Upgrading or Updating to MiVoice MX-ONE 7.x

INSTALLATION INSTRUCTION



NOTICE

The information contained in this document is believed to be accurate in all respects but is not warranted by Mitel Networks™ Corporation (MITEL®). Mitel makes no warranty of any kind with regards to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The information is subject to change without notice and should not be construed in any way as a commitment by Mitel or any of its affiliates or subsidiaries. Mitel and its affiliates and subsidiaries assume no responsibility for any errors or omissions in this document. Revisions of this document or new editions of it may be issued to incorporate such changes.

No part of this document can be reproduced or transmitted in any form or by any means - electronic or mechanical - for any purpose without written permission from Mitel Networks Corporation.

TRADEMARKS

The trademarks, service marks, logos and graphics (collectively "Trademarks") appearing on Mitel's Internet sites or in its publications are registered and unregistered trademarks of Mitel Networks Corporation (MNC) or its subsidiaries (collectively "Mitel") or others. Use of the Trademarks is prohibited without the express consent from Mitel. Please contact our legal department at Legal@mitel.com for additional information. For a list of the worldwide Mitel Networks Corporation registered trademarks, please refer to the website: http://www.mitel.com/trademarks.

© Copyright 2018, Mitel Networks Corporation All rights reserved

1 GENERAL

1.1 SCOPE

This document describes the upgrading procedure from MX-ONE 5.x, or 6.x to MX-ONE 7.x, which means a new installation due to the new operating system version, and new system database (Cassandra), for the MiVoice MX-ONE system. This document details the installation instruction *UPGRADING AND UPDATING, GENERAL*.

There are two alternative ways to regenerate the system telephony data (both reload data and system database data) at upgrade, one by copying the data from the old system database, using a **Regeneration Script Utility**, converting it to CSV format, and entering it in the Cassandra database, and the other by using the legacy **PC-Regen application** function.

The document also describes updating of MX-ONE 7.0 to MX-ONE 7.x.

Note: Regeneration Script Utility is used to regenerate the data only when you are doing upgrade from a MX-ONE 6.3 SPx system to MX-One 7.0. It cannot be used doing upgrade from a 5.x, 6.0, 6.1 or 6.2 system to 7.0.

1.2 TARGET GROUP

This document is intended for installation-, service-, support technicians and system responsible.

2 PREREQUISITES

MiVoice MX-ONE 7.x system build with Linux SLES12.

3 PREPARATIONS

A backup of the old system's data using the legacy PC-Regen application should always be done before starting the upgrade procedure.

A new license file must be ordered for the 7.x system, and that requires the system identity, so the server(s) must be running.

4 UPGRADE TO MIVOICE MX-ONE SERVICE NODE 7.X

Note: There are two alternative ways to regenerate the system telephony data at upgrade, one using the Regeneration Script Utility, 4.1 Upgrade using Regeneration Script Utility on page 4, by copying the data from the old OpenLDAP database, converting it to CSV format, and entering it in the Cassandra database, and the other by using the legacy PC-Regen application function, 4.2 Upgrade using PC-Regen on page 6. The first alternative requires unchanged server (LIM) and media gateway configuration. IP addresses and host (fqdn) names must also remain the same as used in the old 6.3 SPx system. The second alternative must be used if the server (LIM) or media gateway configuration is changed during the upgrade or if there is a need to change IP addresses or host (fqdn) name of the servers.

Note: Rollback from a MiVoice MX-ONE 7.0 version to an earlier version is not possible. To recover the old system a re-installation of SLES and MiVoice MX-ONE system is needed.

