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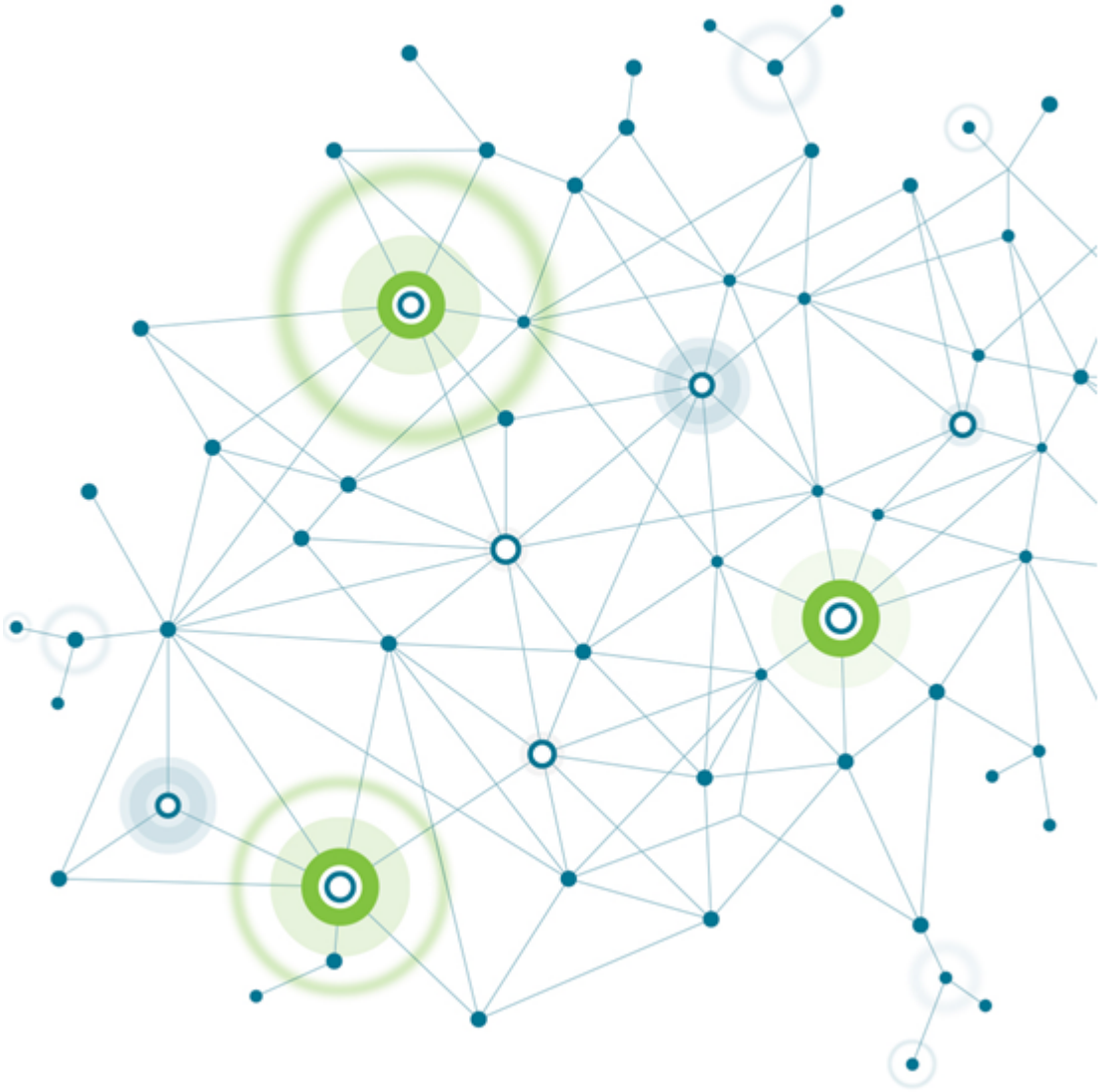
PrOptima Adaptor
Installation Guide



Contents

Revision Record

The following log shows revision history. Refer to the *Release Notes* for a detailed list of enhancements.

