



A MITEL
PRODUCT
GUIDE

MiVoice MX-ONE

Commands in MX-ONE Service Node Command Description

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This is a survey of all the Operation and Maintenance commands in MX-ONE, both Linux/Unix- and MML-related.

The commands are entered in an mdsh shell, which is the shell and command interpreter for MX-ONE. Mdsh can be a login shell or started from another shell (for example, a standard Unix shell).

There are three fundamentally different types of commands in mdsh:

- **Built-in commands**

These commands are an integrated part of mdsh and executed by mdsh itself. An example of such a command is "cd". Help on these commands is available by typing "help <command>" in mdsh.

- **MML commands**

These commands are different in syntax from normal Linux commands. No help for these commands can be retrieved in mdsh. See the command description for respective command group. For more information on using MML commands, see chapter *;Telephony Service Commands (MML) for mdsh on page 15*.

- **Linux commands**

These commands are separate executable files in the Linux environment, outside of mdsh. The Linux commands can be divided in three groups

- Standard Linux commands and tools like "less". These commands and tools are not specific for the MX-ONE Service Node. They work just as they work on any Linux computer. Help on these commands is usually available by typing "man <command>".

- MX-ONE Service Node commands based on the MD_COM framework. Examples of commands based on the MD_COM framework are "alarm" and "extension". MD-shell interacts with the MD_COM framework, and tab-completion is available also for the command line switches. Help on these commands is available by typing "<command> -?" (or "<command> --help").

- Old MX-ONE Service Node commands (not based on the MD_COM framework). Examples of old commands are "trace" and "number_initiate". (These old commands will probably be rewritten into new commands based on the MD_COM framework in future releases.) Help on these commands is available by typing "<command> -help"

Command **help**, without parameters, can be used to list all command names.

Authority Levels

2

Service, operation, and maintenance require different authorities for the commands. Each command belongs to an authority level (0-7 below). Seven is the highest authority level, and zero is the lowest.

A higher level has authority over all lower levels.

The default authority levels indicated in this document are set based on the personnel categories in the list below.

Level	Activity, examples	Personnel category
0	Prints in general, but some exceptions exist.	All.
1	Handling of Call Origin Groups for attendants. Change of active Personal Number list or individual call diversion data.	Chief attendant and ACD supervisor.
2	Handling of extension or group data.	Administrative personnel at a customer, handling extension or user data.
3	Handling of traffic matrix. Number analysis data handling. Creating common categories. Handling certain route data, such as ROEQI.	Administrative personnel at a customer, handling system data.
4	Handling of hardware or route data.	Service personnel.
5	Handling of system data, such as Application System data, and extended alarms.	Senior service personnel.
6	Configuration of the system, both HW and SW.	Distributor.
7	Authority control. Log functions. <i>Super user</i> ;functions.	Experts.

Unix-Style Commands

3

This chapter contains the following sections:

- [Operating System Commands](#)
- [ACS Telephony Commands](#)

A 'D' in the authority column means *Dangerous* = must be confirmed.

Root in the authority column means that the command can only be executed as a root user.

In addition to the commands listed below, there are some expert commands and standard Linux/Unix commands. Refer to the online help and Linux documentation, but note that it depends on your authority level which commands you will see. An asterisk, *, after the command name means the command is new in this release (6.3). R/A in the authority level column means the command is only allowed for users *root* or *mxone_admin*.

3.1 Operating System Commands

Command block	Command name	Brief command description	Default authority level
Alarm functions	alarm	Create, erase or print alarms.	-
		Create, Erase	4
		Print	0
	alarm_action	Define or cancel alarm actions, that is, mdsh commands to be executed as a result of a certain alarm. The command can only be performed as a root user.	7 Root
	alarm_board	List the alarm boards.	7
	alarm_cfg	Write the alarm log configuration to system database or print it.	-
		Read	0

Command block	Command name	Brief command description	Default authority level
		Change	7
	alarm_input	Define, erase, or list alarm input ports.	4
	alarm_noticed	The alarm has been noticed by a technician and correction is in progress.	3
	alarm_output	Define, erase, or list alarm output ports.	4
	alarm_top	Continuously view alarms from the log in a descending severity order.	0
Backup of data	data_backup	Create a backup of the system data.	3
	data_info	Show exchange data backup information	1
	data_restore	Restore system data from backup, and run the start phase after a data reload.	6
	reload	Load programs and restore data from backup into the system.	6 D
	config_mirror	Create mirrors (copies) of the backup data of all LIMs.	5
	config_restore	Restore mirrors (copies) of the backup data to all LIMs.	5
Blocking	blocking*	Manually block a device to take it out of service.	4
		List the blocked or disturbance marked devices.	0

Command block	Command name	Brief command description	Default authority level
		Manually deblock a device to put it in service.	4
	block_flags	List the message communication block flags.	0
Board and phone configuration	board_config	Identify new boards or remove boards.	4
	board_list	List and print which boards are present in the node.	1
	board_restart	Reset and restart a board.	4
	board_sw	Load and update SW on a board or read the SW version and identity.	4
	phone_sw	Handle firmware status and upgrades on Digital Telephone Sets.	4
Call information logging	callinfo_condcode_print	Print the call logging string that will replace the condition code in the recorded data.	0
	callinfo_condcode_set	Set (or change) the custom string to be inserted in the call logging record when the condition is met.	3
	callinfo_format_print	Print a preconfigured format. Use the received string in subsequent commands.	0
	callinfo_limit_print	Print the call logging limit.	0
	callinfo_limit_set	Initiate the call logging limit for QoS supervision.	3