4.1 UPGRADE USING REGENERATION SCRIPT UTILITY

This alternative is only valid when upgrading from 6.3 SPx to 7.x. The following steps are included in the upgrade procedure:

- 1. Collect Telephony data (with config_mirror).
 - Fore more details see 4.1.1 Collection regeneration of data, via Regeneration script utility on page 4.
- 2. Install MX-ONE 7.x including its system database(s).
 - For details see installation instructions for *INSTALLING AND CONFIGURING MIVOICE MX-ONE*.
- Import saved Telephony Data (with the regeneration script utility)
 Fore more details see 4.1.3 Import saved telephony data Through the regeneration script utility on page 5.

Note: Regeneration Script Utility cannot be used if Migration license feature is used in 6.x. You must upgrade using the legacy PC-Regen application function.

4.1.1 COLLECTION REGENERATION OF DATA, VIA REGENERATION SCRIPT UTILITY

To save the telephony configuration data from the old MX-ONE Service Node, and to restore the same data in the new MX-ONE Service Node, this upgrading procedure uses the regeneration script regen.sh for MX-ONE.

Perform the following steps to back up the data from the old MX-ONE

- Perform a data backup (with command data_backup).
- Enter the config mirror command.
- Store the <code>config_mirror</code> file containing all server data in a place outside the MX-ONE system. The <code>config_mirror</code> files are found in the directory /mxone/mirror/version/dateandtime/.

4.1.2 INSTALL THE MIVOICE MX-ONE SERVICE NODE 7.X

For details see Installation Instruction for INSTALLING AND CONFIGURING MIVOICE MX-ONE.

4.1.3 IMPORT SAVED TELEPHONY DATA THROUGH THE REGENERA-TION SCRIPT UTILITY

After installation of the new MX-ONE 7.0 system is completed, the following steps need to be performed for successful regeneration of the telephony data from the old MX-ONE system into the new MX-ONE system.

To restore the telephony data into the new MX-ONE system, the created config mirror files first have to be transferred.

- Login to the Master Server (LIM1) as mxone admin.
- Transfer the config_mirror files to the Master server and place them in a new directory (for example /tmp/upgrademirror). You can do this through USB or copy function.
- Regenerate the data to the new system by running sudo -H /opt/mxone_ install/target/utilities/regen.sh regen_ldap_and_lim_data <pathToMirrorFiles> (for example, /tmp/upgrademirror).
- The regeneration script utility shows the data restoration progress. Check the printout and logs for errors.
- Make a reload of the system. Use the reload—system command. The reload data is now in the program units.
- Check that the system is running stable after the reload is completed.
- Run the command license_normalize to update license usage according to new license structure MX-ONE 7.0.
- Take a data backup of the system using the command data backup.
- Do a new config mirror of the system with the command config mirror.
- Install the new 7.0 license file using mxone maintenance tool.
- Make a new data backup and config mirror of the system.

4.1.4 REGENERATION SUMMARY, WITH REGENERATION SCRIPT UTILITY

Basically, all system database data and all the reload data can be regenerated through the Regeneration Script Utility.

The features (commands) listed below are not regenerated and must be entered manually:

- Call logging (callinfo_* commands)
- ring signal
- recorded announcement prompt
- Traffic Measurement (TRDIP)

4.2 UPGRADE USING PC-REGEN

The following step are included in the PC-Regen upgrade procedure:

1. Collect Telephony data (with *PC-Regen-compact*).

Fore more details see 4.2.1 Collection regeneration of data, via PC-Regen on page 6.

2. Install MX-ONE 7.x including its system database(s).

For details see installation instructions for *INSTALLING AND CONFIGURING MIVOICE MX-ONE*.

3. Import saved Telephony Data (with PC-Regen-compact).

Fore more details see 4.2.5 Import and restore saved telephony data, via PC-Regen on page 8.

4.2.1 COLLECTION REGENERATION OF DATA, VIA PC-REGEN

To save the telephony configuration data from the old MX-ONE Service Node, and to restore the same data in the new MX-ONE Service Node, the upgrading procedure uses PC-Regen-compact for MX-ONE.

