK COPY ***/
Modified command:	P	PREVENT UPDATING OF DATABASE IN MEMORY OR TO DISK
Description of changes:		The error text has been changed to make it more understandable.
Removed error text(s):		/*** DATABASE HAS NO DISKS ***/
New error text(s):		/*** DATABASE HAS NO DISK COPY ***/
Modified command:	R	RESUME UPDATING OF DATABASE IN MEMORY OR TO DISK
Description of changes:		The error text has been changed to make it more understandable.
Removed error text(s):		/*** DATABASE HAS NO DISKS ***/
New error text(s):		/*** DATABASE HAS NO DISK COPY ***/

Modified command:	S	DISPLAY DATABASE STATE
Description of changes:		The new position-defined parameter REM/NOREM has been added to the third parameter block.The parameter indicates whether to output the updating status of the database remote copy or not. Default value is NOREM. New error texts have been added.
Old syntax:		DBS: <database name>, < occurrence >: [SP | WO def];
New syntax:		DBS: <database name>, < occurrence >: [SP | WO def] : [REM | NOREM def]; The command does not work with the old syntax.
New error text(s):		/*** DATABASE HAS NO REMOTE COPY ***/ /*** REMOTE COPY INFORMATION NOT AVAILABLE ***/
Description of execution printout changes:		Six new fields have been added in the printout of the DBS command: COMP: width 4 digits, FAMILY: width 4 digits, PROCESS: width 4 digits, STATUS: width 15 characters, LOGBUF ID: width 4 digits and CONNECTION ID: width 2 digits. The possible values are alingned to the left under all new fields. STATUS field can have the following values: 'NORMAL', 'INITIALIZING', 'LOADING', 'WAITING TO LOAD', 'WAITING TO DUMP', 'DUMPING', 'DUMPING LOGBUFS', 'WAIT TO DUMPBUF', 'RESUMING', 'PREVENTING', 'PREVENTED'. In cases when the user wants to also see the updating status of a database remote copy, the command to be given is: DBS: <database_name>, <database_occurrence>:<WO or SP> :REM; In addition to the old printout, the program will output six new fields: COMP, FAMILY, PROCESS, STATUS, LOGBUF ID and CONNECTION ID
Modified command:	W	COPY DATABASE FROM DISK TO DISK

Description of changes:		The error text has been changed to be more understandable.
Removed error text(s):		/*** DATABASE HAS NO DISKS ***/
New error text(s):		/*** DATABASE HAS NO DISK COPY ***/
Modified command:	X	EMPTY DATABASE DISK UPDATING LOG
Description of changes:		The error text has been changed to be more understandable.
Removed error text(s):		/*** DATABASE HAS NO DISKS ***/
New error text(s):		/*** DATABASE HAS NO DISK COPY ***/

3.5 (DD) MDEBUG - Remote Debugger Session

Modified command:	E	EXECUTE DEBUGGER COMMAND
Description of changes:		The MML username has been added to the error text.
Removed error text(s):		/* REMOTE SESSION NOT STARTED WITH COMPUTER z AND FAMILY BE */ /* SESSION ON WITH COMPUTER x AND FAMILY y */ /*** REMOTE SESSION NOT STARTED WITH COMPUTER z AND FAMILY BF ***/ /*** SESSION ON WITH COMPUTER x AND FAMILY y ***/
New error text(s):		/* REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BE AND USER yyyyyy */ /* REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BE AND USER yyyyyy SESSION ON WITH COMPUTER aaaa, FAMILY bbbb AND USER cccccc */ /*** REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BF AND USER yyyyyy ***/ /*** REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BF AND USER yyyyyy SESSION ON WITH COMPUTER aaaa, FAMILY bbbb AND USER cccccc ***/

Modified command:	S	START REMOTE SESSION
Description of changes:		The MML username has been added to the error text.
Removed error text(s):		/* REMOTE SESSION NOT STARTED WITH COMPUTER z AND FAMILY BE */ /* SESSION ON WITH COMPUTER x AND FAMILY y */ /*** REMOTE SESSION NOT STARTED WITH COMPUTER z AND FAMILY BF ***/ /*** SESSION ON WITH COMPUTER x AND FAMILY y ***/
New error text(s):		/* REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BE AND USER yyyyyy */ /* REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BE AND USER yyyyyy SESSION ON WITH COMPUTER aaaa, FAMILY bbbb AND USER cccccc */ /*** REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BF AND USER yyyyyy ***/ /*** REMOTE SESSION NOT STARTED WITH COMPUTER xxxx, FAMILY 00BF AND USER yyyyyy SESSION ON WITH COMPUTER aaaa, FAMILY bbbb AND USER cccccc ***/

3.6 (DE) PEXHAN - File Conversion Handling

New command(s) and menu text(s):	X	DISPLAY PROGRESS OF CONVERSIONS
	R	DISPLAY REPORT FILE OF CONVERSIONS
Modified command(s) and menu text(s):	F	MODIFY MEMORY FILE HEADER ON DISK (OLD: MODIFY MEMORY FILE HEADER ON DISK)

Modified command:	C	CREATE MEMORY FILE ON DISK
Description of changes:		The new name-defined parameter MODE has been added. The parameter indicates the conversion run mode (fore or back)
Old syntax:		DEC: <file name>, <name extension>;
New syntax:		DEC: <file name>, <name extension>: MODE=FORE/BACK; The command still works with the old syntax.

Modified command:	M	COPY MEMORY FILE ON DISK
Description of changes:		The new name-defined parameter MODE has been added. It indicates the conversion run mode (fore or back).
Old syntax:		DEM: <source file name>, <source name extension>: <destination file name>, <destination name extension>;
New syntax:		DEM: <source file name>, <source name extension>: <destination file name>, <destination name extension>: MODE=FORE/BACK; The command still works with the old syntax.

Modified command:	Y	INTERROGATE/CHANGE ENVIRONMENT SETTINGS
Description of changes:		New parameter <system file unit> has been added.
Old syntax:		DEY: <object>: <path type>: <unit>: <full path>: <drive>;
New syntax:		DEY: <object>: <path type>: <unit>: <full path>: <drive>: <system file unit>; The command still works with the old syntax.

3.7 (DP) PPMHAN - Preprocessor Memory Handling

Modified command:	P	DISPLAY CID / PID OF PECTUS-TYPE PREPROSESSOR

Description of changes:

A new error text has been added.

New error text(s):

/*** PROGRAM PACKAGE IDENTIFIER NOT AVAILABLE ***/

Description of execution printout changes:

The P command is used to display program package information of the program package in the preprocessors. There will be additional RAM package version information as well as ROM package version information.

Previous output in execution result text (example):

```
CID:  ET2ROMQA.PAC 99.99-99 99/12/31
```

New changed execution result text:

```
ROM CID: ET2ROMQA.PAC 99.99-99 99/12/31
RAM CID: ET2RAMQA.PAC 99.99-99 99/12/31
```

3.8 (DS) DCDHAN - Primary Rate Access D-Channel Data Handling

Deleted Command(s) and menu text(s):	A	ADD SECONDARY D-CHANNEL TO D-CHANNEL LINK SET (No need to support secondary D-channels)
	M	MODIFY D-CHANNEL LINK SET DATA (No need to modify D-channel data)
	R	REMOVE SECONDARY D-CHANNEL FROM D-CHANNEL LINK SET (No need to support secondary D-channels)

Modified command:	B	INTERROGATE BASE STATION CONTROLLER D-CHANNEL DATA
Description of changes:		The semantics of the first parameter block have been changed. It is now possible to give the link set names with wild characters.
Old semantics:		Previously the link set names could only be given exactly.
New semantics:		Link set names can be given using wild characters (%). The command entry continues in the same way as before after a semantic error.

Modified command:	C	CREATE D-CHANNEL LINK SET
Description of changes:		The parameter <external PCM-TSL of secondary D-channel> has been removed.
Old syntax:		DSC: <D-channel link set name>: <unit type>, <unit index>: <external PCM-TSL of primary D-channel>, [<external PCM-TSL of secondary D-channel>] : <interface side>;
New syntax:		DSC: <D-channel link set name>: <unit type>, <unit index>: <external PCM-TSL of primary D-channel> : <interface side>; The command does not work with the old syntax.

Modified command:	F	INTERROGATE D-CHANNEL DATA OF FUNCTIONAL UNIT
Description of changes:		The parameter <functional unit type> is no longer obligatory. Default is all functional units.
Old semantics:		The parameter <functional unit type> is obligatory.
New semantics:		The parameter <functional unit type> is no more obligatory. Default is all functional units. The command entry continues in the same way as before after a semantic error.

Modified command:	I	INTERROGATE D-CHANNEL LINK SET DATA
Description of changes:		The semantics of the first parameter block have been changed. It is now possible to give the link set names with wild characters
Old semantics:		Previously the link set names could only be given exactly.
New semantics:		Link set names can be given using wild characters (%). The command entry continues in the same way as before after a semantic error.

3.9 (DT) DCTHAN - Primary Rate Access D-Channel State Handling

Modified command:	C	MODIFY D-CHANNEL WORKING STATE
Description of changes:		The parameter <D-channel in D-channel link set> has been removed. The parameter <state change> has been renamed as <D-channel state change>. The possible values of the parameter <state change> have been changed. The value SP has been removed.
Old syntax:		DTC: <D-channel link set name>: <D-channel in D-channel link set>, <state change>;
New syntax:		DTC: <D-channel link set name>:<D-channel state change>; The command does not work with the old syntax.
Old semantics:		Possible values of <state change>: WO, SP, BL, AL and AD
New semantics:		Possible values of <D-channel state change>: WO, BL, AL and AD

		The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		The column D-CHANN has been changed to the column INTERFACE SIDE. Values under the column label EXT PCM-TSL are aligned to the right. Values under the OLD STATE and NEW STATE columns are now centered to the middle of the column (no longer aligned to left).
Modified command:	F	INTERROGATE D-CHANNEL WORKING STATE OF FUNCTIONAL UNIT
Description of changes:		The parameter <functional unit type> is no more obligatory. Default is all functional units. A new position-defined parameter block has been added (as a third block). The new block includes the parameter <D-channel working state>. The parameter indicates the working state of the D-channels to be interrogated and is not obligatory. Possible values are WO, BL, BLUS and BLSY. Default value is all D-channels (in any working state).
Old semantics:		The parameter <functional unit type> is obligatory.
New semantics:		The parameter <functional unit type> is not obligatory. Default is all functional units. The command entry continues in the same way as before after a semantic error.
Old syntax:		DTF: <functional unit type>, [<functional unit general number>], [<functional unit index> | <all>def] : <signalling unit type>;
New syntax:		DTF: <functional unit type>, [<functional unit general number>], [<functional unit index> | <all>def] : [[<signalling unit type> | <all>def], [<signalling unit index> | <all>def]] : [<D-channel working state> | <all>def] ;

		The command still works with the old syntax.
Description of execution printout changes:		The column label of the UNIT column has been changed to SIGNALLING UNIT. The column label of the D-CHA column has been changed to D-CHA NUM. The column label of the STATE column has been changed to WORKING STATE.
Modified command:	I	INTERROGATE D-CHANNEL WORKING STATE
Description of changes:		The semantics of the first parameter block have been changed. Grouping (using the character "&") in parameter <D-channel link set name> is possible. The first parameter block "D-channel link set names" has been changed to "D-channel link set name or number(s)". The parameter <D-channel link set numbers> has been added to the first parameter block, and parameters in the first block have been changed from position-defined to name-defined. The second parameter block including the position-defined parameters <unit type> and <unit index> has been added. The third parameter block including the name-defined parameters PCM=<external PCM of D-channel> and SAPI=<service access point identifier> has been added. The fouth parameter block including the position-defined parameter <D-channel working state> has been added. The error text has been changed in case a precise link set name is asked.
Old semantics:		Multiple link set names in the parameter <D-channel link set name> cannot be given using the character "&".
New semantics:		Grouping with the character "&" is possible. The command entry continues in the same way as before after a semantic error.
Old syntax:		DTI:[<D-channel link set names> ! <all>def];
New syntax:		DTI:[[NAME=<D-channel link set name> ! <all>def] ! [NUMBER=<D-channel link set number>! <all>def]] : [[<unit type> ! <all> def], [<unit index> ! <all>def]] : [[SAPI=<service access point identifier> ! <all>def] ! [PCM=<external PCM of D-channel> ! <all>def]] : [<D-channel working state> ! <all>def] ;

		The command does not work with the old syntax.
Removed error text(s):		/*** DX ERROR: 10463 ***/ /*** D-CHANNEL DOES NOT EXIST ***/
New error text(s):		/*** UNKNOWN LINK SET ***/
Description of execution printout changes:		The column D-CHANN has been removed. The columns UNIT, INTERFACE SIDE and SAPI have been added. The values under the column label WORKING STATE are now centered to the middle of the column (no longer aligned to left).
Modified command:	S	INTERROGATE D-CHANNEL WORKING STATE OF SUBSCRIBER MODULE
Description of changes:		A new position-defined parameter block has been added (as a third block). The new block contains the parameter <D-channel working state>. The parameter indicates the working state of the D-channels to be interrogated and is not obligatory. Possible values are WO, UA, BL, BLSY and BLUS. Default value is all D-channels (D-channels in any working state).
Old syntax:		DTS:<subscriber stage>:<module number>;
New syntax:		DTS:<subscriber stage>:<module numbers>:<D-channel working state>; The command still works with the old syntax.
Modified command:	T	MODIFY D-CHANNEL WORKING STATE OF FUNCTIONAL UNIT
Description of execution printout changes:		The column label of the column UNIT has been changed to SIGNALLING UNIT.

3.10 (EA) PAEHAN - Adjacent Cell Handling

Deleted Command(s) and menu text(s):	N	MODIFY ADJACENT CELL LSA PARAMETERS (SoISA feature not on S10)
Modified command:	C	CREATE ADJACENT CELL PARAMETERS
Description of changes:		The project value for GSM 850 is added in S10, and the value ranges from 128...251. 16 new parameters have been added. The parameters SEG, SEGNAME, ASEG and ASEGNAME are shown, if the option SEGMENT_USAGE is on. The value range of the parameters SEG and ASEG is the same as the value range of the parameter BTS. SEGNAME and ASEGNAME can contain 1 to 15 characters. Parameter DADLA is shown if the option AMR_CODEC_ALLOWED is on. Parameters AGENA, GRXP, GTXP, PRC, HCS, GTEO, GPET, GREO, RAC, GBAR are shown if the option bsc_gprs_param_enabled is on. In the adjacent cell creation, if parameters AGENA, GTXP, PRC, HCS, RAC are not given and the SEG and the adjacent cell are in the same BSS, the value of this parameter is copied from the SEG. The PMAX1 and PMAX2 parameters replace the old PMAX parameter. New semantic error texts are added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.

Old syntax:	EAC: (BTS = <BTS identification> | NAME = <BTS name> | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ((LAC = <location area code>, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME = <adjacent cell name> | ASEG = < adjacent SEG identification > < option > | ASEGNAME = < adjacent SEG name > < option >) : [NCC = < network colour code >, BCC = < BTS colour code >, FREQ = < BCCH frequency >,] [[PMRG = <HO margin pbgt> | 6 def] [LMRG = <HO margin lev> | 3 def] [QMRG = <HO margin qual> | 0 def] [MRGS = <enable HO margin lev qual> | Y def] [PRI = <HO priority level> | 3 def] [OF = <HO load factor> | 1 def] [SL = <RX lev min cell> | -100 def] [AUCL = <HO level umbrella> | -47 def] [PMAX = <MS TX pwr max cell> | 33 def] [SYNC = <synchronized> | N def] [TRHO = <TRHO target level> | N def] [ACL = <adjacent cell layer> <option> | N def] [FMT = <fast moving threshold> <option> | 0 def] [POPT = <MS pwr opt level> <option> | no optimization def] [CTY = <cell type> <option> | GSM def] [CHAIN= <chained adj cell> <option> | N def] [HOTA = <HO target area> <option> | 0 def] [DRT = <Directed Retry threshold> <option> | -100 def] [IC = <interfered cell> <option> | 0 (no interference) def] [DADL = <target cell of direct access to desired layer> <option> | N def]] ... ;

New syntax:	EAC: (BTS = <BTS identification> | NAME = <BTS name> | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ((LAC = <location area code>, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME = <adjacent cell name> | ASEG = < adjacent SEG identification > < option > | ASEGNAME = < adjacent SEG name > < option >) : [NCC = < network colour code >, BCC = < BTS colour code >, FREQ = < BCCH frequency >,] [[PMRG = <HO margin pbgt> | 6 def] [LMRG = <HO margin lev> | 3 def] [QMRG = <HO margin qual> | 0 def] [MRGS = <enable HO margin lev qual> | Y def] [PRI = <HO priority level> | 3 def] [OF = <HO load factor> | 1 def] [SL = <RX lev min cell> | -100 def] [AUCL = <HO level umbrella> | -47 def] [PMAX1 = <MS TX pwr max cell> | 33 def (GSM 900/850)] [PMAX2 = <MS TX pwr max gsm1x00> < option > | 30 def (GSM 1800/GSM 1900)] [SYNC = <synchronized> | N def] [TRHO = <TRHO target level> | N def] [ACL = <adjacent cell layer> <option> | N def] [FMT = <fast moving threshold> <option> | 0 def] [POPT = <MS pwr opt level> <option> | no optimization def] [CTY = <cell type> <option> | GSM def] [CHAIN= <chained adj cell> <option> | N def] [HOTA = <HO target area> <option> | 0 def] [DRT = <Directed Retry threshold> <option> | -100 def] [IC = <interfered cell> <option> | 0 (no interference) def] [DADL = <target cell of direct access to desired layer> <option> | N def] [DADLA = <AMR target cell of direct access to desired layer> <option> | N def] [AGENA = <adjacent GPRS enabled> <option> | Y def] [GRXP = <GPRS rxlev access min> <option> | 105 def] [GTXP = <GPRS MS txpwr max CCH> <option> | 33 def] [PRC = <priority class> <option> | 7 def] [HCS = <HCS signal level threshold> <option> | N (not on use) def] [GTEO = <GPRS temporary offset> <option> | 0 def] [GPET = <GPRS penalty time> <option> | 10 def] [GREO = <GPRS reselect offset> <option> | 0 def] [RAC = <routing area code> <option> | 255 def] [GBAR = <GPRS cell barred> <option> | 0 (normal) def]] ... ; The command still works with the old syntax.
Old semantics:	FREQ = <frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)
New semantics:	FREQ = <frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) The command entry continues in the same way as before after a semantic error.

New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG, SEGNAME, ASEG and ASEGNAME are shown, if the option SEGMENT_USAGE is on. Parameter DADLA is shown if the option AMR_CODEC_ALLOWED is on. Parameters AGENA, GRXP, GTXP, PRC, HCS, GTEO, GPET, GREO, RAC, GBAR are shown if the option bsc_gprs_param_enabled is on. The PMAX1 and PMAX2 parameters replace the old PMAX parameter.
Modified command:	D	DELETE ADJACENT CELL PARAMETERS
Description of changes:		Four new parameters have been added. The parameters SEG, SEGNAME, ASEG and ASEGNAME are shown, if the option SEGMENT_USAGE is on. The value range of the parameters SEG and ASEG is the same as the value range of the parameter BTS. SEGNAME and ASEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.
Old syntax:		EAD: (BTS = < BTS identification > | NAME= < BTS name >) : ((LAC = <location area code>, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME= <adjacent cell name>) ;
New syntax:		EAD: (BTS = < BTS identification > | NAME= < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ((LAC = <location area code>, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME= <adjacent cell name> | ASEG = < adjacent SEG identification > < option > | ASEGNAME = < adjacent SEG name > < option >) ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown, if the option SEGMENT_USAGE is on.

Modified command:	M	MODIFY ADJACENT CELL PARAMETERS
Description of changes:		The project value for GSM 850 is added in S10, and the value ranges from 128...251. 18 new parameters have been added. The parameters SEG, SEGNAME, ASEG, ASEGNAME, NEWASEG, NEWASEGNAME are shown, if the option SEGMENT_USAGE is on. The value range of the parameters SEG, ASEG and NEWASEG are the same as the value range of the parameter BTS. SEGNAME, ASEGNAME and NEWASEGNAME can contain 1 to 15 characters. The parameter DADLA is shown if the option AMR_CODEC_ALLOWED is on. The parameters AGENA, GRXP, GTXP, PRC, HCS, GTEO, GPET, GREO, RAC, GBAR are shown if the option bsc_gprs_param_enabled is on. The PMAX1 and PMAX2 parameters replace the old PMAX parameter. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.
Old syntax:		EAM: (BTS = <BTS identification> | NAME = <BTS name>) : ((LAC = <location area code>, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME= <adjacent cell name>) : (NEWLAC = <new location area code> | NEWCI = <new cell identification> | NEWABTS = <new adjacent cell identification> | NEWANAME= <new adjacent cell name> | NCC = <network colour code> | BNCC = <background network colour code> | BCC = <BTS colour code> | BBCC = <background BTS colour code> | FREQ = <BCCH frequency> | BFREQ = <background BCCH frequency> | PMRG = <HO margin pbgt> | LMRG = <HO margin lev> | QMRG = <HO margin qual> | MRGS = <enable HO margin lev qual> | PRI = <HO priority level> | OF = <HO load factor> | SL = <RX lev min cell> | AUCL = <HO level umbrella> | PMAX = <MS TX pwr max cell> | SYNC = <synchronized> | TRHO = <TRHO target level> | ACL = <adjacent cell layer> <option> | FMT = <fast moving threshold> <option> | POPT = <MS pwr opt level> <option> | CTY = <cell type> <option> | CHAIN = <chained adj cell> <option> | HOTA = <HO target area> <option> | DRT = <DR threshold> <option> | IC = <interfered cell> <option> | BIC = <background interfered cell> <option> DADL = <target cell of direct access to desired layer> <option>] ...) ;

New syntax:	EAM: (BTS = <BTS identification> | NAME = <BTS name> | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ((LAC = <location area code>, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME= <adjacent cell name> | ASEG = < adjacent SEG identification > < option > | ASEGNAME = < adjacent SEG name > < option >) : (NEWLAC = <new location area code> | NEWCI = <new cell identification> | NEWABTS = <new adjacent cell identification> | NEWANAME= <new adjacent cell name> | NEWASEG = <new adjacent cell identification> | NEWASEGNAME= <new adjacent cell name> | NCC = <network colour code> | BNCC = <background network colour code> | BCC = <BTS colour code> | BBCC = <background BTS colour code> | FREQ = <BCCH frequency> | BFREQ = <background BCCH frequency> | PMRG = <HO margin pbgt> | LMRG = <HO margin lev> | QMRG = <HO margin qual> | MRGS = <enable HO margin lev qual> | PRI = <HO priority level> | OF = <HO load factor> | SL = <RX lev min cell> | AUCL = <HO level umbrella> | PMAX1 = <MS TX pwr max cell> | PMAX2 = <MS TX pwr max gsm1x00> | SYNC = <synchronized> | TRHO = <TRHO target level> | ACL = <adjacent cell layer> <option> | FMT = <fast moving threshold> <option> | POPT = <MS pwr opt level> <option> | CTY = <cell type> <option> | CHAIN = <chained adj cell> <option> | HOTA = <HO target area> <option> | DRT = <DR threshold> <option> | IC = <interfered cell> <option> | BIC = <background interfered cell> <option> DADL = <target cell of direct access to desired layer> <option> | DADLA = <AMR target cell of direct access to desired layer> <option> | AGENA = <adjacent GPRS enabled> <option> | GRXP = <GPRS rxlev access min> <option> | GTXP = <GPRS MS txpwr max CCH> <option> | PRC = <priority class> <option> | HCS = <HCS signal level threshold> <option> | GTEO = <GPRS temporary offset> <option> | GPET = <GPRS penalty time> <option> | GREO = <GPRS reselect offset> <option> | RAC = <routing area code> <option> | GBAR = <GPRS cell barred> <option>] ...) ; The command still works with the old syntax.
Old semantics:	FREQ = <frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) BFREQ = <background frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)
New semantics:	FREQ = <frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) BFREQ = < background frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)

		The command entry continues in the same way as before after a semantic error.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG, SEGNAME, ASEG and ASEGNAME are shown, if the option SEGMENT_USAGE is on. The parameter DADLA is shown if the option AMR_CODEC_ALLOWED is on. The parameters AGENA, GRXP, GTXP, PRC, HCS, GTEO, GPET, GREO, RAC, GBAR are shown if the option bsc_gprs_param_enabled is on. The PMAX1 and PMAX2 parameters replace the old PMAX parameter.
Modified command:	O	OUTPUT ADJACENT CELL PARAMETERS
Description of changes:		Four new parameters have been added. The parameters SEG, SEGNAME, ASEG and ASEGNAME are shown, if the option SEGMENT_USAGE is on. The value range of the parameters SEG and ASEG is the same as the value range of the parameter BTS. SEGNAME and ASEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.
Old syntax:		EAO: [[BTS = <BTS identification>... I NAME= <BTS name>... I <all> def] : [[LAC = <location area code>, CI = <cell identification>] I ABTS = <adjacent cell identification> I ANAME = <adjacent cell name>] I <all> def ;
New syntax:		EAO: [[BTS = <BTS identification>... I NAME= <BTS name>... I SEG = <SEG identification>... < option > I SEGNAME = <SEG name>... < option >] I <all> def] : [[LAC = <location area code>, CI = <cell identification>] I ABTS = <adjacent cell identification> I ANAME = <adjacent cell name> I ASEG = <adjasent SEG identification> I ASEGNAME = adjacent SEG name>] I <all> def ; The command still works with the old syntax.

New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG, SEGNAME, ASEG and ASEGNAME are shown, if the option SEGMENT_USAGE is on. The parameter DADLA is shown if the option AMR_CODEC_ALLOWED is on. The parameters AGENA, GRXP, GTXP, PRC, HCS, GTEO, GPET, GREO, RAC, GBAR are shown if the option bsc_gprs_param_enabled is on. The PMAX1 and PMAX2 parameters replace the old PMAX parameter.
Modified command:	T	CHECK ADJACENT CELL DATA
Description of execution print-out changes:		A new parameter, SEG, is shown in the execution printout.
Modified command:	X	MODIFY C/I HANDOVER PARAMETERS
Description of changes:		Four new parameters have been added. The parameters SEG, SEGNAME, ASEG and ASEGNAME are shown, if the option SEGMENT_USAGE is on. The value range of the parameters SEG and ASEG is the same as the value range of the parameter BTS. SEGNAME and ASEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.

Old syntax:	EAX: (BTS = <BTS identification> | NAME = <BTS name>) : ((LAC = <location area code >, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME= <adjacent cell name>) : ([LAC1 = <location area code of reference cell 1> | CI1 = <cell identification of reference cell 1> | L1 = <level adjustment 1> | W1 = <C/I estimation weight 1>] ... : [LAC2 = <location area code of reference cell 2> | CI2 = <cell identification of reference cell 2> | L2 = <level adjustment 2> | W2 = <C/I estimation weight 2>] ... : [LAC3 = <location area code of reference cell 3> | CI3 = <cell identification of reference cell 3> | L3 = <level adjustment 3> | W3 = <C/I estimation weight 3>] ... : [LAC4 = <location area code of reference cell 4> | CI4 = <cell identification of reference cell 4> | L4 = <level adjustment 4> | W4 = <C/I estimation weight 4>] ... : [LAC5 = <location area code of reference cell 5> | CI5 = <cell identification of reference cell 5> | L5 = <level adjustment 5> W5 = <C/I estimation weight 5>] ...) ; < option>
New syntax:	EAX: (BTS = <BTS identification> | NAME = <BTS name> | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ((LAC = <location area code >, CI = <cell identification>) | ABTS = <adjacent cell identification> | ANAME= <adjacent cell name> | ASEG = < adjacent SEG identification > < option > | ASEGNAME = < adjacent SEG name > < option >) : ([LAC1 = <location area code of reference cell 1> | CI1 = <cell identification of reference cell 1> | L1 = <level adjustment 1> | W1 = <C/I estimation weight 1>] ... : [LAC2 = <location area code of reference cell 2> | CI2 = <cell identification of reference cell 2> | L2 = <level adjustment 2> | W2 = <C/I estimation weight 2>] ... : [LAC3 = <location area code of reference cell 3> | CI3 = <cell identification of reference cell 3> | L3 = <level adjustment 3> | W3 = <C/I estimation weight 3>] ... : [LAC4 = <location area code of reference cell 4> | CI4 = <cell identification of reference cell 4> | L4 = <level adjustment 4> | W4 = <C/I estimation weight 4>] ... : [LAC5 = <location area code of reference cell 5> | CI5 = <cell identification of reference cell 5> | L5 = <level adjustment 5> W5 = <C/I estimation weight 5>] ...) ; < option> The command still works with the old syntax.
New error text(s):	/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:	The parameters SEG and SEGNAME are shown if the option SEGMENT_USAGE is on.

3.11 (EB) BAZAAR - BCCH and Mobile Allocation Frequency List and RA Handling

Modified command:	C	CREATE BCCH FREQUENCY LIST
Description of changes:		The values of parameter <type of BCCH frequency list> have been modified as follows: GSM --> 900 DCS --> 1800 DCS19 --> 1900 The new value 850 has been added to the parameter <type of BCCH frequency list>. The new frequency band 850 has been added to the parameter <frequency>. The value range of 850 is 128...251. If the Common BCCH feature is used, the maximum number of frequencies in one BCCH frequency list is 31. Otherwise the maximum number of frequencies in one BCCH frequency list is 32.
Old semantics:		Possible values of <type of BCCH frequency list>: GSM, DCS, DCS19, MULTI. The maximum number of frequencies in one BCCH frequency list is 32.
New semantics:		Possible values of <type of BCCH frequency list>: 850, 900, 1800, 1900, MULTI. If Common BCCH feature is used, the maximum number of frequencies in one BCCH frequency list is 31. Otherwise the maximum number of frequencies in one BCCH frequency list is 32. Command entry continues after semantic error the same way as before
Description of execution print-out changes:		Frequency bands are printed as follows: 850, 900, 1800, 1900, MULTI. (Old frequency bands were printed as follows: GSM, DCS, DCS19, MULTI.)