Command block	Command name	Brief command description	Default authority level
	callinfo_mask_print	Print the call logging mask.	0
	callinfo_mask_set	Initiate the call logging mask.	3
	callinfo_output_ change	Change or append the call logging data format.	3
	callinfo_output_info	Print the possible call logging data alternatives.	0
	callinfo_output_set	Initiate an output channel for call information logging.	3
	callinfo_qos_report_set	Enable or disable forwarding or output of QoS data.	3
	callinfo_status_print	Print the destinations of the call logging forwarding.	0
	callinfo_status_set	Enable or disable forwarding of call logging data.	3
	callinfo_sql_to_file	Perform postprocessing of call logging data from an SQL database to a file.	2
	callinfo_file_to_sql	Perform postprocessing of call logging data from a file to an SQL database.	2
	callinfo_file_to_file	Perform postprocessing of call logging data from one file to another.	2
	callinfo_tcp_print	Initiate a test server to log TCP traffic on a host port.	0

Command block	Command name	Brief command description	Default authority level
Call tracing	<code>call_trace</code>	Display the connection status for calls or for a party.	1
Certificate handling	<code>mxone_certificate</code>	Server, root and CSR certificate handling. Not in mdsh.	7 Root
Core files	<code>check_core_files</code>	Checks if there are any core files on the system (created by the <code>core_report</code> command). Not in mdsh.	7 R/A
	<code>core_report</code>	Analyzes the core file on the system that created the core file. Not in mdsh.	7 R/A
Diagnostic	<code>diagnostic_exception</code>	Used for advanced debugging.	6
	<code>diagnostic_job_time</code>	Measure execution time of jobs in Program Units.	4
	<code>diagnostic_print</code>	Used for advanced debugging.	4
	<code>diagnostic_state</code>	Used for advanced debugging.	7
External Database	<code>external_database</code>	Manage access to external LDAP compatible database(s), e.g. for public subscriber name ("Alpha tagging" and "Blacklisting").	-
		Initiate	7
		Erase	7 D
		Change	7
		Print	0

Command block	Command name	Brief command description	Default authority level
		Test	7
License handling	license_print	Print the license file.	3
	license_print_definition	Print feature level definitions.	3
	license_report	Manage the license usage report function.	7
	license_reread	Reload and update the license data.	5
	license_sls	Action against SLS.	7
	license_status	Print the license data.	1
Maintenance and Market data	mxone_maintenance	Start the Configuration Utility (to upgrade, add or repair a LIM, to roll back to the previous MX-ONE Service Node software, to reconfigure HTTPS, and many other functions). Market data is also handled (printed/changed). Not in mdsh.	7 Root
mdsh command shell	mdsh	Start an MX-ONE Service Node shell and command interpreter.	0
Media encryption	media_encryption_enable	Enable SRTP media encryption on H.323.	3
	media_encryption_disable	Disable SRTP media encryption.	3
	media_encryption_print	Print the status of the H.323 media encryption.	3

Command block	Command name	Brief command description	Default authority level
Media Gateway	media_gateway_config	Configure media gateways in the system.	6
	media_gateway_info	Read or set media gateway information.	5
	media_gateway_interface	Print or set information about the MX-ONE Media Gateway interface.	6
	media_gateway_load_sharing	Print or change Media Server load sharing levels.	6
		Change	0
		Print	-
	media_gateway_start	Manually order a reboot, restart, or reconfiguration of the MX-ONE Media Gateway, or those of a function in the MX-ONE Media Gateway.	5
Media Server	media_server	Configure media server SIP control interface (MSCML), for streaming functions Initiate, Change	6
		End	6
		Print	0
Media Server message conversion	media_server_message	Configure media server SIP control interface (MSCML) message conversion table, for streaming functions Initiate, Change	6

Command block	Command name	Brief command description	Default authority level
		End	6
		Print	0
Message or signal names and numbers	hw_message_send	Compose and send a message to the hardware.	7
	message_list	List messages or signals known to a program unit.	0
	message_name	Display the message name when the number is known.	0
	message_number	Display the message number when the name is known.	0
	message_send	Manually compose and send a message to a specified program unit.	7
MX-ONE SN configuration data	mxone_data	Print MX-ONE Service Node Server configuration, i.e. addresses to system database, DNS master, LIM servers, cluster standby servers, standby servers (not in any cluster), media servers, management server and free servers.	0
MX-ONE SN software	mxone_software	Print or change MX-ONE Service Node software versions. A debugging tool for trained service technicians.	7 Root
Program unit information	pu_name	Display the program unit name when the number is known.	0
	pu_number	Display the program unit number when the name is known.	0