Perform the following steps to back up the data from the old MX-ONE

- Download PC-Regen-compact from the provided web page.
- Collect the old source data.
- Back up the telephony data from the old system.
- Perform the regeneration

4.2.2 COLLECTING DATA FROM SOURCE SYSTEM

For regeneration PC-Regen-compact uses a source and a target directory. The data collected from the old system shall be stored in the source directory. The regenerated data will be stored in the target directory.

The default source directory is located as "...\PC-Regen.compact\source" at the installation point.

The default target directory is located as "...\PC-Regen.compact\target" at the installation point.

For simplicity the whole directory structure ...\PC-Regen-compact can be copied to a different place and leaving the installed directory as a reference. This is useful when several systems shall be generated because the default source directory can be used.

If different paths are to be used they need to be specified at runtime.

A batch file to collect the old data is needed. To generate this run the program either from the installation menu (or by clicking on the PC-Regen-compact.exe) and select a target system, a source system and when asked to generate a batch file answer yes.

The following files will be generated:

Table 1 Generated files

data_gen.batch	This is the batch file for collecting old data site name.
----------------	---

racep2.batch	This file is to collect customer based recorded voice announcement.
pu_add_info.batch	This file is to collect special program units.
gjtsp2.batch	This file is used when upgrading from an old TSW based source.

If the file transmission is going to take place from a linux/unix machine, the file data_gen.batch is preferably converted to unix format (using dos2unix or equivalent). The rest of this section assumes this is the case.

The files above shall be put under the directory labeled source and zipped together in a special file (that is, data.zip). Then this file is moved to a directory, from where the collection takes place, that is the Lim 1 server under directory /tmp/upgrade.

The special file is then unzipped in the collection directory on the server.

From the collection directory using SSH sends the following command:

serverLim1/tmp/upgrade # source data_gen.batch | tee TS1log.txt

Zip the output in the collection directory using command:

serverLim1/tmp/upgrade # zip -j pcregenSource.zip *

Note: The- j option does avoid including the directory structure.

Move the file pcregenSource.zip to the selected PC-Regen-compact source directory and unzip it.

You now have the necessary data collected under the PC-Regen-compact source directory.

4.2.3 PERFORM THE DATA GENERATION

When the source files are present in the PC-Regen-compact source directory we are ready for a data regeneration.

Run the program from the installation menu (or by clicking on the C-Regen-compact.exe).

Select your target system, your source system.

On the question to generate a batch file answer no,

On the question for syntax check answer no.

You will then get a prompt:

Regeneration MX-One... --> MX-ONE...

Source path : .\source Target path : .\target

OK? y/n:

Here You get an option to change source and target paths, Otherwise just select y and the regeneration will start.

For more information, refer to the *PC-Regen-compact* document.

4.2.4 INSTALL THE MIVOICE MX-ONE 7.X

For details see Installation Instruction for INSTALLING AND CONFIGURING MIVOICE MX-ONE. The Cassandra database will also be installed.

4.2.5 IMPORT AND RESTORE SAVED TELEPHONY DATA, VIA PC-REGEN

After installing the new MX-ONE, the following steps need to be performed in PC-Regen for successful regeneration of the telephony data from the old MX-ONE system into the new MX-ONE system.

To restore the telephony data into the new MX-ONE system, the created Init-files first have to be transferred.

- Zip the folder mentioned in the Target path on the main window of the PC-Regen-compact application. Name it pcregenTarget.zip
- Connect the host system to the new MX-ONE system through the file transfer tool.
- Connect to MX-ONE through SSH, do as following:
 - Log on by providing a user name and password.
 - Type in the following command to unzip the target file: serverLim1/tmp/upgrade # unzip pcregenTarget.Zip.
 - Type in the following command to remove formatting: serverLim1/tmp/upgrade # dos2unix *.
 - Type in the following command at the prompt: serverLim1/tmp/upgrade # mdsh REGENCMD.TXT I tee upgradeLog.txt.
 - Wait till the prompt reappears. This command will run the Init files, restoring the telephony data from the old MX-ONE into the MX-ONE system.
 - Check the file upgradeLog.txt for no or wrong loaded data.