Modified command:	M	MODIFY BCCH FREQUENCY LIST
Description of changes:		The new frequency band 850 has been added to the parameter <frequency>. The value range of 850 is 128...251. If the Common BCCH feature is used, the maximum number of frequencies in one BCCH frequency list is 31.
Old semantics:		The maximum number of frequencies in one BCCH frequency list is 32.
New semantics:		If Common BCCH feature is used, the maximum number of frequencies in one BCCH frequency list is 31. Otherwise the maximum number of frequencies in one BCCH frequency list is 32. Command entry continues after semantic error the same way as before

Modified command:	E	CREATE MOBILE ALLOCATION FREQUENCY LIST
Description of changes:		The value range of the parameter <identification of mobile allocation frequency list> has been modified. The new value range is 1…255. The values of the parameter <type of mobile allocation frequency list> have been modified as follows: GSM --> 900 DCS --> 1800 DCS19 --> 1900 The new value 850 has been added to the parameter <type of mobile allocation frequency list>. The new frequency band 850 has been added to the parameter <frequency>. The value range of 850 is 128...251.
Old semantics:		Possible values of <identification of mobile allocation frequency list>: 1…128. Possible values of <type of mobile allocation frequency list>: GSM, DCS, DCS19.
New semantics:		Possible values of <identification of mobile allocation frequency list>: 1…255. Possible values of <type of mobile allocation frequency list>: 850, 900, 1800, 1900.

Modified command:	R	DELETE MOBILE ALLOCATION FREQUENCY LIST
Description of changes:		The value range of the parameter <identification of mobile allocation frequency list> has been modified. The new value range is 1…255.
Old semantics:		Possible values of <identification of mobile allocation frequency list>: 1…128.
New semantics:		Possible values of <identification of mobile allocation frequency list>: 1…255. Command entry continues after semantic error the same way as before

Modified command:	T	MODIFY MOBILE ALLOCATION FREQUENCY LIST
Description of changes:		The value range of the parameter <identification of mobile allocation frequency list> has been modified. The new value range is 1…255. The new frequency band 850 has been added to the parameter <frequency>. The value range of 850 is 128...251.
Old semantics:		Possible values of <identification of mobile allocation frequency list>: 1…128.
New semantics:		Possible values of <identification of mobile allocation frequency list>: 1…255. Command entry continues after semantic error the same way as before

Modified command:	I	OUTPUT MOBILE ALLOCATION FREQUENCY LIST(S)
Description of changes:		The value range of the parameter <identification of mobile allocation frequency list> has been modified. The new value range is 1…255. DX-error text removed while outputting a network with no MA-lists.

Old semantics:		Possible values of <identification of mobile allocation frequency list>: 1…128.
New semantics:		Possible values of <identification of mobile allocation frequency list>: 1…255. Command entry continues after semantic error the same way as before
Modified command:	O	OUTPUT BCCH FREQUENCY LIST(S)
Description of execution printout changes:		Frequency bands are printed as follows: 850, 900, 1800, 1900, MULTI. (Old frequency bands were printed as follows: GSM, DCS, DCS19, MULTI.) The parameters SEG (SEG identification) and SEGNAME (SEG name) are shown in the output if the option SEGMENT_USAGE is on. DX-error text removed while outputting a network with no MA-lists.
Modified command:	F	CREATE ROUTING AREA
Description of execution printout changes:		The parameters SEG (SEG identification) and SEGNAME (SEG name) are shown in the output if the option SEGMENT_USAGE is on.
Modified command:	H	MODIFY ROUTING AREA
Description of execution printout changes:		The parameters SEG (SEG identification) and SEGNAME (SEG name) are shown in the output if the option SEGMENT_USAGE is on.

Modified command:	P	OUTPUT ROUTING AREA(S)
Description of execution printout changes:		The parameters SEG (SEG identification) and SEGNAME (SEG name) are shown in the output if the option SEGMENT_USAGE is on. DX-error text removed while outputting a network with no Routing area.

3.12 (EE) PBCHAN - Base Station Controller Parameter Handling In BSC

Modified command:	I	OUTPUT RADIO NETWORK CONFIGURATION
Description of changes:		Two new parameters have been added. The parameters SEG and SEGNAME are shown, if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS and in addition SEG can have the value ALL. The SEGNAME can contain 1 to 15 characters.
Old syntax:		EEI: [[BCF = <BCF identification> ... | BTS = <BTS identification> ... | NAME = <BTS name> ...] | <all> def]: [<output type> | <NORM> def];
New syntax:		EEI: [[BCF = <BCF identification> ... | SEG = <SEG identification> ... <option> | SEGNAME = <SEG name> ... <option> | BTS = <BTS identification> ... | NAME = <BTS name> ...] | <all> def]: [<output type> | <NORM> def]; The command still works with the old syntax.
Description of execution print-out changes:		The possibility to output the radio network configuration by segments, if the option SEGMENT_USAGE is on, has been added. The output by segments is implemented if one of the parameters SEG or SEGNAME is given. If one of the parameters BCF, BTS or NAME is given, the radio network configuration is output as before without segments.

Modified command:	M	MODIFY GENERAL BASE STATION CONTROLLER PARAMETERS
Description of changes:		Six new parameters have been added. The parameters ACH, IAC, SAL and ASG are shown if the option AMR_ALLOWED is on. The parameters CSD and CSU are shown if the option GPRS is on. The values of the parameters ACH and IAC are 1 and 2. The values of the parameters SAL and ASG are Y and N. The values of the parameter CSD range from 0 to 100 and the values of the parameter CSU from 0 to 10.
Old syntax:		EEM: (NPC = <number of preferred cells> | GMAC = <GSM macrocell threshold> | GMIC = <GSM microcell threshold> | DMAC = <DSC macrocell threshold> | DMIC = <DSC microcell threshold> | DISB = <ms distance behaviour> | TIM = <BTS site battery backup forced HO timer> | EEF= <enable emergency call on FACCH> | EPF = <enable answer to paging call on FACCH> <option> | EOF = <enable ordinary calls on FACCH> <option> | ERF = <enable call re-establishment on FACCH> <option> | HRI = <TCH in handover> <option> | HRL = <lower limit for FR TCH resources> <option> | HRU = <upper limit for FR TCH resources> <option> | BCN = <BSC call number> <option> | AUT = <AMH upper load threshold> <option> | ALT = <AMH lower load threshold> <option> | AML = <AMH max load of target cell> <option> | TGT = <TRHO guard time> | HDL = <HO preference order interference DL> | HUL = <HO preference order interference UL> | CLR = <load rate for channel search>) ... ;

New syntax:		EEM: (NPC = <number of preferred cells> | GMAC = <GSM macrocell threshold> | GMIC = <GSM microcell threshold> | DMAC = <DSC macrocell threshold> | DMIC = <DSC microcell threshold> | DISB = <ms distance behaviour> | TIM = <BTS site battery backup forced HO timer> | EEF= <enable emergency call on FACCH> | EPF = <enable answer to paging call on FACCH> <option> | EOF = <enable ordinary calls on FACCH> <option> | ERF = <enable call re-establishment on FACCH> <option> | HRI = <TCH in handover> <option> | HRL = <lower limit for FR TCH resources> <option> | HRU = <upper limit for FR TCH resources> <option> | BCN = <BSC call number> <option> | AUT = <AMH upper load threshold> <option> | ALT = <AMH lower load threshold> <option> | AML = <AMH max load of target cell> <option> | ACH = <AMR configuration in handovers> <option> | IAC = <initial AMR channel rate> <option> | SAL = <slow AMR LA enabled> <option> | ASG = <AMR set grades enabled> <option> | CSD = <free TSL for CS downgrade> <option> | CSU = <free TSL for CS upgrade> <option> | TGT = <TRHO guard time> | HDL = <HO preference order interference DL> | HUL = <HO preference order interference UL> | CLR = <load rate for channel search>) ... ; The command still works with the old syntax.
Description of execution print-out changes:		The new optional (AMR_ALLOWED) parameters ACH (AMR configuration in handovers), IAC (initial AMR channel rate), SAL (slow AMR LA enabled) and ASG (AMR set grades enabled) have been added to the execution printout. New optional (GPRS) parameters CSD (free TSL for CS downgrade) and CSU (free TSL for CS upgrade) have also been added to the execution printout.
Modified command:	O	OUTPUT BASE STATION CONTROLLER PARAMETERS
Description of changes:		The new value of QOS has been added to the parameter group. It is shown if the GRPS option is on.

Old semantics:	EEO: [<parameter group> | <GEN> def]; <parameter group> values: GEN ... GENERAL BASE STATION CONTROLLER PARAMETERS SUP ... RADIO NETWORK SUPERVISION PARAMETERS MIS ... MISCELLANEOUS PARAMETERS HOT ... DYNAMIC HOTSPOT PARAMETERS PRI ... PRIORITY LEVEL TO SUBSCRIBER TYPES ALL ... ALL PARAMETERS DEFAULT IS GEN GROUP
New semantics:	EEO: [<parameter group> | <GEN> def]; <parameter group> values: GEN ... GENERAL BASE STATION CONTROLLER PARAMETERS SUP ... RADIO NETWORK SUPERVISION PARAMETERS MIS ... MISCELLANEOUS PARAMETERS HOT ... DYNAMIC HOTSPOT PARAMETERS QOS ... QUALITY OF SERVICE PARAMETERS PRI ... PRIORITY LEVEL TO SUBSCRIBER TYPES ALL ... ALL PARAMETERS DEFAULT IS GEN GROUP The command entry continues in the same way as before after a semantic error.
Description of execution print-out changes:	The QOS (quality of service) parameters have been added to the printout of all parameters in the EEO command and the possibility to output the QOS parameters alone has been added. The QOS parameters are output if the GPRS option is on. Six new parameters have been added to the output of the general base station controller parameters: ACH, IAC, SAL and ASG (which are output if the AMR option is on), and CSD and CSU (which are output it the GPRS option is on). Four new parameters have been added to the output of the miscellaneous parameters. The output parameters are MNDL and MNUL if the GPRS option is on, FPHO if the FER option is on, and ISS if the options MULTI_BGF, COMMON_BCCH_EGSM900 and COMMON_BCCH_GSM1800 are on.

Modified command:	Q	MODIFY MISCELLANEOUS PARAMETERS
Description of changes:		Four new parameters have been added. The parameters MNDL (maximum number of DL TBF) and MNUL (maximum number of UL TBF) are shown if the GPRS option is on. The parameter FPHO (FEP in PC HO use) is shown if the FER option is on. The parameter ISS (intra segment SDCCH HO guard) is shown if the options MULTI_BGF, COMMON_BCCH_EGSM900 and COMMON_BCCH_GSM1800 are on.The values of the parameter MNDL range from 0 to 9 and the values of the parameter MNUL from 0 to 7. The values of the parameter FPHO are Y and N. The values of the parameter ISS range from 0 to 255.
Old syntax:		EEQ: (BCSUL = <BCSU load threshold> | LAPDL = <LAPD load threshold> | MSSCF = <upper limit of MS speed class 1> | MSSCS = <upper limit of MS speed class 2> | ALFRT = <alarm limit for full rate TCH availability> | ALHRT = <alarm limit for half rate TCH availability> | ALSDC = <alarm limit for SDCCH availability> | DINHO = <disable internal HO> | DEXDR = <disable external DR> | RXBAL = <RX level balance> | RXANT = <RX antenna supervision period> | ITCF = <number of ignored transcoder failures> | VDLS = <variable DL step size>) ... ;
New syntax:		EEQ: (BCSUL = <BCSU load threshold> | LAPDL = <LAPD load threshold> | MSSCF = <upper limit of MS speed class 1> | MSSCS = <upper limit of MS speed class 2> | ALFRT = <alarm limit for full rate TCH availability> | ALHRT = <alarm limit for half rate TCH availability> | ALSDC = <alarm limit for SDCCH availability> | DINHO = <disable internal HO> | DEXDR = <disable external DR> | RXBAL = <RX level balance> | RXANT = <RX antenna supervision period> | ITCF = <number of ignored transcoder failures> | VDLS = <variable DL step size> | MNDL = <maximum number of DL TBF> <option> | MNUL = <maximum number of UL TBF> <option> | FPHO = <FEP in PC HO use> <option> | ISS = <intra segment SDCCH HO guard> <option>) ... ;

		The command still works with the old syntax.
Description of execution print-out changes:		MNDL (maximum number of DL TBF) and MNUL (maximum number of UL TBF) have been added to the execution printout if the option GPRS is on. FPHO (FEP in PC HO use) has been added to the execution printout if the option FER is on. ISS (intra segment SDCCH HO guard) has been added to the execution printout if the options MULTI_BGF, COMMON_BCCH_EGSM900 and COMMON_BCCH_GSM1800 are on.

3.13 (EF) PBFHAN - Base Control Function Handling

Modified command:	O	OUTPUT BASE CONTROL FUNCTION PARAMETERS
Description of execution print-out changes:		: The parameters SEG (SEG identification) and SEGNAME (SEG name) are shown in the output if the option SEGMENT_USAGE is on.

3.14 (EH) HCPHAN - Handover Control Parameter Handling

New command(s) and menu text(s):	B	MODIFY AMR SIGNAL QUALITY THRESHOLD PARAMETERS

Modified command:	A	MODIFY AVERAGING PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown, if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHA: (BTS = < BTS identification > | NAME = < BTS name >) : (LDWS = < level downlink window size > | LDW = < level downlink weighting > | LUWS = < level uplink window size > | LUW = < level uplink weighting > | QDWS = < quality downlink window size > | QDW = < quality downlink weighting > | QUWS = < quality uplink window size > | QUW = < quality uplink weighting > | MSA = < MS speed averaging > <option>) ... ;
New syntax:		EHA: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (LDWS = < level downlink window size > | LDW = < level downlink weighting > | LUWS = < level uplink window size > | LUW = < level uplink weighting > | QDWS = < quality downlink window size > | QDW = < quality downlink weighting > | QUWS = < quality uplink window size > | QUW = < quality uplink weighting > | MSA = < MS speed averaging > <option>) ... ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header, if the option SEGMENT_USAGE is on.

Modified command:	C	CREATE HANDOVER CONTROL PARAMETERS
Description of changes:		Four new parameters have been added. The parameters SEG, SEGNAME, RSEG and RSEGNAME are shown, if the option SEGMENT_USAGE is on. The value ranges of the parameters SEG and RSEG are the same as the value range of the parameter BTS. The parameters SEGNAME and RSEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EUC: (BTS = < BTS identification > | NAME = < BTS name >), [REF = < reference BTS identification > | RNAME = < reference BTS name >] ;
New syntax:		EUC: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >), [REF = < reference BTS identification > | RNAME = < reference BTS name > | RSEG = < reference SEG identification > < option > | RSEGNAME = < reference SEG name > < option >] ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on. The parameters QDRF, QURF, QDRH, QURH, IHRF and IHRH are shown if the option AMR_ALLOWED is on. Also, the parameters GCIF, BCIF, GCIH and BCIH are shown if the option IUO_ALLOWED is on.

Modified command:	D	MODIFY MS DISTANCE PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHD: (BTS = < BTS identification > | NAME = < BTS name >) : (MSWS = < MS distance averaging window size > | MSR = < MS distance threshold param MS max range> | MSP = < MS distance threshold param Px > | MSN = < MS distance threshold param Nx > | MAX = < MS distance HO threshold ext cell max > < option > | MIN = < MS distance HO threshold ext cell min > < option >) ... ;
New syntax:		EHD: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (MSWS = < MS distance averaging window size > | MSR = < MS distance threshold param MS max range> | MSP = < MS distance threshold param Px > | MSN = < MS distance threshold param Nx > | MAX = < MS distance HO threshold ext cell max > < option > | MIN = < MS distance HO threshold ext cell min > < option >) ... ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

Modified command:	G	MODIFY GENERAL PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHG: (BTS = < BTS identification > | NAME = < BTS name >) : (EIC = < enable intracell handover interference UL > | EIH = < enable intracell handover interference DL > | EPB = < enable power budget handover > | EMS = < enable MS distance process > | ESD = < enable SDCCH handover > < option > | EUM = < enable umbrella handover > | EFA = < enable fast averaging call setup > | EFP = < enable fast averaging PC > | EFH = < enable fast averaging HO > | MIH = < min int between HO req > | MIU = < min int between unsucc HO attempt > | HPP = < handover period power budget > | HPU = < handover period umbrella > | ATPM = < AMH TRHO PBGT margin > < option > | ATCM = < AMH traffic control MCN > < option > | ATCI = < AMH traffic control IUO > < option >) ... ;
New syntax:		EHG: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (EIC = < enable intracell handover interference UL > | EIH = < enable intracell handover interference DL > | EPB = < enable power budget handover > | EMS = < enable MS distance process > | ESD = < enable SDCCH handover > < option > | EUM = < enable umbrella handover > | EFA = < enable fast averaging call setup > | EFP = < enable fast averaging PC > | EFH = < enable fast averaging HO > | MIH = < min int between HO req > | MIU = < min int between unsucc HO attempt > | HPP = < handover period power budget > | HPU = < handover period umbrella > | ATPM = < AMH TRHO PBGT margin > < option > | ATCM = < AMH traffic control MCN > < option > | ATCI = < AMH traffic control IUO > < option >) ... ; The command still works with the old syntax.

New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.
Modified command:	I	MODIFY SIGNAL INTERFERENCE THRESHOLD PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHI: (BTS = < BTS identification > | NAME = < BTS name >) : (IDR = < threshold interference downlink Rx level > | IDP = < threshold interference downlink Px > | IDN = < threshold interference downlink Nx > | IUR = < threshold interference uplink Rx level > | IUP = < threshold interference uplink Px > | IUN = < threshold interference uplink Nx >) ... ;
New syntax:		EHI: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (IDR = < threshold interference downlink Rx level > | IDP = < threshold interference downlink Px > | IDN = < threshold interference downlink Nx > | IUR = < threshold interference uplink Rx level > | IUP = < threshold interference uplink Px > | IUN = < threshold interference uplink Nx >) ... ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

Modified command:	N	MODIFY PARAMETERS RELATED TO ADJACENT CELL
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHN: (BTS = < BTS identification > | NAME = < BTS name >) : (AWS = < adjacent cell averaging window size > | NOZ = < number of zero results > | AAC = < all adjacent cells averaged >) ... ;
New syntax:		EHN: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (AWS = < adjacent cell averaging window size > | NOZ = < number of zero results > | AAC = < all adjacent cells averaged >) ... ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

Modified command:	O	OUTPUT HANDOVER CONTROL PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHO: (BTS = < BTS identification > ... | NAME = < BTS name > ...) ;
New syntax:		EHO: (BTS = < BTS identification > ... | NAME = < BTS name > ... | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on. The parameters QDRF, QURF, QDRH, QURH, IHRF and IHRH are shown if option AMR_ALLOWED is on. Also, the parameters GCIF, BCIF, GCIH and BCIH are shown if option IUO_ALLOWED is on.

Modified command:	P	MODIFY MS SPEED PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHP: (BTS = < BTS identification > | NAME = < BTS name >) : (LSL = < lower speed limit > | USL = < upper speed limit > | STP = < MS speed threshold Px > | STN = < MS speed threshold Nx > | SDS = < MS speed detection state >) ... ; < option >
New syntax:		EHP: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (LSL = < lower speed limit > | USL = < upper speed limit > | STP = < MS speed threshold Px > | STN = < MS speed threshold Nx > | SDS = < MS speed detection state >) ... ; < option > The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

Modified command:	Q	MODIFY SIGNAL QUALITY THRESHOLD PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHQ: (BTS = < BTS identification > | NAME = < BTS name >) : (QDR = < threshold qual downlink Rx qual > | QDP = < threshold qual downlink Px > | QDN = < threshold qual downlink Nx > | QUR = < threshold qual uplink Rx qual > | QUP = < threshold qual uplink Px > | QUN = < threshold qual uplink Nx >) ... ;
New syntax:		EHQ: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (QDR = < threshold qual downlink Rx qual > | QDP = < threshold qual downlink Px > | QDN = < threshold qual downlink Nx > | QUR = < threshold qual uplink Rx qual > | QUP = < threshold qual uplink Px > | QUN = < threshold qual uplink Nx >) ... ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

Modified command:	S	MODIFY SIGNAL STRENGTH THRESHOLD PARAMETERS

Description of changes:

Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters.

New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.

Old syntax:

EHS: (BTS = < BTS identification > | NAME = < BTS name >) : (LDR = < threshold level downlink Rx level > | LDP = < threshold level downlink Px > | LDN = < threshold level downlink Nx > | LUR = < threshold level uplink Rx level > | LUP = < threshold level uplink Px > | LUN = < threshold level uplink Nx > | RPD = < threshold level uplink for rapid field drop > < option > | CNT = < count of successive rapid field drop thresholds > < option > | ERFD = < enable enhanced rapid field drop > < option > | ERT = < threshold deep dropping edge Rx level > < option > | ERP = < threshold deep dropping edge Px > < option > | ERN = < threshold deep dropping edge Nx > < option > | ERMW = < deep dropping edge monitoring window > < option > | ERAW = < modified averaging window > < option > | ERZ = < modified number of zero results > < option > | ERD = < enhanced rapid field drop duration > < option >) ... ;

New syntax:

EHS: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (LDR = < threshold level downlink Rx level > | LDP = < threshold level downlink Px > | LDN = < threshold level downlink Nx > | LUR = < threshold level uplink Rx level > | LUP = < threshold level uplink Px > | LUN = < threshold level uplink Nx > | RPD = < threshold level uplink for rapid field drop > < option > | CNT = < count of successive rapid field drop thresholds > < option > | ERFD = < enable enhanced rapid field drop > < option > | ERT = < threshold deep dropping edge Rx level > < option > | ERP = < threshold deep dropping edge Px > < option > | ERN = < threshold deep dropping edge Nx > < option > | ERMW = < deep dropping edge monitoring window > < option > | ERAW = < modified averaging window > < option > | ERZ = < modified number of zero results > < option > | ERD = < enhanced rapid field drop duration > < option >) ... ;

The command still works with the old syntax.

New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.
Modified command:	X	MODIFY C/I HANDOVER PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.
Old syntax:		EHX: (BTS = < BTS identification > | NAME = < BTS name >) : [< C/I estimation method >] : [P1 = < priority adjustment step for band 1 > | L1 = < lower C/I limit for band 1 > | P2 = < priority adjustment step for band 2 > | L2 = < lower C/I limit for band 2 > | P3 = < priority adjustment step for band 3 > | L3 = < lower C/I limit for band 3 > | P4 = < priority adjustment step for band 4 > | L4 = < lower C/I limit for band 4 > | P5 = < priority adjustment step for band 5 > | L5 = < lower C/I limit for band 5 > | P6 = < priority adjustment step for band 6 > | L6 = < lower C/I limit for band 6 > | P7 = < priority adjustment step for band 7 >] ... ; < option >
New syntax:		EHX: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : [< C/I estimation method >] : [P1 = < priority adjustment step for band 1 > | L1 = < lower C/I limit for band 1 > | P2 = < priority adjustment step for band 2 > | L2 = < lower C/I limit for band 2 > | P3 = < priority adjustment step for band 3 > | L3 = < lower C/I limit for band 3 > | P4 = < priority adjustment step for band 4 > | L4 = < lower C/I limit for band 4 > | P5 = < priority adjustment step for band 5 > | L5 = < lower C/I limit for band 5 > | P6 = < priority adjustment step for band 6 > | L6 = < lower C/I limit for band 6 > | P7 = < priority adjustment step for band 7 >] ... ; < option > The command still works with the old syntax.

New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.
Modified command:	Y	MODIFY INTELLIGENT UNDERLAY-OVERLAY PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTS's, this error text is shown.

Old syntax:	EHY: (BTS = < BTS identification > | NAME = < BTS name >) : (METH = < super reuse estimation method > | EFHO = < enable inter FRT handover > <option> | SIZE = < interfering cell averaging window size > < option > | ZERO = < interfering cell number of zero results > < option > | AVER = < all interfering cells averaged > < option > | GCI = < super reuse good C/I threshold > < option > | GPX = < super reuse good C/I threshold Px > < option > | GNX = < super reuse good C/I threshold Nx > < option > | BCI = < super reuse bad C/I threshold > < option > | BPX = < super reuse bad C/I threshold Px > < option > | BNX = < super reuse bad C/I threshold Nx > < option > | TIM = < minimum BSIC decode time > < option > | ETA = < enable TCH assignment super IUO > < option > | MIO = < min interval between unsucc IUO HO > | MIR = < min interval between IUO HO req BQ > | CGR = < super reuse good threshold Rx level > < option > | CGP = < super reuse good threshold Px > < option > | CGN = < super reuse good threshold Nx > < option > | CBR = < super reuse bad threshold Rx level > < option > | CBP = < super reuse bad threshold Px > < option > | CBN = < super reuse bad threshold Nx > < option >) ... ; < option >
New syntax:	EHY: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (METH = < super reuse estimation method > | EFHO = < enable inter FRT handover > <option> | SIZE = < interfering cell averaging window size > < option > | ZERO = < interfering cell number of zero results > < option > | AVER = < all interfering cells averaged > < option > | GCI = < super reuse good C/I threshold > < option > | GPX = < super reuse good C/I threshold Px > < option > | GNX = < super reuse good C/I threshold Nx > < option > | BCI = < super reuse bad C/I threshold > < option > | BPX = < super reuse bad C/I threshold Px > < option > | BNX = < super reuse bad C/I threshold Nx > < option > | TIM = < minimum BSIC decode time > < option > | ETA = < enable TCH assignment super IUO > < option > | MIO = < min interval between unsucc IUO HO > | MIR = < min interval between IUO HO req BQ > | CGR = < super reuse good threshold Rx level > < option > | CGP = < super reuse good threshold Px > < option > | CGN = < super reuse good threshold Nx > < option > | CBR = < super reuse bad threshold Rx level > < option > | CBP = < super reuse bad threshold Px > < option > | CBN = < super reuse bad threshold Nx > < option >) ... ; < option > The command still works with the old syntax.

New error text(s):	/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:	The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

3.15 (EO) AHPHAN - Base Transceiver Station Alarms Handling

Modified command:	H	LIST ALARM HISTORY
Description of changes:		The name-defined parameter OBJ can now have a new parameter value, TRU, in the second parameter block. The possible values are BCF, OMU, FU, CU, RTSL, PCM, LAPD, BTS, TRE, DMR and TRU.
Old semantics:		The possible values of the parameter OBJ are: BCF, OMU, FU, CU, RTSL, PCM, LAPD, BTS, TRE and DMR.
New semantics:		The possible values of the parameter OBJ are: BCF, OMU, FU, CU, RTSL, PCM, LAPD, BTS, TRE, DMR and TRU. The command entry continues in the same way as before after a semantic error.
Additional information:		BSS10054, Nokia Q1 support for Talk Family BTS(DF6.0) has a new object type called TRU (Transmission Unit).
Description of execution printout changes:		In the alarm history command printout, the 'Alarm object' can now have the value TRU.
Additional information:		For more details see the document 'Alarm structure'.

3.16 (EQ) PBTHAN - Base Transceiver Station Handling In BSC

Modified command:	C	CREATE BTS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. For the parameter SEG identification, the possible values are the same as BTS identification. The default value is the same as the BTS identification value. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name. The default value is the same as the value for BTS name. The possible values of the parameter <frequency band in use> have changed. There is one new value: 850.
Old syntax:		BCF = < BCF identification >, BTS =< BTS identification >, [NAME = < BTS name > | < no name > def] : ... : ... : ... : ... : ... : [HOP = < BTS hopping mode > | UHOP = < underlay BTS hopping mode > <option> | HSN1 = < hopping sequence number 1 >| HSN2 = < hopping sequence number 2 > UHSN = < underlay hopping sequence number > <option>] ... ;
New syntax:		BCF = < BCF identification >, BTS =< BTS identification >, [NAME = < BTS name > | < no name > def] , [SEG = < SEG identification > < option > | < BTS identification > def] , [SEGNAME = < SEG name > < option > | < BTS name > def] : : ... : ... : ... : ... : ... : [HOP = < BTS hopping mode > | UHOP = < underlay BTS hopping mode > <option> | HSN1 = < hopping sequence number 1 >| HSN2 = < hopping sequence number 2 > | UHSN = < underlay hopping sequence number > <option>] ...; The command still works with the old syntax.
Old semantics:		The possible values of <frequency band in use>: 900, 1800, and 1900.
New semantics:		The possible values of <frequency band in use>: 850, 900, 1800, and 1900. The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.

Modified command:	B	MODIFY BCCH FREQUENCY LIST USAGE PARAMETERS
Description of changes:		It is now possible to use wild card characters & and && with the BTS parameter when attaching the same identification of BCCH frequency list to several BTSs. The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the value for the parameter BTS name.
Old semantics:		It is possible to use only one value when attaching the identification of BCCH frequency list.
New semantics:		The possible values are the same but now wild card characters & and && can be used. The command entry continues in the same way as before after a semantic error.
Old syntax:		(BTS =< BTS identification > | NAME = < BTS name >) : ..
New syntax:		(BTS =< BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ... The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.

Modified command:	E	MODIFY BTS IDENTIFICATION PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. A new name-defined parameter new SEG name has been added to the second parameter block. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name. For the parameter new SEG name, the possible values are the same as for new BTS name.
Old syntax:		(BTS =< BTS identification > | NAME = < BTS name >) : ...