Command block	Command name	Brief command description	Default authority level
	pu_ping	Check messaging performance and message round trip delays on a running system.	1
	pu_info	Display information (version, identity, type, and so on) about a program unit.	1
Program unit and function add, remove and change	data_change	Protect a series of command initiated actions, for example, replacing a program unit with the program unit change feature.	6
	pu_add	Add a program unit in the MX-ONE Service Node.	6
	pu_remove	Remove a program unit in the MX-ONE Service Node.	6
PSTN fallback for VoIP media	igw_route_change	Modify inter gateway routes and destinations.	5
	igw_route_end	Remove inter gateway routes and destinations.	5 D
	igw_route_initiate	Initiate inter gateway (ISDN or CAS) routes and destinations.	5
	igw_route_print	Print inter gateway routes and destinations.	1
Recovery mode	recoverymode	Change and display the system fault recovery mode.	6
RTP resource handling	rtp_resource	Display information about RTP resources and codecs in the system.	3

Command block	Command name	Brief command description	Default authority level
Start/restart	<code>restart</code>	Restart the MX-ONE Service Node system or a program unit.	6
	<code>start</code>	Start the MX-ONE Service Node system. Coordination start, that is, start phases 1.3 and 1.5 are run.	6
Status	<code>status</code>	Display the current status and event history of the system, node, or program unit.	1
	<code>status_view</code>	Display the status changes of the system (start phases, and so on.)	1
Switch connection	<code>switch_connection_end</code>	Disconnect switch connections manually.	6
	<code>switch_connection_initiate</code>	Initiate switch connections manually.	6
	<code>switch_connection_list</code>	Display switch connections.	2
System and program information	<code>exchange_info</code>	Display the build date of the system or a program unit. Set the system identity.	1
MX-ONE system component versions	<code>ts_about</code>	Display the build version of the system and its main RPM packages.	1
Trace	<code>trace</code>	Initiate, stop, erase, or print a message trace on a unit, message, or directory number.	4
	<code>obfuscate</code>	Obfuscate sensitive data from a trace (Aid for the trace command).	-

Command block	Command name	Brief command description	Default authority level
		Initiate	3
Time	time_info	Print information about time and time use.	0
Transport of media	trsp_info	Display the inter-LIM media connections.	1
	trsp_synchronization	Define rules, resynchronize, or display the rules for synchronization.	5
	trsp_connection	Configure inter-LIM transport media connection.	5
Trusted external hosts	trusted_amp_hosts	Used for running MX-ONE commands from an external host.	-
		Initiate, erase	7
		Print	0

3.2 ACS Telephony Commands

Command block	Command name	Brief command description	Default authority level
Account code	account_code_close	Close a range of account codes.	3
	account_code_erase	Remove account codes.	3
	account_code_init	Set new account codes.	3

Command block	Command name	Brief command description	Default authority level
	account_code_print	Print the set account codes.	1
	account_code_open	Open a range of account codes.	3
Authorization code	auth_code	Set, print, encrypt and remove authorization codes.	-
		Initiate	3
		Erase	3 D
		Print	3
		Encrypt *	3
Call List	call_list	Initiate, change, or print data for a call list. Or, set the active list.	-
		Initiate, Change, Set	2
		Erase	2 D
		Print	1
	call_list_profile	Change or print a call list profile.	-
		Change	2
		Print	0

Command block	Command name	Brief command description	Default authority level
Call list alerting delay	delay_seizure_list	Manage how a terminal type is to be alerted when it has Call list.	-
		Initiate, Change	3
		Erase	3 D
		Print	0
Common Public Directory Number	route_data_common	Initiate, change, erase and print common public directory numbers, per system or per server/LIM.	-
		Initiate	4
		Erase	4
		Print	0
Computer Supported Telecommunications Applications Phase III	csta	Initiate, change, erase and print csta phase 3 servers or XML data format in the system.	-
		Initiate	4
		Erase	4
		Print	0

Command block	Command name	Brief command description	Default authority level
	csta_authentication	Initiate, change, erase and print csta phase 3 application session authentication settings.	-
		Change	4
		Initiate	4
		Erase	4
		Print	0
Cordless Extension	dect_cfp	Manage common fixed part for dect system.	4
	dect_extension	Manage authentication data for a DECT extension.	3
	dect_logging	Manage mobility reporting for dect system.	0
	dect_rfp	Manage radio fixed part for dect system.	-
		Erase	4 D
		Initiate/reset	4
		Change	2
	dect_system_id	Manage Secondary access rights identity for dect.	-

Command block	Command name	Brief command description	Default authority level
		Initiate	4
		Erase, change	4 D
Diversion	diversion	Manage individual diversion data for extensions and groups.	
		Initiate	2
		Change	2
		Erase	2
		Print (Static data).	0
	diversion_common	Manage common diversion data in the system.	-
		Initiate	3
		Erase	3
		Print	0
	diversion_info	Print information on diversion service status for extensions. (Dynamic data).	0
	diversion_system	Manage general diversion related system data.	-

Command block	Command name	Brief command description	Default authority level
		Initiate	3
		Erase	3
		Print	0
Emergency Location	emergency_location	The command is used to change, erase, initiate, and print emergency location data used at emergency calls.	-
		Initiate	2
		Change	
		End	
		Print	0

Command block	Command name	Brief command description	Default authority level
Extension	extension	Initiate or change data for a generic extension.	2
		Erase data for a generic extension.	2 D
		Print data for a generic extension.	0
	extension_info	Print more detailed extension information.	0