Note: The MX-ONE periodically performs data backups.

- Finally, back up the system data by typing in the following command: serverLim1/tmp/upgrade mdsh -c data_backup.
- Exit the SSH sessions and close the file transfer tool.

4.2.6 REGENERATION SUMMARY, WITH PC-REGEN

4.2.6.1 Manually Regenerated Commands (if wanted)

Some commands cannot be regenerated by PC-Regen-compact. However, these commands are stored in the Target folder in the MX-ONE system in corresponding text files. Based on the need, run the corresponding SET command manually at the MDSH prompt with the data in the corresponding file to configure the new MX-ONE system with the data from the old MX-ONE system.

License file update shall be done via the mxone maintenance script.

Below in Table 2 Not regenerated files (using PC-Regen) on page 8, is a list of commands that cannot be regenerated by PC-Regen or by manual entering:

Table 2 Not regenerated files (using PC-Regen)

rubio 2 riot regenerated mee (demig	
Command Not Regenerated	Corresponding File Name
alarm_cfg_reread	alarm_cfg_reread
alarm_cfg_reread	trace
callinfo_output	callinfo_output
recorded_announcement_prompt	recorded_announcement_prompt

Command Not Regenerated	Corresponding File Name
ring_signal	ring_signal
TRDIP	TRDIP

Note: recorded_announcement_prompt initiate file needs to be manually updated by entering the values of parameters "-host" and "--path" and also uncommenting the entries of initiate file before executing them in the Service Node.

Example:

#recorded_announcement_prompt --load -m 1A --host \$HOST\$
--file message001.wav --path \$PATH\$

The above initiation needs to be uncommented and should manually edit the values of "-host" and "-path"

recorded_announcement_prompt --load -m 1A --host 203.0.113.10 --file message001.way --path user/rva/messages.

4.2.6.2 Automatically regenerated Commands, summary

Basically all commands except the ones mentioned above shall be automatically regenerated. Note that Table 3 Automatically regenerated MML Commands on page 9 and Table 4 Automatically regenerated unix-style commands on page 10 are not complete.

 Table 3
 Automatically regenerated MML Commands

Commands
AC: ACGRI,ACTNI, ACPAC
AD: ADCOI, ADINI
AS: ASPAC
CD: CDCOI*, CDINI* (* = replaced, see section 4.3.5)
CH: CHCMI
EX: EXCCS,EXTEI
GD: GDNDI
GH: GHGMI, GHGRI
GP: GPAGI, GPGMI, GPGRI
IC: ICFUC, ICFUI, ICMWP
IS: ISEPI, ISFUI
KS: KSANI,KSCHC, KSEXI,KSFKC,KSMDI, KSADC
LC: LCDDI,LCLDI,LCOPI,LCTDI
NC: NCCOI, NCGMI, NCGRI,NCICI, NCNOI, NCSGI
OP: OPADC, OPCGS, OPCTS,OPERI, OPISS, OPRSC, OPSAI,OPNEI, OPCEI
PA: PAGII
RA: RACEI, RADSI, RAEQI, RAGAI, RAGMI, RAGPI, RAMDI, RADNI
RI: RIANI
RO: ROAPI, ROCAI, ROCDI, RODAI, RODDI, RODII, RODNI, ROEQI, RONDI, RORNI, ROVNI
SP: SPEXI
TR: TRDPI, TRRSI