Table 1: Revision History Log

Date	Version	Description
Oct. 04, 2017	4.2/5.0	Hot Adaptor Deployment. Updated DeployVTI script usage.

Notices

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Important Information

MYCOM OSI guides use the following conventions.

- *Italic*: Italic indicates document titles and variables, such as filename, in computer input and output. It also indicates links to glossary terms.
- **Bold**: Bold identifies important words.
- `Courier`: Courier denotes computer input and output.
- [abc]: Square brackets enclose optional syntax for computer input.
- <TAB>: Angle brackets indicate actual keyboard keys, such as <ENTER> or <SPACE>.
- File | Save: A vertical bar separates menu options.
- Ctrl+X: means to press and hold the <CTRL> key while you press the <X> key.
- Alt+Y: means to press and hold the <ALT> key while you press the <Y> key.
-  **Note:** : A note gives readers special information about the product or procedure that is apart from the general discussion.

Introduction

In this guide

Introduction

Provides the contents of the document, its intended audience, and lists related documents.

Software Installation Preparation

Explains the preparation and pre-installation tasks of Adaptor Installation.

Software Installation

Explains how to install Adaptor, remove Adaptor package, perform post-installation tasks, check post installation, and install and configure SNMP.

Fall-Back (Optional)

Describes the fall-back procedure.

Adaptor Supplementary Information

Provides information on Multi-Release deployment, the DeployVTI.sh usage, and Fresh Install and Upgrade contexts.

Intended Audience

This document is intended for System Engineers (SEs) in-charge of installing, deploying and removing Adaptors.

Related Documentation

You need to refer to the following guides in order to use the NIMS PrOptima Adaptor Installation guide:

- Multi-Release Guide
- Adaptor Site Integration Guide

Software Installation Preparation

This chapter provides you with the basic knowledge you need to prepare the Adaptor installation:

Preparation

Prepare for installation by:

- *Checking Delivery Contents*
- *Checking Release Notes Contents*
- *Pre-requisites*

Checking Delivery Contents

Before you proceed, make sure you have the following items received as Adaptor deliverables:

- <Adaptor_Name>.pds and <Adaptor_Name>.rpm
- <Vendor_OMC>.pds and <Vendor_OMC>.rpm (for new vendor only)
- <Adaptor_Name>_Package.txt
- Functional Specifications - <Adaptor_Name>.pdf
- Technical Specifications - <Adaptor iar name>.pdf
- Release_Notes - <Adaptor_Name>.pdf
- Test Report - <Adaptor_Name>.xls
- README.docx (Optional)
- NIMS-PrOptima Adaptor Installation Guide (Optional)

Checking Release Notes Contents

Make sure the following sections are understood and described in the delivered Releases Notes containing Adaptor specific information:

- License name.
- Supported Releases - The NE release supported by the Adaptor.
- Flow Separation Support (yes/no).
- Default datasource properties setting (RootDir, etc...).
- Specific behavior and additional properties settings.
- Script(s) settings and execution procedure.
- Known issues.

Prerequisites

Before you start installing the Adaptor, ensure that:

- You have a formal approval from the customer before applying an Adaptor package on the test and live server. Also confirm that the customer has informed the user community and the downtime duration is communicated.
- Software installation also requires local customer specific change management procedures to be followed.
- The automatic system backup is successfully completed at the customer-site.
- The current installed Adaptor build version of each package of the Adaptor package is available on the server. Check the actual build version in the ICM, that is needed for the fall-back procedure.
- L2 Support has provided you new/updated license file.
- You have a full software package available (see *Checking Delivery Contents* on page 7)
- The system is healthy before any installation takes place:
    - Check the ETL logs and ascertain that the queues are empty and no large queues are detected,