New syntax:		(BTS =< BTS identification > I NAME = < BTS name > I SEG = < SEG identification > < option > I SEGNAME = < SEG name > < option >) : (NEWNAME = new BTS name >I NEWSEGNAME = <new SEG name > <option> I... The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.
Modified command:	F	MODIFY CELL ACCESS PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The new name-defined parameters GPRS not allowed access classes (GACC), and GPRS cell barred (GBAR) have been added to the second parameter block. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name. The parameter GPRS not allowed access classes defines the MS access classes that are not allowed to access a cell. The possible values are 0 - 9 and 11 -15. The parameter GPRS cell barred combines the cell barred (BAR) and cell bar qualify (QUA) parameters and indicates the status for cell reselection. The possible values are 1 and 0.
Old syntax:		(BTS =< BTS identification > I NAME = < BTS name >) : ..
New syntax:		(BTS =< BTS identification > I NAME = < BTS name > I SEG = < SEG identification > < option > I SEGNAME = < SEG name > < option >) : (.... DRM = <directed retry method > <option> I GPNA = <GPRS not allowed access classes > <option> I GBAR = <GPRS cell barred> <option>) ... ; The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG), SEG name (SEGNAME), GPRS not allowed access classes (GACC) and GPRS cell barred (GBAR) have been added to the execution printout text. The new parameters are optional.

Modified command:	G	MODIFY RADIO LINK CONTROL DL PARAMETERS

Description of changes:

The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name.

The new name-defined parameters GPRS rxlev access min (GRXP), GPRS ms txpwr max cch (GTXP), GPRS cell reselect hysteresis (GHYS), GPRS non BCCH layer rxlev upper limit (GPU), GPRS non BCCH layer rxlev lower limit (GPL), direct GPRS access threshold (DIRE), ra reselect hysteresis (RRH), C31 hysteresis (CHYS), C32 qual (QUAL), priority class (PRC), and HCS threshold (HCS) have been added to the second parameter block.

The parameter GPRS rxlev access min defines the minimum power level an MS has to receive before it is allowed to access the cell. The possible values are from -110 dBm to -47 dBm.

The parameter GPRS ms txpwr max cch defines the maximum transmission power level an MS may use when accessing a packet control channel in the cell. The possible values depend on the BTS's frequency band.

The parameter GPRS cell reselect hysteresis defines additional hysteresis applied in the READY state for selecting a cell in the same routing area. The possible values are 0, 2, 4, 6, 8, 10, 12, and 14 dB.

The parameter GPRS non BCCH layer rxlev upper limit defines the minimum power level the MS has to receive to allocate resources from the BTS. The possible values are from -110 to -47 dBm.

The parameter GPRS non BCCH layer rxlev lower limit defines the threshold when reallocation to a better BTS must be made. The possible values are from -110 to -47 dBm.

The parameter direct GPRS access BTS defines which BTSs may be used for GPRS or EGPRS without signal level measurements. The possible values are Y and N.

	The parameter ra reselect hysteresis defines additional hysteresis applied in both STANDBY and READY states for selecting a cell in a different routing area. The possible values are: 0, 2, 4, 6, 8, 10, 12, and 14 dB. The parameter C31 hysteresis indicates GPRS cell reselection criterion. The possible values are Y and N. The parameter C32 qual indicates an exception rule for GPRS_RESELECT_OFFSET. The possible values are: Y and N. The parameter random access retry indicates that the mobile station will try to access another cell if available in the event of an abnormal release with cell reselection. The possible values are: Y and N. The parameter T_RESEL defines the mobile station that has perfomed an abnormal release with cell reselection from this cell. The possible values are 5, 10, 15, 20, 30, 60, 120 and 300 seconds, and N. The parameter priority class defines the HCS (hierarchical cell structures) priority for the cells. The possible values are from 0 to 7. The parameter HCS threshold defines the signal strength threshold for applying HCS in GPRS and LSA reselection.
Old syntax:	(BTS =< BTS identification > | NAME = < BTS name >) : (HYS = < cell reselect hysteresis >| TXP = < MS txpwr max CCH >....
New syntax:	(BTS =< BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (... GRXP = < GPRS rxlev access min > <option> | GTXP = < GPRS ms txpwr max cch > <option> | GHYS = < GPRS cell reselect hysteresis > <option> | GPU = < GPRS non BCCH layer rxlev upper limit > <option> | GPL = < GPRS non BCCH layer rxlev lower limit > <option> | DIRE = < direct GPRS access BTS > <option> | RRH = < ra reselect hysteresis > <option> | CHYS = < C31 hysteresis > <option> | QUAL = < C32 qual > <option> | PRC = <priority class > <option> | HCS = <HCS threshold > <option>) ... ; The command still works with the old syntax.
Description of execution printout changes:	The new parameters SEG identification (SEG), SEG name (SEGNAME), GPRS rxlev access min (GRXP), GPRS ms txpwr max cch (GTXP), GPRS cell reselect hysteresis (GHYS), GPRS non BCCH layer rxlev upper limit (GPU), GPRS non BCCH layer rxlev lower limit (GPL), direct GPRS access BTS (DIRE), ra reselect hysteresis (RRH), C31 hysteresis (CHYS), C32 qual (QUAL), priority class (PRC), and HCS threshold (HCS) have been added to the execution printout text. The new parameters are optional.

Modified command:	H	MODIFY QUEUEING PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name.
Old syntax:		(BTS =< BTS identification > | NAME = < BTS name >) : ..
New syntax:		(BTS =< BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ... The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.

Modified command:	J	MODIFY CCH CONFIGURATION PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name. New name-defined parameters PBCCH blocks (PBB), PAGCH blocks (PAB), and PRACH blocks (PRB) have been added to the second parameter block. The parameter PAGCH blocks indicates the number of blocks on each PDCH carrying the PCCCH per multiframe where neither packet paging nor PBCCH should appear. The possible values are from 0 to 12. The parameter PRACH blocks indicates the number of blocks reserved in a fixed way to the PRACH channel on any PDCH carrying PCCCH. The possible values are from 0 to 12. The parameter PBCCH blocks defines the amount of blocks allocated to the PBCCH in the multiframe. The possible values are from 0 to 4.

Old syntax:		(BTS =< BTS identification > | NAME = < BTS name >) : ..
New syntax:		(BTS =< BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (.... PBB = <PBCCH blocks> <option> | PAB = <PAGCH blocks> <option> | PRB = <PRACH blocks> <option>) ... ; The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG), SEG name (SEGNAME), PBCCH blocks (PBB) , PAGCH block (PAB), and PRACH blocks (PRB) have been added to the execution printout text. The new parameters are optional.
Modified command:	K	MODIFY INTERFERENCE AVERAGING PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name.
Old syntax:		(BTS =< BTS identification > | NAME = < BTS name >) : ..
New syntax:		(BTS =< BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ... The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.

Modified command:	M	MODIFY MISCELLANEOUS PARAMETERS

Description of changes:

The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name.

The new name-defined parameters MS TX pwr max gsm (PMAX1), MS TX pwr max gsm1x00 (PMAX2), non BCCH layer offset (NBL), calculate minimum number of slots (CALC), GPRS number of slots spread trans (GSLO), GPRS max number of retransmission (GRET), and BTS load in SEG (LSEG) have been added to the second parameter block.

The parameter MS TX pwr max gsm defines the maximum power level an MS may use in the serving cell. The parameter's values are 5...43 dBm with 2dBm step.

The parameter MS TX pwr max gsm1x00 defines the maximum power level an MS may use in the serving cell. The parameter's values are 0...36 dBm with 2 dBm step.

The parameter non BCCH layer offset defines that a predefined offset margin is used when evaluating the signal level of the non BCCH layer. The parameter's values are from -10 to +10 dBm.

The parameter calculate minimum number of slots is used for calculating the minimum number of slots between two successive Channel Request messages. The possible values are 12, 15, 20, 30, 41, 55, 76, 109, 163, and 217.

The parameter GPRS number of slots spread trans defines the number of slots to spread transmission on the PRACH. The possible values are 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 20, 25, 32, and 50.

The parameter GPRS max number of retransmission indicates, for each Radio Priority level 1 to 4, the maximum number of retransmissions allowed on the PRACH. The possible values are 1, 2, 4, and 7.

The parameter BTS load in SEG determines the load limit for a BTS. It is used in controlling the load distribution between the BTSs in a segment. The possible values are from 0 to 100.

Old syntax:

(BTS =< BTS identification > | NAME = < BTS name >) : ..

New syntax:		(BTS =< BTS identification > I NAME = < BTS name > I SEG = < SEG identification > < option > I SEGNAME = < SEG name > < option >) : [(.... PMAX1 = <MS TX pwr max gsm> <option>I PMAX2 = <MS TX pwr max gsm1x00> <option>I ..... NBL = < non BCCH layer offset > <option> I CALC = < calculate minimum number of slots > <option> I GPN = < GPRS number of slots spread trans > <option> I GPM = < GPRS max number of retransmission > <option> I LSEG = < BTS load in SEG > <option>] ... : The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG), SEG name (SEGNAME), MS TX pwr max gsm (PMAX1), MS TX pwr max gsm1x00 (PMAX2), non BCCH layer offset (NBL), calculate minimum number of slots (CALC), GPRS number of slots spread trans (GPN), GPRS max number of retransmission (GPM), BTS load in SEG (LSEG) have been added to the execution printout text. The new parameters are optional.
Modified command:	T	MODIFY TRUNK RESERVATION PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name.
Old syntax:		(BTS =< BTS identification > I NAME = < BTS name >) : ..
New syntax:		(BTS =< BTS identification > I NAME = < BTS name > I SEG = < SEG identification > < option > I SEGNAME = < SEG name > < option >) : ... The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.

Modified command:	V	MODIFY BTS GPRS PARAMETERS

Description of changes:

The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name.

The new name-defined parameters EGPRS enabled (EGENA), max GPRS capacity (CMAX), DL adaptation probability threshold (DLA), UL adaptation probability threshold (ULA), DL BLER crosspoint for CS selection in case of no frequency hopping (DLB), UL BLER crosspoint for CS selection in case of no frequency hopping (ULB), DL BLER crosspoint for CS selection in case of frequency hopping (DLBF), UL BLER crosspoint for CS selection in case of frequency hopping (ULBF), coding scheme in case of no frequency hopping (COD), coding scheme in case of frequency hopping (CODF), initial MCS for acknowledged mode (MCA), initial MCS for unacknowledged mode (MCU), maximum BLER in acknowledged mode (BLA), maximum BLER in unacknowledged mode (BLU), mean BEP offset GMSK (MBG), mean BEP offset 8PSK (MBP), and network service entity identifier (NSEI) have been added to the second parameter block.

The parameter EGPRS enables enabling or disabling EGPRS on the BTS level. The possible values are Y and N.

The parameter max GPRS capacity defines the maximum number of PSW (packet switched) channels in a BTS. The possible values are from 0 to 100.

The parameter DL adaptation probability threshold defines the allowed probability (%) to make a wrong decision in downlink adaptation. The possible values are from 0 to 50.

The parameter UL adaptation probability threshold defines the allowed probability (%) to make a wrong decision in uplink adaptation. The possible values are from 0 to 50.

The parameter DL BLER crosspoint for CS selection in case of no frequency hopping indicates the RLC BLER (block error rate in units of per cent) for CS-1 channel coding. The possible values are from 0 to 100.

The parameter UL BLER crosspoint for CS selection in case of no frequency hopping indicates the RLC BLER (block error rate in units of per cent) for CS-1 channel coding. The possible values are from 0 to 100.

The parameter DL BLER crosspoint for CS selection in case of frequency hopping indicates the RLC BLER (block error rate in units of per cent) for CS-1 channel coding. The possible values are from 0 to 100.

The parameter UL BLER crosspoint for CS selection in case of frequency hopping indicates the RLC BLER (block error rate in units of per cent) for CS-1 channel coding. The possible values are from 0 to 100.

The parameter coding scheme in case of no frequency hopping indicates the selection of Coding Scheme in RLC (Radio Link Control) Acknowledged mode in case frequency hopping is not used. The possible values are from 0 to 3.

The parameter coding scheme in case of frequency hopping indicates the selection of Coding Scheme in RLC (Radio Link Control) Acknowledged mode in case frequency hopping is used. The possible values are from 0 to 3.

The parameter initial MCS for acknowledged mode indicates the Modulation and Coding Scheme (MCS) used at the beginning of a TBF for acknowledged mode. The values range from 0 to 9. The new parameter is optional.

The parameter initial MCS for unacknowledged mode indicates the MCS used at the beginning of a TBF for unacknowledged mode. The values range from 0 to 9. The new parameter is optional.

The parameter maximum BLER in acknowledged mode indicates the maximum block error rate of first transmission in acknowledged mode. The values range from 10 to 100 %. The new parameter is optional.

The parameter maximum BLER in unacknowledged mode indicates the maximum block error rate in unacknowledged mode. The values range from 1to 100. The new parameter is optional.

The parameter mean BEP offset GMSK adjust the MCS and modulation preferences. The values range from 31 to 31. The new parameter is optional.

The parameter mean BEP offset 8PSK adjust the MCS and modulation preferences. The values range from 31 to 31. The new parameter is optional.

The parameter network service entity identifier select the network service entity identifier to which the BTS/SEG will be connected.

Old syntax:	(BTS =< BTS identification > | NAME = < BTS name >) : ..
New syntax:	(BTS =< BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ... (GENA = < GPRS enabled > | EGENA = < EGPRS enabled > <option> | .... CMAX =< max GPRS capacity > | .... DLA = < DL adaptation probability threshold >| ULA = < UL adaptation probability threshold > | DLB = < DL BLER crosspoint for CS selection in case of no frequency hopping > | ULB = < UL BLER crosspoint for CS selection in case of no frequency hopping >| DLBF = < DL BLER crosspoint for CS selection in case of frequency hopping > | ULBF = < UL BLER crosspoint for CS selection in case of frequency hopping > | COD = < coding scheme in case of no frequency hopping > | CODF = < coding scheme in case of frequency hopping > | MCA = < initial MCS for acknowledged mode > <option> | MCU = < initial MCS for unacknowledged mode > <option> | BLA = < maximum BLER in acknowledged mode > <option> | BLU = < maximum BLER in unacknowledged mode > <option> | MBG = < mean BEP offset GMSK > <option> | MBP = < mean BEP offset 8PSK > <option>] ... : [NSEI = < network service entity identifier >]) ; <option> The command still works with the old syntax.
Description of execution printout changes:	The new parameters SEG identification (SEG), SEG name (SEGNAME), EGPRS enabled (EGENA), max GPRS capacity (CMAX), DL adaption probability threshold (DLA), UL adaption probability threshold (ULA), DL BLER crosspoint for CS selection in case of no frequency hopping (DLB), UL BLER crosspoint for CS selection in case of no frequency hopping (ULB), DL BLER crosspoint for CS selection in case of frequency hopping (DLBF), UL BLER crosspoint for CS selection in case of frequency hopping (ULBF), coding scheme in case of no frequency hopping (COD), coding scheme in case of frequency hopping (CODF), initial MCS for acknowledged mode (MCA), initial MCS for unacknowledged mode (MCU), maximum BLER in acknowledged mode (BLA), maximum BLER in unacknowledged mode (BLU), mean BEP offset GMSK (MBG), and mean BEP offset 8PSK (MBP), and network service entity identifier (NSEI) have been added to the execution printout text. The new parameters are optional.

Modified command:	X	MODIFY DATA SERVICE PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name.
Old syntax:		BTS =< BTS identification > | NAME = < BTS name >) : ..
New syntax:		(BTS =< BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ... The command still works with the old syntax.
Description of execution printout changes:		The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.

Modified command:	O	OUTPUT BTS PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. The parameter SEG identification identifies the segment. The parameter SEG name identifies the segment by name. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name. The possible values of <parameter group> have changed. There is one new value: AMR.
Old syntax:		(BTS =< BTS identification > | NAME = < BTS name >) | (LAC = < location area code >, CI = < cell identification >) : ..
New syntax:		(BTS =< BTS identification > | NAME = < BTS name > | (LAC = < location area code >, CI = < cell identification >) | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : ...

	The command still works with the old syntax.
New semantics:	There is one new value: AMR. The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:	The new parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the execution printout text. The new parameters are optional.

3.17 (ER) PTRHAN - Transceiver Handling

Modified command:	C	CREATE TRANSCEIVER
Description of changes:		The new parameter GPRS enabled TRX (GTRX) has been added to the second parameter block. The possible values are Y and N. The default value is Y. The new name-defined parameter dynamic Abis pool id (DAP) has been added to the second parameter block. The parameter indicates dynamic Abis pool id. The values can be 1...470 or N which means that the parameter is not used. The default value is N. The parameter is optional. In the third block, the parameters FREQ, TSC, and PCM-TSL have been changed from position-defined parameters to name-defined parameters due to software development. The value range of the parameter FREQ <frequency> has been changed for the 850 band. The value range for the 850 band is 128...251.
Old syntax:		ERC: (BTS = <BTS identification> | NAME= <BTS name>) , TRX = <transceiver identification> : [[FLO = <TRX type> | def=N] [PREF = <preferred BCCH TRX> | def=N] [TRA = <TRX transmission type> <option> | def=NORM] [ETRX = <E-TRX type> <option> | def=N] [AC = <autoconfigure> <option> | def=N]] ... : [<frequency> , <training sequence code> , <Abis speech circuit>] :

New syntax:		ERC: (BTS = <BTS identification> | NAME= <BTS name>) , TRX = <transceiver identification> : [[FLO = <TRX type> | def=N] [PREF = <preferred BCCH TRX> | def=N] [TRA = <TRX transmission type> <option> | def=NORM] [ETRX = <E-TRX type> <option> | def=N] [AC = <autoconfigure> <option> | def=N] [GTRX = <GPRS enabled TRX> <option> | def=Y] [DAP = <dynamic Abis pool id> <option> | def=N]] ... : [FREQ = <frequency> , TSC = <training sequence code> , PCMTSL = <Abis speech circuit>] : The command does not work with the old syntax.
Old semantics:		FREQ = <frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)
New semantics:		FREQ = <frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		The new parameter GPRS enabled TRX (GTRX) is shown in the execution printout for the command ERO. The new printouts SEG identification and SEG name have been added. The new parameter dynamic Abis pool id (DAP) has been added to the execution printout text. The DAP field indicates the pool id or N (NOT USED). The control channel MPBCCH (PBCCH/PCCCH option) has been added to the printout text.
Modified command:	D	DELETE TRANSCEIVER
Description of changes:		The value range of the parameter IFREQ <TRX identification with frequency> has been changed for the 850 band. The value range for the 850 band is 128...251.
Old semantics:		IFREQ <TRX identification with frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)

New semantics:		IFREQ <TRX identification with frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		New printouts SEG identification and SEG name have been added.
Modified command:	M	MODIFY TRANSCEIVER AND RADIO TIME SLOT PARAMETERS
Description of changes:		The value range of the parameters FREQ, IFREQ, and BFREQ has been changed for the 850 band. The value range for the 850 band is 128...251.
Old semantics:		FREQ, IFREQ and BFREQ values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)
New semantics:		FREQ, IFREQ and BFREQ values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		New printouts SEG identification and SEG name have been added.
Modified command:	O	OUTPUT TRANSCEIVER PARAMETERS
Description of changes:		The new name-defined parameters SEG identification (SEG) and SEG name (SEGNAME) have been added to the first parameter block. For the parameter SEG identification, the possible values are the same as for BTS identification. For the parameter SEG name, the possible values are the same as the values for the parameter BTS name. The value range of the parameter IFREQ <TRX identification with frequency> has been changed for the 850 band. The value range for the 850 band is 128...251.
Old syntax:		(BCF = < BCF identification > | BTS = < BTS identification > | NAME = < BTS name >) ,

New syntax:		(BCF = < BCF identification > | BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) , The command still works with the old syntax.
Old semantics:		IFREQ <TRX identification with frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)
New semantics:		IFREQ <TRX identification with frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		The new printouts SEG identification and SEG name have been added. The new parameter dynamic Abis pool id (DAP) has been added to the execution printout text. The DAP field indicates the pool id or N (NOT USED). The control channel MPBCCH (PBCCH/PCCCH option) has been added to the printout text.
Modified command:	S	CHANGE TRANSCEIVER AND RADIO TIME SLOT STATE
Description of changes:		The value range of the parameter IFREQ <TRX identification with frequency> has been changed for the 850 band. The value range for the 850 band is 128...251.
Old semantics:		IFREQ <TRX identification with frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)
New semantics:		IFREQ <TRX identification with frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		New printouts SEG identification and SEG name have been added.

Modified command:	Y	MODIFY TRANSCEIVER UNDERLAY-OVERLAY PARAMETERS
Description of changes:		The value range of the parameter IFREQ <TRX identification with frequency> has been changed for the 850 band. The value range for the 850 band is 128...251.
Old semantics:		IFREQ <TRX identification with frequency> values: 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900)
New semantics:		IFREQ <TRX identification with frequency> values: 128...251 (850) 1...124 and 975...1023, 0 (GSM 900) 512...885 (GSM 1800) 512...810 (GSM 1900) The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		New printouts SEG identification and SEG name have been added.

3.18 (ET) TRKHAN - Trunk Reservation Algorithm Handling

Modified command:	O	OUTPUT DECISION THRESHOLD PARAMETERS
Description of execution printout changes:		The parameters SEG (SEG identification) and SEGNAME (SEG name) are shown in the output if the option SEGMENT_USAGE is on.

3.19 (EU) PORTER - Power Control Parameter Handling

New command(s) and menu text(s):	M	MODIFY DATA SERVICE PARAMETERS - Optional - GPRS
	B	MODIFY AMR SIGNAL QUALITY THRESHOLD PARAMETERS
Modified command:	A	MODIFY AVERAGING PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTSs, this error text is shown.
Old syntax:		EUA: (BTS = < BTS identification > | NAME = < BTS name >) : (LDS = < pc averaging lev dl window size > | LDW = < pc averaging lev dl weighting > | LUS = < pc averaging lev ul window size > | LUW = < pc averaging lev ul weighting > | QDS = < pc averaging qual dl window size > | QDW = < pc averaging qual dl weighting > | QUS = < pc averaging qual ul window size > | QUW = < pc averaging qual ul weighting >) ... ;
New syntax:		EUA: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (LDS = < pc averaging lev dl window size > | LDW = < pc averaging lev dl weighting > | LUS = < pc averaging lev ul window size > | LUW = < pc averaging lev ul weighting > | QDS = < pc averaging qual dl window size > | QDW = < pc averaging qual dl weighting > | QUS = < pc averaging qual ul window size > | QUW = < pc averaging qual ul weighting >) ... ; The command still works with the old syntax.

New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.
Modified command:	C	CREATE POWER CONTROL PARAMETERS
Description of changes:		Four new parameters have been added. The parameters SEG, SEGNAME, RSEG and RSEGNAME are shown if the option SEGMENT_USAGE is on. The value ranges of the parameters SEG and RSEG are the same as the value range of the parameter BTS. The SEGNAME and RSEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTSs, this error text is shown.
Old syntax:		EUC: (BTS = < BTS identification > | NAME = < BTS name >), [REF = < reference BTS identification > | RNAME = < reference BTS name >] ;
New syntax:		EUC: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >), [REF = < reference BTS identification > | RNAME = < reference BTS name > | RSEG = < reference SEG identification > < option > | RSEGNAME = < reference SEG name > < option >] ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on. Default values of parameters UDRF, UURF, LDRF, LURF, UDRH, UURH, LDRH, and LURH are shown if the option AMR_ALLOWED is on. Also, the default value of parameter BEP is shown if the option EGPRS is on.

Modified command:	G	MODIFY GENERAL PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when SEG consists of several BTSs, this error text is shown.
Old syntax:		EUG: (BTS = < BTS identification > | NAME = < BTS name >) : (PENA = < power CTRL enabled > | PMAX = < BS TX PWR max > | PMIN = < BS TX PWR min > | INC = < power incr step size > | RED = < power red step size > | INT = < power control interval > | PD0 = < power decr limit band 0 > | PD1 = < power decr limit band 1 > | PD2 = < power decr limit band 2 > | PDF = < power decr qual factor > | AENA = < ALA enabled > | ALIM = < power limit ALA > | AMIN = < min int between ALA >) ... ;
New syntax:		EUG: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (PENA = < power CTRL enabled > | PMAX = < BS TX PWR max > | PMIN = < BS TX PWR min > | INC = < power incr step size > | RED = < power red step size > | INT = < power control interval > | PD0 = < power decr limit band 0 > | PD1 = < power decr limit band 1 > | PD2 = < power decr limit band 2 > | PDF = < power decr qual factor > | AENA = < ALA enabled > | ALIM = < power limit ALA > | AMIN = < min int between ALA >) ... ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

Modified command:	M	MODIFY DATA SERVICE PARAMETERS
Description of changes:		3 new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. Parameter BEP is shown when the option EGPRS_USAGE is on. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.
Old syntax:		EUM: (BTS = < BTS identification > | NAME = < BTS name >) : (PRV = < PBCCH power reduction value > | IFP = < idle mode signal strength filter period > | TFP = < transfer mode signal strength filter period > | ALPHA = < binary representation ALPHA > | GAMMA = < binary representation TAU >) ... ; < option >
New syntax:		EUM: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (PRV = < PBCCH power reduction value > | IFP = < idle mode signal strength filter period > | TFP = < transfer mode signal strength filter period > | ALPHA = < binary representation ALPHA > | GAMMA = < binary representation TAU > | BEP = < bit error probability period > <option>) ... ; < option > The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on. The parameter BEP is shown if the option EGPRS_USAGE is on.

Modified command:	O	OUTPUT POWER CONTROL PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.
Old syntax:		EUO: (BTS = < BTS identification > ... | NAME = < BTS name > ...) ;
New syntax:		EUO: (BTS = < BTS identification > ... | NAME = < BTS name > ... | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on. Parameters UDRF, UURF, LDRF, LURF, UDRH, UURH, LDRH, and LURH are shown if the option AMR_ALLOWED is on. Also, the parameter BEP is shown if the option EGPRS is on.
Modified command:	Q	MODIFY SIGNAL QUALITY THRESHOLD PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.

Old syntax:	EUQ: (BTS = < BTS identification > | NAME = < BTS name >) : (UDR = < pc upper thresholds qual dl Rx qual > | UDP = < pc upper thresholds qual dl Px > | UDN = < pc upper thresholds qual dl Nx > | UUR = < pc upper thresholds qual ul Rx qual >| UUP = < pc upper thresholds qual ul Px > | UUN = < pc upper thresholds qual ul Nx > | LDR = < pc lower thresholds qual dl Rx qual > | LDP = < pc lower thresholds qual dl Px > | LDN = < pc lower thresholds qual dl Nx > | LUR = < pc lower thresholds qual ul Rx qual >| LUP = < pc lower thresholds qual ul Px > | LUN = < pc lower thresholds qual ul Nx > | LQR = < pc lower thresholds qual144 Rx qual > | LQP = < pc lower thresholds qual144 Px > | LQN = < pc lower thresholds qual144 Nx >) ... ;
New syntax:	EUQ: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (UDR = < pc upper thresholds qual dl Rx qual > | UDP = < pc upper thresholds qual dl Px > | UDN = < pc upper thresholds qual dl Nx > | UUR = < pc upper thresholds qual ul Rx qual >| UUP = < pc upper thresholds qual ul Px > | UUN = < pc upper thresholds qual ul Nx > | LDR = < pc lower thresholds qual dl Rx qual > | LDP = < pc lower thresholds qual dl Px > | LDN = < pc lower thresholds qual dl Nx > | LUR = < pc lower thresholds qual ul Rx qual >| LUP = < pc lower thresholds qual ul Px > | LUN = < pc lower thresholds qual ul Nx > | LQR = < pc lower thresholds qual144 Rx qual > | LQP = < pc lower thresholds qual144 Px > | LQN = < pc lower thresholds qual144 Nx >) ... ; The command still works with the old syntax.
New error text(s):	/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:	The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

Modified command:	S	MODIFY SIGNAL STRENGTH THRESHOLD PARAMETERS
Description of changes:		Two new parameters have been added. The parameters SEG AND SEGNAME are shown if the option SEGMENT_USAGE is on. The value range of the parameter SEG is the same as the value range of the parameter BTS. SEGNAME can contain 1 to 15 characters. New semantic error texts have been added due to the option SEGMENT_USAGE. If the user gives the parameter BTS or NAME when the SEG consists of several BTSs, this error text is shown.
Old syntax:		EUS: (BTS = < BTS identification > | NAME = < BTS name >) : (UDR = < pc upper thresholds lev dl Rx level > | UDP = < pc upper thresholds lev dl Px > | UDN = < pc upper thresholds lev dl Nx > | UUR = < pc upper thresholds lev ul Rx level >| UUP = < pc upper thresholds lev ul Px > | UUN = < pc upper thresholds lev ul Nx > | LDR = < pc lower thresholds lev dl Rx level > | LDP = < pc lower thresholds lev dl Px > | LDN = < pc lower thresholds lev dl Nx > | LUR = < pc lower thresholds lev ul Rx level >| LUP = < pc lower thresholds lev ul Px > | LUN = < pc lower thresholds lev ul Nx >) ... ;
New syntax:		EUS: (BTS = < BTS identification > | NAME = < BTS name > | SEG = < SEG identification > < option > | SEGNAME = < SEG name > < option >) : (UDR = < pc upper thresholds lev dl Rx level > | UDP = < pc upper thresholds lev dl Px > | UDN = < pc upper thresholds lev dl Nx > | UUR = < pc upper thresholds lev ul Rx level >| UUP = < pc upper thresholds lev ul Px > | UUN = < pc upper thresholds lev ul Nx > | LDR = < pc lower thresholds lev dl Rx level > | LDP = < pc lower thresholds lev dl Px > | LDN = < pc lower thresholds lev dl Nx > | LUR = < pc lower thresholds lev ul Rx level >| LUP = < pc lower thresholds lev ul Px > | LUN = < pc lower thresholds lev ul Nx >) ... ; The command still works with the old syntax.
New error text(s):		/*** BTS OR NAME ARE ALLOWED ONLY IF SEGMENT HAS ONE BTS ***/
Description of execution print-out changes:		The parameters SEG and SEGNAME are shown in the header if the option SEGMENT_USAGE is on.