Commands

VM: VMFUI, VMGEI,VMPOI

Table 4 Automatically regenerated unix-style commands

Commands
account_code_init
alarm_action
alarm_input
alarm_output
auth_code
board_config
callinfo_condcode_set
callinfo_mask_set, callinfo_output_set, callinfo_status_set, callinfo_qos_report_set
call_list
call_list_profile
csta
csta_authentication
dect_cfp, dect_extension, dect_rfp, dect_system_id
diversion
diversion_common
diversion_system
exchange_info
extension, extension_key*, extension_profile, extension_text, extension_registration_distribution * = extension_key cannot be automatically regenerated if extra key panels are used for Mitel 6800/6900 SIP phones.
external_directory
global_traffic_data
ip_domain
ip_extension
ip_gatekeeper
language_strings_override
media_gateway_config
media_gateway_interface
media_encryption_enable
media_server
media_server_message
name
number_conversion_initiate
number_initiate
number_data_initiate
parallel_ringing
pcm_config, pcm_synchronization
remote_extension

Commands		
route_data_common		
sip_domain		
sip_route		
sec_policy		
sms_server_initiate		
sms_client_initiate		
streaming_data		
traffic_matrix (new)		
trsp_synchronization, trsp_connection		
vacant_number		

4.2.6.3 Moved or removed commands and parameters

The following commands did exist in earlier version of MX-ONE, but have either been removed, or replaced by unix style dittos.

- DECT commands have been replaced to Unix-style commands replacing the CX commands as follows:
 - CXAKX: dect_extension
 - CXSYX: dect_system_id
 - CXCFP: dect_cfp
 - CXRFP: dect_rfp
- The CDCOx commands have been replaced by the Unix-style diversion_common commands. The SYTDS command has partly been replaced by the diversion_system command. Also PARNUM 121 from the ASPAx commands has been moved to diversion_system. The CDINx commands have been replaced by the diversion commands.
- NIINx commands have been replaced by the name commands.
- In the *extension* command the parameter --third-party-enhanced-services is replaced by --third-party-sip-client. There are also additional diversion related parameters in the *extension_profile* commands.
- In extension and extension_text command language parameter is replaced by language-code.
- Command csta_initiate has been replaced by csta, and csta_status has been removed.
- The command *EMFUI* in MD110/TSW is not supported in MX-ONE.
- The CPDLx- and ROELx-commands are replaced by the route_data_common commands.
- The FTxxx commands have been replaced by the failure_transfer commands.
- The SUDIx, SUSIx and SUVIx commands have been replaced by the resource status and vacant number commands.
- The SYDAS, SYIDI and SYTDS are replaced by the global_traffic_data commands.
- The *TCMAx*-commands are replaced by the *traffic_matrix* commands.

• The *license_migration* command has been removed (from version 7.0).

5 UPGRADE MANAGER APPLICATIONS TO MX-ONE 7.X

The Manager Applications require some special handling at upgrade, due to their separate databases. Note the name change of PM (former MP) and SNM (former MTS).

To upgrade Provisioning Manager and Service Node Manager, the following database backup procedure is required.

5.1 UPGRADE FROM 5.X TO 7.X

For Upgrade from 5.x to 7.x, follow the below procedure to take backups.

5.1.1 BACKUP SERVICE NODE MANAGER

To backup Service Node Manager database, follow the below procedure to take the backup:

- 1. Ensure that you are logged in as root.
- 2. Create a folder; for example, /home/eri_sn_admin/TSBackup/.
- 3. Change the permission to allow postgres to write in the folder, such as *chmod 757 /home/eri_sn_admin/TSBackup*.
- 4. Save all data of WBM database, and do the following:
 - a) Use the following command:

```
su postgres -c "pg_dump -a -d WBM -f
/home/eri sn admin/TSBackup/wbm data only.sql".
```

- b) Enter the password for the database if asked, which is by default MX-ONE 5.x.
- 5. Save all data of QoS Database and use the following command:

```
su postgres -c "pg_dump -U postgres QoS
-f/home/eri_sn_admin/TSBackup/QoS_entire_data.sql -C
--inserts".
```

- 6. Enter the password for the database, which is default in MX-ONE 5.x.
- 7. Copy the created files to an external media; for example, a USB memory or another safe location.