  - For upgrades, run available data availability reports prior to installing the upgrade to ascertain the current system is importing data,
  - Check that the implicated file system occupancy does not exceed 75% or has at least 300 GB. If the occupancy is higher, raise with L3 Support prior to the installation.
  - Run the automated preview script (PreviewICM.sh for VTT) before the installation. This output can be used to compare preview results pre and post installation.
- The expected flat files retention periods are known.
- You have requested and scheduled L3 Support for installations where necessary.
- You know the root and Mycom password before installation.
- Southbound connectivity details are known before installation e.g. file transfer protocol, remote IP addresses, Ports, User name, Password, Ports.

Pre-Installation Procedure

Perform pre-installation tasks as follows:

1. *Download* software packages.
2. Backup *Property directory*.
3. Backup *license file*.
4. Backup *CRON*.
5. *Update Licenses*.

Downloading Software Packages

1. Perform the following command line to create the delivery folder

   ```
   su – mycom
   mkdir -p /opt/mycom/data/software_delivered/<DATE>
   ```

   where DATE is the date of today in format YYYYMMDD

   ```
   mkdir -p /opt/mycom/data/software_delivered/<DATE>/backup
   chmod -R g+w /opt/mycom/data/software_delivered/<DATE>/backup
   ```
2. Download the Adaptor packages and the <CUSTOMER>_Packages.txt file from the delivery location to the folder

   ```
   /opt/mycom/data/software_delivered/<DATE>
   ```
3. Check the checksum of the packages according to the content of <CUSTOMER>_Packages.txt file by executing cksum and comparing the output with the <CUSTOMER>_Packages.txt file.

Backing up Property Directory

Create a backup of a set of directories to prevent a fall-back. Backup the following files:

- /opt/mycom/config/deployed_interfaces
- /opt/mycom/config/interfaces
- /opt/mycom/config/metadata
- /opt/mycom/config/server/res
- /opt/mycom/jar
- /opt/mycom/shell
- /opt/mycom/data/metadata

For each directory, run the command as follows:

```
cd /opt/mycom/data/software_delivered/<DATE>/backup
```

```
tar cf - /opt/mycom/config/server/res | gzip -cf > config.server.res.tgz
```

```
tar cf - /opt/mycom/config/deployed_interfaces | gzip -cf >
 config.deployed_interfaces.tgz
```

```
tar cf - /opt/mycom/config/interfaces | gzip -cf > config.interfaces.tgz
tar cf - /opt/mycom/config/metadata | gzip -cf > config.metadata.tgz
tar cf - /opt/mycom/data/metadata | gzip -cf > data.metadata.tgz
tar cf - /opt/mycom/shell | gzip -cf > shell.tgz
tar cf - /opt/mycom/jar | gzip -cf > jar-files.tgz
```

Backing up License File

Enter the following commands to create a backup of the existing lic.cry:

```
su - mycom
cd /opt/mycom/exe
cp lic.cry /opt/mycom/data/software_delivered/<DATE>_<adaptor_name>/backup/
lic.cry.back
```

Backing up CRON

Create a backup of the Mycom user CRON as follows:

```
su - mycom
```

```
crontab -l > /opt/mycom/data/software_delivered/<DATE>/backup/
mycom_crontab.back
```

Updating Licenses

Before you deploy any new adaptor, you must send an email to *PrOptimaLicense* to request for the specific adaptor to update the lic.cry.

In your email, specify the two following information:

- Current lic.cry
- Release Notes

1. Put the new lic.cry file at the following location:

   ```
   /opt/mycom/data/software_delivered/<DATE>_<adaptor_name>
   ```

2. Copy the new license file to the exe directory:

   ```
   cd /opt/mycom/data/software_delivered/<DATE>_<adaptor_name>
   cp lic.cry /opt/mycom/exe/lic.cry
   ```

Software Installation

This chapter provides you with the following basics needed to install and remove an Adaptor.