Command block	Command name	Brief command description	Default authority level
	extension_key	Initiate data for a dial-by-function key.	2
		Erase data for a dial-by-function key.	2 D
		Print data for a dial-by-function key.	0
	extension_option	Change data for optional functions for extension.	2
		Print data for optional functions for extension.	0
	extension_option_info	Print optional status info for extension.	0
	extension_procedure	Execute the stated procedure.	2
	extension_profile	Initiate or change common user data.	3
		Erase common user data.	3 D
		Print common user data.	0
	extension_text	Change stored text string for generic extension display.	2
		Print stored text string for generic extensions.	0
	extension_unregistration	Force unregistration (logoff) of an IP terminal.	4

Command block	Command name	Brief command description	Default authority level
		Erase	3
		Print	0
Extension Group	extension_group	Initiate, erase or change group data for an extension group.	2
		Print group data for an extension group.	0
	extension_dnd_group	Initiate, erase or change group do not disturb data.	2
		Print group do not disturb data.	0
	extension_dnd_group_member	Initiate, erase or change group do not disturb member data.	2
		Print group do not disturb member data.	0
	extension_group_info	Print extension group or extension group member detailed information.	0
	extension_group_member	Initiate, erase or change member data for an extension group.	2
		Print member data for an extension group.	0

Command block	Command name	Brief command description	Default authority level
	extension_group_profile	Initiate, erase or change common extension group profile data.	2
		Print common extension group profile data.	0
	extension_pickup_group	Initiate, erase or change call pickup group data.	2
		Print call pickup group data.	0
	extension_pickup_group_member	Initiate, erase or change call pickup group member data.	2
		Print call pickup group member data.	0
	extension_system	Change extension group system data.	2
		Print extension group system data.	0

Command block	Command name	Brief command description	Default authority level
Function Test	function_test	Function test various TDM devices, like multi-party device, tone device, or trunk loop-back test Initiate.	4

Command block	Command name	Brief command description	Default authority level
Global Traffic Data	global_traffic_data	Manage various global traffic data, such as conference and transfer disconnection options, Last Number Redial options, own exchange identity, paging time supervision options.	-
		Initiate	5
		Erase	5
		Print	0
IP Handling	ip_domain	Initiate, change, or erase an IP domain.	4
		Print data for an IP domain.	0
	ip_extension	Initiate an IP extension.	2
		Erase data for an IP extension.	2 D
		Print static data for an IP extension.	0
	ip_extension_info	Print dynamic (registration related) data for an IP extension.	0
	ip_gatekeeper	Change data for an IP extension gatekeeper.	4

Command block	Command name	Brief command description	Default authority level
		Print data for an IP extension gatekeeper	0
Language strings	language	Change/print the default language of the system.	-
		Change	5
		Print	0
	language_strings_override	Change/remove/print one of the languages (no. 5-9) currently active in the system.	5
	language_strings_reread	Re-initiate/reset the language string files valid for the used application system.	5
Name	name	Manage name information.	2
		Print names for users and groups.	0
Number analysis	number_data_end	End the number data	3 D
	number_data_initiate	Initiate the number data	3
	number_end	End the number or a number series for a particular type.	3 D
	number_initiate	Initiate a number or a number series for a particular type.	3

Command block	Command name	Brief command description	Default authority level
	number_print	Print the number series initiated.	0
Number conversion and Bearer Capability substitution	number_conversion_end	End number conversion and BC substitution.	4 D
	number_conversion_initiate	Initiate number conversion and BC substitution.	4
	number_conversion_print	Print the number conversion and BC substitution.	0
Number vacant conversion (Smooth migration)	number_vacant_conversion_end	End the number data for vacant number type conversion	3
	number_vacant_conversion_initiate	Initiate the number data for vacant number type conversion	3
	number_vacant_conversion_print	Print the number data for vacant number type conversion	0
Operator Queue	operator_common_queue	Change or print data for the operator common queue LIM/server priorities.	-
		Change	6
		Print See Operator MML commands for the other operator related commands.	1

Command block	Command name	Brief command description	Default authority level
Parallel Ringing	parallel_ringing	Initiate, erase, or print data for a parallel ringing list.	-
		Initiate	2
		Erase	2 D
		Print	0
Power Failure Transfer	power_failure	Initiate, erase, or print data for the power failure transfer function.	-
		Initiate	4
		Erase	4 D
		Print	0
Remote Extension	remote_extension	Initiate, erase or print data for a remote extension.	
		Initiate	2
		Erase	2 D
		Print	0
Recorded Voice Announcement	recorded_announcement_prompt	Handle recorded voice announcements on the MGU.	-
		Load, activate	4

Command block	Command name	Brief command description	Default authority level
		Erase	4 D
		Print	0
Ring cadence	ring_cadence	Modify or check ring cadences for analog extensions. (Change requires ELU board restart).	-
		Change	6 D
		Print	0
Ring signal	ring_signal	Set ring signal for internal or incoming external call.	-
		Initiate	2
		Erase	2 D
		Print	0
Security Policy	sec_policy	Set, print, or remove the IP security policy in the system.	-
		Initiate, Erase, Print	3
SIP	sip_domain	Manage SIP domain names.	-
		Initiate, erase	4