3.20 (EW) SWEHAN - BCF Software Handling

Modified command:	L	LIST EXISTING BCF SOFTWARE BUILDS

Description of execution printout changes:		One possible new value, "CX", has been added in the column "TYPE". One possible new value, "C/P", has been added in the column "INITIAL". Example 1:
		`TYPE`
		`---------`
		`B`
		`DF`
		`I`
		`CX`
		Example 2:
		`INITIAL`
		`------------`
		`B`
		`D/F`
		`I`
		`C/P`

Modified command:	P	LIST BCF SOFTWARE BUILD CONTENTS

Description of execution printout changes:		One possible new value, "CX", has been added in the row "BUILD TYPE". For example:
		`DX 200 GSM-LAB 2000-12-18`
		`14:25:00`
		`SOFTWARE BUILD CONTENTS`
		`BUILD ID ... CX_SW_BUILD_1`
		`BUILD TYPE ... CX`

Modified command:	A	ATTACH SOFTWARE BUILD TO BCF
Description of execution printout changes:		One possible old value, "O&M LINK STATE", has been replaced with "O & M LINK STATE" in the column "REASON FOR DENIAL".

Modified command:	V	ACTIVATE BCF SOFTWARE BUILD
Description of execution printout changes:		One possible old value, "O&M LINK STATE", has been replaced with "O & M LINK STATE" in the column "REASON FOR DENIAL".

3.21 (FU) FR1HAN - Frame Relay Bearer Channel Handling

Modified command:	C	CREATE FRAME RELAY BEARER CHANNEL
Description of changes:		The new position-defined parameter <PIU index> has been added to the fourth parameter block. The parameter defines the plug-in unit in which the FR user access is located.
Old syntax:		FUC: [<bearer channel id> | first free def], <bearer channel name>: <access rate>, : <external pcm>, [<first external tsl> | system def]: [<unit type> | system def], [<unit index> | system def];
New syntax:		FUC: [<bearer channel id> | first free def], <bearer channel name>: <access rate>, : <external pcm>, [<first external tsl> | system def]: [<unit type> | system def], [<unit index> | system def], [<piu index> | system def]; The command does not work with the old syntax.

3.22 (FW) GNLHAN - GPRS Ns Layer Handling

Modified command:	O	OUTPUT NETWORK SERVICE VIRTUAL CONNECTION DATA
Description of execution printout changes:		In the execution printout the spaces between parameter columns have been redefined to clarify the readout.

Modified command:	C	CREATE NETWORK SERVICE VIRTUAL CONNECTION
Description of execution printout changes:		In the execution printout the spaces between parameter columns have been redefined to clarify the readout.
Modified command:	D	DELETE NETWORK SERVICE VIRTUAL CONNECTION
Description of execution printout changes:		In the execution printout the spaces between parameter columns have been redefined to clarify the readout.
Modified command:	M	MODIFY NETWORK SERVICE VIRTUAL CONNECTION DATA
Description of execution printout changes:		In the execution printout the spaces between parameter columns have been redefined to clarify the readout.

3.23 (IA) AUTHOR - MMI System Authority Handling

Modified command(s) and menu text(s):	S	CHANGE PASSWORD OF OTHER USER ID: Optionality Yes –> No.
New command(s) and menu text(s):	F	CHANGE SERVICE TERMINAL PASSWORD - 30312
	Q	RESET LOGIN DELAYS
	X	MODIFY MML SESSION IDLE TIME LIMIT

Modified command:	A	CREATE OR MODIFY PROFILE
Description of changes:		The new name-defined parameter <MML Session idle time limit> (TLIMIT) has been added to the fourth parameter block. The parameter indicates the MML session time-out in minutes. The minimum value of the parameter is 1 and the maximum value is 60. Default value is 15.
Old syntax:		IAA: <profile>: BASEP=<base profile>, <command class>=<authority>...: PARAPW=<YES/NO>, VTIME=<password validity time>, ACCESS=<COM/MED/LIM>, UNIQUE=<YES/NO>;
New syntax:		IAA: <profile>: BASEP=<base profile>, <command class>=<authority>...: PARAPW=<YES/NO>, VTIME=<password validity time>, ACCESS=<COM/MED/LIM>, UNIQUE=<YES/NO>: TLIMIT=<MML Session idle time limit>; The command still works with the old syntax.

Modified command:	G	CHANGE OWN PASSWORD
Description of changes:		The error text has been changed because of a Pronto correction. One error text has been replaced with two different error texts.
Removed error text(s):		/*** PASSWORD IS TOO EASY TO GUESS; PLEASE CHOOSE ANOTHER STRING ***/
New error text(s):		Error text 1: /*** PASSWORD FOR OLDER SYSTEM LEVELS IS SAME AS NEW TYPE PASSWORD ***/ /*** PLEASE CHOOSE ANOTHER STRING ***/ Error text 2: /*** PASSWORD IS SAME AS USER ID; PLEASE CHOOSE ANOTHER STRING ***/

Modified command:	H	CREATE USER ID
Description of changes:		The error text has been changed because of a Pronto correction. One error text has been replaced with two different error texts.
Removed error text(s):		/*** PASSWORD IS TOO EASY TO GUESS; PLEASE CHOOSE ANOTHER STRING ***/
New error text(s):		Error text 1: /*** PASSWORD FOR OLDER SYSTEM LEVELS IS SAME AS NEW TYPE PASSWORD ***/ /*** PLEASE CHOOSE ANOTHER STRING ***/ Error text 2: /*** PASSWORD IS SAME AS USER ID; PLEASE CHOOSE ANOTHER STRING ***/

Modified command:	I	INTERROGATE USER IDS, TERMINALS AND PROFILES
Description of execution printout changes:		A new line, MML SESSION IDLE TIME LIMIT, has been added to the execution printout. The line is output when a profile or a user ID is interrogated (with the COM parameter). It is not output when a terminal is interrogated. The new line is output after profile uniqueness information. Example of the new execution printout line :

```
MML SESSION IDLE TIME LIMIT: 15 MIN(S)
```

Modified command:	S	CHANGE PASSWORD OF OTHER USER ID
Description of changes:		The error text has been changed because of a Pronto correction. One error text has been replaced with another.
Removed error text(s):		/*** PASSWORD IS TOO EASY TO GUESS; PLEASE CHOOSE ANOTHER STRING ***/
New error text(s):		/*** PASSWORD IS SAME AS USER ID; PLEASE CHOOSE ANOTHER STRING ***/

3.24 (IB) IOBACK - I/O File Backup

Modified command:	T	TYPE FILE
Description of changes:		The maximum line length in ASCII mode has been increased to 132 characters.
Old semantics:		Value range of <bytes per line> in ASCII mode: 2 ... 80, default value 80.
New semantics:		Value range of <bytes per line> in ASCII mode: 2 ...132, default value 80. The command entry continues in the same way as before after a semantic error.

3.25 (IC) CDCMML - Command Calendar Handling

Modified command:	L	LIST CALENDAR
Description of execution printout changes:		A new parameter alarm state (ASTATE) has been added to the execution printout text.

3.26 (IF) VIFHAN - Virtual Data Storing Device Handling

New command(s) and menu text(s):	N	INITIALIZE VDS DEVICE

Modified command:	C	COPY DATA FILES FROM DISK TO TAPE
Description of changes:		New name-defined parameter for defining the backup copy target of the VDS device data files has been added to the fourth block. The existing two parameters have also been changed to name-defined type. The new parameter defines whether the specified files are copied to the logical file (which is defined in VIPARA parameter file) or to FDU, possible values are LF (logical file), FDU-0 and FDU-1. The parameter is not obligatory. If it is not given the logical file is used as a default. If FDU is given, the BLSIZE parameter has no meaning and is omitted (which is mentioned in the TARGET parameter guide). If the target of the VDS device is FDU, it is not possible to use the C-command. Possible values of the parameter <storing status filter> have been reduced when the storing target is FDU.
Old syntax:		IFC:<unit>,<unit pair index>:<application>:<file number>,<status filter>,<storing status filter>:<directory and base of file names>,<block size>;
New syntax:		IFC:<unit>,<unit pair index>:<application>:<file number>,<status filter>,<storing status filter>:NAME=<directory and base of file names>,BLSIZE=<block size>,TARGET=<copy target>; The command does not work with the old syntax.
Additional information:		The command still works with the old syntax if given for example as "ZIFC:CHU:GSMCHA:,FULL:;", but not anymore if directory_and_base_of_file_names and/or block_size is given.

Old semantics:		Possible values of <application> are names listed in the guidance. Possible values of the parameter <storing status filter>: SKIP0, OVER0, BACK0, SKIP1, OVER1, BACK1, ORIGMISS, ORIG, ORIGW0, ORIGW1, ORIGBOTH, COMPMISS, COMP, COMPW0, COMPW1 and COMPBOTH
New semantics:		Possible values of <application> are names listed in the guidance. However, the guidance doesn't show and the program won't accept applications in which the target of the VDS device is FDU. Possible values of the parameter <storing status filter> when the storing target is FDU: SKIP0, OVER0, BACK0, SKIP1, OVER1 and BACK1 Command entry continues in the same way as before after semantic error.
Modified command:	F	DEFINE FILE SIZE AND AMOUNT ON DISK
Description of changes:		A new parameter for defining the storing target I/O device of the VDS device has been added to the third block. The parameter defines the target I/O device and its index (if FDU is given), possible values are WDU, FDU-0 or FDU-1. The parameter is not obligatory. If it is not given the current value is used as a default. If FDU is given, the COMP parameter has no meaning (it will be omitted even though it is given (this is mentioned in the guidance)), as compression is not supported with FDUs). The new parameter OPT has been added. OPT defines what kind of optimization method VIDAST uses in datafile handling. VIDAST can for example prefill the datafile to optimize data writing efficiency.
Old syntax:		IFF:<unit>,<unit pair index>:<application>:SIZE=<disk file size>, AMO=<disk file amount>, COMP=<compression mode>, SKIP=<skipping mode>, OVERW=<overwrite mode>;
New syntax:		IFF:<unit>,<unit pair index>:<application>:SIZE=<disk file size>, AMO=<disk file amount>, COMP=<compression mode>, OPT=<optimization mode>, SKIP=<skipping mode>, OVERW=<overwrite mode>, TARGET=<storing target I/O device>; The command still works with the old syntax.

Additional information:

As file compression is not currently supported with FDUs, the execution printout of the I-command always says "(NOT USED)" when FDU is defined as the storing target, even though the compression mode can also then be defined with the F-command.

Description of execution printout changes:

Optimization mode has been added to the printout.

Old printout:

```
       DEFINED DISK FILE SIZE IS       250 KB,
       AND THE AMOUNT OF FILES IS      100
       FILE IS NOT COMPRESSED
       REQUIRED TOTAL DISK SPACE IS    25 MB
 CONFIRM COMMAND EXECUTION: Y/N ?
```

If the given parameters were not accepted, the printout is:

```
COMMAND IGNORED
```

If the given parameters were accepted, the printout is:

```
  FORMAT OF RING BUFFER:
     SKIPPING OF UNTRANSFERRED DATA IS NOT ALLOWED
     OVERWRITE OF UNTRANSFERRED DATA IS ALLOWED
     FILE IS NOT COMPRESSED
     DISK FILE SIZE:                              250 KB
     DISK FILE AMOUNT:                            100
 COMMAND EXECUTED
```

New printout:

```
    STORING TARGET IS              WDU,
    DEFINED DISK FILE SIZE IS      16 KB,
    AND THE AMOUNT OF FILES IS     100

    FILE IS NOT COMPRESSED
    OPTIMIZATION IS NOT USED

    REQUIRED TOTAL DISK SPACE IS     2 MB


CONFIRM COMMAND EXECUTION: Y/N ? Y
```

If the given parameters were not accepted, the printout is:

```
COMMAND IGNORED
```

If the given parameters were accepted, the printout is:

```
  STORING TARGET:                              WDU

  FORMAT OF RING BUFFER:

    DISK FILE SIZE:                             16 KB
    DISK FILE AMOUNT:                          100

    SKIPPING OF UNTRANSFERRED DATA IS NOT ALLOWED
    OVERWRITE OF UNTRANSFERRED DATA IS ALLOWED

    FILE IS NOT COMPRESSED

    OPTIMIZATION IS NOT USED

COMMAND EXECUTED
```

Modified command:	I	INTERROGATE DISK FILE INFORMATION
Description of execution printout changes:		Added the operation state (either blocked or unblocked) and the storing target I/O device of the VDS device to the printout. Changed the order of parameters in FORMAT OF RING BUFFER and the name of FILE NAMES. Optimization mode has been added to the printout. Old printout:

```
DEVICE IDENTITY:

  UNIT:                     OMU
  DEVICE:                   VDS-00
  APPLICATION:              GENE00
  DESCRIPTION:              GENERAL VDS DEVICE

FILE NAMES:

  ORIGINAL FILES:           VIDAST/CF0000.D00
  COMPRESSED FILES:         VIDAST/COMP00/CF0000.Z
  STORAGE CONTROL FILE:     VIDAST/TTSCOF00.IMG
  TRANSFER CONTROL FILE:    VIDAST/TTTCOF00.IMG

FORMAT OF RING BUFFER:

  SKIPPING OF UNTRANSFERRED DATA IS NOT ALLOWED
  OVERWRITE OF UNTRANSFERRED DATA IS NOT ALLOWED

  FILE IS NOT COMPRESSED

     DISK FILE SIZE:                          10 KB
  DISK FILE AMOUNT:                       10

  BATCH SEQUENCE NUMBER:
    NOT IN USE

TIME CONTROL FOR FILE CLOSING:

  DAILY DISK FILE CLOSING TIME:        00-00
  DISK FILE CLOSING INTERVAL:          00-00

CONTROL FILE HANDLING:

  TTTCOF READING FROM DISK:          ENABLED
  TTTCOF READING INTERVAL:                 5

FTAM ATTRIBUTES:

  USER IDENTITY:                    CHARGING
  READ PASSWORD:                   (NOT SET)
  REPLACE PASSWORD:                (NOT SET)
  EXTEND PASSWORD:                 (NOT SET)
  READ ATTRIBUTES PASSWORD:        (NOT SET)
  DELETE PASSWORD:                 (NOT SET)
  CONTENTS TYPE:          UNSTRUCTURED BINARY
  STRING TYPE:                      NOT FIXED
  STRING LENGTH:                           0
```

```
   ALARM SETTINGS:

     ALARM MODE: ALL CHARGING FILLING RATIO ALARMS IN USE

     FIRST ALARM LIMIT:                          50 %
     FIRST ALARM CANCEL:                         45 %

     SECOND ALARM LIMIT:                         80 %
     SECOND ALARM CANCEL:                        75 %

   STATISTICS:

     CURRENT FILL UP RATIO:                       0 %

     AMOUNT OF FULL FILES:                        0

     CURRENT BATCH SEQUENCE NUMBER:               1
     CURRENT DISK FILE NUMBER:                    1
     CURRENT FILE OFFSET:                         0


COMMAND EXECUTED
```

New printout:

```
   DEVICE IDENTITY:

     UNIT:                    OMU
     DEVICE:                  VDS-00
     APPLICATION:             OBSERV
     DESCRIPTION:             OBSERVATION REPORTS

   STORING TARGET I/O DEVICE AND FILE LOCATIONS:

     STORING TARGET:          WDU
     ORIGINAL FILES:          STATIS/OB0000.DAT
     COMPRESSED FILES:        STATIS/OB0000.Z
     STORAGE CONTROL FILE:    STATIS/TTSCOF00.IMG
     TRANSFER CONTROL FILE:   STATIS/TTTCOF00.IMG

   FORMAT OF RING BUFFER:

     DISK FILE SIZE:                             10 KB
     DISK FILE AMOUNT:                          999

     SKIPPING OF UNTRANSFERRED DATA IS NOT ALLOWED
     OVERWRITE OF UNTRANSFERRED DATA IS ALLOWED

     FILE IS NOT COMPRESSED

     OPTIMIZATION IS NOT USED
```

```
      BATCH SEQUENCE NUMBER:
        NOT IN USE

TIME CONTROL FOR FILE CLOSING:

  DAILY DISK FILE CLOSING TIME:              00-00
  DISK FILE CLOSING INTERVAL:                00-15

CONTROL FILE HANDLING:

  TTTCOF READING FROM DISK:                DISABLED
  TTTCOF READING INTERVAL:                        0

FTAM ATTRIBUTES:

  USER IDENTITY:                           (NOT SET)
  READ PASSWORD:                           (NOT SET)
  REPLACE PASSWORD:                        (NOT SET)
  EXTEND PASSWORD:                         (NOT SET)
  READ ATTRIBUTES PASSWORD:                (NOT SET)
  DELETE PASSWORD:                         (NOT SET)
  CONTENTS TYPE:                UNSTRUCTURED BINARY
  STRING TYPE:                             NOT FIXED
  STRING LENGTH:                                  0
```

```
   SETTINGS OF Q3 EVENT TRANSFER UP READY:

     EVENT SENDING                   ENABLED
     SIMPLE FILE TRANSFER CONTROL INSTANCE:        0

     TYPE OF FILE:                                 7
     SUB TYPE OF ORIGINAL FILE:                    0
     SUB TYPE OF COMPRESSED FILE:                  1

     RESENDING INTERVAL:                       00-05
     AMOUNT OF FILES IN RESEND EVENT:             20

   COPY SERVICES:

     DESTINATION LOGICAL FILE:            TEMPFILE

   ALARM SETTINGS:

     ALARM MODE: GENERAL NO FREE DISK FILE ALARM IN USE

     FIRST ALARM LIMIT:                           50 %
     FIRST ALARM CANCEL:                          45 %

     SECOND ALARM LIMIT:                          80 %
     SECOND ALARM CANCEL:                         75 %

   STATISTICS:

     CURRENT FILL UP RATIO:                        0 %

     AMOUNT OF FULL FILES:                         0

     CURRENT BATCH SEQUENCE NUMBER:                1
     CURRENT DISK FILE NUMBER:                     1
     CURRENT FILE OFFSET:                          0

     DEVICE STATE:                             WO-BU

COMMAND EXECUTED
```

Additional information:

As file compression is not currently supported with FDUs, the execution printout of the I-command always says "(NOT USED)" when FDU is defined as the storing target, even though the compression mode can also then be defined with the F-command.

Modified command:	O	When FDU is defined as the storing target, the target FDU with index is shown in ORIGINAL/COMPRESSED column.
Description of changes:		Possible values of the parameter <storing status filter> have been reduced when the storing target is FDU.
Old semantics:		Possible values of parameter <storing status filter>: SKIP0, OVER0, BACK0, SKIP1, OVER1, BACK1, ORIGMISS, ORIG, ORIGW0, ORIGW1, ORIGBOTH, COMPMISS, COMP, COMPW0, COMPW1 and COMPBOTH
New semantics:		Possible values of parameter <storing status filter> when storing target is FDU: SKIP0, OVER0, BACK0, SKIP1, OVER1 and BACK1 Command entry continues in the same way as before after semantic error.
Description of execution printout changes:		Old printout:

```
 FILE           ORIGINAL/
NUMBER STATUS   COMPRESSED      FILLING TIME          TRANSFER TIME

1  FULL         OK/--   - - -   2000-10-09 14:18:59   1999-01-01 15:06:39
2  FULL         OK/--   - - -   2000-10-09 14:59:53   1999-01-01 15:06:39
3  FULL         OK/--   - - -   2000-10-10 06:19:20   1999-01-01 15:06:39
4  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
5  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
6  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
7  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
8  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
9  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
10 TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39

COMMAND EXECUTED
```

New printout (when FDU is defined as the storing target):

```
 FILE           ORIGINAL/
NUMBER STATUS   COMPRESSED      FILLING TIME          TRANSFER TIME

1  FULL         F1/--   - - -   2000-10-09 14:18:59   1999-01-01 15:06:39
2  FULL         F1/--   - - -   2000-10-09 14:59:53   1999-01-01 15:06:39
3  FULL         F1/--   - - -   2000-10-10 06:19:20   1999-01-01 15:06:39
4  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
5  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
6  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
7  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
8  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
9  TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39
10 TRANSFERRED  --/--   - - -   0000-00-00 00:00:00   1999-01-01 15:06:39

COMMAND EXECUTED
```

Modified command:	S	SET DISK FILE STATUS
Description of changes:		Possible values of parameter <storing status filter> have been reduced when the storing target is FDU.

Old semantics:	Possible values of parameter <storing status filter>: SKIP0, OVER0, BACK0, SKIP1, OVER1, BACK1, ORIGMISS, ORIG, ORIGW0, ORIGW1, ORIGBOTH, COMPMISS, COMP, COMPW0, COMPW1 and COMPBOTH
New semantics:	Possible values of parameter <storing status filter> when the storing target is FDU: SKIP0, OVER0, BACK0, SKIP1, OVER1 and BACK1 Command entry continues in the same way as before after semantic error.

3.27 (II) IOCHAN - I/O Configuration Handling

Modified command:	S	CHANGE OBJECT CONNECTED TO LOGICAL FILE
Description of changes:		The new error text LOGICAL FILE IS LOCKED has been added.
New error text(s):		/*** LOGICAL FILE IS LOCKED ***/

3.28 (IP) CPBHAN - Batch Copy Handling

New command(s) and menu text(s):	X	DISPLAY BACKUP COPIES ON REMOVABLE DISK
Modified command:	I	INTERROGATE COPY TASK INFORMATION
Description of changes:		New values for the parameters <source I/O device> and <destination I/O device> have been added. The new possible values are FDU-0 (removable disk 0) and FDU-1 (removable disk 1).
Old semantics:		Possible values:WDU-0, WDU-1,CTU-0,CTU-1,CTU-2,CTU-3

New semantics:		Possible values:WDU-0, WDU-1,CTU-0,CTU-1,CTU-2,CTU-3, FDU-0,FDU-1 The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		A new parameter source and destination file group index has been added to the execution printout text.
Modified command:	P	DISPLAY COPY TASK LOG
Description of execution printout changes:		The new parameter file group (FG) has been added to the execution printout text.
Modified command:	S	START BACKUP COPY TASK
Description of changes:		New position-defined parameters have been added to the first and second parameter blocks. The parameters are <source file group> and <destination file group>. A new name-defined parameter has been added to the fourth parameter block. The parameter is disk copy mode (DCM). New values for parameters <source I/O device> and <destination I/O device> have been added. The new possible values are FDU-0 (removable disk 0) and FDU-1 (removable disk 1).
Old syntax:		IPS: [<source unit> |<own unit> def], [<source I/O device> | WDU def], [<source path> |<default directory> def], [<source file name> | *.* def], [<source file version> | <default version> def],<source file set>: [<destination unit> |<source unit> def], [<destination I/O device> | WDU def], [<destination path> |<default directory> def], [<destination file name> | *.* def] , [<destination set name> |<MML generates> def]: (NAME = [<copy task name> | <MML generates> def], FILE = [<start file name>], VER = [<start file version>], IND = [<start file index> | 1 def], AFT = [<after>], [BEF=<before>], DIR = [<directory mode> | EXC def], ISD = [<include start directory> | N def],)...: [APP = [<tape append mode> | NEW def], LEN = [<data block length> | 8 def], SYSTEM = [<origin system> |<own system> def], UNIT = [<origin unit> | <destination unit> def]:

New syntax:		IPS: [<source unit> I<own unit> def], [<source I/O device> I WDU def], [<source path> I<default directory> def], [<source file name> I *.* def], [<source file version> I <default version> def],<source file set>,<source file group> : [<destination unit> I<source unit> def], [<destination I/O device> I WDU def], [<destination path> I<default directory> def], [<destination file name> I *.* def] , [<destination set name> I<MML generates> def], < destination file group > : (NAME = [<copy task name> I <MML generates> def], FILE = [<start file name>], VER = [<start file version>], IND = [<start file index> I 1 def], AFT = [<after>], [BEF=<before>], DIR = [<directory mode> I EXC def], ISD = [<include start directory> I N def],)...: [APP = [<tape append mode> I NEW def], LEN = [<data block length> I 8 def], SYSTEM = [<origin system> I<own system> def], UNIT = [<origin unit> I <destination unit> def], DCM = [< disk copy mode> I NEW def]]...: The command does not work with the old syntax.
Old semantics:		WDU-0,WDU-1,CTU-0,CTU-1,CTU-2,CTU-3
New semantics:		WDU-0,WDU-1,CTU-0,CTU-1,CTU-2,CTU-3,FDU-0,FDU-1 The command entry continues in the same way as before after a semantic error.
Modified command:	X	DISPLAY BACKUP COPIES ON REMOVABLE DISK
Description of execution printout changes:		Hours, minutes, seconds and milliseconds have been removed from the printout of files modification time.

3.29 (IR) WRITER - Security Reporting Handling

Modified command:	O	DISPLAY DETAILED REPORT
Description of changes:		The possible values of the parameter TYPE have been changed. There is a new value indicating MML login delays. The new value of TYPE is MDE.

Old semantics:	Possible values of TYPE: SET Service terminal sessions MSE MML sessions MCO MML commands MLO MML log writing failures NET Network access SUB Subscriber security CRY Cryptographic key handling AUC Authentication data handling
New semantics:	Possible values of TYPE: SET Service terminal sessions MSE MML sessions MCO MML commands MLO MML log writing failures MDE MML login delays NET Network access SUB Subscriber security CRY Cryptographic key handling AUC Authentication data handling
Description of execution printout changes:	A new detailed security report (MML login delays) has been added. It is based on MML sessions report where the field ACTION is removed and a field CONNECTION ADDRESS is added. The security report of service terminal sessions has been changed. Username of service terminal session has been added to the report.

3.30 (IW) WINHAN - Disk File And Directory Handling

Modified command:	C	CREATE FILE
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.

Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), and F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), F0 (floppy disk) and F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.
Modified command:	D	DELETE FILE
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), and F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), F0 (floppy disk) and F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.
Modified command:	E	EMPTY FILE
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and backup disk), and F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), F0 (floppy disk) and F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.

Modified command:	F	INTERROGATE/CHANGE DEFAULT VERSION
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), and F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), F0 (floppy disk) and F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.

Modified command:	I	INITIALIZE DISK
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>. New parameters have been added to the third parameter block to support removable disks: [<extra info>| <format>,<ptable>;] . The values of the parameter <format> can be F4, F5, FAT12, FAT16 or FAT32. The parameter <ptable> is a partition table and the value can be Y or N.
Old syntax:		ZIWI: <system name>,<destination unit>:<drive>,<volume label>,<file count>,<version limit>,<initials>:<extra info>;
New syntax:		Syntax with drive F0 or F1 and file format F5 or F4: IWI:<system name>,<destination unit>:<drive>,<format>,<volume label>,<file count>,<version limit>,<initials>; Syntax with drive F0 or F1 and file format FAT12: IWI:<system name>,<destination unit>:<drive>,<format>; Syntax with drive F0 or F1, MO disk and file format FAT16 or FAT32: IWI:<system name>,<destination unit>:<drive>:<format>,<partition table>; Syntax with drive WB: ZIWI: <system name>,<destination unit>:<drive>:<volume label>,<file count>,<version limit>,<initials>:<extra info>;

		The command does not work with the old syntax.
Additional information:		NOTICE: These new changes are for the removable disk, <extra info>, which includes information of the disk format and the choice of partition table. If <drive> is a hard disk, the old syntax is valid. Example: IWI:,:F0:FORMAT=,PTABLE=Y; (FO- removable disk, new syntax). Example: IWI:,:WB,AK,5,2,OK:MODE=,; (WB- hard disk, old is valid).
Modified command:	K	INITIALIZE DIRECTORY
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>. New parameters have been added to the third parameter block to support removable disks: [<extra info>| <format>,<ptable>;] . The values of the parameter <format> can be F4, F5, FAT12, FAT16 or FAT32. The parameter <ptable> is a partition table and the value can be Y or N.
Old syntax:		ZIWK: <system name>,<destination unit>:<drive>,<volume label>,<file count>,<version limit>,<initials>:<extra info>;
New syntax:		Syntax with drive F0 or F1 and file format F5 or F4: IWK:<system name>,<destination unit>:<drive>,<format>,<volume label>,<file count>,<version limit>,<initials>; Syntax with drive F0 or F1 and file format FAT12: IWK:<system name>,<destination unit>:<drive>,<format>; Syntax with drive F0 or F1, MO disk and file format FAT16 or FAT32: IWK:<system name>,<destination unit>:<drive>:<format>,<partition table>; Syntax with drive WB: ZIWK: <system name>,<destination unit>:<drive>:<volume label>,<file count>,<version limit>,<initials>:<extra info>;

		The command does not work with the old syntax.
Additional information:		NOTICE: These new changes are only for the removable disk, <extra info>, which includes information of the disk format and the choice of partition table. If <drive> is a hard disk, old syntax is valid. Example: IWK:,:F0:FORMAT=,PTABLE=Y; (FO-is removable disk, new syntax). Example: IWK:,:WB,AK,5,2,OK:MODE=,; (WB- hard disk, old is valid).
Modified command:	L	CREATE DIRECTORY
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), and F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), F0 (floppy disk) and F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.
Modified command:	M	DELETE DIRECTORY
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), and F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), F0 (floppy disk) and F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.

Modified command:	N	RENAME FILE
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), and F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk), F0 (floppy disk) and F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.

Modified command:	P	PACK DISK
Description of changes:		Support for the floppy disk F0 has been removed from the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WB (back up disk) or F0 (floppy disk).
New semantics:		Possible value of the parameter <drive>: WB (back up disk). The command entry continues in the same way as before after a semantic error.

Modified command:	S	SET FILE ATTRIBUTES
Description of changes:		Support for the floppy disk F0 has been removed from the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), WSB (system and back up disk) or F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk) or WSB (system and back up disk). The command entry continues in the same way as before after a semantic error.

Modified command:	X	DISPLAY DIRECTORY
Description of changes:		Support for the removable disk FDU-1 has been added to the parameter <drive>.
Old semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk) or F0 (floppy disk).
New semantics:		Possible values of the parameter <drive>: WS (system disk), WB (back up disk), F0 (removable disk 0) or F1 (removable disk 1). The command entry continues in the same way as before after a semantic error.