You must understand the customer environment and decide on your deployment strategy (deploy and/or remove) before you proceed. There are three deployment strategies:

- **Standalone Deployment** - Adaptor has its own raw data directory and parses all files/records without any filtering.
- **Advanced Standalone Deployment** - Raw data from several Releases are mixed (same directory or even same file). Adaptor is configured to support new releases while running simultaneously with previously installed Adaptor.
- **Superset Deployment** - Raw data from several releases are mixed (same directory or even same file). Adaptor is configured to support more than one release while removing previously installed Adaptor.

  The decision to choose one of the Deployment Modes can be impacted by the "Flow Separation" and "Supported Release(s)" nature of the adaptor. So, you must read and understand the Release Notes.

  Here are some deployment examples:

Table 2: Adaptor Deployment Examples

Type	Examples
Standalone Deployment	No previous installation of the Adaptor remove is found in the Customer environment. Deploy the Adaptor directly since there is no previous version to remove. This Deployment strategy is suitable when the Adaptor does not support Flow Separation as all files/ records aree parsed without any filtering.
Advanced Standalone Deployment	A previous installation of the Adaptor supporting an NE release that is not in the new Adaptor package is found in the Customer environment. Deploy the new Adaptor without removing the previous version and configure the Adaptor you want to deploy to support new releases.
Superset Deployment	A previous installation of the Adaptor is found in the Customer environment supporting an NE release that is included in the new Adaptor package. Deploy the new Adaptor and configure the Multi-Release related properties of the new Adaptor. For details on how to configure supported NE Release(s), refer to the Multi-Release Guide. Read the Installation Procedure.doc for more detailed upgrade path if it is enclosed in the Delivery Content package (see *Checking Delivery Contents* on page 7).

Note: No processes are not stopped during the adaptor deployment. You can use PrOptima Clients while adaptors are being deployed.

The installation process involves folowing tasks:

1. *Install* adaptor.
2. *Remove* a previous adaptor package.
3. Perform *post-installation procedure*.
4. Perform *post-installation checks*.

5. *Install and Configure SNMP*.

Installing an Adaptor

Install adaptor in the following ways:

- *Dry-Run Deployment*
- *Commit Deployment*

Dry-Run Deployment

1. Perform the following command to install the Adaptor Package:

```
su -
cd /opt/mycom/data/software_delivered/<DATE>
```

   - On Linux Platform:

```
rpm –ivh --replacefiles <adaptor_name_package>.rpm
```

   - On Solaris platform (SPARC and x86):

```
pkgadd –d <adaptor_name_package>.pds
```

2. Deploy the Adaptor in Dry Run mode.

```
su - mycom
cd /opt/mycom/shell/database
nohup ./DeployVTI.sh -l <adaptor_name> &
```

   Note: Perform the nohup command to prevent the execution being terminated via unintentional logout.

   To deploy an Adaptor and at the same time undeploy a previous version, enter the following command:

```
su - mycom
cd /opt/mycom/shell/database
nohup ./DeployVTI.sh -r <previous_adaptor_name> -l <new_adaptor_name> &
```

   This can happen when the new Adaptor supports NR12, NR13 while a previous Adaptor also supports NR12 and you want to remove the previous Adaptor.

   Make sure there are no errors or warnings, and the following message is displayed:

```
"Deploy in dry run mode of Adaptor <adaptor_name> has been done
 SUCCESSFULLY!"
```

3. If the deployment in dry run mode fails, collect the deploy logs under the following directory and raise an issue for analysis.

```
/opt/mycom/logs/database/DeployVTI.<date>.log
```

4. Continue the installation only if the deployment in dry run mode is successful.

Commit Deployment

The following steps explains the commit deployment procedure:

1. Ensure that you have updated your licenses.

   See *Updating Licenses* on page 9 for more information.