5.1.2 TEMPLATE DATA BACKUP

To backup templates, follow the below procedure:.

- 1. Ensure that you are logged in as root on the Manager Telephony System Server.
- 2. Use the following command to archive the templates.

```
"tar -cf customer.tar --direc-
tory=/opt/jboss/server/default/conf/templates customer".
```

3. Copy the *customer.tar* file to an external media; for example, USB memory.

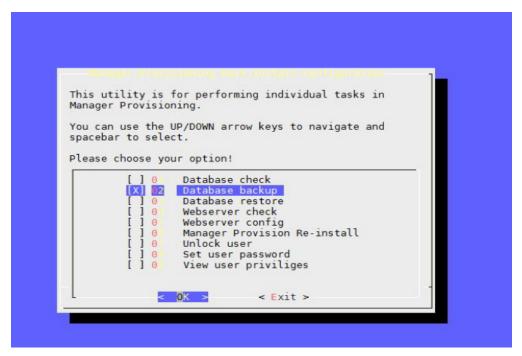
5.1.3 BACKUP PROVISIONING MANAGER

If Provisioning Manager and Service Node Manager are installed on the same server or on different servers, the data for Provisioning Manager must be saved. This is because, upgrading Service Node Manager clears the database that is used by Provisioning Manager.

In case of stand-alone system, taking backup from mp_config and backing up of template is sufficient.

To backup Provisioning Manager database in the MX-ONE 5.x/6.x, do the following:

- 1. Log on to the Provisioning Manager Server as root.
- 2. Create a folder in: /home/eri_sn_admin/TSBackup/ if it does not exist. Such as, mkdir -p /home/eri_sn_admin/TSBackup/.
- 3. Enter the command mp_config and select database backup.



- 4. Backup PM (former MP) database is stored in directory: /var/opt/eri_mp_config/ with a file name starting with mpManagerPostgresDump followed by date, rpm version and release details.
- 5. Save all data of Quartz Database using the following command:

```
su postgres -c pg_dump -a -d Quartz -f/
home/eri_sn_admin/TSBackup/Quartz_data_only.sql.
```

- 6. Enter the password for the database, which is default in MX-ONE 5.x.
- 7. Copy the created files (or the entire directory) to an external media; for example, a USB memory or another safe location.

5.1.4 TEMPLATE DATA BACKUP

To backup templates, follow the below procedure:.

1. Ensure that you are logged in as root on the Manager Telephony System Server. This is useful when the Provisioning Manager is in different server (standalone).

2. Use the following command to archive the templates.

```
"tar -cf customer.tar --direc-
tory=/opt/jboss/server/default/conf/templates customer".
```

3. Copy the *customer.tar* file to an external media; for example, USB memory.

5.2 UPGRADE FROM 6.X TO 7.X

For Upgrade from 6.x to 7.x, follow the below procedure to take backups.

Backup of PM and SNM in 6.x

The procedure remains same for standalone and collocated system. In case of standalone system, the command has to be executed once in standalone PM setup and once in SNM setup, and respective files should be used for restore.

Follow the below procedure:

- 1. Execute the *pm_snm_6.x_backup* script using below command, *sh pm_snm_6.x_backup*.
- 2. After the execution, the files get saved in /local/home/TSBackup.
- 3. Copy the *customer.tar* file to an external media; for example, USB memory.

To backup Provisioning Manager database in the MX-ONE 5.x/6.x, do the following:

- 1. Log on to the Provisioning Manager Server as root.
- 2. Create a folder in: /home/eri_sn_admin/TSBackup/ if it does not exist. Such as, mkdir -p /home/eri_sn_admin/TSBackup/.
- 3. Enter the command mp config and select database backup.



4. Backup PM (former MP) database is stored in directory: /var/opt/eri_mp_config/ with a file name starting with mpManagerPostgresDump followed by date, rpm version and release details.