3.31 (NA) GREHAN - Global Title Result Handling

Modified command:	A	CREATE GLOBAL TITLE MODIFICATION DATA
Description of changes:		Removed the reference to CAC unit from error texts.
Old error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/

Modified command:	C	CREATE TRANSLATION RESULT

Description of changes:

A lot of changes made. Updated the parameter blocks 4,5 and 6. Added the new parameters load sharing network (LNET), load sharing destination point code (LDPC), routing indicator for load sharing (LRI), load sharing subsystem (LSSN), load sharing global title data modification record number (LGTM). The parameters are alternative to parameters ISSN, RNET, RDPC, RSSN.

A new parameter LOAD has been added under OPTIONAL INFORMATION. It can have values N or Y. The default value is N.

Added new load sharing parameters to the blocks 4, 5 and 6. Blocks 5 and 6 are alike block 4. These blocks now contain parameters for backup subsystem handling and load sharing. The backup and load sharing parameters are alternative. If load sharing is set YES in third parameter block, load sharing parameters will be available. Otherwise if Backup subsystems are set YES in third parameter block, only backup subsystem parameters are available in blocks 4,5 and 6. Block guides in these blocks are dynamic. Semantics allow users to only give the parameters which they have defined in third parameter block by setting LOAD SHARING or BACKUP SUBSYSTEMS YES. If neither of these two parameters are given in the third parameter block, parameter blocks 4, 5 and 6 are unavailable.

The semantic checks for the parameter SPECIAL in the third parameter group have been made stricter.

It is now possible to choose LOAD SHARING YES (Y) or NO (N).

New error texts have been added because of the semantic checks of the parameter SPECIAL.

New error texts for enhaced load sharing.Removed reference to CAC unit from error texts.

Old syntax:	NAC: (NET = <primary network> | DPC = <primary destination point code> | [RI = <primary routing indicator> | SSN def] | SSN = <primary subsystem number> | GTM = <primary global title modification data record number>)... : [NET = <secondary network> | DPC = <secondary destination point code> | [RI = <secondary routing indicator> | SSN def] | SSN = <secondary subsystem number> | GTM = <secondary global title modification data record number>]... : [[GTR = <global title translation result record number> | <the first free record> def] | [OVERWR = Y | N | <ask user confirmation> def] [SPECIAL = Y | N def] | [BACKUP = Y | N def] |... : [ISSN = <input system for backup> | RNET = <replicative network> | RDPC = <replicative destination point code> | RSSN = <replicative subsystem> |]...
New syntax:	NAC: (NET = <primary network> | DPC = <primary destination point code> | [RI = <primary routing indicator> | SSN def] | SSN = <primary subsystem number> | GTM = <primary global title modification data record number>)... : [NET = <secondary network> | DPC = <secondary destination point code> | [RI = <secondary routing indicator> | SSN def] | SSN = <secondary subsystem number> | GTM = <secondary global title modification data record number>]... : [[GTR = <global title translation result record number> | <the first free record> def] | [OVERWR = Y | N | <ask user confirmation> def] [SPECIAL = Y | N def] | [BACKUP = Y | N def] | [LOAD = Y | N def]] ... : [ISSN = <input system for backup> | RNET = <replicative network> | RDPC = <replicative destination point code> | RSSN = <replicative subsystem> |] | [LNET = <network for load sharing> | LDPC = <destination point code for load sharing> | LRI = <routing indicator for load sharing> | LSSN = <subsystem number for load sharing> | LGTM = <global title data modification record number for load sharing>]... ; The command still works with the old syntax.
Additional information:	If you want to use LOAD SHARING you must give SECONDARY ROUTING INFORMATION first.
Old semantics:	Only backup parametrs can be given in blocks 4, 5 and 6. It is possible to give value Y for SPECIAL parameter independently of the other contents of the GT translation result. Old semantics did not check whether secondary routing has been given.

New semantics:	Backup or load sharing parameters can be given in blocks 4, 5 and 6 depending on the third parameter block. The default value is NO load sharing and NO backup subsystems. It is possible to give value Y for SPECIAL parameter only if: 1) The primary GT result is own signalling point 2) There is not secondary GT result defined 3) There are no subsystem backups defined 4) The load sharing is not used When using LOAD SHARING (Y), the program checks if secondary routing has been given. The command entry continues in the same way as before after a semantic error.
Removed error text(s):	/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):	/*** SPECIAL HANDLING CAN NOT BE SET ON WHEN SECONDARY RESULT IS GIVEN ***/ /*** SPECIAL HANDLING CAN NOT BE SET ON WHEN BACKUP SUBSYSTEMS ARE GOING TO BE GIVEN ***/ /*** PRIMARY RESULT MUST BE OWN SP WHEN SPECIAL HANDLING IS ON ***/ /*** BOTH LOAD SHARING AND SPECIAL HANDLING CAN NOT BE SET ON ***/ /*** NO FREE SPACE IN GTT LOAD SHARING RESULT FILE (GTLFIL) ***/ /*** LOAD SHARING DATA ERROR IN GTRFIL FILE ***/ /*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/

Description of execution printout changes:		A new functionality based on enhanced global title load sharing is added to the creation command. The execution printout is updated: load sharing index to each load sharing result has been added. It's possible to create a maximum of 5 results under one record (load sharing case). Load sharing indexes are printed under the abbreviation LOAD SHAR and indexed starting from 1 (e.g. 1,2,3,4 and 5). If there are no load sharing used in the record created, then NO is printed under the abbriviation LOAD SHAR. NOTE: YES is no longer printed under abbreviation LOAD SHAR if load sharing is in use.
Modified command:	D	DELETE TRANSLATION RESULT
Description of changes:		A new parameter for load sharing index (IND) has been added to the third parameter block. If load sharing is used in a record, the user has to delete each load sharing result separately using load sharing index or delete the whole record. The user can only delete a load sharing result with IND if only an individual result record (RES) is given in the first parameter block. If RES with grouping (&, &&) or network and destination point code combination is given, load sharing result's can't be/are not deleted. IND and an already existing ISSN are alternative. If a load sharing result is being deleted, the IND parameter is obligatory. The possible values of the parameter IND are the existing load sharing index values (between 1 and 16). The new parameter value LOAD has been added to the second parameter block. It is not possible to use PRI or SEC values in the second parameter block if the user has given a result record with load sharing on in the first parameter block. The parameter guide in the second block (deletion information) is dynamic. New error texts for enhanced gt load sharing have been added. The reference to CAC unit from the error texts has been removed.
Old syntax:		NAD:RES=<result record> | NET=<network>,DPC=<destination point code>:<deletion information>:ISSN=<input subsystem for backup>;
New syntax:		NAD:RES=<result record> | NET=<network>,DPC=<destination point code>:<deletion information>:ISSN=<input subsystem for backup>| IND= <load sharing index>;

		The command does not works with the old syntax.
Old semantics:		Possible values of parameter deletion information: ALL, SEC, BACKUP.
New semantics:		Parameters are alternative. IND is used for load sharing result deletion and ISSN is for backup subsystem deletion. Possible values of parameter deletion information: ALL, SEC, LOAD, BACKUP. The command entry continues in the same way as before after a semantic error.
Removed error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):		/*** LOAD SHARING GLOBAL TITLE TRANSLATION RESULT DOES NOT EXIST ***/ /*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/ /*** PRIMARY GT TRANSLATION RESULT DOES NOT EXIST***/
Description of execution printout changes:		Added load sharing index to each load sharing result in the execution printout if load sharing is in use. Indexes are added under the abbreviation RES PRIO.
Modified command:	I	INTERROGATE TRANSLATION RESULTS
Description of changes:		The new value LOAD to parameter interrogation information has been added to the second parameter block. The value indicates that only load sharing results are inquired and the execution printout shows only records with load sharing indicated. Removed the reference to CAC unit from the error texts.
Old semantics:		Old values of the parameter interrogation information: ALL, PRI, SEC, BACKUP
New semantics:		New values of the parameter interrogation information: ALL, PRI, SEC ,LOAD,BACKUP

		The command entry continues in the same way as before after a semantic error.
Removed error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/ /*** PRIMARY GT TRANSLATION RESULT DOES NOT EXIST***/ /***INPUT SSN VALUE IS NOT IN SUBSYSTEM BACKUP SET***/
Description of execution printout changes:		Added load sharing index to each load sharing result.
Modified command:	M	MODIFY TRANSLATION RESULT
Description of changes:		The new parameter IND is added to the fourth parameter block. The parameter is used to identify a load sharing result when the MODIFY value is used. Removed the default value PRI from the third parameter block. The new name-defined parameter SPECIAL has been added to the fourth parameter group. It is possible to give the parameter SPECIAL when the value OPTION is given to RESULT PRIORITY. Load sharing has now values N or Y A lot of semantics changes. Changed so that it's impossible to give PRI, SEC and BACKUP values of the parameter result priority when the given record is using load sharing. On the other hand CREATE and MODIFY values cannot be given if the load sharing is not is use in the record in question. When OPTION is given for RESULT PRIORITY, it is possible to give new the name-defined parameter SPECIAL. Semantics of the new parameter are described. New error texts have been added because of the semantics checks for the new parameter SPECIAL.

Old syntax:	NAM: <result index> : [<state change> | ACT def]: [<result priority> | PRI def]: [NET = <network> DPC = <destination point code> RI = <routing indicator> SSN = <subsystem number> SSD = <subsystem number deletion> GTM = <global title modification data record number> GTD = <global title modification data record number deletion> ISSN = <input system for backup> RNET = <replicative network> RDPC = <replicative destination point code> RSSN = <replicative subsystem number> RSSD = <replicative subsystem number deletion> LOAD = <load sharing modification>] ; It has not been possible to modify Load sharing.
New syntax:	NAM: <result index> : [<state change> | ACT def]: [<result priority>]: [NET = <network> DPC = <destination point code> RI = <routing indicator> SSN = <subsystem number> SSD = <subsystem number deletion> GTM = <global title modification data record number> GTD = <global title modification data record number deletion> ISSN = <input system for backup> RNET = <replicative network> RDPC = <replicative destination point code> RSSN = <replicative subsystem number> RSSD = <replicative subsystem number deletion> LOAD = <load sharing modification> SPECIAL = <special handling modification> IND = <load sharing index>]... ; Load sharing now has values N or Y. (NAM: 91: ACT: OPTION: LOAD=Y/N;) The command does not work with the old syntax.
Old semantics:	Possible values of the result priority parameter: PRI, SEC, BACKUP and OPTION. There was no parameter SPECIAL in the fourth parameter group.
New semantics:	Possible values of the result priority parameter: PRI, SEC, BACKUP,OPTION, CREATE and MODIFY. If load sharing is in use, possible values are OPTION, CREATE and MODIFY. There is parameter SPECIAL in the fourth parameter group. Possible values for SPECIAL are Y or N. It is possible to give the value Y for SPECIAL only if: 1) The primary GT result is own signalling point 2) There is no secondary GT result defined 3) There are no subsystem backups defined 4) The load sharing is not used The command entry does not continue in the same way as before after a semantic error.

Removed error text(s):	/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):	/*** PRIMARY RESULT MUST BE OWN SP WHEN SPECIAL HANDLING IS ON ***/ /*** SPECIAL HANDLING CAN NOT BE ON WHEN SECONDARY RESULT EXISTS ***/ /*** SECONDARY RESULT CAN NOT EXIST WHEN SPECIAL HANDLING IS ON ***/ /*** SPECIAL HANDLING CAN NOT BE ON WHEN BACKUP SUBSYSTEMS EXIST ***/ /*** BACKUP SUBSYSTEMS CAN NOT EXIST WHEN SPECIAL HANDLING IS ON ***/ /*** LOAD SHARING OF GLOBAL TITLE TRANSLATION RESULT NOT SET ***/ /*** LOAD SHARING OF GLOBAL TITLE TRANSLATION RESULT ALREADY SET ***/ /*** LOAD SHARING DATA ERROR IN GTRFIL FILE ***/ /*** NO FREE SPACE IN GTT LOAD SHARING RESULT FILE (GTLFIL) ***/ /*** NO MORE THAN 16 LOAD SHARING GLOBAL TITLE TRANSLATION RESULTS ***/ /*** OVER 2 LOAD SHARING GLOBAL TITLE TRANSLATION RESULTS EXIST ***/ /*** LOAD SHARING GLOBAL TITLE TRANSLATION RESULT DOES NOT EXIST ***/ /*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/
Description of execution printout changes:	Added load sharing index to each load sharing result .Indexes are printed under the abbreviation LOAD SHAR. Added an old data printout, which shows what was the record data before modification. Old data is always shown, even if there is an error text written. When the value Y is changed for parameter SPECIAL for the GT result in question, the text "SPECIAL HANDLING" is printed below the other execution printout text. In the LOAD SHARING field, the program prints either YES or NO values. Previously the program printed only NO values.

Modified command:	R	DELETE GLOBAL TITLE MODIFICATION DATA
Description of changes:		Removed the reference to CAC unit from the error texts.
Removed error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/

Modified command:	S	MODIFY GLOBAL TITLE MODIFICATION DATA
Description of changes:		Removed the reference to CAC unit from the error texts.
Removed error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/

Modified command:	X	INTERROGATE GLOBAL TITLE MODIFICATION DATA
Description of changes:		Removed the reference to CAC unit from the error texts.
Removed error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM (CAC) FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM (CAC) ***/
New error text(s):		/*** CONFLICT BETWEEN ACTIVE AND PASSIVE CM FILES ***/ /*** FILE UPDATED ONLY IN ACTIVE CM ***/
Description of execution printout changes:		Added the load sharing index to each load sharing result when the parameter RN (referenced global title modification data number)is used.

3.32 (NC) CCXHAN - Signalling Link Data Handling

Modified command:	C	CREATE SIGNALLING LINK
Description of execution printout changes:		Printouts of Terminal Function and Logical Terminal fields have been replaced with a “-” character in case the fields contain invalid values.
Modified command:	D	DELETE SIGNALLING LINK
Description of execution printout changes:		Printouts of Terminal Function and Logical Terminal fields have been replaced with a “-” character in case the fields contain invalid values.
Description of changes:		A new error text was added.
New error text(s):		/*** OPERATION NOT ALLOWED FOR M3UA TYPE LINK ***/
Modified command:	I	INTERROGATE SIGNALLING LINK DATA
Description of execution printout changes:		Printout of Terminal Function and Logical Terminal fields were replaced with a “-” character in case the fields contain invalid values. A new execution printout form is added for M3UA type signalling links.
Modified command:	L	CHANGE PARAMETER SET
Description of execution printout changes:		Printout of Terminal Function and Logical Terminal fields have been replaced with a “-” character in case the fields contain invalid values.

Modified command:	M	MODIFY SIGNALLING LINK
Description of execution printout changes:		Printout of Terminal Function and Logical Terminal fields have been replaced with a “-” character in case the fields contain invalid values.
Description of changes:		A new error text will be added.
New error text(s):		/*** OPERATION NOT ALLOWED FOR M3UA TYPE LINK ***/
Modified command:	O	EXCHANGE PARAMETER SET OF SIGNALLING LINKS
Description of execution printout changes:		Printout of Terminal Function and Logical Terminal fields have been replaced with a “-” character in case the fields contain invalid values.

3.33 (NE) CCEPRI - Signalling Network State Interrogation

Modified command:	L	INTERROGATE SIGNALLING LINK STATES
Description of execution printout changes:		Error status texts have been changed: INCORRECT STATE –> INCORRECT LINK STATE UNKNOWN UNIT –> SIGNALLING TERMINAL UNIT DOES NOT EXIST LINK NOT IN LINK SET –> SIGNALLING LINK NOT IN SIGNALLING LINK SET SIGNALLING UNIT SWITCHOVER IS REQUIRED BEFORE LINK CAN BE ACTIVATED –> SIGNALLING UNIT SWITCHOVER IS REQUIRED AND LINK NOT IN LINK SET ET IN TEST –> EXCHANGE TERMINAL INACTIVE

Fields filled with 0xFF are not printed.

The columns LOG TERM, EXTERN PCM-TSL and BIT RATE have been moved one character to the right. The heading is unchanged.

A new excution printout for the M3UA type signalling link.

Added signalling unit data information to the printout when the NEL command is given with the parameters signalling unit and signalling unit number. Signalling unit data informs the user about how many links and timeslots are in use in the selected signalling unit.

For example:

```
...

SIGNALLING UNIT DATA

UNIT        LINK COUNT     TSL COUNT
====        ==========     =========
CCSU-0       3               3

COMMAND EXECUTED
```

Modified command:	S	INTERROGATE SIGNALLING LINK SET STATES
Description of execution printout changes:		A new execution printout text will be defined for the IP signalling link set data.
Modified command:	T	INTERROGATE NETWORK ITEM STATES
Description of execution printout changes:		A new execution printout text will be defined for the IP signalling link set data.

3.34 (NL) CCLHAN - Signalling Link State Handling

Modified command:	C	CHANGE SIGNALLING LINK STATE
Description of changes:		A new error text will be added.
New error text(s):		/*** OPERATION NOT ALLOWED FOR M3UA TYPE LINK ***/
Modified command:	I	INTERROGATE SIGNALLING LINK STATES
Description of execution printout changes:		A new execution print out is added for the M3UA type signalling link.
Modified command:	T	TEST SIGNALLING DATA LINK
Description of changes:		A new error text will be added.
New error text(s):		/*** OPERATION NOT ALLOWED FOR M3UA TYPE LINK ***/

3.35 (NN) RSFHAN - Signalling Route Set Parameter Handling

Modified command:	C	CREATE SIGNALLING ROUTE SET PARAMETER SET
Description of execution printout changes:		The new parameter JT_Q704_TC has been added to the parameter group A5. The new parameter RST_ON_TFP_ALLOWED has been added to the new parameter group D6. The new SUPPORT_OF_M3UA_SNM parameter is defined to the RSPARA parameter set.

Modified command:	D	DELETE SIGNALLING ROUTE SET PARAMETER SET
Description of execution printout changes:		The new parameter JT_Q704_TC has been added to the parameter group A5. The new parameter RST_ON_TFP_ALLOWED has been added to the new parameter group D6. The new SUPPORT_OF_M3UA_SNM parameter is defined to the RSPARA parameter set.
Modified command:	E	COPY SIGNALLING ROUTE SET PARAMETER SET
Description of execution printout changes:		The new parameter JT_Q704_TC has been added to the parameter group A5. The new parameter RST_ON_TFP_ALLOWED has been added to the new parameter group D6. The new SUPPORT_OF_M3UA_SNM parameter is defined to the RSPARA parameter set.
Modified command:	I	INTERROGATING SIGNALLING ROUTE SET PARAMETER SETS
Description of execution printout changes:		The new parameter JT_Q704_TC has been added to the parameter group A5. The new parameter RST_ON_TFP_ALLOWED has been added to the new parameter group D6. The text "ON RECEPTION OF TRANSFER PROHIBITED MESSAGE" has been added to the description of parameter D2. The new SUPPORT_OF_M3UA_SNM parameter is defined to the RSPARA parameter set.
Modified command:	M	MODIFY SIGNALLING ROUTE SET PARAMETER SET
Description of changes:		The new SUPPORT_OF_M3UA_SNM parameter is defined to the RSPARA parameter set. Possible values are YES/NO.

New semantics:	Possible values YES/NO, default value NO. Command entry continues after semantic error the same way as before:Yes
Description of execution printout changes:	The new parameter JT_Q704_TC has been added to the parameter group A5. The new parameter RST_ON_TFP_ALLOWED has been added to the new parameter group D6. The text "ON RECEPTION OF TRANSFER PROHIBITED MESSAGE" has been added to the description of parameter D2. The new SUPPORT_OF_M3UA_SNM parameter is defined to the RSPARA parameter set.

3.36 (NO) SLFHAN - Signalling Link Parameter Handling

Modified command:	C	CREATE SIGNALLING LINK PARAMETER SET
Description of execution printout changes:		The parameter A4 has been added. Earlier parameter A4, JT_Q703_K, is now parameter A5.
INDEX	NAME	DESCRIPTION
A4	SN_RANGE	Maximum value for backward sequence number and forward sequence number of signal unit. ATM specific parameters (SAAL LEVEL) have been added to parameter group G. Group G consists of following parameters:
INDEX	NAME	DESCRIPTION
G0	Q2140_T1	Time between the link release action and the next link re-establish action during the alignment.
G1	Q2140_T2	Maximum time SSCF-NNI will attempt alignment.
G2	Q2140_ PROVING_ LOAD	The load percent of the signalling link during alignment. SSCF-NNI T3 is derived from this parameter.
G3	Q2110_ MAXCC	Maximum count which SSCOP tries connection establishment, release, resynchronization and recovery.

G4	Q2110_ MAXPD	Maximum count of SD PDUs before SSCOP sends a POLL.
G5	Q2110_ TIMER_CC	Timer_CC ensures successful SSCOP connection management actions. Maximum time which SSCOP waits for acknowledgement for connection establishment, release, resynchronization and recovery PDUs.
G6	Q2110_ TIMER_ KEEP_ALIVE	Timer to ensure that the peer SSCOP is still working in a transient phase when there are no SD PDUs to be transferred.
G7	Q2110_ TIMER_ NO_RESP	Timer to recognize that the SSCOP connection is available. Maximum time SSCOP waits for STAT PDU.
G8	Q2110_ TIMER_ POLL	Timer_POLL is running to assure that the peer SSCOP receiver is polled often enough.
G9	Q2110_ TIMER_IDLE	Timer_IDLE defines the time for SSCOP idle phase. At the expiry of Timer_IDLE, SSCOP enters the transient phase again.
G10	Q2110_ MAXSTAT	Maximum number of list elements placed in a SSCOP STAT PDU.
G11	Q2144_ MAXNRP	Maximum permissible SSCOP retransmissions during a proving attempt.
G12	Q2144_ TIMER_ REPEAT_ SREC	Timer_REPEAT_SREC is used to recognize closely spaced SSCOP connection recoveries. Minimum time between SSCOP connection recoveries.
G13	Q2144_ TIMER_ NO_CREDIT	Timer_NO_CREDIT supervises the unavailability of SSCOP credit. Maximum time LM allowes SSCOP to be without credit.
		Following parameters have also been added:
INDEX	NAME	DESCRIPTION
B9	EIM_TE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B10	EIM_UE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B11	EIM_DE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
C7	Q703_T8	Errored interval monitor timer

E13	SL_LOAD_ THRESHOLD	Allowed maximum value for signalling link load in mErlangs without notification The index of earlier B9 parameter JT_Q703_TE is now B12. The indexes of earlier C7, C8, C9 parameters have also been changed so that the index of parameter JT_Q703_TF is now C8, the index of parameter JT_Q703_TO is now C9 and the index of parameter JT_Q703_TS is now C10. Time unit of parameter F17, JT_Q704_TS has been corrected from 1 S to 0.1 S.
Modified command:	D	DELETE SIGNALLING LINK PARAMETER SET
Description of execution printout changes:		The parameter A4 has been added. The earlier parameter A4, JT_Q703_K, is now parameter A5.
INDEX	NAME	DESCRIPTION
A4	SN_RANGE	Maximum value for backward sequence number and forward sequence number of signal unit. ATM specific parameters (SAAL LEVEL) have been added to parameter group G. Group G consists of following parameters:
INDEX	NAME	DESCRIPTION
G0	Q2140_T1	Time between the link release action and the next link re-establish action during the alignment.
G1	Q2140_T2	Maximum time SSCF-NNI will attempt alignment.
G2	Q2140_ PROVING_ LOAD	The load percent of the signalling link during alignment. SSCF-NNI T3 is derived from this parameter.
G3	Q2110_ MAXCC	Maximum count which SSCOP tries connection establishment, release, resynchronization and recovery.
G4	Q2110_ MAXPD	Maximum count of SD PDUs before SSCOP sends a POLL.
G5	Q2110_ TIMER_CC	Timer_CC ensures successful SSCOP connection management actions. Maximum time which SSCOP waits for acknowledgement for connection establishment, release, resynchronization and recovery PDUs.

G6	Q2110_ TIMER_ KEEP_ALIVE	Timer to ensure that the peer SSCOP is still working in a transient phase when there are no SD PDUs to be transferred.
G7	Q2110_ TIMER_ NO_RESP	Timer to recognize that the SSCOP connection is available. Maximum time SSCOP waits for STAT PDU.
G8	Q2110_ TIMER_ POLL	Timer_POLL is running to assure that the peer SSCOP receiver is polled often enough.
G9	Q2110_ TIMER_IDLE	Timer_IDLE defines the time for SSCOP idle phase. At the expiry of Timer_IDLE, SSCOP enters the transient phase again.
G10	Q2110_ MAXSTAT	Maximum number of list elements placed in a SSCOP STAT PDU.
G11	Q2144_ MAXNRP	Maximum permissible SSCOP retransmissions during a proving attempt.
G12	Q2144_ TIMER_ REPEAT_ SREC	Timer_REPEAT_SREC is used to recognize closely spaced SSCOP connection recoveries. Minimum time between SSCOP connection recoveries.
G13	Q2144_ TIMER_ NO_CREDIT	Timer_NO_CREDIT supervises the unavailability of SSCOP credit. Maximum time LM allowes SSCOP to be without credit.
		Following parameters have also been added:
INDEX	NAME	DESCRIPTION
B9	EIM_TE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B10	EIM_UE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B11	EIM_DE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
C7	Q703_T8	Errored interval monitor timer

E13	SL_LOAD_ THRESHOLD	Allowed maximum value for signalling link load in mErlangs without notification The index of earlier B9 parameter JT_Q703_TE is now B12. The indexes of earlier C7, C8, C9 parameters have also been changed so that the index of parameter JT_Q703_TF is now C8, the index of parameter JT_Q703_TO is now C9 and the index of parameter JT_Q703_TS is now C10. The time unit of parameter F17, JT_Q704_TS has been corrected from 1 S to 0.1 S.
Modified command:	E	COPY SIGNALLING LINK PARAMETER SET
Description of execution printout changes:		The parameter A4 has been added. The earlier parameter A4, JT_Q703_K, is now parameter A5.
INDEX	NAME	DESCRIPTION
A4	SN_RANGE	Maximum value for backward sequence number and forward sequence number of signal unit. ATM specific parameters (SAAL LEVEL) have been added to parameter group G. Group G consists of following parameters:
INDEX	NAME	DESCRIPTION
G0	Q2140_T1	Time between the link release action and the next link re-establish action during the alignment.
G1	Q2140_T2	Maximum time SSCF-NNI will attempt alignment.
G2	Q2140_ PROVING_ LOAD	The load percent of the signalling link during alignment. SSCF-NNI T3 is derived from this parameter.
G3	Q2110_ MAXCC	Maximum count which SSCOP tries connection establishment, release, resynchronization and recovery.
G4	Q2110_ MAXPD	Maximum count of SD PDUs before SSCOP sends a POLL.
G5	Q2110_ TIMER_CC	Timer_CC ensures successful SSCOP connection management actions. Maximum time which SSCOP waits for acknowledgement for connection establishment, release, resynchronization and recovery PDUs.

G6	Q2110_ TIMER_ KEEP_ALIVE	Timer to ensure that the peer SSCOP is still working in a transient phase when there are no SD PDUs to be transferred.
G7	Q2110_ TIMER_ NO_RESP	Timer to recognize that the SSCOP connection is available. Maximum time SSCOP waits for STAT PDU.
G8	Q2110_ TIMER_ POLL	Timer_POLL is running to assure that the peer SSCOP receiver is polled often enough.
G9	Q2110_ TIMER_IDLE	Timer_IDLE defines the time for SSCOP idle phase. At the expiry of Timer_IDLE, SSCOP enters the transient phase again.
G10	Q2110_ MAXSTAT	Maximum number of list elements placed in a SSCOP STAT PDU.
G11	Q2144_ MAXNRP	Maximum permissible SSCOP retransmissions during a proving attempt.
G12	Q2144_ TIMER_ REPEAT_ SREC	Timer_REPEAT_SREC is used to recognize closely spaced SSCOP connection recoveries. Minimum time between SSCOP connection recoveries.
G13	Q2144_ TIMER_ NO_CREDIT	Timer_NO_CREDIT supervises the unavailability of SSCOP credit. Maximum time LM allowes SSCOP to be without credit.
		Following parameters have also been added:
INDEX	NAME	DESCRIPTION
B9	EIM_TE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B10	EIM_UE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B11	EIM_DE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
C7	Q703_T8	Errored interval monitor timer

E13	SL_LOAD_ THRESHOLD	Allowed maximum value for signalling link load in mErlangs without notification The index of earlier B9 parameter JT_Q703_TE is now B12. The indexes of earlier C7, C8, C9 parameters have also been changed so that the index of parameter JT_Q703_TF is now C8, the index of parameter JT_Q703_TO is now C9 and the index of parameter JT_Q703_TS is now C10. The time unit of parameter F17, JT_Q704_TS has been corrected from 1 S to 0.1 S.
Modified command:	I	INTERROGATE SIGNALLING LINK PARAMETER SETS
Description of execution printout changes:		The parameter A4 has been added. The earlier parameter A4, JT_Q703_K, is now parameter A5.
INDEX	NAME	DESCRIPTION
A4	SN_RANGE	Maximum value for backward sequence number and forward sequence number of signal unit. The ATM specific parameters (SAAL LEVEL) have been added to parameter group G. Group G consists of following parameters:
INDEX	NAME	DESCRIPTION
G0	Q2140_T1	Time between the link release action and the next link re-establish action during the alignment.
G1	Q2140_T2	Maximum time SSCF-NNI will attempt alignment.
G2	Q2140_ PROVING LOAD	The load percent of the signalling link during alignment. SSCF-NNI T3 is derived from this parameter.
G3	Q2110_ MAXCC	Maximum count which SSCOP tries connection establishment, release, resynchronization and recovery.
G4	Q2110_ MAXPD	Maximum count of SD PDUs before SSCOP sends a POLL.
G5	Q2110_ TIMER_CC	Timer_CC ensures successful SSCOP connection management actions. Maximum time which SSCOP waits for acknowledgement for connection establishment, release, resynchronization and recovery PDUs.