2. Deploy the Adaptor in commit mode.

```
su - mycom
cd /opt/mycom/shell/database
nohup ./DeployVTI.sh -l <adaptor_name> -mCOMMIT &
```

   To deploy an Adaptor and at the same time undeploy a previous version, enter the following command:

```
su - mycom
cd /opt/mycom/shell/database
nohup ./DeployVTI.sh -r <previousAdaptorName> -l <newAdaptorName> -mCOMMIT &
```

This can happen when the new Adaptor supports NR12, NR13 while a previous Adaptor also supports NR12 and you want to remove the previous Adaptor.

Make sure there are no errors or warnings, and the following message is displayed:

```
"The Adaptor : <adaptor_name> has been deployed and COMMITTED SUCCESSFULLY!"
```

Note: If one of the above post-commit tests fails, collect the logs under the following location and and contact L3 Support to raise an issue for analysis.

```
/opt/mycom/logs/database/DeployVTI.<date>.log
```

Removing an Adaptor Package

You need to remove an Adaptor Package in the any of the following two cases:

- Version update (e.g. from version 03.01.01 to 03.01.02), you need to remove an old version before installing new version,
- Adaptor undeployed, after performing a superset upgrade, you remove the old adaptor package.

To remove an Adaptor package, enter the following command:

```
su -
```

- On Linux Platform:

  ```
  rpm –e <adaptor_name_package>
  ```
- On Solaris platform (SPARC and x86):

  ```
  pkgrm <adaptor_name_package>
  ```

Performing Post-Installation Procedure

Perform post-installation procedure as follows:

Configuring Adaptor Optional Parameters

The Release Notes define a set of default properties as well as optional properties. Default properties are also found in

```
/opt/mycom/deployed_interfaces/<adaptor_name>.properties
```

Each default property comes with an optional properties that can be added to on-site datasource properties file. Make sure you understand what each property does and configures accordingly.

For example:

These two properties are used to control the destination cell name extraction method. Option 2 uses the specific method to extract the destination cell name.

- Option 1:

  ```
  huaw_enodeb_xmlxml_nr5.Specific.DestinationCellName={[eNodeBNE.eNode-
   BEUtranIntraFreqNCell.name[eNodeB%20identity]]-
  [eNodeBNE.eNodeBEUtranIntraFreqNCell. name[Cell%20identity]]@!
  LinkKey.eNodeB.eNodeBId.eCe ll-eCell.id!,!eCell.name.Cell%20Name!}
  ```
- Option 2:

```
huaw_enodeb_xmlxml_nr5.Specific.DestinationCellName=[eNodeBNE.eNode-
 BEUtranIntraFreqNCell.Specific_CellName]
```

Configure the optional property by adding it to the file path below:

- For standalone:

```
/opt/mycom/config/server/res/<on-site_datasource_properties_file>
```

- For Federation:

```
/opt/mycom/config/server/res/xlgeo-shared/datasource.<hostname>.properties
 [for a specific Application Server]
```

```
/opt/mycom/config/server/res/xlgeo-shared/datasource.global.properties [for
 all Application Servers]
```

The README.docx enclosed in the delivery package can also contain additional properties settings. Read carefully and follow the instructions provided in the README.docx.

Checking NE Release Version Settings

- Check the Supported Release(s) required for the Adaptor defined in Release Notes.
- Ensure all the NE version(s) of your raw data are included in the default settings or add them manully to on-site datasource properties file:

```
<Datasource>.AcceptedReleases=<neVersion>
```

Example:

```
cd /opt/mycom/config/server/res
vi <on-site_datasource_properties_file>
DS.huaw_bsc_xmlxml_nr14sr.CM.AcceptedReleases=R014ENGC00SPH512,R012ENGC01SPH522,
 R014ENGC00SPC520
DS.huaw_bsc_xmlxml_nr14sr.PM.AcceptedReleases=R014ENGC00SPH512,R012ENGC01SPH522,
 R014ENGC00SPC520
```

Modifying Data Path/ Root Dir Settings

For Data path (RootDir) settings, read Technical Specifications or see *Checking Release Notes Contents* on page 7 for default data path.