5. Copy the created files (or the entire directory) to an external media; for example, a USB memory or another safe location.

5.3 RESTORE

5.3.1 RESTORE SERVICE NODE MANAGER

Note: Before executing this step, first take data backup of MX-ONE, and then restore MX-ONE data.

To restore **Service Node Manager**, do the following:

- 1. Log in the Service Node 1 as mxone_admin.
- 2. Create a folder named TSBackup in /local/home/mxone admin.
- 3. Copy the Manager Telephony System's data files (wbm_data_only.sql, QoS_entire_data.sql, customer.tar) to /local/home/mxone_admin /TSBackup Directory.
- 4. Provide the 755 permissions to these files (*chmod 755 <filename*>).
- 5. Enter the command sudo -H webserver_config.
- 6. Select K for Other Utilities.
- 7. Select **F** Migrating old version SNM Data (SNM DB,....) and follow the instructions.

5.3.2 RESTORE PROVISIONING MANAGER

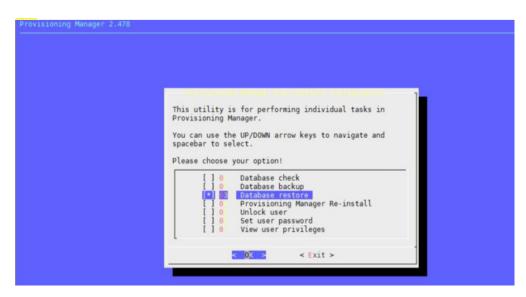
Note: Restore **Service Node Manager** before restoring **Provisioning Manager** in case of co-existence system.

To restore the backup in **Provisioning Manager**, do the following:

- 1. Copy the Manager Provisioning data files (mpManagerPostgresDumpxxxxxx, Quartz_data_only.sql, customer_mp.tar) files to /var/opt/mxone_pm_config/Directory.
- 2. Ensure that the files are owned by root user.

Note: If you do not have the folder in /var/opt/mxone_pm_config/. It is understood that Provisioning Manger is not installed on this server as it is not automatically installed like Service Node Manager.

Execute the command mp_config and select Database restore. The script takes
care of restoring PM, Quartz databases and Customer_mp.tar (Customer
template) data.



- 4. Remove the *Quartz_data_only.sql* and *customer_mp.tar from /var/opt/mxone_p-m_config* directory after data restore and restart.
- 5. Execute cd /var/opt/mxone_pm_config rm -f Quartz_data_only.sql custom-er_mp.tar.

6 UPDATE FROM MX-ONE 7.0 TO MX-ONE 7.X

When updating from MX-ONE 7.0 to 7.x, the SLES12/Linux operating system is the same, but a new Service Pack (for 7.0 SLES 12 SP3 is included) may be needed. See the installation instruction *UPGRADING AND UPDATING, GENERAL*.

You normally do not need data regeneration for updates, but the PC-Regen procedure can be used in case it is needed.

7 APPENDIX A, EXCEPTION CASES FOR PM AND SNM

The upgrade process of the MX-ONE Service Node does in normal circumstances not require any manual handling of configuration and/or data connected to Service Node Manager (SNM) or Provisioning Manager (PM). However, the process might be interrupted for some unexpected reason. This could for instance be a manual interaction or a power failure.

To enable the possibility to restore configuration and data after such failure you are advice to take the following steps before the upgrade process starts. In case of need for restoration, contact your service partner for advice.

7.1 SAVE DATA FOR SERVICE NODE MANAGER

For more detailed information, see the section **5.1.3** and **5.1.4** for 5.x systems and see the section **5.2.1** for 6.x systems.

7.2 SAVE DATA FOR PROVISIONING MANAGER

For more detailed information, see the section **5.1.3** and **5.1.4** for 5.x systems and see the section **5.2.1** for 6.x systems.