G6	Q2110_ TIMER_ KEEP_ALIVE	Timer to ensure that the peer SSCOP is still working in a transient phase when there are no SD PDUs to be transferred.
G7	Q2110_ TIMER_ NO_RESP	Timer to recognize that the SSCOP connection is available. Maximum time SSCOP waits for STAT PDU.
G8	Q2110_ TIMER_ POLL	Timer_POLL is running to assure that the peer SSCOP receiver is polled often enough.
G9	Q2110_ TIMER_IDLE	Timer_IDLE defines the time for SSCOP idle phase. At the expiry of Timer_IDLE, SSCOP enters the transient phase again.
G10	Q2110_ MAXSTAT	Maximum number of list elements placed in a SSCOP STAT PDU.
G11	Q2144_ MAXNRP	Maximum permissible SSCOP retransmissions during a proving attempt.
G12	Q2144_ TIMER_ REPEAT_ SREC	Timer_REPEAT_SREC is used to recognize closely spaced SSCOP connection recoveries. Minimum time between SSCOP connection recoveries.
G13	Q2144_ TIMER_ NO_CREDIT	Timer_NO_CREDIT supervises the unavailability of SSCOP credit. Maximum time LM allowes SSCOP to be without credit.
		Following parameters have also been added:
INDEX	NAME	DESCRIPTION
B9	EIM_TE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B10	EIM_UE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B11	EIM_DE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
C7	Q703_T8	Errored interval monitor timer

E13	SL_LOAD_ THRESHOLD	Allowed maximum value for signalling link load in mErlangs without notification The index of earlier B9 parameter JT_Q703_TE is now B12. The indexes of the earlier C7, C8, C9 parameters have also been changed so that the index of parameter JT_Q703_TF is now C8, the index of parameter JT_Q703_TO is now C9 and the index of parameter JT_Q703_TS is now C10. The time unit of parameter F17, JT_Q704_TS has been corrected from 1 S to 0.1 S.
Modified command:	M	MODIFY SIGNALLING LINK PARAMETER SET
Description of execution printout changes:		The parameter A4 has been added. The earlier parameter A4, JT_Q703_K, is now parameter A5.
INDEX	NAME	DESCRIPTION
A4	SN_RANGE	Maximum value for backward sequence number and forward sequence number of signal unit. ATM specific parameters (SAAL LEVEL) have been added to parameter group G. Group G consists of following parameters:
INDEX	NAME	DESCRIPTION
G0	Q2140_T1	Time between the link release action and the next link re-establish action during the alignment.
G1	Q2140_T2	Maximum time SSCF-NNI will attempt alignment.
G2	Q2140_ PROVING_ LOAD	The load percent of the signalling link during alignment. SSCF-NNI T3 is derived from this parameter.
G3	Q2110_ MAXCC	Maximum count which SSCOP tries connection establishment, release, resynchronization and recovery.
G4	Q2110_ MAXPD	Maximum count of SD PDUs before SSCOP sends a POLL.
G5	Q2110_ TIMER_CC	Timer_CC ensures successful SSCOP connection management actions. Maximum time which SSCOP waits for acknowledgement for connection establishment, release, resynchronization and recovery PDUs.

G6	Q2110_ TIMER_ KEEP_ ALIVE	Timer to ensure that the peer SSCOP is still working in a transient phase when there are no SD PDUs to be transferred.
G7	Q2110_ TIMER_ NO_RESP	Timer to recognize that the SSCOP connection is available. Maximum time SSCOP waits for STAT PDU.
G8	Q2110_ TIMER_ POLL	Timer_POLL is running to assure that the peer SSCOP receiver is polled often enough.
G9	Q2110_ TIMER_ IDLE	Timer_IDLE defines the time for SSCOP idle phase. At the expiry of Timer_IDLE, SSCOP enters the transient phase again.
G10	Q2110_ MAXSTAT	Maximum number of list elements placed in a SSCOP STAT PDU.
G11	Q2144_ MAXNRP	Maximum permissible SSCOP retransmissions during a proving attempt.
G12	Q2144_ TIMER_ REPEAT_ SREC	Timer_REPEAT_SREC is used to recognize closely spaced SSCOP connection recoveries. Minimum time between SSCOP connection recoveries.
G13	Q2144_ TIMER_ NO_ CREDIT	Timer_NO_CREDIT supervises the unavailability of SSCOP credit. Maximum time LM allowes SSCOP to be without credit.
		Following parameters have also been added:
INDEX	NAME	DESCRIPTION
B9	EIM_TE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B10	EIM_UE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
B11	EIM_DE	Errored interval monitor parameter, see ITU-T Q703 A.10.2
C7	Q703_T8	Errored interval monitor timer
E13	SL_LOAD_ THRESHOLD	Allowed maximum value for signalling link load in mErlangs without notification
		The index of the earlier B9 parameter JT_Q703_TE is now B12.
		The indexes of the earlier C7, C8, C9 parameters have also been changed so that the index of parameter JT_Q703_TF is now C8, the index of parameter JT_Q703_TO is now C9 and the index of parameter JT_Q703_TS is now C10.

3.37 (NR) CCZHAN - Signalling Route Set Data Handling

Modified command:	P	MODIFY OWN SIGNALLING POINT DATA
Description of changes:		Possible values of the parameter <ss7 standard> have been changed. New value JAP16 has been added and it allows 16 bit length signalling point code.
Old semantics:		Possible values of <ss7 standard>: ITU-T, CHI24 and ANSI
New semantics:		Possible values of <ss7 standard>: ITU-T, JAP16, CHI24 and ANSI The command entry continues in the same way as before after a semantic error.

3.38 (NS) CCYHAN - Signalling Link Set Data Handling

New command(s) and menu text(s):	P	CREATE IP TYPE SIGNALLING LINK SET

3.39 (OC) SC4HAN - SCCP Parameter Set Handling

Modified command:	C	CREATE SCCP SIGNALLING POINT PARAMETER SET
Description of execution printout changes:		The new parameter number 27 CO_SEGM_USED for connection oriented segmentation has been added to the execution printout text.
Modified command:	D	DELETE SCCP SIGNALLING POINT PARAMETER SET
Description of execution printout changes:		The new parameter number 27 CO_SEGM_USED for connection oriented segmentation has been added to the execution printout text.

Modified command:	E	COPY SCCP SIGNALLING POINT PARAMETER SET
Description of execution printout changes:		The new parameter number 27 CO_SEGM_USED for connection oriented segmentation has been added to the execution printout text.
Modified command:	H	HELP TEXT FOR SCCP SIGNALLING POINT PARAMETERS
Description of execution printout changes:		The new parameter number 27 CO_SEGM_USED for connection oriented segmentation has been added to the parameter help texts and to the execution printout text.
Modified command:	I	INTERROGATE SCCP SIGNALLING POINT PARAMETER SETS
Description of execution printout changes:		The new parameter number 27 CO_SEGM_USED for connection oriented segmentation has been added to the execution printout text.
Modified command:	M	MODIFY SCCP SIGNALLING POINT PARAMETER SET
Description of execution printout changes:		The new parameter number 27 CO_SEGM_USED for connection oriented segmentation has been added. Guidance and execution prinout texts have been modified.

3.40 (OI) CINHAN - Management Of Traffic Matrix Measurement For MTP

Modified command:	C	DELETE SI INDEX
Description of changes:		The possible values of parameter <network> have been slightly changed. The possible values are all networks configured in the network element. The possible values of the parameter <user part> have been slightly changed. The possible values are all user parts configured in the network element. The command entry continues in the same way as before after a semantic error.
Additional information:		The possible values of the parameter <network> were hard-coded. Guidance and semantics of network are now dynamic, and the possible values are all networks configured in the network element. The possible values of the parameter <user part> were hard-coded. Guidance and semantics of user part are now dynamic, and the possible values are all user parts configured in the network element.

Modified command:	E	DELETE OP/DP INDEX
Description of changes:		The possible values of the parameter <network> have been slightly changed. The possible values are all networks configured in the network element. The command entry continues in the same way as before after a semantic error.
Additional information:		The possible values of the parameter <network> were hard-coded. Guidance and semantics of network are now dynamic, and the possible values are all networks configured in the network element.

Modified command:	O	CONNECT OP/DP INDEX TO SIGNALLING POINT
Description of changes:		The possible values of the parameter <network> have been slightly changed. The possible values are all networks configured in the network element. The command entry continues in the same way as before after a semantic error.
Additional information:		The possible values of the parameter <network> were hard-coded. Guidance and semantics of network are now dynamic, and the possible values are all networks configured in the network element.

Modified command:	U	CONNECT SI INDEX TO USER PART
Description of changes:		Possible values of parameter <network> have been slightly changed. The ossible values are all networks configured in the network element. Possible values of parameter <user part> have been slightly changed. The possible values are all user parts configured in the network element. The command entry continues in the same way as before after a semantic error.
Additional information:		Possible values of the parameter <network> were hard-coded. Guidance and semantics of network are now dynamic, and the possible values are all networks configured in the network element. Possible values of the parameter <user part> were hard-coded. Guidance and semantics of user part are now dynamic, and the possible values are all user parts configured in the network element.

3.41 (OL) CSLPRI - Interrogation of Signalling Link Statistics Meters

Modified command:	A	INTERROGATE SIGNALLING LINK AVAILABILITY METERS
Description of changes:		The new parameter <link type> has been added to the first parameter block. Possible values are ATM or TDM or ALL. Default value is ALL.
Old syntax:		OLA:<signalling link numbers>,<unit>, <measurement period>: <measurement name info>;
New syntax:		OLA:<signalling link numbers>, <link type>,<unit>, <measurement period>: <measurement name info>; The command does not work with the old syntax.
Description of execution printout changes:		A new parameter <link type> has been added to the command. Signalling links are grouped into TDM and ATM based links. The TDM and ATM based links have separate printouts.

Modified command:	E	EMPTY SIGNALLING LINK EVENT LOGS
Description of changes:		A new parameter <link type> has been added to the first parameter block. Possible values are ATM or TDM or ALL. Default value is ALL.
Old syntax:		OLE: <signalling link numbers>;
New syntax:		OLE: <signalling link numbers>,<link type>; The command still works with the old syntax.

Modified command:	L	INTERROGATE SIGNALLING LINK EVENT LOGS
Description of changes:		A new parameter <link type> has been added to the first parameter block. Possible values are ATM or TDM or ALL. Default value is ALL.

Old syntax:		OLL: <signalling link numbers>:<start date>, <start time>:<stop date>, <stop time>: <unit>;
New syntax:		OLL: <signalling link numbers>,<link type>:<start date>, <start time>:<stop date>, <stop time>: <unit>; The command does not work with the old syntax.
Description of execution printout changes:		A new parameter <link type> has been added to the command. Signalling links are grouped into TDM and ATM based links. The TDM and ATM based links have separate printouts.
Modified command:	P	INTERROGATE SIGNALLING LINK PERFORMANCE METERS
Description of changes:		A new parameter <link type> has been added to the first parameter block. Possible values are ATM or TDM or ALL. Default value is ALL.
Old syntax:		OLP: <signalling link numbers>, <unit>, <measurement period>: <measurement name info>;
New syntax:		OLP: <signalling link numbers>, <link type>,<unit>, <measurement period>: <measurement name info>; The command does not work with the old syntax.
Description of execution printout changes:		A new parameter <link type> has been added to the command. Signalling links are grouped into TDM and ATM based links. The TDM and ATM based links have separate printouts.
Modified command:	T	INTERROGATE SIGNALLING LINK LOAD
Description of changes:		A new parameter <link type> has been added to the first parameter block. Possible values are ATM or TDM or ALL. Default value is ALL.
Old syntax:		OLT: <signalling link numbers>,<unit>,<measurement period>: <measurement name info>;

New syntax:		OLT: <signalling link numbers>,<link type>,<unit>,<measurement period>: <measurement name info>; The command does not work with the old syntax.
Description of execution printout changes:		A new parameter <link type> has been added to the command. Signalling links are grouped into TDM and ATM based links. The TDM and ATM based links have separate printouts.
Modified command:	U	INTERROGATE SIGNALLING LINK UTILIZATION METERS
Description of changes:		A new parameter <link type> has been added to the first parameter block. Possible values are ATM or TDM or ALL. Default value is ALL
Old syntax:		OLU: <signalling link numbers>,<unit>,<measurement period>: <measurement name info>;
New syntax:		OLU: <signalling link numbers>,<link type>,<unit>,<measurement period>: <measurement name info>; The command does not work with the old syntax.
Description of execution printout changes:		A new parameter <link type> has been added to the command. Signalling links are grouped into TDM and ATM based links. The TDM and ATM based links have separate printouts.

3.42 (OM) CSQPRI - Interrogation Of Auxiliary MTP Statistics Meters

New command(s) and menu text(s):	S	INTERROGATE ATM BASED SIGNALLING LINK SAAL METERS
	I	INTERROGATE MTP LEVEL 2 METERS

3.43 (OS) CSSHAN - States Of SS7 Statistics

Modified command:	G	MODIFY STATES OF INTERVAL LOG REPORTS
Description of changes:		Possible values of parameter <log type> have been changed. There is a new name-specific parameter GTT, which can have values A or P, like the other parameters.
Old semantics:		Old parameters: SL, MTPSP, SCCPSP, SEG, TC and ALL.
New semantics:		New parameters: SL, MTPSP, SCCPSP, SEG, GTT, TC and ALL. The command entry continues in the same way as before after a semantic error.
Additional information:		New parameter for a reporting state of the new report type: SCCP GT TRANSLATION ERRORS LOG.
Description of execution printout changes:		A new report type SCCP GT TRANSLATION ERRORS LOG REPORTS has been added to the execution printout text.
Additional information:		New text is seen with parameters GTT (new text alone) or ALL (all report types).

Modified command:	J	INTERROGATE REPORTING STATUS OF SIGNALLING LINKS
Description of changes:		The new position-defined parameter <signalling link type> has been added to the first parameter block. The parameter indicates the link type of inquired links (ATM- or TDM-based signalling links). Possible values are ATM/TDM/ALL. Default value is ALL.
Old syntax:		OSJ: <signalling link numbers>:<reporting status>;
New syntax:		OSJ: <signalling link numbers>,<signalling link type>:<reporting status>; The command does not work with the old syntax.
Additional information:		With this new parameter the user can interrogate the reporting statuses of ATM-based or TDM-based signalling links only.

Description of execution printout changes:		TDM and ATM links are printed-out separately.
Additional information:		In the previous implementation there were only one type of signalling link. Now there are ATM and TDM type links, which can be interrogated separately.
Modified command:	L	MODIFY REPORTING STATUS OF SIGNALLING LINKS
Description of changes:		The new position-defined parameter <signalling link type> has been added to the first parameter block. The parameter indicates the type of links to be modified (ATM- or TDM-based signaling links). Possible values are ATM/TDM/ALL. Default value is ALL.
Old syntax:		OSL: <signalling link number>:<reporting status>;
New syntax:		OSL: <signalling link number>,<signalling link type>:<reporting status>; The command does not work with the old syntax.
Additional information:		With this new parameter the user can modify the reporting statuses of ATM-based or TDM-based signaling links only.
Description of execution printout changes:		ATM and TDM type links are printed out separately.
Additional information:		In the previous implementation there were only one type of signaling link. Now there are ATM and TDM type links, which can be modified separately.
Modified command:	Q	INTERROGATE STATES OF INTERVAL LOG REPORTS
Description of changes:		Possible values of parameter <log type> have been changed. There is a new name-specific parameter GTT.
Old semantics:		Old parameters: SL, MTPSP, SCCPSP, SEG, TC and ALL.
New semantics:		New parameters: SL, MTPSP, SCCPSP, SEG, GTT, TC and ALL.

	The command entry continues in the same way as before after a semantic error.
Additional information:	New parameter for a reporting state of the new report type: SCCP GT TRANSLATION ERRORS LOG.
Description of execution printout changes:	A new report type SCCP GT TRANSLATION ERRORS LOG REPORTS has been added to the execution printout text.
Additional information:	The new text can be seen with parameters GTT (new text alone) or ALL (all report types).

3.44 (OT) SSXPRI - Interrogation Of SCCP And TCAP Statistics Meters

Modified command:	Q	INTERROGATE SCCP QUALITY OF SERVICE METERS
Description of execution printout changes:		There are two new SCCP message types to be measured: LUDT and LUDTS. Four new counters have been added to the execution printout. 9BIS.17 ... LUDT MESSAGES SENT 9BIS.18 ... LUDTS MESSAGES SENT 9BIS.19 ... LUDT MESSAGES RECEIVED 9BIS.20 ... LUDTS MESSAGES RECEIVED

3.45 (QN) OMIHAN - O&M Network Handling

New command(s) and menu text(s):	N	INTERROGATE OCCASIONAL VALUES OF O&M CHANNEL METERS

Modified command:	A	ADD NEW O&M CONNECTIONN
Description of changes:		The use of improper parameter combinations is prevented. It was possible to give parameters PEL, PT and ST without parameter SEL.
Old semantics:		It was possible to give parameters PEL, PT and ST without parameter SEL.
New semantics:		It is not possible to give parameters PEL, PT and ST without parameter SEL. The command entry continues in the same way as before after a semantic error.

Modified command:	I	INTERROGATE O&M NETWORK CONFIGURATION
Description of execution printout changes:		The TYPE field in the execution printout can now have the value SRR (Service Routing Register).
Additional information:		SRR can be added as a system type in QNA and modified in QNM as well.

3.46 (QR) YOOHOO - TCP/IP Stack Data Handling

New command(s) and menu text(s):	S	INTERROGATE NETWORK STATUS
	X	TEST HOST REACHABILITY (PING)
	F	DISTRIBUTE CONFIGURATION FILE
	R	RESET TCP/IP NETWORK COMMUNICATIONS ENVIRONMENT
	J	INTERROGATE DNS PARAMETERS
	K	CONFIGURE DNS PARAMETERS - 31012
	L	INTERROGATE STATIC ROUTES - 31012
	D	DELETE STATIC ROUTE - 31012

	C	CREATE STATIC ROUTE - 31012
	H	INTERROGATE TCP/IP PARAMETERS - 31012
	T	CONFIGURE TCP/IP PARAMETERS - 31012
	I	INTERROGATE NETWORK INTERFACE - 31012
	W	FORCE INTERFACE SWITCHOVER - 31012
	G	REMOVE NETWORK INTERFACE - 31012
	N	CONFIGURE NETWORK INTERFACE - 31012
Deleted Command(s) and menu text(s):	C	CREATE NETWORK INTERFACE
	D	DELETE NETWORK INTERFACE
	E	DELETE ROUTE
	F	MODIFY ROUTE DATA
	G	CHANGE NETWORK INTERFACE STATE
	H	CHANGE ROUTE STATE
	L	INTERROGATE ROUTE DATA
	M	MODIFY NETWORK INTERFACE DATA
	R	CREATE ROUTE
	T	CREATE TCP/IP PARAMETER DATA
	I	INTERROGATE NETWORK INTERFACE DATA

3.47 (QU) TREHAN - BSS Transmission Equipment Handling

Modified command(s) and menu text(s):	F	HANDLE EQUIPMENT COLLECTION AND CHECKSUM POLLING (OLD: START EQUIPMENT COLLECTION OR CHECKSUM POLLING)
Description of changes:		The new position-defined parameter <action> has been added to the second parameter block. Possible values are START, STOP and INQ. The new position-defined parameters CH, BCF and <transceiver unit index> have been added to the third parameter block. Parameter CH indicates Q1 channel number and BCF indicates BCF number. The new position-defined parameters <transmission equipment type> and <transmission equipment index> have been added to the fourth parameter block. Possible values of parameter <operation> have been changed. The value INQ cannot be given as an <operation> anymore. Added new parameters <action>, CH, BCF, <transceiver unit index>, <transmission equipment type> and <transmission equipment index>.
Old syntax:		QUF:<operation>;
New syntax:		QUF:<operation>:<action>:CH,<q1 channel number> | BCF,<bcf number>,<transceiver unit index>:<transmission equipment type>,<transmission equipment index>; The command does not work with the old syntax.
Old semantics:		QUF:[<operation>]; Possible values of <operation>: EQC, CSP and INQ. Default value of operation: INQ
New semantics:		Possible values of <operation>: EQC and CSP. Default value of <operation> parameter: ALL. Possible values of <action>: START, STOP and INQ. Default value of <action> parameter: INQ. CH parameter can be given only when executing CSP. Parameter <transceiver unit index> can be given only when BTS site type is PrimeSite and BCF is given. The parameters <transmission equipment type> and <transmission equipment index> can be given only when executing CSP. The parameter <transmission equipment index> can be given if <transmission equipment type> is given. The command entry continues in the same way as before after a semantic error.

Modified command:	L	LIST SOFTWARE BUILD DATA
Description of changes:		Possible values of the second parameter block have been changed. A new value STATUS has been added to the second parameter block. The parameter inquires SW download or activation status information.
Old semantics:		QUL:<build id>:<output definition>:<subdirectory>; Possible values of <output definition> parameter: BUILD, EQU, MF and DSK. Default value is BUILD.
New semantics:		QUL:<build id>:<output definition>:<subdirectory>; Possible values of <output definition> parameter: BUILD, EQU, MF, DSK and STATUS. Default value is BUILD. The command entry continues in the same way as before after a semantic error.

3.48 (QV) VTCOMM - Virtual Terminal Communication

Deleted Command(s) and menu text(s):	B	SET BREAK CHARACTER (Command isn't needed anymore)

3.49 (QW) Q1IHAN - Q1 Interface Handling

Modified command:	C	CREATE SERVICE CHANNEL
Description of changes:		A new postition-defined parameter <q1 channel number> for selective BSC Q1 channel creation is added. By default, if this parameter is not given the system selects the first free Q1 channel number when creating the Q1 channel.

Old syntax:		QWC: <baud rate>,<bandwidth>,<used bits>:<external PCM-TSL>,<sub tsl>;
New syntax:		QWC: <q1 channel number>:<baud rate>,<bandwidth>,<used bits>:<external PCM-TSL>,<sub tsl>; The command does not work with the old syntax.
Modified command:	R	REMOVE EQUIPMENT FROM SERVICE CHANNEL
Description of changes:		A new name-defined parameter, transreceiver unit index (TRX), has been added to the first parameter block. The parameter can be given only with the parameter BCF. The possible values are 1 - 16.
Old syntax:		QWR: CH=<q1_ch_nbr>/BCF=<index>:<au_type>;
New syntax:		QWR: CH=<q1_ch_nbr>/ BCF=<index>,TRX=<index>:<au_type>; The command still works with the old syntax.
Modified command:	A	ADD EQUIPMENT TO SERVICE CHANNEL
Description of changes:		A new name-defined parameter, transreceiver unit index (TRX), has been added to the first parameter block. The parameter can be given only with the parameter BCF. The possible values are 1 - 16.
Old syntax:		QWA: CH=<q1_ch_nbr>/ BCF=<index>:<au_type>:<au_address>;
New syntax:		QWA: CH=<q1_ch_nbr>/ BCF=<index>,TRX=<index>:<au_type>:<au_address>; The command still works with the old syntax.

Modified command:	G	CHANGE EQUIPMENT INFORMATION
Description of changes:		A new name-defined parameter, transreceiver unit index (TRX), has been added to the first parameter block. The parameter can be given only with the parameter BCF. The possible values are 1 - 16.
Old syntax:		QWG: CH=<q1_ch_nbr>/ BCF=<index>:<au_type>:<au_address>;
New syntax:		QWG: CH=<q1_ch_nbr>/ BCF=<index>,TRX=<index>:<au_type>:<au_address>; The command still works with the old syntax.

3.50 (RC) CGROUP - Circuit Group Handling

New command(s) and menu text(s):	R	REMOVE CIRCUITS FROM CIRCUIT GROUP
	N	MODIFY CIRCUIT GROUP
Modified command(s) and menu text(s):	M	MODIFY ADDITIONAL CIRCUIT GROUP PARAMETERS (OLD: MODIFY CIRCUITS/CIRCUIT GROUP)
	I	INTERROGATE CIRCUIT GROUP (OLD: INTERROGATE CIRCUITS/CIRCUIT GROUPS)
	D	DELETE CIRCUIT GROUP (OLD: DELETE CIRCUITS/ CIRCUIT GROUP)
	A	ADD CIRCUITS TO CIRCUIT GROUP (OLD: ADD NEW CIRCUITS TO CIRCUIT GROUP)
Deleted Command(s) and menu text(s):	G	CREATE SPECIAL CIRCUIT GROUP

Modified command:	A	ADD CIRCUITS TO CIRCUIT GROUP
Description of changes:		The parameter <switch> has been changed. The new name is <ssw>, the default of which is 80 <group switch). The possible values range from 0 to 9 (subscriber stage switch number). A new name-defined parameter <control of circuit> (CTRL) has been added to the second parameter block. The parameter indicates the exchange which controls the circuit(s). New CGROUP printouts have been added.
Old syntax:		To add circuit(s) to channel associated signalling (CAS) and to special (SPE) circuit group: RCA: <switch>:<ncgr>, <crct>; RCA: <switch>:<ncgr>, <bcrct>; To add circuit(s) to common channel signalling (CCS) circuit group: RCA: <switch>:<ncgr>, <etpcm>, <crct>, <ccspcm>; RCA: <switch>:<ncgr>, <etpcm>, <crct>, <cic>; To add circuit(s) to primary access rate (PRA) circuit group: RCA: <switch>:<ncgr>, <crct>, <dcs>;
New syntax:		To add circuit(s) to channel associated signalling (CAS) circuit group either NCGR or CGR must be given, but giving both is not allowed. Giving parameters ORD,CTRL,REV and ORDSTEP is optional. RCA:NCGR=<circuit group name>,CGR=<circuit group number>:CRCT=<circuit(s)>,ORD=<hunting ordinal number>,CTRL=<control>,REV=<circuits in reverse order>,ORDSTEP=<step of added circuits 'ord>;

	To add circuit(s) to common channel signalling (CCS) circuit group either NCGR or CGR must be given, but giving both is not allowed. Giving parameter CRCTSTEP is optional. If cgr is created without method, giving HGR is mandatory and ORD,CTRL and REV are optional. Otherwise using those parameters is not allowed. Giving the parameter ETPCM is mandatory if circuit format is etpcm-tcpcm-pcm. Otherwise it is not allowed. pfile: freecic on RCA:NCGR=<circuit group name>,CGR=<circuit group number>:ETPCM=<etpcm>,CRCT=<circuit(s)>,CRCTSTEP=<step of circuits>: CIC=<circuit identyfication code>,CICDIR=<direction of cic>,CICSTEP=<step of cic>:HGR=<hunting group>,ORD=<hunting ordinal number>,CTRL=<control>,REV=<circuits in reverse order>; pfile: freecic off RCA:NCGR=<circuit group name>,CGR=<circuit group number>:ETPCM=<etpcm>,CRCT=<circuit(s)>,CRCTSTEP=<step of circuits>: CCSPCM=<number of pcm system>:HGR=<hunting group>,ORD=<hunting ordinal number>,CTRL=<control>,REV=<circuits in reverse order>; To add circuit(s) to primary access rate (PRA) circuit group either NCGR or CGR must be given, but giving both is not allowed. Parameter ORD is optional. DCS is a prfile parameter. RCA:NCGR=<circuit group name>,CGR=<circuit group number>:CRCT=<circuit(s)>,ORD=<hunting ordinal number>,DCS=<d-channel system>; To add circuit(s) to special (SPE) circuit group either NCGR or CGR must be given, but giving both is not allowed. Either CRCT or BCRCT parameter can be used, depending on the format of the cgr circuits. RCA:NCGR=<circuit group name>,CGR=<circuit group number>:CRCT=<circuits>,BCRCT=<bit based circuits>; The command does not work with the old syntax.
Additional information:	Block guide presents only those parameters which are optional/mandatory.
Removed error text(s):	All semantics and execution error texts.
New error text(s):	*SEMANTICS ERRORS* /*** INVALID DELIMITER ***/ The name given in the parameter contains characters which are not allowed.

/*** TOO MANY CHARACTERS ***/

The name for the circuit group contains more than eight characters.

/*** NONEXISTENT CIRCUIT GROUP ***/

There is no such circuit group in the exchange.

EXECUTION ERRORS

/*** CIRCUIT ADDITION TO CIRCUIT GROUP FAILED ***/

Addition of a circuit into a circuit group failed.

/*** FILE DISTRIBUTION AND DISK UPDATE FAILURE ***/

An error has occurred both in file distribution and in disk update.

/*** TRANSLATION TO NUMERIC VALUE PRODUCES TOO BIG A VALUE ***/

The translation to a numeric value produces a result that does not fit in the range given for that constant.

/*** INVALID PCM NUMBER ***/

Invalid pcm number given.

/*** PARAM CHECKING FAILED ***/

Given parameter values checking not succeed.

/*** PCM NOT EQUIPPED ***/

The PCM circuit is not equipped.

/*** INCORRECT TIME SLOT ***/

Measurement of the multiplexer subscriber line fails. The time slot has to be < 32, except timeslot 16 is not allowed in channel-associated signalling.

/*** TOO MANY CIRCUITS ***/

An attempt has been made to add circuits to the circuit group, over the allowed maximum number.

/*** SWITCHING DATA UPDATE FAILED ***/

Switching data update failed.

/*** CIRCUIT TYPE INVALID ***/

The circuit is of an incorrect type, e.g. an attempt has been made to add a circuit defined for line signalling to a CCS circuit group.

/*** CCSPCM ALREADY IN USE ***/

CCSPCM already in use.

/*** CIRCUIT GIVEN MORE THAN ONCE (2) ***/

The same circuit is given more than once.

/*** NOT SAME PCM NUMBERS ***/

The given circuits are not of the same PCM circuit in case of common channel signalling.

/*** PCM DEFINED TO OTHER CCSPCM ***/

PCM already defined to other ccspcm.

/*** WRONG TYPE OF TRANSCODER ***/

Wrong type of transcoder.

/*** CIC ALREADY IN USE ***/

The CIC is already in use.

/*** INVALID CIRCUIT IDENTIFICATION CODE ***/

Invalid circuit identification code.