If you need to manually modify the data path, perform the following command:

```
<Datasource>.RootDir=<data_path>
```

Example:

```
DS.ercs_bss_asn1_ng13b.PM1.RootDir=$(DataDir)/ericsson/bss/asn1_ng13b/ pm1/
```

Note: Do not use any "Symbolic Link" while setting up the data path. If it is forced to set in the specification, escalate for further confirmation.

About Data Mediation Script Parametrization

This section is applicable only if the Release Notes specify the usage of a specific data mediation script. The Mediation scripts are deployed in the following folder:

```
/opt/mycom/shell/deployed_interfaces
```

Example 1:

The adaptor huaw_bsc_xmlxml_nr14sr is delivered with Datasource changing script deployed on:

```
/opt/mycom/shell/deployed_interfaces/huaw_bsc_xmlxml_nr14sr
```

Follow the instructions in Release Notes, depending on the customer's request to decide which datasource NE Neigh comes from.

```
Change_Neigh_from_CM.sql
```

Note: Only executed if Neigh is from CM.

Example 2:

The adaptor huaw_bsc_xmlxml_nr14sr is delivered with Calculation palette migration script deployed on:

```
/opt/mycom/shell/deployed_interfaces/huaw_bsc_xmlxml_nr14sr
```

Follow the instructions in Release Notes to execute the following SQL script to move the calculation palette from R13 to R14.

1. _CREATE_BACKUP_Calculations_from_R13.sql
2. _Script_to_Migrate_the_Calculations_from_R13_to_R14.sql
3. _RESTORE_Calculations_from_R13.sql

   Note: Only executed when fallback is needed.

4. _Delete_Duplicate_Root_Folders.sql

   Note: Only executed if root folder is duplicated.

   While executing SQL commands, use "sqlplus proptima/proptima" on a Standalone server or use "sqlplus federation/proptima" on a Federal server.

About Granularity Settings

The following steps explains the granularity settings:

- Make sure that the counter group granularity settings for the Adaptor comply with the Solution Specification. The counter group granularity must change from the Adaptor default settings when required, as described within the *Adaptor Site Integration Guide*.
- Use mdpp.site.bsh to implement the granularity change and create or add statements to the default MDPP file setting located under

  ```
  /opt/mycom/shell/database/dataadmin.conf
  ```

  which is

  ```
  customizeMDFile=/opt/mycom/shell/database/metadata-customization.bsh
  ```
- You can customize it in dataadmin.site.conf, for example:

  ```
  customizeMDFile=/opt/mycom/shell/database/mdpp.site.bsh
  ```
- Add the necessary mdpp script before adaptor deployment or re-deploy the adaptor to make the change valid.

Example 1:

Changing counter granularity for all counter groups:

```
ChangeGranularity( "'DS.huaw_bsc_xml3gpp_nr11.Huawei_BSS_R11_Perf'", 60 );
```

Example 2:

Changing counter granularity for one particular counter group:

```
ChangeGranularity( "'DS.huaw_bsc_xml3gpp_nr11.Huawei_BSS_R11_Perf'.'<Counter
 Entity Name>'", 15);
```

For additional details, refer to the *Adaptor Site Integration Guide* document as reference. The document is available at:

http://intranet.mycom-int.com/vti-development/Guide/Users'%20Manuals/VTI-Site-Integration-Guide-v1.00.pdf

Performing Post-Installation Checks

Perform post-installation checks as follows:

1. Restart DAIE processes once the customization is complete.

```
/opt/mycom/shell/mycomdaie.sh restart
```

Note: Make sure all processes are UP before you restart DAIE process.

2. Launch the PrOptima client (from Server, JavaWebStart and/or from Citrix) and the User Manager to check that client applications can be launched.
3. Use the ICM to check some selection of NE previews to ensure that there has been no change in the import key structure.