Command block	Command name	Brief command description	Default authority level
		Print	0
	sipgrep	Filter SIP messages from a trace in SIPLP. (Aid for the trace command).	-
		Initiate	3
	sip_route	Administer SIP trunk data.	-
		Initiate, erase	4
		Print	3
Short Message Service	sms_client_end	Terminate the SMS service center client.	3D
	sms_client_initiate	Initiate an SMS service center client.	3
	sms_client_print	Print data about an SMS service center client.	0
	sms_server_end	Terminate the SMS service center connection.	3 D
	sms_server_initiate	Initiate the server of an SMS service center.	3
	sms_server_print	Print data about the server of an SMS service center.	0
SOM Proxy	som_proxy -i	Configure the address and port of SIP proxy running on dedicated server	5

Command block	Command name	Brief command description	Default authority level
	<code>som_proxy -e</code>	Erase the SIP proxy address and port	5
	<code>som_proxy -p</code>	Print the SIP proxy Information	3
Streaming data	<code>streaming_data</code>	Configure data for Streaming On Idle function on Mitel 6800/6900 SIP extension.	-
		Initiate, Change	3
		End	3
		Print	0
System Resource Status Information	<code>resource_status</code>	Print the resource status, i.e. data about devices in the MX-ONE system.	-
		Print	0
Traffic Connection Matrix	<code>traffic_matrix</code>	Initiate, erase, or print traffic connection matrix data (Connection permission information).	-
		Initiate	3
		Erase>	3 D
		Print	0

Command block	Command name	Brief command description	Default authority level
Transmission Matrix Data	transmission_matrix_data	Change or print transmission matrix settings, i.e. attenuation/ amplification values for TDM devices. (For experts only, not included in CPI).	7 D
User Authentication	user_authentication	Erase, initiate and print user authentication data.	4
Vacant Numbers	vacant_number	Print data about vacant numbers, i.e. unused numbers of specific types, defined in number analysis, but not assigned to any device.	-
		Print	0

Telephony Service Commands (MML) for mdsh

4

This chapter contains the following sections:

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- [Account Codes](#)
- [Analog Extension](#)
- [Application System Data](#)
- [Automatic Call Distribution \(ACD\)](#)
- [Automatic Network Call Distribution](#)
- [Authorization Codes](#)
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- [Traffic Recording/Measurement](#)
- [Voice Mail](#)
- [Surveillance, Observation and Monitoring](#)

D in the authority level column means *Dangerous* = must be confirmed with Yes.

4.1 Abbreviated Dialing

Command name	Brief command explanation	Default authority level
ADCDP	Abbreviated dialing common data print	0
ADCOE	Abbreviated dialing common number end	2
ADCOI	Abbreviated dialing common number end	2
ADIDP	Abbreviated dialing individual data print	0
ADINE	Abbreviated dialing individual number end	2
ADINI	Abbreviated dialing individual number initiate	2
ADIPP	Abbreviated dialing individual possessors print	0

4.2 Account Codes

See [ACS Telephony Commands](#).

4.3 Analog Extension

Command name	Brief command explanation	Default authority level
EXADC	Analog extension additional data change	2
EXADP	Analog extension additional data print	0
EXCAC	Analog extension category change	2
EXCAP	Analog extension category print	0
EXCUC	Analog extension customer number change	2
EXDDP	Analog extension directory data print	0
EXTEE	Analog extension end	2 D
EXTEI	Analog extension initiate	2

4.4 Application System Data

Command name	Brief command explanation	Default authority level
ASPAC	Application system parameter change	5 D
ASPAP	Application system parameter print	0

ASUVP	Application system parameter unit validation print	0
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4.5 Automatic Call Distribution (ACD)

Command name	Brief command explanation	Default authority level
ACBGE	Backup group end	2
ACBGI	Backup group initiate	2
ACBGP	Backup group print	0
ACCSP	ACD current status print	0
ACGCC	ACD group category change	2
ACGCP	ACD group category print	0
ACGMC	Group member change	1
ACGME	Group member end	1
ACGMI	Group member initiate	1
ACGMP	Group member print	0
ACGRE	ACD group end	2
ACGRI	ACD group initiate	2
ACPAC	parameter change	2

ACPAP	parameter print	0
ACTNE	ACD translation number end	2
ACTNI	ACD translation number initiate	2
ACTNP	ACD translation number print	0

4.6 Automatic Network Call Distribution

Command name	Brief command explanation	Default authority level
NCCOE	Network call distribution communication end	4
NCCOI	Network call distribution communication initiate	4
NCCOP	Network call distribution communication print	0
NCCTI	Network call distribution communication test initiate	0
NCGMC	Network call distribution group member change	2
NCGME	Network call distribution group member end	2
NCGMI	Network call distribution group member initiate	2
NCGMP	Network call distribution group member print	0

NCGRC	Network call distribution group change	2
NCGRE	Network call distribution group end	2
NCGRI	Network call distribution group initiate	2
NCGRP	Network call distribution group print	0
NCGSP	Network call distribution group status print	0
NCGTE	Network call distribution traffic end	2
NCGTI	Network call distribution group traffic	2
NCICE	Network call distribution information channel end	4
NCICI	Network call distribution information channel initiate	4
NCICP	Network call distribution information channel print	0
NCNOE	Network call distribution node end	4
NCNOI	Network call distribution node initiate	4
NCNOP	Network call distribution node print	0

NCSGC	Network call distribution satellite group change	2
NCSGE	Network call distribution satellite group end	2
NCSGI	Network call distribution satellite group initiate	2
NCSGP	Network call distribution satellite group print	0

4.7 Authorization Codes

See [ACS Telephony Commands](#) on Authorization Code.