/*** TOO BIG CIRCUIT IDENTIFICATION CODE VALUE ***/

Too big circuit identification code value.

Description of execution printout changes:

A new circuits addition printout has been added:

<crct format> possible values are PCM-TSL, ETPCM-TCPCM-TSL and PCM-TSL-SUBTSL

<added crct> presents added circuit

```
CIRCUITS ADDED TO CIRCUIT GROUP

NCGR   : <circuit group name>

FORMAT : <crct format>
       : <added crct>

TOTAL NUMBER OF CIRCUITS = <number of circuits in cgr>

COMMAND EXECUTED
```

Modified command: C CREATE CIRCUIT GROUP

Description of changes:

The parameter <switch> has been changed. Its new name is <ssw>, and the default is 80 (group switch). Possible values range from 0 to 9 (subscriber stage switch number).

The parameter <crct> has been removed.

(Modified command creates circuit group without circuit.)

Possible values of parameter TYPE <circuit group type> have been changed.

New CGROUP printouts have been added.

Old syntax:	To create channel associated signalling (CAS) circuit group: RCC: <ncgr>, <dir>, <crct>, <lsi>, <inr>, <tree>; To create common channel signalling (CCS) circuit group: RCC: <net>:<ncgr>, <dir>, <crct>, <lsi>, <inr>, <tree>, <ccspcm>, <sp>; To create primary access rate (PRA) circuit group: RCC: <ncgr>, <crct>, <lsi>, <inr>, <tree>, <dcs>; To create special (SPE) circuit group: RCG: <switch>:<type>, <cgr>, <ncgr>, <crct>;
New syntax:	To create channel associated signalling (CAS) circuit group: Parameter CGR is optional to give. RCC: TYPE=<circuit group type>,NCGR=<circuit group name>, CGR=<circuit group number>: DIR=<direction>, LSI=<line signalling>; To create common channel signalling (CCS) circuit group: Parameter CGR is optional. Parameter METHOD is mandatory if dir is bidirectional, otherwise it cannot be given. RCC: TYPE=<circuit group type>,NCGR=<circuit group name>, CGR=<circuit group number>: DIR=<direction>, NET=<signalling network>, SPC=<signalling point code>, LSI=<line signalling>: METHOD=<method>; To create primary access rate (PRA) circuit group: Optional feature (prfile). Parameter CGR is optional. RCC: TYPE=<circuit group type>,NCGR=<circuit group name>, CGR=<circuit group number>:LSI=<line signalling>; To create special (SPE) circuit group: RCC: TYPE=<circuit group type>,NCGR=<circuit group name>, CGR=<circuit group number>:FORMAT=<format of circuit>,HUNTED=<cgr hunted>; The command does not work with the old syntax.
Additional information:	Block guide presents only those parameters which are optional/mandatory.
Old semantics:	Possible values of TYPE <circuit group type>: CAS, CCS, PRA and SPE. No default value.
New semantics:	Possible values of TYPE <circuit group type>: CAS, CCS, DCS and SPE. No default value. The command entry continues in the same way as before after a semantic error.

Removed error text(s):	All semantics and execution error texts
New error text(s):	*SEMANTICS ERROR TEXTS* /*** INVALID DELIMITER ***/ The name given in the parameter contains characters which are not allowed. /*** TOO MANY CHARACTERS ***/ The name for the circuit group contains more than eight characters. /*** CIRCUIT GROUP EXISTENT ***/ The given circuit group name or number is not allowed because there is another circuit group using the same name. Give unique name and number for circuit group. /*** SIGNALLING NONEXISTENT ***/ The given signalling name in the parameter not existent. *EXECUTION ERROR TEXTS* /*** CIRCUIT GROUP UPDATING FAILED ***/ Circuit group data not updated to disk. /*** FILE DISTRIBUTION AND DISK UPDATE FAILURE ***/ An error has occurred both in file distribution and in disk update. /*** TRANSLATION TO NUMERIC VALUE PRODUCES TOO BIG A VALUE ***/ The translation to a numeric value produces a result that does not fit in the range given for that constant. /*** INVALID CIRCUIT FORMAT ***/ Invalid circuit format. /*** NO FREE RECORD IN FILE ***/ The file has no free records when an attempt has been made to reserve a record in the file. /*** PARAM CHECKING FAILED ***/ Given parameter values checking not succeed. /*** INTERFACE AND LINE SIGNALLING DO NOT MATCH ***/ Interface and line signalling do not match.

		/*** MAXIMUM COUNT OF CIRCUIT GROUPS TO SIGNALLING POINT EXCEEDED ***/ There are too many circuit groups to the same signalling point. /*** NETWORK AND LINE SIGNALLING DO NOT MATCH ***/ Given network and line signalling do not match. /*** UNKNOWN SIGNALLING POINT ***/ The signalling point does not exists.
Modified command:	D	DELETE CIRCUIT GROUP
Description of changes:		The parameter <switch> has been changed. Its new name is <ssw>, and the default is 80 (group switch). Possible values range from 0 to 9 (subscriber stage switch number). (Old delete command (RCD) is split to remove circuits (RCR) and delete circuit group (RCD) commands.) New CGROUP printouts have been added.
Old syntax:		RCD: <switch>:<ncgr>;
New syntax:		To delete circuit group either NCGR or CGR must be given, but both together are not allowed. RCD: NCGR=<circuit group name>, CGR=<circuit group number>; The command does not work with the old syntax.
Additional information:		Block guide presents only those parameters which are optional/mandatory.
Removed error text(s):		All semantics and execution texts
New error text(s):		*SEMANTIC ERRORS* /*** INVALID DELIMITER ***/ The name given in the parameter contains characters which are not allowed. /*** TOO MANY CHARACTERS ***/ The name for the circuit group contains more than eight characters. /*** NONEXISTENT CIRCUIT GROUP ***/ The given circuit group not exist in exchange.

EXECUTION ERRORS

/*** CIRCUIT GROUP DELETION FAILED ***/

Deletion of the internal circuit group failed.

/*** CIRCUIT NOT FREE ***/

The circuit is already connected through the switch.

/*** FILE DISTRIBUTION AND DISK UPDATE FAILURE ***/

An error has occurred both in file distribution and in disk update.

/*** FACILITY CONTROL EXISTENT ***/

The facility control exists.

/*** CIRCUIT STATE CHANGE NOT POSSIBLE ***/

The circuit is in an incorrect working state. E.g. the state transition from state NU-US to WO-EX can not be made directly.

/*** PARAM CHECKING FAILED ***/

Given parameter values checking not succeed.

/*** PBX SUPLEMENTARY SERVICES ***/

An attempt has been made to delete a circuit group which has supplementary services. In order to delete the circuit group, first delete the supplementary services from the circuit group.

/*** ROUTE OR CIRCUIT GROUP HAS A TIMER INDEX ATTACHED ***/

Route or circuit group cannot be deleted if there is a timer index attached to it. Remove the timer index first, using the MML command CTR.

/*** CIRCUIT GROUP IN ROUTE ***/

Circuit group is not allowed to belong to route in deletion.

/*** SWITCHING DATA UPDATE FAILED ***/

Switching data update failed.

Modified command:	I	INTERROGATE CIRCUIT GROUP

Description of changes:

The parameter <switch> has been changed. Its new name is <ssw>, the default of which is 80 (group switch). Possible values range from 0 to 9 (subscriber stage switch number).

The new parameter <type> has been added. It is used to interrogate circuit group type. Possible values are CAS, CCS, PRA <optional> and SPE.

The new parameter <dir> has been added. It is used to interrogate direction of circuit group. Possible values are IN, OUT and BI.

The new parameter <lsi> has been added. It is used to interrogate line signalling.

The new parameter <tree> has been added. It is used to interrogate analysis tree.

The new parameter <inr> has been added. It is used to interrogate incoming register signalling.

The new parameter <search> has been added. It is used to select searching criteria. Possible values are from 1 to 9.

The new parameter <print> has been added. It is used to select displaying type. Possible values are from 1 to 5. The parameter is eliminated from the user if <search> is 4, 5, 6 or 7. Those cases have their own printing forms.

The parameter <crct> has been changed to be an optional in case when trascoder circuits are inquired. If <crct> is given, the certain transcoder circuit(s) is inquired. If <crct> is not given, all circuits of given etpcm are inquired.

Possible values of parameter TYPE <circuit group type> have been changed.

New CGROUP printouts have been added.

Old syntax:

Interrogate circuit groups

RCI:<switch>;

Interrogate by circuit group number or name:

RCI:<switch>:<cgr>,<ncgr>;

Interrogate by circuit(s):

RCI:<switch>:<crct>;

Interrogate by D-channel system:

RCI:<switch>:<dcs>;

Interrogate by network and signalling point code:

RCI:<switch>:<net>,<spc>;

	Interrogate by network, signalling point code and circuit identification code: RCI:<switch>:<net>,<spc>,<cic>; Interrogate by network, signalling point code, number of pcm system: RCI:<switch>:<net>,<spc>,<ccstsl>;
New syntax:	Modified: interrogate circuit groups RCI; New : interrogate by circuit group type. RCI:SEA=<searching criteria(1)>:TYPE=<circuit group type>:PRINT=<displaying type>; New : interrogate by direction. RCI:SEA=<searching criteria(2)>:DIR=<direction>:PRINT=<displaying type>; Modified: interrogate by circuit group number or name. Either NCGR or CGR must be given, both are not allowed. RCI:SEA=<searching criteria(3)>:CGR=<circuit group number>,NCGR=<circuit group name>:PRINT=<displaying type>; Modified: interrogate by circuit(s). Either ETPCM+CRCT, CRCT or BCRCT can be given. RCI:SEA=<searching criteria(4)>:ETPCM=<etpcm>,CRCT=<circuits>,BRCT=<circuits>; Modified: interrogate by D-channel system. Optional (prfile). RCI:SEA=<searching criteria(5)>:DCS=<d-channel name>; Modified: interrogate by network and signalling point code. RCI:SEA=<searching criteria(6)>:NET=<network indicator>,SPC=<signalling point code>; Modified: interrogate by network, signalling point code and circuit identification code (freecic on). Optional (prfile). RCI:SEA=<searching criteria(7)>:NET=<network indicator>,SPC=<signalling point code>,CIC=<circuit identyfication code>,DTYPE=<displaying type for free/ reserved cic>; Modified: interrogate by network, signalling point code, number of pcm system and tsl (freecic off). Optional (prfile). RCI:SEA=<searching criteria(7)>:NET=<network indicator>,SPC=<signalling point code>,CCSPCM=<number of pcm system>,TSL=<timeslot>;

	New : interrogate by line signalling. RCI:SEA=<searching criteria(8)>:LSI=<line signalling>:PRINT=<displaying type>; The command does not work with the old syntax.
Additional information:	Block guide presents only those parameters which are optional/mandatory.
Old semantics:	Possible values of TYPE <circuit group type>: CAS, CCS, PRA and SPE. No default value.
New semantics:	Possible values of TYPE <circuit group type>: CAS, CCS, DCS and SPE. No default value. The command entry continues in the same way as before after a semantic error.
Removed error text(s):	All semantics and execution texts
New error text(s):	*SEMANTICS ERRORS* /*** INVALID DELIMITER ***/ The name given in the parameter contains characters which are not allowed. /*** TOO MANY CHARACTERS ***/ The name for the circuit group contains more than eight characters. /*** NONEXISTENT CIRCUIT GROUP ***/ The given circuit group not exist in exchange. *EXECUTION ERRORS* /*** PARAM CHECKING FAILED ***/ Given parameter values checking not succeed. /*** INCORRECT CIRCUIT ***/ The circuit is not defined.
Description of execution printout changes:	New parameter <ordinal number> (ORD) has been added to the execution printout of the circuit. New parameter <quasi association> (QACGR) has been added to the execution printout of printing selection 3.

Modified command:	M	MODIFY ADDITIONAL CIRCUIT GROUP PARAMETERS

Description of changes:

Command contains incoming circuit group parameters. Parameter <stdd> has been removed.

Parameter <std> is initialized by value 0. Other old M command parameters have been moved to the new N command.

The new parameter <ccgr> has been added. The parameter is used to copy an additional circuit group parameter to given <cgr/ncgr>. Possible values are the same as those of the <cgr> parameter.

A new name-defined optional parameter <quasi association> (QACGR) has been added to the second parameter block. The parameter indicates whether the quasi associated pcm is used or not. Possible values are Y and N. The default value is N.

New CGROUP printouts have been added.

Old syntax:

RCM:<ncgr>:

<std>,<stdd>,<scat>,<area>,<dba>,<pri>,<corg>,<dca>,<arf>,<cx>>,<ctr>,<man>,<aan>,
<nuco>,<ta>,<atme>,<dcme>,<echo>,<rsu>,<clir>,<dcc>,<sset>,<loc>,<lc>,<chg>,<oaoc>,
<dnn>,<rdq>,<ddq>,<cli>,<icli>,<igor>,<scbm>,<scie>,<scic>,<ecat>,<cac>,<ca>,<caci>,
<cai>,<nccp>,<remn>,<astc>,<apri>,<acor>,<rdr>,<rnpr>,<rfcl>,<plock>,<chrn>,<hb>:

<act>,<dr1>,<art1,<dr2>,<art2>,<tres1>,<tres2>,<dr1a>,<art1a>,<dr2a>,<art2a>,<acta>, <dr1b>,<art1b>,
<dr2b>,<art2b>,<actb>,<dr1c>,<art1c>,<dr2c>,<art2c>,<actc>:

<sp>,<net>,<rej11>,<act11>,<rej12>,<act12>,<rej21>,<act21>,<rej22>,<act22>;

New syntax:

To modify additional circuit group parameters:

For external circuit groups either NCGR or CGR must be given, but both together are not allowed.

RCM:NCGR=<circuit group name>,CGR=<circuit group number>: STD=<stored digits>,EC=<external subscriber category>,AREA=<area code>,DBA=<digit before analysis>, PRI=<priority of circuit group>,CORG=<charging origing>,DCA=<detailed charging>,ARF=<arf circuit group>,CX=<centrex circuit group>, CTR=<charging is transferred>,MAN=<missing a numbers>,TA=<test analysis in circuit group>,CCGR=<number of copied circuit group>;

Old syntax:

RCM: NCGR=<circuit group name>, CGR=<circuit group number>: STD=<stored digits>, EC=<external subscriber category>, AREA=<area code>, DBA=<digit before analysis>, PRI=<priority of circuit group>,CORG=<charging origing>,DCA=<detailed charging>,ARF=<arf circuit group>, CX=<centrex circuit group>, CTR=<charging is transferred>, MAN=<missing a numbers>, AAN=<administrational a-subscriber number>, NUCO=<number complate>, TA=<test analysis in circuit group>, ATME=<automatic transmission measuring equipment>, DCME=<digital circuit multiplication equipment>, ECHO=<echo canceller>, RSU =<rsu circuit group>, CLIR=<calling line identification restriction>, DCC=<direct charging class>, SSET=<service set handling>, LOC=<location>, LC=<location information>, CRN=<is crn message possible in circuit group>, OAOC=<is charging info only for aoc>, DNN=<default no as nn flag>, RDQ=<received cli display qualifier>, DDQ=<default cli display qualifier>, CLI=<default cli>, IGOR=<incoming circuit group origin>, SCBM=<charge band supported>, SCIE=<charge information during establishment supported>, SCIC=<charge information during conversation supported>, ECAT=<choice of analysis tree>, CAC=<carrier access code>, CA=<carrier access deactivation>, CACI=<international carrier access code>, CAI=<international carrier access deactivation>, REMN=<remnant traffic distribution>, ASTC=<asymmetric through connection>, APRI=<address presentation restricted information transfer not supported>, ACOR=<restricts sending of additional connected number>, RDR=<restricts sending of redirection number>, RNPR=<redirecting number presentation restiction>, RFCL=<restricted facilities>,ICLI=<international default cli>, PLOCK=<preferred interexchange carrier lock>, CHRN=<charge number for the circuit group>, HB=<hot billing>, CCGR=<number of copied circuit group>, ATV=<digital attenuation value>, EOS=<end of selection analysis result group index>;

New syntax:	RCM: NCGR=<circuit group name>, CGR=<circuit group number>: STD=<stored digits>, EC=<external subscriber category>, AREA=<area code>, DBA=<digit before analysis>, PRI=<priority of circuit group>, CORG=<charging origing>, DCA=<detailed charging>, ARF=<arf circuit group>, CX=<centrex circuit group>, CTR=<charging is transferred>, MAN=<missing a numbers>, AAN=<administrational a-subscriber number>, NUCO=<number complate>, TA=<test analysis in circuit group>, ATME=<automatic transmission measuring equipment>, DCME=<digital circuit multiplication equipment>, ECHO=<echo canceller>, RSU =<rsu circuit group>, CLIR=<calling line identification restriction>, DCC=<direct charging class>, SSET=<service set handling>, LOC=<location>, LC=<location information>, CRN=<is crn message possible in circuit group>, OAOC=<is charging info only for aoc>, DNN=<default no as nn flag>, RDQ=<received cli display qualifier>, DDQ=<default cli display qualifier>, CLI=<default cli>, IGOR=<incoming circuit group origin>, SCBM=<charge band supported>, SCIE=<charge information during establishment supported>, SCIC=<charge information during conversation supported>, ECAT=<choice of analysis tree>, CAC=<carrier access code>, CA=<carrier access deactivation>, CACI=<international carrier access code>, CAI=<international carrier access deactivation>, REMN=<remnant traffic distribution>, ASTC=<asymmetric through connection>, APRI=<address presentation restricted information transfer not supported>, ACOR=<restricts sending of additional connected number>, RDR=<restricts sending of redirection number>, RNPR=<redirecting number presentation restiction>, RFCL=<restricted facilities>, ICLI=<international default cli>, PLOCK=<preferred interexchange carrier lock>, CHRN=<charge number for the circuit group>, HB=<hot billing>, CCGR=<number of copied circuit group>, ATV=<digital attenuation value>, EOS=<end of selection analysis result group index>, QACGR=<quasi association>; The command does not work with the old syntax.
Additional information:	Block guide presents only those parameters which are optional/mandatory.
Removed error text(s):	All semantics and execution texts
New error text(s):	*SEMANTIC ERRORS* /*** INVALID DELIMITER ***/ The name given in the parameter contains characters which are not allowed.

/*** TOO MANY CHARACTERS ***/

The given name contains too many characters.

/*** NONEXISTENT CIRCUIT GROUP ***/

The given circuit group not exist in exchange.

/*** CIRCUIT GROUP NOT EXTERNAL ***/

The given circuit group not external.

/*** CIRCUIT GROUP NOT INCOMING OR BIDIRECTIONAL ***/

The given circuit group not incoming or bidirectional.

/*** NONEXISTENT CARRIER ACCESS CODE ***/

The is no such carrier access code.

/*** NONEXISTENT INTERNATIONAL CARRIER ACCESS CODE ***/

The is no such international carrier access code.

/*** CHECKING OF CAC FAILED ***/

An error occured while checking carrier access code.

/*** CHECKING OF CACI FAILED ***/

An error occured while checking international carrier access code.

/*** TOO MANY CIRCUIT GROUP ***/

Defination of maximum (30) circuit groups limit is exceeded.

/*** CIRCUIT GROUP IS XXXXXXXX ***/

In semantics error case, additional error text presents name of faulty circuit group.

EXECUTION ERRORS

/*** CIRCUIT GROUP UPDATING FAILED ***/

Updating of the data of the routing files failed.

/*** FILE DISTRIBUTION AND DISK UPDATE FAILURE ***/

An error has occurred both in file distribution and in disk update.

/*** PARAM CHECKING FAILED ***/

Given parameter values checking not succeed.

Description of execution printout changes:		New parameter <quasi association> (QACGR) has been added to the execution printout. Possible printouts: NEW QUASI ASSOCIATION: YES NEW QUASI ASSOCIATION: NO
Modified command:	N	MODIFY CIRCUIT GROUP
Description of changes:		The new command contains circuit group parameters. (The old RCM command is divided into two: modifying circuit group (RCN) and modifying additional circuit group parameters (RCM)). Parameters <pos> and <hgr> have been replaced by <hm1> and <hm2>. Parameter <hm1> indicates hunting method in the first hunting group. Parameter <hm2> indicates hunting method in the second hunting group. Possible values are LF (longest free), FR (fixed hunting method, start point rotating), FF (fixed hunting method, start point fixed) and SF (shortest time free). Parameter <direc> has been changed to <dir>. New parameter <cgr> has been added. Parameter indicates circuit group number. New CGROUP printouts have been added.
Old syntax:		RCM:<ncgr>: <tree>,<std>,<stdd>,<inr>,<pos>,<hgr>,<scat>,<area>,<dba>,<pri>,<corg>,<cgtu>,<cgtr>,<dca>, <arf>,<cx>>,<ctr>,<man>,<aan>,<nuco>,<ta>,<atme>,<dcme>,<echo>,<rsu>,<clir>,<dcc>,<sset>, <direc>,<loc>,<lc>,<chg>,<oaoc>,<dnn>,<rdq>,<ddq>,<cli>, <icli>,<igor>,<ecat>,<scbm>,<scie>, <scic>,<ecat>,<cac>,<ca>,<caci>,<cai>,<nccp>,<remn>,<astc>,<apri>,<acor>,<rdr>,<rnpr>, <rfcl>,<plock>,<chrn>,<hb>: <act>,<dr1>,<art1>,<dr2>,<art2>,<tres1>,<tres2>,<dr1a>,<art1a>,<dr2a>,<art2a>,<acta>, <dr1b>,<art1b>, <dr2b>,<art2b>,<actb>,<dr1c>,<art1c>,<dr2c>,<art2c>,<actc>: <sp>,<net>,<rej11>,<act11>,<rej12>,<act12>,<rej21>,<act21>,<rej22>,<act22>;

New syntax:	To modify CAS,CCS and PRA circuit groups either NCGR or CGR must be given, but both together is not allowed. 30 circuit groups at once is max. Circuit group parameters are optional to give. Parameters HM1 and HM2 are able to give, if cgr is hunted. Parameter NEWNAME is able to given, if only one circuit group is given. RCN:NCGR=<circuit group name>,CGR=<circuit group number>: LSI=<line signalling>,HM1=<hunting method in first hgr>,HM2=<hunting method in second hgr>, NEWNAME=<new circuit group name>: Block 3, old scr (prfile) feature, optional if cgr is hunted: TRES1=<first reservation threshold>,TRES2=<second reservation threshold>,DR1=<dr traffic,tres1 reached>, ART1=<art traffic, tres1 reached>,DR2=<dr traffic,tres2 reached>,ART2=<art traffic, tres2 reached>,ACT=<control action>: Block 3, new scr (prfile) feature, optional if cgr is hunted: TRES1=<first reservation threshold>,TRES2=<second reservation threshold>,DR1A=<dr traffic,tres1 reached>, ART1A=<art traffic, tres1 reached>,DR2A=<dr traffic,tres2 reached>,ART2A=<art traffic, tres2 reached>,ACTA=<control action>,DR1B=<dr traffic,tres1 reached>, ART1B=<art traffic, tres1 reached>,DR2B=<dr traffic,tres2 reached>,ART2B=<art traffic, tres2 reached>,ACTB=<control action>,DR1C=<dr traffic,tres1 reached>, ART1C=<art traffic, tres1 reached>,DR2C=<dr traffic,tres2 reached>,ART2C=<art traffic, tres2 reached>,ACTC=<control action>; To modify SPE circuit group either NCGR or CGR must be given, but both together is not allowed. 30 circuit groups at once is max. Circuit group parameters are optional. It is possible to give parameters HM1 and HM2, if cgr is hunted. It is possible to give parameter NEWNAME, if only one circuit group is given. RCN:NCGR=<circuit group name>,CGR=<circuit group number>: HM1=<hunting method in first hgr>,HM2=<hunting method in second hgr>, NEWNAME=<new circuit group name>: The command does not work with the old syntax.
Additional information:	Block guide presents only those parameters which are optional/mandatory.
Removed error text(s):	All semantics and execution texts
New error text(s):	*SEMANTICS ERROR TEXTS*

/*** INVALID DELIMITER ***/

The name given in the parameter contains characters which are not allowed.

/*** TOO MANY CHARACTERS ***/

The name for the circuit group contains more than eight characters.

/*** NONEXISTENT CIRCUIT GROUP ***/

The given circuit group does not exist in exchange.

EXECUTION ERROR TEXTS

/*** CIRCUIT GROUP UPDATING FAILED ***/

Circuit group data not updated to disk.

/*** CHANGE IS NOT ALLOWED ***/

Change is not allowed.

/*** FILE DISTRIBUTION AND DISK UPDATE FAILURE ***/

An error has occurred both in file distribution and in disk update.

/*** CIRCUIT STATE CHANGE NOT POSSIBLE ***/

The circuit is in an incorrect working state. For example the state transition from state NU-US to WO-EX can not be made directly.

/*** INVALID PARAMETER ***/

A parameter is recognised as invalid by an individual process.

/*** PARAM CHECKING FAILED ***/

The checking of the given parameter values did not succeed.

/*** SWITCHING DATA UPDATE FAILED ***/

Switching data update failed.

/*** HUNTING METHOD CHANGE IS NOT ALLOWED ***/

Changing the hunting method of the circuit group is not allowed.

Modified command:	R	REMOVE CIRCUITS FROM CIRCUIT GROUP
Description of changes:		New command for circuit removing. (The old RCD command is divided into two: removing circuits (RCR) and deleting (RCD) commands.) Parameter <switch> has been changed. New name is <ssw>, the default of which is 80 (group switch). Possible values range from 0 to 9 (subscriber stage switch number). New CGROUP printouts have been added.
Old syntax:		RCD:<switch>:<ncgr>:<crct>; RCD:<switch>:<ncgr>:<etpcm>,<crct>; RCD:<switch>:<ncgr>:<bcrct>;
New syntax:		To delete circuit(s) from circuit group either NCGR or CGR must be given, but both together are not allowed. RCR:NCGR=<circuit group name>,CGR=<circuit group number>:CRCT=<circuits>; RCR:NCGR=<circuit group name>,CGR=<circuit group number>:ETPCM=<etpcm>,CRCT=<circuits>; RCR:NCGR=<circuit group name>,CGR=<circuit group number>:BCRCT=<bit based circuits>; The command does not work with the old syntax.
Additional information:		Block guide presents those only parameters which are optional/mandatory.
Removed error text(s):		All semantics and execution texts
New error text(s):		*SEMANTIC ERRORS* /*** INVALID DELIMITER ***/ The name given in the parameter contains characters which are not allowed. /*** TOO MANY CHARACTERS ***/ The name for the circuit group contains more than eight characters. /*** NONEXISTENT CIRCUIT GROUP ***/ The given circuit group does not exist in the exchange. *EXECUTION ERRORS* /*** CIRCUIT GROUP DELETION FAILED ***/ Deletion of the internal circuit group failed.

/*** CIRCUIT NOT FREE ***/

The circuit is already connected through the switch.

/*** CIRCUIT NOT IN CIRCUIT GROUP ***/

The circuit does not belong to the given circuit group.

/*** CIRCUIT COUNTERS ON ***/

Circuit(s) in circuit group have counters on.

/*** CIRCUIT GIVEN MORE THAN ONCE (2) ***/

The same circuit is given more than once.

/*** FILE DISTRIBUTION AND DISK UPDATE FAILURE ***/

An error has occurred both in file distribution and in disk update.

/*** CIRCUIT STATE CHANGE NOT POSSIBLE ***/

The circuit is in an incorrect working state. For example the state transition from state NU-US to WO-EX can not be made directly.

/*** PARAM CHECKING FAILED ***/

The checking of the given parameter values does not succeed.

/*** SWITCHING DATA UPDATE FAILED ***/

Switching data update failed.

3.51 (RR) ROUTES - Route Handling

Modified command:	A	ADD CIRCUIT GROUP
Description of changes:		A new optional parameter IP application (IP) has been added. All values of this parameter are optional. This parameter can be given by both internal and external route.
Old syntax:		RRM: ROUTE=<internal or external route>, ...;
New syntax:		RRM :ROUTE=<internal or external route>, IP=<IP application>, ...; The command still works with the old syntax.

Modified command:	C	CREATE ROUTE
Description of changes:		New values POR and CON have been added to the parameter TON. These values can be given only in MSC.
Old semantics:		Possible values of TON in a basic case: INT, NAT, SUB, NET, ABB, UNK and NOE Possible values of TON if feature multioperator is active: CACI, CACN, CACU, INT, NAT, SUB, NET, ABB, UNK and NOE Possible values of TON if feature equal access is active: INT, NAT, SUB, NET, ABB, UNK, NOE, INTOP, NATOP, SUBOP and OP Possible values of TON if both multioperator and equal access features are active: CACI, CACN, CACU, INT, NAT, SUB, NET, ABB, UNK, NOE, INTOP, NATOP, SUBOP and OP
New semantics:		Possible values of TON in a basic case: INT, NAT, SUB, NET, ABB, UNK, CON, POR and NOE Possible values of TON if feature multioperator is active: CACI, CACN, CACU, INT, NAT, SUB, NET, ABB, UNK, CON, POR and NOE Possible values of TON if feature equal access is active: INT, NAT, SUB, NET, ABB, UNK, CON, POR, NOE, INTOP, NATOP, SUBOP and OP Possible values of TON if both multioperator and equal access features are active: CACI, CACN, CACU, INT, NAT, SUB, NET, ABB, UNK, CON, POR, NOE, INTOP, NATOP, SUBOP and OP The command entry continues in the same way as before after a semantic error.

Modified command:	I	INTERROGATE ROUTE
Description of execution printout changes:		The parameter FCL can now get the following new values: UUS1I, UUS1E, UUS2, UUS3 when requesting route information.