If any one of the above post-commit tests fails, abort the installation and contact L3 Support. Otherwise continue with the following check sequence:

1. Create a report to check configuration and performance data are coming in for the delivered interface.
2. Check the disk space two hours after installation and process restart.
3. Check the JMX.sh queues two hours after installation to ensure they are not blocking.
4. Check the data availability reports two hours after installation.
5. Let the system run and enable a configuration update.
6. Complete the VTI Browser tool after the customer live install of the VTI.
7. Check the system the day after the live install on disk space, ETL logs for the VTI, data availability, and scheduled reports.

   If any one of the above post-commit tests fails, abort the installation and contact L3 Support.

Installing and Configuring SNMP (DPG/LIB)

Downloading Software Packages

1. Create delivery folder:

```
su – mycom
mkdir -p /opt/mycom/data/software_delivered/<PACKAGE>/<DATE>
mkdir -p  /opt/mycom/data/software_delivered/<PACKAGE>/<DATE>/backup
chmod -R g+w /opt/mycom/data/software_delivered<PACKAGE>/<DATE>/backup
```

Note: DATE indicate the present day in format YYYYMMDD

2. Download the delivered packages from the delivery location to the folder:

```
/opt/mycom/data/software_delivered/<PACKAGE>/<DATE>
```

3. Check the checksum of the packages according to *Software Installation Preparation* on page 7.

Installing SNMP Library Package

1. Perform the following commands:

```
su -
cd /opt/mycom/data/software_delivered/<PACKAGE>/<DATE>
```

   - On Solaris platform (SPARC and x86):

```
pkgrm <SNMP_Lib_name_package>
pkgadd -d <SNMP_Lib_name_package>.pds
```

   - On Redhat:

```
rpm -ivh --force <SNMP_Lib_name_package>.rpm
```

2. Repeat for all the packages delivered.

Updating License

For updating licence, follow the below mentioned steps:

1. Refer to the Release_Note to request license for Libraries.
   - The DPs of DPG need to be provided a license as well.
   - All the License names (include DPs) can be found in in Release Notes.
2. Backup the existing lic.cry

```
su - mycom
cd /opt/mycom/exe
cp lic.cry /opt/mycom/data/software_delivered/<DATE>/backup/lic.cry.back
```

3. Update the NIMS-PrOptima license file (lic.cry):

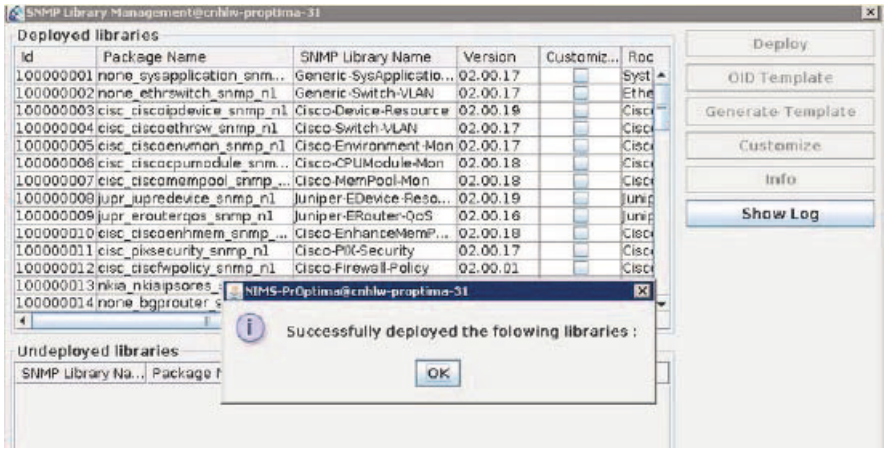
```
su - mycom
cp lic.cry /opt/mycom/exe/lic.cry
```

Deploying the SNMP Library

1. Launch the Import Control Manager (ICM) application.
2. Go to **SNMP Mediation** | **SNMP Library Management**.

   The SNMP Library Management window is displayed.
3. Select the libraries to be deployed in **Undeployed libraries** zone.
4. Click **Deploy**.
5. The DeployVTI.sh process is executed in the background with the current progress shown in the status bar.