4.8 Call Diversion

See [ACS Telephony Commands](#) on Diversion .

4.9 Charging and Metering

Command name	Brief command explanation	Default authority level
CHCME	Charging cost model end	3
CHCMI	Charging cost model initiate	3
CHCMP	Charging cost model print	0
CHGAP	Charging group association print	0
CHGCE	Charging group counter end	3

CHGCP	Charging group counter print	0
CHGME	Charging group member end	3
CHGMI	Charging group member initiate	3
CHGMP	Charging group member print	0
CHICE	Charging individual counter end	3
CHICP	Charging individual counter print	3
CHRCE	Charging route counter end	3
CHRCP	Charging route counter print	0

4.10 Common Bell (GROUP)

Command name	Brief command explanation	Default authority level
CBCAC	Common Bell category change	2
CBELI	Common Bell equipment initiate	3
CBGME	Common Bell group member end	2
CBGMI	Common Bell group member initiate	2
CBDAP	Common Bell data print	0

4.11 Common Public Directory Number

See [ACS Telephony Commands](#) on Common Public Directory Number.

4.12 Function Test

See [ACS Telephony Commands](#) on Function Test.

4.13 Generic Extension

See [ACS Telephony Commands](#) on Extension.

4.14 Group Call Pickup

See [ACS Telephony Commands](#) on Extension Group.

4.15 Group Do-Not-Disturb

See [ACS Telephony Commands](#) on Extension Group.

4.16 Interception Computer

Command name	Brief command explanation	Default authority level
ICFUC	Interception computer function change	4
ICFUE	Interception computer function end	4
ICFUI	Interception computer function initiate	4
ICFUP	Interception computer function print	0

ICMWC	Interception computer message waiting data change	4
ICMWP	Interception computer message waiting data print	0
ICUPI	Interception computer update initiate	4

4.17 ISDN Trunk Protocol Data

Command name	Brief command explanation	Default authority level
IRPDP	ISDN trunk protocol data print	5

4.18 Interception Service

Command name	Brief command explanation	Default authority level
ISEPE	Interception service position end	4
ISEPI	Interception service position initiate	4
ISEPP	Interception service position print	0
ISFUE	Interception service function end	4
ISFUI	Interception service function initiate	4
ISFUP	Interception service function print	0

4.19 IP Extension

See [ACS Telephony Commands](#) on IP Extension.

4.20 IP Networking

Command name	Brief command explanation	Default authority level
RIANC	Route IP additional network information change	4
RIANI	Route IP additional network information initiate	4
RIANP	Route IP additional network information print	0

Note:

The RINlx-commands have been replaced by *media_gateway_interface*.

4.21 ISDN S0 Terminal

Command name	Brief command explanation	Default authority level
ITCAC	ISDN terminal category change	2
ITCUC	ISDN terminal customer number change	2
ITDAP	ISDN terminal data print	0

ITNUE	ISDN terminal number end	2 D
ITNUI	ISDN terminal number initiate	2

4.22 Key System Telephones

Command name	Brief command explanation	Default authority level
KSADC	Key system telephone additional data change	2
KSADP	Key system telephone additional data print	0
KSANC	Key system telephone additional number change	2
KSANE	Key system telephone additional number end	2 D
KSANI	Key system telephone additional number initiate	2
KSCAC	Key system telephone category change	2
KSCAP	Key system telephone category print	0
KSCHC	Key system telephone character data change	2
KSCHP	Key system telephone character data print	0
KSCUC	Key system telephone customer number change	2

KSDDP	Key system telephone directory data print	0
KSEXE	Key system telephone extension equipment end	2 D
KSEXI	Key system telephone extension equipment initiate	2
KSFKC	Key system telephone function key change	2
KSFKP	Key system telephone function key print	0
KSMDE	Key system multiple directory number end	2
KSMDI	Key system multiple directory number initiate	2
KSMDE	Key system multiple directory number print	0

Note:

KS telephones or DTS are only supported in MX-ONE Classic LIMs.

4.23 Least-Cost Routing, LCR, Including Time of Day and Routing Server

Command name	Brief command explanation	Default authority level
LCDDE	Least cost routing destination data end	4 D

LCDDI	Least cost routing destination data initiate	4
LCDDP	Least cost routing destination data print	0
LCIPE	Least cost routing IP configuration end	4
LCLDE	Least cost routing LIM data end	4 D
LCLDI	Least cost routing LIM data initiate	4
LCLDP	Least cost routing office prefix data end	0
LCOPE	Least cost routing office prefix data end	4 D
LCOPI	Least cost routing office prefix data	4
LCOPP	Least cost routing office prefix data	0
LCTDI	Least cost routing time zone date initiate	4
LCTDP	Least cost routing time zone date print	0
LCTMP	Least cost routing traffic measurement data print	0
LCUDE	Least cost routing update time supervision end	4