Modified command:	M	MODIFY ROUTE
Description of changes:		New values POR and CON have been added to the parameter TON. These values can be given only in MSC. New optional values CCNR, UUS1I, UUS1E, UUS2 and UUS3 have been added for parameter FCL. Parameters ATME, DCME, TMT, ICR, RCR, MCR, OCR and RPR are now optional.
Old semantics:		Possible values of TON in a basic case: INT, NAT, SUB, NET, ABB, UNK and NOE Possible values of TON if feature multioperator is active: CACI, CACN, CACU, INT, NAT, SUB, NET, ABB, UNK and NOE Possible values of FCL: CUG, CCBS, NEED and QSIG.
New semantics:		Possible values of TON in a basic case: INT, NAT, SUB, NET, ABB, UNK, CON, POR and NOE Possible values of TON if feature multioperator is active: CACI, CACN, CACU, INT, NAT, SUB, NET, ABB, UNK, CON, POR and NOE Possible values of FCL: CUG, CCBS, NEED, QSIG, CCNR, UUS1I, UUS1E, UUS2 and UUS3 The command entry continues in the same way as before after a semantic error.

3.52 (TP) HSMMML - GSM Measurement Handling

Deleted Command(s) and menu text(s):	A	ADD COUNTER(S) TO SELECTION SET (no longer supported in S10 release)
	L	INTERROGATE COUNTERS OF SELECTION SET (no longer supported in S10 release)
	T	REMOVE COUNTER(S) FROM SELECTION SET (no longer supported in S10 release)

Modified command:	M	MODIFY GSM MEASUREMENT CHARACTERISTICS
Description of changes:		1. The SET parameter has been removed from the third block. 2. New optional parameters <CL1>, <CL2>, <CL3>, <CL4>, <CL5>, <CL6>, <CL7> and <WIN> are introduced with the new Frame Erasure Rate measurement. These class values and window size are related only to FER so other measurements remain unchanged. 3. The new observation type PBS_OBS has the obligatory measurement parameter LC (location area code and cell identification). BTS, TRX and TSL information is not used and therefore cannot be given. New possible values for the parameter <measurement type> have been added in the measurement groups MEASUR and OBSERV. The following error texts are used for errors detected in the use of the optional parameters <CL1>, <CL2>, <CL3>, <CL4>, <CL5>, <CL6>, <CL7> and <WIN> in the new Frame Erasure Rate measurement. These errors are caused by incorrect modification of the measurement with the ZTPM command.
Old syntax:		1. ZTPM:MEASUR,<measurement type>:<measurement day>,<measurement interval>,<output interval>:<SET=(ON | OFF)> ...; Example: ZTPM:MEASUR,TRAFFIC:ALL,0-0-24-0,15:SET=OFF; 2. ZTPM:MEASUR,<measurement type>:<measurement day>,measurement interval>,<output interval> ...; 3. ZTPM:OBSERV,<measurement type>:<measurement day>,<measurement interval>,<output interval>:<(bts id=xx | bts name=name) >,<trx id=yy>,[<tsl=zz>] ... ;

New syntax:	1. ZTPM:MEASUR,<measurement type>:<measurement day>,<measurement interval>,<output interval> ...; 2. ZTPM:MEASUR,FER:<measurement day>,measurement interval>,<output interval>:<CL1=xx>,<CL2=yy>,<CL3=zz>,<CL4=aa>,<CL5=bb>,<CL6=cc>,<CL7=dd>,<WIN=ee>; The range of the values xx, yy, zz, aa, bb, cc, dd is 1 ... 255 and yy must be greater than xx, zz must be greater than yy and so on. The range of ee is 1 ... 32. When the measurement is modified for the first time and no class and win values are given, default values are used. The default values are: CL1=20, CL2=40, CL3=60, CL4=80, CL5=100, CL6=120, CL7=140, WIN=2. The measurement unit for the classes is 0.1%. 3. ZTPM:OBSERV,PBS_OBS:<measurement day>,measurement interval>,<output interval>:<LC=xx> ... ; Example: ZTPM:OBSERV,PBS_OBS:ALL,0-0-24-0,15:LC=115; The values for LAC and CI range from 0 ... 65535. The command does not work with the old syntax.
Old semantics:	ZTPM:MEASUR,<measurement type>: ... Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" ZTPM:OBSERV,<measurement type>: ... Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS"

New semantics:	ZTPM:MEASUR,<measurement type>: ... Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" "DAC" "DYNAMIC_ABIS" "FER" "PBS" "C_SCHEME" "REV_HUNT" "QOS" "PBCCH" "NBL_OFFSET" ZTPM:OBSERV,<measurement type>: ... Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS" "PBS_OBS" The command entry continues in the same way as before after a semantic error.
Additional information:	The same modifications have also been made to the ZTPI, ZTPS and ZTPE commands.
New error text(s):	If one or more class values are illegal. Example 1: ZTPM:MEASUR,FER:TUE,08-00-18-00,30:CL1=256 Example 2: ZTPM:MEASUR,FER:THU,08-00-20-00,30:CL2=100,CL3=100 /*** SEMANTIC ERROR ***/ /*** ILLEGAL FER CLASS VALUE ***/ If win value is illegal. Example 1: ZTPM:MEASUR,FER:SUN,08-00-23-00,30:WIN=0 Example 2: ZTPM:MEASUR,FER:SUN,08-00-23-00,30:WIN=33 /*** SEMANTIC ERROR ***/ /*** ILLEGAL AVERAGING WINDOW VALUE ***/

Description of execution printout changes:

1. A new execution printout is introduced with the new Frame Erasure Rate measurement. This printout shows the values of the optional parameters <CL1>, <CL2>, <CL3>, <CL4>, <CL5>, <CL6>, <CL7> and <WIN> after the measurement has been modified with the ZTPM command.

Example 1:

ZTPM:MEASUR,FER:MON,8-0-16-0,30:CL1=10,CL2=30,CL3=50,CL4=70,CL5=90,CL6=110,CL7=130,WIN=30;

New execution printout:

EXECUTION STARTED

GSM MEASUREMENT MODIFIED

TYPE: FER

FER CLASS 1 (UNIT IS 0.1%): 10

FER CLASS 2 (UNIT IS 0.1%): 30

FER CLASS 3 (UNIT IS 0.1%): 50

FER CLASS 4 (UNIT IS 0.1%): 70

FER CLASS 5 (UNIT IS 0.1%): 90

FER CLASS 6 (UNIT IS 0.1%): 110

FER CLASS 7 (UNIT IS 0.1%): 130

AVERAGING WINDOW SIZE : 30

MEASUREMENT INTERVAL:

MON 08:00-16:00

OUTPUT INTERVAL: 00:30

COMMAND EXECUTED

2. A new execution printout is introduced with the new Position Based Service observation. This printout shows the values of the parameter LC after the observation has been modified with the ZTPM command.

Example 1:

ZTPM:OBSERV,PBS_OBS:MON,8-0-16-0,30:LC=00332-00105;

New execution printout:

EXECUTION STARTED

GSM MEASUREMENT MODIFIED

TYPE: PBS_OBS

OBSERVATION PARAMETER:

LAC-CI: 332- 105 MEASUREMENT INTERVAL:

MON 08:00-16:00

OUTPUT INTERVAL: 00:30

COMMAND EXECUTED

Modified command:	I	INTERROGATE GSM MEASUREMENT
Description of changes:		New possible values for the parameter <measurement type> have been added in the measurement groups MEASUR and OBSERV.
Old semantics:		ZTPI:MEASUR,<measurement type>; Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" ZTPI:OBSERV,<measurement type>; Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS"
New semantics:		ZTPI:MEASUR,<measurement type>; Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" "DAC" "DYNAMIC_ABIS" "FER" "PBS" "C_SCHEME" "REV_HUNT" "QOS" "PBCCH" "NBL_OFFSET" ZTPI:OBSERV,<measurement type>; Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS" "PBS_OBS" The command entry continues in the same way as before after a semantic error.
Additional information:		The same modifications have also been made to the ZTPMI, ZTPS and ZTPE commands.

Description of execution printout changes:

1. The SET USAGE parameter has been removed.

Example 1:

ZTPI:MEASUR,TRAFFIC;

Old execution printout:

DX 200 MUAMMAD 2001-01-16 16:26:10
TYPE: TRAFFIC
LAST MODIFIED: 2001-01-12 14:31:56
ADMIN. STATE: LOCKED
OPER. STATE: DISABLED
SET USAGE: INACTIVE
MEASUREMENT INTERVAL:
MON 00:00-16:00
START DATE: 2001-01-12
OUTPUT INTERVAL: 00:15
COMMAND EXECUTED

New execution printout: DX 200 DX220-LAB
2000-12-13 16:50:25
TYPE: TRAFFIC
LAST MODIFIED: 2000-12-13 16:03:57
ADMIN. STATE: LOCKED
OPER. STATE: DISABLED
MEASUREMENT INTERVAL:
MON 00:00-16:00
START DATE: 2000-12-13
OUTPUT INTERVAL: 00:30
COMMAND EXECUTED.

2. A new execution printout is introduced with the new Frame Erasure Rate measurement. This printout shows the values of the optional parameters <CL1>, <CL2>, <CL3>, <CL4>, <CL5>, <CL6>, <CL7> and <WIN> given with the ZTPM command.

Example 1: ZTPI:MEASUR,FER;

New execution printout:

```
DX 200    DX220-LAB              2000-12-19  10:35:14
TYPE:               FER
FER CLASS 1 (UNIT IS 0.1%):  20
FER CLASS 2 (UNIT IS 0.1%):  40
FER CLASS 3 (UNIT IS 0.1%):  60
FER CLASS 4 (UNIT IS 0.1%):  80
FER CLASS 5 (UNIT IS 0.1%): 100
FER CLASS 6 (UNIT IS 0.1%): 120
FER CLASS 7 (UNIT IS 0.1%): 140
 AVERAGING WINDOW SIZE  :  2
LAST MODIFIED:        2000-12-10    09:01:00
ADMIN. STATE:
MEASUREMENT INTERVAL:
              MON   08:00-16:00
START DATE:
OUTPUT INTERVAL:      00:30
COMMAND EXECUTED
```

3. A new execution printout is introduced with the new Position Based Observation measurement. This printout shows the values of the LC parameter given with the ZTPM command.

Example 1: ZTPI:OBSERV,PBS_OBS;

New execution printout:

```
DX 200    DX220-LAB              2000-12-19  10:42:44
TYPE:               PBS_OBS
OBSERVATION PARAMETER:
         LAC-CI:              332-  105
LAST MODIFIED:        2000-12-10    09:01:00
 ADMIN. STATE:
MEASUREMENT INTERVAL:
              MON   08:00-16:00
START DATE:
OUTPUT INTERVAL:      00:30
```

Modified command:	S	START GSM MEASUREMENT
Description of changes:		New possible values for the parameter <measurement type> have been added in the measurement groups MEASUR and OBSERV.
Old semantics:		ZTPS:MEASUR,<measurement type>: ... Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" ZTPS:OBSERV,<measurement type>: ... Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS"
New semantics:		ZTPS:MEASUR,<measurement type>: ... Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" "DAC" "DYNAMIC_ABIS" "FER" "PBS" "C_SCHEME" "REV_HUNT" "QOS" "PBCCH" "NBL_OFFSET" ZTPS:OBSERV,<measurement type>: ... Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS" "PBS_OBS" The command entry continues in the same way as before after a semantic error.
Additional information:		The same modifications have also been made to the ZTPM, ZTPI and ZTPE commands.

Modified command:	E	STOP GSM MEASUREMENT
Description of changes:		New possible values for the parameter <measurement type> have been added in the measurement groups MEASUR and OBSERV.
Old semantics:		ZTPE:MEASUR,<measurement type>: ... Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" ZTPE:OBSERV,<measurement type>: ... Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS"
New semantics:		ZTPE:MEASUR,<measurement type>: ... Values for <measurement type>: "TRAFFIC" "RES_AVAIL" "CCCH_ACC" "HO" "POWER" "LOAD" "AVAIL" "OSI" "UNDEF_ADJ" "RXQUAL" "HOADJ" "BSC_CC" "CC_PM" "UNDERL" "RXLEVEL" "LINKBAL" "TIMING_ADV" "AVAIL_BSC" "CC_SERLEV" "MSSPEED" "DUAL" "C/I_RATIO" "HOTSPOT" "HIGH_SPEED" "CHAN_FIN" "MS_CAP" "PCU" "RLC_BLOCKS" "FR" "DAC" "DYNAMIC_ABIS" "FER" "PBS" "C_SCHEME" "REV_HUNT" "QOS" "PBCCH" "NBL_OFFSET" ZTPE:OBSERV,<measurement type>: ... Values for <measurement type>: "SDCCH_OBS" "TCH_OBS" "INT_HO_OBS" "INC_HO_OBS" "OUT_HO_OBS" "CC_OBS" "ISDN_ABIS" "DC_OBS" "PBS_OBS" The command entry continues in the same way as before after a semantic error.
Additional information:		The same modifications have also been made to the ZTPM, ZTPI and ZTPS commands.

3.53 (TV) DXCMML - BSC Counter Inquiry

Modified command:	S	SHOW DESCRIPTION OF THE COUNTERS
Description of changes:		There is a new allowed counter range due to the added S10-related counter descriptions.
Old semantics:		ZTVS:<counter number>...; Allowed values for the counter number: 300...374, 400...408, 500...524, 600...639, 700...714, 800...829, 900...944, 51000...51150, 57000...57038
New semantics:		ZTVS:<counter number>...; New allowed values for the counter number: 300...374, 400...408, 500...524, 600...639, 700...715, 800...829, 900...944, 51000...51150, 57000...57038 The command entry continues in the same way as before after a semantic error.

3.54 (UB) TRTHAN - Single Radio Network Test Handling

Modified command:	K	HANDLE ABIS LOOP TEST
Description of changes:		The new optional parameters select Abis connection (SEL), Abis time slot (ATSL) and sub time slot (STSL) have been added. These parameters are shown if the option DYN_ABIS_IN_USE is on. The possible values of the parameter SEL are 0 and 1. The default value is 0. The values of the parameter ATSL range from 0 to 31. The values of the parameter STSL range from 0 to 3 and the default value is ALL. The default and maximum values of the parameter looping time have been changed so that they depend on the selected Abis connection, which can be selected if the option DYN_ABIS_IN_USE is on. New semantic error texts have been added referring to the Abis loop test with a dynamic Abis connection.

Old syntax:	UBK: <OPERATION>: (BTS = <BTS number> | NAME= <BTS name>) , [TRX = <TRX number> | ALL def] : [<radio time slot> | ALL def] : [<looping time> | <5 seconds> def];
New syntax:	UBK: <OPERATION>: (BTS = <BTS number> | NAME= <BTS name>) , [TRX = <TRX number> | ALL def] : [<radio time slot> | ALL def] : [[SEL = <select Abis connection> <option> | 0 def]: [ATSL = <Abis time slot> <option>], [STSL = <sub time slot> <option> | ALL def]] ... : [<looping time> | def = <5 seconds> in FIXED test, <3 seconds> in DYNAMIC test]; The command still works with the old syntax.
Additional information:	If two or more radio time slots are given, the parameters SEL, ATSL and STSL are not shown, because in that case it' s impossible to test at the Dynamic Abis pool. The default value of the looping time parameter depends on the value given to the parameter SEL. The default looping time is 5 seconds if SEL = 0 (FIXED) and 3 seconds if SEL=1 (DYNAMIC).
Old semantics:	<looping time> values: 00-00-00-100 ... 24-00-00-000 default value is 00-00-05-000 (5 seconds)
New semantics:	<looping time> values, if selected Abis connection is FIXED: 00-00-00-100 ... 24-00-00-000 default value is 00-00-05-000 (5 seconds) <looping time> values, if selected Abis connection is DYNAMIC: 00-00-00-100 ... 00-00-03-000 default value is 00-00-03-000 (3 seconds) The command entry continues in the same way as before after a semantic error.
New error text(s):	/*** ONLY ONE TRX CAN BE GIVEN WHEN DYNAMIC ABIS POOL IS TESTED ***/ /*** TRX IS NOT CONNECTED TO ANY DYNAMIC ABIS POOL ***/ /*** DX ERROR: 14894 ***/ /*** DYNAMIC ABIS POOL WAS NOT FOUND IN RNW DATABASE ***/ /*** ATSL IS NOT IN THE DYNAMIC ABIS POOL OF THE TRX ***/

Modified command:	L	LIST ACTIVE ABIS LOOP TESTS
Description of execution print-out changes:		If the option DYN_ABIS_IN_USE is on, ABIS_TSL and SUB_TSL are added to the execution printout for the command UBL.

3.55 (UC) JSCHAN - Scheduled Radio Network Test Handling

Modified command:	V	HANDLE THRESHOLD PARAMETERS
Description of changes:		The parameter threshold of standing-wave ratio (SWR) has been removed from the parameter list, if the selected test type is TRP.

Old syntax:	UCV : [<test type> | RS def] , [<operation> | CURRENT def], [[(1) CSENS = <threshold of calculated RX sensitivity> | MSENS = <threshold of measured RX sensitivity> | BER = <threshold of BER> | RBER2 = <threshold of RBER2>] ... [(2) BER = <threshold of BER> | RBER2 = <threshold of RBER2> | CURES = <threshold status of CU result handling> | LNA = <threshold status of LNA path result handling > | STMRFTE = <threshold status of STM/RFTE result handling >] ... [(3) BER = <threshold of BER> | RBER2 = <threshold of RBER2> | FER = <threshold of FER> | RXQUAL = <threshold of RX quality>] ... [(4) SWR = <threshold of SWR> | PWR = <threshold of transmitted power> | BER = <threshold of BER> | MSENS = <threshold of RX sensitivity>] ... [(5) BER = <threshold of BER> | RBER2 = <threshold of RBER2> | FER = <threshold of FER> | RXQUAL = <threshold of RX quality> | SWR = <threshold of SWR>] ... [(6) STAGE = <stage codes>... | CAUSE = <cause codes>... | RRCAUSE = <RR cause codes>... | REJCAUSE = <reject cause codes>...] ...: <threshold status of test call codes>]];
New syntax:	UCV : [<test type> | RS def] , [<operation> | CURRENT def], [[(1) CSENS = <threshold of calculated RX sensitivity> | MSENS = <threshold of measured RX sensitivity> | BER = <threshold of BER> | RBER2 = <threshold of RBER2>] ... [(2) BER = <threshold of BER> | RBER2 = <threshold of RBER2> | CURES = <threshold status of CU result handling> | LNA = <threshold status of LNA path result handling > | STMRFTE = <threshold status of STM/RFTE result handling >] ... [(3) BER = <threshold of BER> | RBER2 = <threshold of RBER2> | FER = <threshold of FER> | RXQUAL = <threshold of RX quality>] ... [(4) PWR = <threshold of transmitted power> | BER = <threshold of BER> | MSENS = <threshold of RX sensitivity>] ... [(5) BER = <threshold of BER> | RBER2 = <threshold of RBER2> | FER = <threshold of FER> | RXQUAL = <threshold of RX quality> | SWR = <threshold of SWR>] ... [(6) STAGE = <stage codes>... | CAUSE = <cause codes>... | RRCAUSE = <RR cause codes>... | REJCAUSE = <reject cause codes>...] ...: <threshold status of test call codes>]]; The command still works with the old syntax.

Description of execution print-out changes:	The parameter threshold of standing-wave ratio (SWR) has been removed from the execution printout for the command UBV, if the selected test type is TRX performance test (TRP).

3.56 (US) RCVHAN - Working State And Restart Handling

Modified command:	C	CHANGE UNIT STATE

Description of execution printout changes:

The checking of time slots used by applications has been added to the execution printout text and the new error code 15163 has been added.

During the ET (exchange terminal) switching from WOEX to SENH (or BL) with the MML command ZUSC, the MML program outputs the number of time slots used by applications (for example configuration contains Frame Relay bearer channels, but no signalling links), the name of the program block that answered, and the computer. It also outputs the error code and text returned by the program block and request a confirmation for the command execution in the following manner:

```
NUMBER OF TIME SLOT(S) USED BY APPLICATIONS: <link count>
/*** OBSERVED BY PROGRAM BLOCK: <family>, <hex> in <unit> ***/
/*** DX ERROR: <error code> ***/
/*** <error text> ***/
CONFIRM COMMAND EXECUTION (Y/N) ?
```

The error text describes the purpose of the time slots.

Modified command:	I	INTERROGATE UNIT STATE
Description of execution printout changes:		The header of USI-printout changes a little bit: MB (message bus address) is replaced by PHYS (phycical address). MB is shown by two characters and PHYS by four characters (the physical address of interface computers also uses the highest bits of computer_t). This means that all fields in the printout after PHYS move two characters to the right and the last unit, status information, will be dropped off (after this change only six statuses can be shown at a time). For the interface computers (unit_class_t_ext_cmp_c) RCVHAN shows the host unit information in the "location"-field.
Modified command:	L	LIST UNITS IN SPECIFIED STATE OR INFO
Description of execution printout changes:		The header of the USL-printout changes a little bit: MB (message bus address) is replaced by PHYS (phycical address). MB is shown by two characters and PHYS by four characters (the physical address of interface computers also uses the highest bits of computer_t). This means that all fields in the printout after PHYS move two characters to the right and the last unit, status information, will be dropped off (after this change only six statuses can be shown at a time). For the interface computers (unit_class_t_ext_cmp_c) RCVHAN shows the host unit information in the "location"-field.

Modified command:	S	RESTART SYSTEM
Description of changes:		A new name-defined parameter has been added to "code load mode, reset type..."-block: restart width of host computers (W). With this parameter it is possible to decide whether to restart interface computer units belonging to/ controlled by the host when the host is restarted. Possible values for W-parameter are RIFU and NORIFU. Default is NORIFU.
Old syntax:		USS:[SYM]:[R=<reset type>,C=<code load mode>,F=<file load mode>]...;
New syntax:		USS:[SYM]:[R=<reset type>,C=<code load mode>,F=<file load mode>,W=<restart width of host computers>]...; The command still works with the old syntax.

Modified command:	U	RESTART UNIT
Description of changes:		A new name-defined parameter has been added to "code load mode, reset type..."-block: restart width of host computer (W). With this parameter it is possible to decide whether to restart interface computer units belonging to/controlled by host when host is restarted. Possible values for W-parameter are RIFU and NORIFU. Default is NORIFU.
Old syntax:		USU:<unit identification>:[R=<reset type>,C=<code load mode>,F=<file load mode>]...:[restart control];
New syntax:		USU:<unit identification>:[R=<reset type>,C=<code load mode>,F=<file load mode>,W=<restart width of host computer>]..:[restart control]; The command still works with the old syntax.

3.57 (WG) TCKONF - Transcoder Configuration

Modified command:	C	CREATE TRANSCODER PCM
Description of changes:		The possible values of the parameter tc_pcm type (TYPE) have changed. The only allowed values are NS (not smuxed) and NU (not used, in ANSI only). The TC_PCM pool type is identified with a new POOL-parameter. The new name-defined parameter tc_pcm pool type (POOL) has been added to the second parameter block. The parameter indicates the pool type of the TC_PCM to be created. The possible values are decimal numbers. The parameter is optional, the default value is 1 (FR). The TYPE parameter is still used to create NS (not smuxed) and NU (not used, in ANSI only) type TC_PCMs.
Old semantics:		The TC_PCM pool type is always identified with the parameter TYPE.
New semantics:		The TC_PCM pool type is identified with the parameter POOL, which has a decimal numeral as the parameter. Only the TC_PCM types NS and NU (in ANSI only) are identified with the TYPE-parameter. The command entry continues in the same way as before after a semantic error.
Old syntax:		WGC: <highway pcm number>, <tc_pcm number (option)>: TYPE = <tc_pcm type (option)>: <controlling unit type>, <controlling unit index>;
New syntax:		WGC: <highway pcm number>, <tc_pcm number (option)>: POOL = <tc_pcm pool type (option)>, TYPE = <tc_pcm type (option)>: <controlling unit type>, <controlling unit index>; The command still works with the old syntax.
Description of execution printout changes:		The TC_PCM pool number is added to the execution printout.
Modified command:	D	DELETE TRANSCODER PCM
Description of execution printout changes:		The TC_PCM pool number is added to the execution printout.

Modified command:	M	MODIFY TRANSCODER PCM
Description of changes:		The new name-defined parameter new tc_pcm pool type (POOL) has been added to the second parameter block. The parameter indicates the pool type of the TC_PCM to be modified. The possible values are decimal numbers. The POOL parameter is obligatory. The new tc_pcm type (TYPE) parameter is removed from the WGM command. The new parameters target circuit group number (CGR) and target circuit group name (NCGR) have been added to the third parameter block. These parameters are used to identify the target circuit group to which the traffic circuits of the modified TC_PCM will be transferred. CGR identifies the target circuit group number and NCGR identifies the target circuit group name. The parameters CGR and NCGR are optional, and only one of them may be specified at a time. If neither of them is specified, the TC_PCM modification is performed without circuit transfer (in this case traffic circuits may not exists in the circuit groups).
Old syntax:		WGM: <highway pcm number>, <tc_pcm number> : TYPE = <new tc_pcm type> ;
New syntax:		WGM: <highway pcm number>, <tc_pcm number> : POOL = <new tc_pcm pool type> : CGR = <target circuit group number (option)>, NCGR = <target circuit group name (option)> ; The command still works with the old syntax.
Description of execution printout changes:		The TC_PCM pool number is added to the execution printout.
Modified command:	O	OUTPUT TRANSCODER PCM INFORMATION
Description of execution printout changes:		The TC_PCM pool number is added to the execution printout.

3.58 (WK) ENSURE - Software Package Fallback Handling

Modified command:	P	DISPLAY FALLBACK LOGFILE
Description of execution printout changes:		Added SUBDIRE field in execution print out:

```
FILE:
      NAME           VER(W0)  VER(W1)   DIRE              SUBDIRE           UNIT

      MAFILEGX.IMG   01       01        BLCODE                              OMU
      ELSPARGX.IMG   01       01        LFILES                              OMU
```

3.59 (WO) PRHAND - Parameter Handling

Additional information:		The function of PRHAND is totally new. If FIFILE is included in the network element then PRHAND is required.
New command(s) and menu text(s):	S	OUTPUT FEATURES ACTIVATION STATUS
	A	ACTIVATE/DEACTIVATE OPTIONAL FEATURE
	I	INTERROGATE PARAMETER VALUE
	C	CHANGE PARAMETER VALUE

3.60 (WQ) SOFHAN - Software Package Management

Modified command:	D	DELETE SOFTWARE PACKAGE
Description of execution printout changes:		In the execution printout, DISKS has been replaced with DISK(S).

Modified command:	L	LIST SOFTWARE PACKAGE CONTENTS
Description of changes:		Possible values of the parameter TYPE have been changed. Previous possible values DATA and CODE have been replaced with values: C (FILE HAS CHANGEABLE DATA) and N (FILE HAS NON-CHANGEABLE DATA) . Also, new possible values for parameter SDIR (sub directory) have been added. New values are: WEBFIL, WEBFIL/APPS, WEBFIL/ICONS, WEBFIL/CGI, WEBFIL/HTDOCS, WEBFIL/GRAPHICS and WEBFIL/SCRIPT.
Old semantics:		Old values of parameter TYPE: CODE and DATA. Old values of parameter SDIR: BLCODE, LFILES, MMDIRE and CONVPR.
New semantics:		New values of parameter TYPE: C (file has changeable data) and N (file has non- changeable data). New values of parameter SDIR: BLCODE, LFILES, MMDIRE, CONVPR, WEBFIL, WEBFIL/APPS, WEBFIL/CGI, WEBFIL/HTDOCS, WEBFIL/SCRIPT, WEBFIL/ICONS and WEBFIL/GRAPHICS. The command entry continues in the same way as before after a semantic error.
Description of execution printout changes:		New possible subdirectory names in execution printout have been added. New subdirectory values are: WEBFIL, WEBFIL/APPS, WEBFIL/CGI, WEBFIL/HTDOCS, WEBFIL/SCRIPT WEBFIL/ICONS and WEBFIL/GRAPHICS. Added new possible values for TYP field. Field can have value N (= non changeable) or C (= changeable) .

3.61 (WT) EQADMI - Equipment Management

Modified command:	F	CREATE FUNCTION
Description of changes:		When adding a new plug-in unit function to the equipment database of some other functional unit than ET, the existence of the ET functional unit with the same index as the given PCM number is checked.

New semantics:		If the ET functional unit with the same index as the given PCM number is found from the network element, the following warning message is printed out and confirmation from the user is asked.

```
/*** GIVEN PCM NUMBER IS EQUIVALENT TO  ***/
/*** THE INDEX OF AN EXISTING ET UNIT   ***/


CONFIRM COMMAND EXECUTION: Y/N ?
```

The command entry continues in the same way as before after a semantic error.

Modified command:	L	LIST EQUIPMENT IN CSV-FORMAT
Description of execution printout changes:		MASGR-index is added to WTL-command output. MASGR-index is printed on field 7 on the FRAME row of mass memory device cartridge.
Modified command:	J	CREATE RACK OR CABINET
Description of changes:		Added the PDFU parameter to creation of ic209_a cabinets. PDFU value may be 2 or 4, default is 2.
Old syntax:		ZWTJ:IPE,1A,:AL=1A1-1-1;
New syntax:		ZWTJ:IPE,1A,:PDFU=4,AL=1A1-1-1; The command still works with the old syntax.
Modified command:	P	CREATE PLUG-IN UNIT
Description of changes:		When adding a new plug-in unit with function to the equipment database of some other functional unit than ET, the existence of the ET functional unit with the same index as the given PCM number is checked.
Old semantics:		None.

New semantics:	If the ET functional unit with the same index as the given PCM number is found from the network element, the following warning message is printed out and confirmation from the user is asked.

```
/*** GIVEN PCM NUMBER IS EQUIVALENT TO  ***/
/*** THE INDEX OF AN EXISTING ET UNIT   ***/


CONFIRM COMMAND EXECUTION: Y/N ?
```

The command entry continues in the same way as before after a semantic error.

4 REMOVED MML PROGRAMS

4.1 (DQ) BIGMAC - Configuration Set Handling

Reason for removal:	Removal of the feature 30092 "Configuration management for process families"

4.2 (QJ) YUMYUM- TCP/IP Application Data Handling

Reason for removal:	The MML is obsolete. A new version of (QR) YOOHOO MML replaces this MML.