

Add LIM

OPERATIONAL DIRECTIONS



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1 GENERAL

These operational directions show the addition of one MX-ONE Service Node at a time, but several MX-ONE Service Nodes can be added using the same procedure.

2 PREREQUISITES

2.1 CONDITIONS

The following conditions must apply before this procedure can be completed:

- This procedure should preferably be performed at low traffic. When the addition of Server is taking place the exchange data must not be changed in the system.
- An experienced technician is available on site.
- The technician has the adequate system privilege for the task to be performed.
- The added server must have at least the same amount of memory as the server with lowest memory in the system.
- The added sever is installed and configured. See the installation instructions for *INSTALLING AND CONFIGURING MIVOICE MX-ONE*.

2.2 DATA

The following data must be known to complete this procedure:

- The LIM (server) number
- The IP address, subnet mask, and default gateway for the LIM.
- The network topology must be known.

3 AIDS

Monitor the execution in the current and the new Server with the command **tail -f /var/log/localmessages**.

4 REFERENCES

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5

PROCEDURE

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6 EXECUTION

6.1 NORMAL CASE

1. Make sure that no events, such as planned repair, are active.
Key command *status -system*
 2. Make sure that the MX-ONE is running properly.
Key command *alarm -p* to list alarms in the alarm log.
 3. Make a data backup.
Key command *data_backup*.
 4. Distribute configuration mirror data.
Key command *config_mirror -export*.
 5. Make a safety backup.
See the *ADMINISTRATOR USER'S GUIDE*.
 6. Install new server.
For detailed information, see *INSTALLING AND CONFIGURING MIVOICE MX-ONE*.
 7. On LIM 1 log in as user *mxone_admin*.
 8. Key command
sudo -H /opt/mxone_install/bin/mxone_maintenance to start MX-ONE Maintenance Utility.
 9. Select option *Server in system* to add a new server to system.
Follow the procedure as instructed on screen.
 10. Select option *Add a LIM to system* to add new LIM in system.
Follow the procedure as instructed on screen.
- Note:** Configuration mirror, i.e. data backups and configuration files on each Server is copied to LIM1.
11. The procedure is complete. go to chapter 7 Termination on page 6.

6.1.1 POSSIBLE FAULT SITUATIONS

The Add LIM program performs regular checks on the operation of each step. When fault situations occur the appropriate actions to take to solve the problem will be presented on line.

Examples of faults are:

- Error in SSH connection
- Error in network configuration
- Timeout at system start

Note: To return to the previous configuration, without the added LIM, perform a restore from the safety backup. See the *ADMINISTRATOR USER'S GUIDE*.

6.2

SYSTEM WITH A GROUP SWITCH

The MX-ONE has two connection media; the group switch, and RTP streams over the IP network. All Servers must have at least one media connection in common, either the group switch, media over IP or both.

In MX-ONE all inter-Server signaling is going over the IP network, which means that the group switch is not used for inter-Server signaling. The PCM lines to the group switch only handles media and synchronization.

For more information, see the operational directions for *GROUP SWITCH*.

7

TERMINATION

Verify that the operation was successful. Use the command *status -system* and *alarm -p*. Also run the command *trace -print 0*.

Normally adding a LIM does not generate any alarms. Check if there are any alarms in the system. Use the command *alarm -p* to print alarms in the alarm log. If there are any alarms, handle them in order of severity. See the fault tracing information for *MIVoice MX-ONE FAULT LOCATION*.

If exchange data have been modified, perform a data backup of the system. See the *ADMINISTRATOR USER'S GUIDE*.