LCUDI	Least cost routing update time supervision initiate	4
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4.24 Message Transfer Part Data (SS7)

Command name	Brief command explanation	Default authority level
MTLIE	Message transfer part link inhibition end	4
MTLII	Message transfer part link inhibition initiate	4
MTLIP	Message transfer part link inhibition data print	4
MTSDC	Message transfer part signaling data link state change	4
MTSLC	Message transfer part signaling link data change	4
MTSLE	Message transfer part signaling link end	4
MTSLI	Message transfer part signaling link initiate	4
MTSLP	Message transfer part signaling link data print	0
MTSRE	Message transfer part signaling route end	4
MTSRI	Message transfer part signaling route initiate	4

MTSRP	Message transfer part signaling route data print	0
MTSSC	Message transfer part signaling link set data change	4
MTSSE	Message transfer part signaling link set end	4
MTSSI	Message transfer part signaling link set initiate	4
MTSSP	Message transfer part signaling link set data print	0
MTSTE	Message transfer part signaling route set end	4
MTSTI	Message transfer part signaling route set initiate	4
MTSTP	Message transfer part signaling route set end data print	0

4.25 Night Service

Command name	Brief command explanation	Default authority level
NSCOE	Night service common initiate	4
NSCOI	Night service common initiate	4
NSDAP	Night service data print	0

4.26 Number Conversion and Bearer Capability Substitution

See [ACS Telephony Commands](#) on Number Conversion and BC substitution.

4.27 Operator

Command name	Brief command explanation	Default authority level
OPADC	Operator traffic absent trunk traffic distribution change	3
OPCAC	Operator traffic category change	2
OPCAP	Operator traffic category print	0
OPCEE	Operator traffic central number end	3
OPCEI	Operator traffic central number initiate	3
OPCEP	Operator traffic central number print	0
OPCGP	Operator traffic call origin group print	0
OPCGR	Operator traffic call origin group remove	1
OPCGS	Operator traffic call origin group set	1
OPCOE	Operator traffic common access code end	3

OPCOI	Operator traffic common access code initiate	3
OPCTP	Operator traffic call type data print	0
OPCTR	Operator traffic call type data remove	2
OPCTS	Operator traffic call type data set	2
OPCUC	Operator traffic customer number change	2
OPDDP	Operator traffic directory data print	0
OPDNC	Operator traffic operator day and night time threshold change	3
OPDNP	Operator traffic operator day of week table information print	0
OPERE	Operator traffic operator end	2 D
OPERI	Operator traffic operator initiate	2
OPIDP	Operator IP data print	2
OPISP	Operator traffic instrument data print	0
OPISS	Operator traffic instrument data set	2
OPNEE	Operator traffic notified exchange end	3

OPNEI	Operator traffic notified exchange initiate	3
OPNEP	Operator traffic notified exchange print	0
OPRSC	Operator traffic route string change	2
OPRSP	Operator traffic route string print	0
OPSAE	Operator TCP server address end	2 D
OPSAI	Operator TCP server address initiate	2
OPSAP	Operator TCP server address print	0
OPSAP	Operator traffic status print	0
	See also ACS Telephony Commands on Operator Queue.	

4.28 Paging

Command name	Brief command explanation	Default authority level
PAALE	Paging alarm group code end	2
PAALI	Paging alarm group code initiate	2
PAALP	Paging alarm group code print	0
PACAC	Paging category change	2

PACHE	Paging channel end	4
PACHI	Paging channel initiate	4
PADAP	Paging data print	0
PAEDP	Paging equipment data print	0
PAGIE	Paging end	4
PAGII	Paging initiate	4
PASAE	Paging search area end	2
PASAI	Paging search area initiate	2

4.29 Parallel Ringing

See [ACS Telephony Commands](#) on Parallel Ringing.

4.30 Personal Number

See [ACS Telephony Commands](#) on Call List.

4.31 Power Failure transfer

See [ACS Telephony Commands](#) on Power Failure Transfer.

4.32 Recorded Announcements

Command name	Brief command explanation	Default authority level
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RACEC	Recorded Voice Announcement Connection Change	4
RACEE	Recorded Voice Announcement Connection End	4
RACEI	Recorded Voice Announcement Connection Initiate	4
RACEP	Recorded Voice Announcement Connection Print	0
RADSE	Recorded Voice Announcement Device Selection End	4
RADSI	Recorded Voice Announcement Device Selection Initiate	4
RADSP	Recorded Voice Announcement Device Selection Print	0
RAGAC	Recorded announcement group announcement change	4
RAGAE	Recorded announcement group announcement end	4
RAGAI	Recorded announcement group announcement initiate	4
RAGAP	Recorded announcement group announcement print	0
RAGME	Recorded announcement group member end	2
RAGMI	Recorded announcement group member initiate	2

RAGMP	Recorded announcement group member print	0
RAGPE	Recorded announcement group end	4
RAGPI	Recorded announcement group initiate	4
RAMDE	Recorded announcement message data end	4
RAMDI	Recorded announcement message data initiate	4
RAMDP	Recorded announcement message data print	0

4.33 Remote Extension

See [ACS Telephony Commands](#) on Remote Extension.

4.34 Route and Trunk Data

Command name	Brief command explanation	Default authority level
ROAPE	Route A-number prefix end	4
ROAPI	Route A-number prefix initiate	4
ROAPP	Route A-number prefix print	0
ROCAC	Route category change	4
ROCAI	Route category initiate	4

ROCAP	Route category print	0
ROCDE	Route customer diversion number end	4
ROCDI	Route customer diversion number initiate	4
ROCDP	Route customer diversion number print	0
RODAI	Route data initiate	4
RODAP	Route data print	0
RODDE	Route external destination data end	3
RODDI	Route external destination data initiate	3
RODDP	Route external destination data print	0
RODIE	Route direction end	3
RODII	Route direction initiate	3
RODIP	Route direction print	0
RODNE	Route day and night number end	4
RODNI	Route day and night number initiate	4
RODNP	Route day and night number print	0

RODRP	Route external destination route data print	0
ROECE	Route equipment connection end	0
ROECI	Route equipment connection initiate	4
ROECP	Route equipment connection print	4
ROEDP	Route equipment data print	0
ROEQE	Route equipment end	3 D
ROEQI	Route equipment initiate	3
ROFCC	Route fault counter change	4
ROFCP	Route fault counter print	0
RONDE	Route number data end	4
RONDI	Route number data initiate	4
RONDP	Route number data print	0
RORIE	Route rerouting isolated LIM end	4
RORII	Route rerouting isolated LIM initiate	4
RORIP	Route rerouting isolated LIM print	0

RORNE	Route rerouting number in network end	4
RORNI	Route rerouting number in network initiate	4
RORNP	Route rerouting number in network print	0
ROUTE	Route end	4
ROVNE	Route vacant number rerouting end	4
ROVNI	Route vacant number rerouting initiate	4
ROVNP	Route vacant number rerouting data print	0

4.35 Special-Purpose Extension

Command name	Brief command explanation	Default authority level
SPEXE	Special purpose extension end	2
SPEXI	Special purpose extension initiate	2
SPEXP	Special purpose extension print	0

4.36 Static Semipermanent Connection

Command name	Brief command explanation	Default authority level
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SEMIE	Static semipermanent connection end	4
SEMI I	Static semipermanent connection initiate	4
SEMIP	Static semipermanent connection print	0

4.37 System Data

See [ACS Telephony Commands](#) for Global traffic data.

4.38 System User Information

See [ACS Telephony Commands](#) for Resource status.

4.39 Traffic Connection

See [ACS Telephony Commands](#) for Traffic Connection Matrix.

4.40 Traffic Recording/Measurement

Command name	Brief command explanation	Default authority level
TRCOI	Traffic recording conference initiate	4
TRCBI	Traffic recording common bell initiate	4
TRCFI	Traffic recording DECT initiate	4
TRCRI	Traffic recording MFC receiver initiate	4

TRCSI	Traffic recording MFC sender initiate	4
TRDDI	Traffic recording dial tone delay initiate	4
TRDIP	Traffic recording directory print	0
TRDPE	Traffic recording data processing end	4
TRDPI	Traffic recording data processing initiate	4
TRDPP	Traffic recording data processing print	4
TREXI	Traffic recording keycode receiver initiate	4
TRIPi	Traffic recording IP extension initiate	4
TRKRI	Traffic recording keycode receiver initiate	4
TRKSI	Traffic recording keycode sender initiate	4
TRMBI	Traffic recording Mobility initiate	4
TRMEE	Traffic recording measurement end	4
TRMHI	Traffic recording measurement halt initiate	4
TROMI	Traffic recording operator manned time initiate	4

TROPI	Traffic recording operator initiate	4
TRPBI	Traffic recording PBX or hunt group initiate	4
TRPGI	Traffic recording paging initiate	4
TRPEE	Traffic recording print and erase end	4
TRPEI	Traffic recording print and erase initiate	4
TRPGI	Traffic recording on Paging initiate	4
TRREP	Traffic recording result print	0
TRROI	Traffic recording route initiate	4
TRRSI	Traffic recording route supervision value initiate	4
TRRSP	Traffic recording route supervision value print	0
TRTLI	Traffic recording trunk line initiate	4
TRTRI	Traffic recording tone receiver initiate	4

Note:

The TRDX, TRMS, and TRMG commands are not supported. The TRKR, TRKS, and TRTR commands are only supported in the MX-ONE Classic.

4.41 Voice Mail

Command name	Brief command explanation	Default authority level
VMFUE	Voice mail function end	4
VMFUI	Voice mail function initiate	4
VMFUP	Voice mail function data print	0
VMGEE	Voice mail generic extension end	4
VMGEI	Voice mail generic extension initiate	4
VMGEP	Voice mail generic extension print	0
VMPOE	Voice mail port end	4
VMPOI	Voice mail port initiate	4
VMPOP	Voice mail port print	0

4.42 Surveillance, Observation and Monitoring

Command name	Brief command explanation	Default authority level
ZODLE	Surveillance, Observation and Monitoring (SOM) data link end	4
ZODLI	SOM data link initiate	4
ZODLP	SOM data link data print	0

ZOPWC	SOM I/O password change	6
ZOTGE	SOM trunk group end	4
ZOTGI	SOM trunk group initiate	4
ZOTGP	SOM trunk group print	0