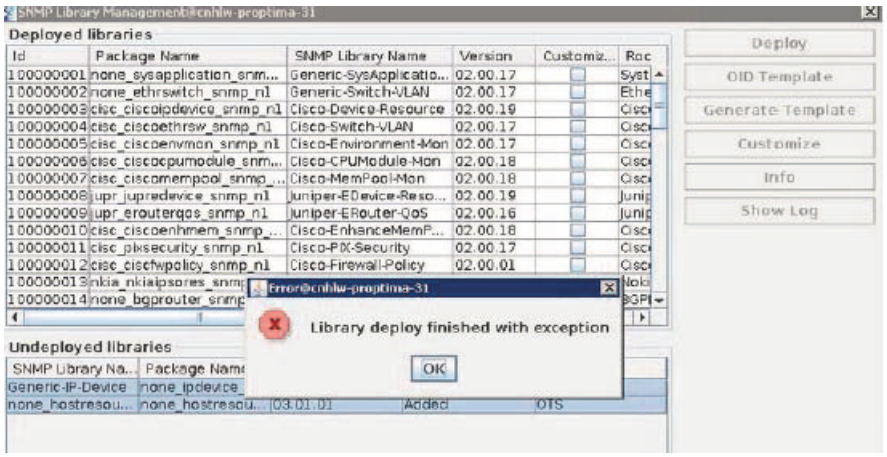
   The new libraries are displayed in the **Deployed libraries** zone.



6. Close the SNMP Library Management window.

Note: If the SNMP LIB upgrade fails (For example, 03 to 07), then there is no need to rollback 07 since it will rollback automatically by kernel and 03 can still correctly import datay.

Note: If LIB deployment fails, it shows message as ‘Library deploy finished with exception’.



Check the following logs for 'ERROR', or attach the logs on PR ticket:

```
/opt/mycom/logs/database/DeployVTI.log
/opt/mycom/logs/ImportControlManager.log
/opt/mycom/logs/ServerMA.log
```

Deploying the DPG

The following steps explains the DPG deployment:

1. Launch the ICM application.
2. Click **SNMP Mediation** | **Device Platform Management**.

   The Device Platform Management window is displayed.
3. Select **New / Update Device Platforms** tab.
4. Select the device platform group to deploy.
5. Click **Deploy**.
6. The DeployVTI.sh process is executed in the background with the current progress shown in the status bar.

   The new DPG including DPs are added to the **Deployed** tab.
7. Close the Device Platform Management window.

Creating On-Site DP (If Needed)

The following steps explains the creation of on-site DP:

1. Launch the ICM application with account «MSM».
2. Click **SNMP Mediation** | **Device Platform Management**.
3. Click **Create**.
4. Select vendor and fill in the device platform name.
5. Add the library you want to test.

   Note: All needed libraries are added automatically.
6. Add device model with the SysObjectID of the devices and make it checked.
7. Click **Create**.
8. Deploy the created DP.

Fall-Back (Optional)

This chapter describes the fall-back procedure.

Installing Pre-Commit Fall-Back

Note: If the deployment in dry run mode fails, abort the installation.

1. Uninstall the new package to add back the original license file:

```
su -
```

- On Linux Platform:

```
rpm -e <new_Plugin_name_package>
```

- On Solaris platform

```
pkgrm <Plugin_name_package>
```

No further fall-back actions are required as the processes are still running.

About Post-Commit Install Fall-Back

This section explains the post-commit install fall-back. The following steps to be followed:

1. Make sure all the processes are stopped.
2. If you have L3 Support scheduled to be available, contact L3 Support before starting the fall-back.
3. There are several possible actions depending on different scenarios if the adaptor:
   - Is committed, but not working as expected.
   - Causes platform instability (This can be detected during the post-installation check. See *Performing Post-Installation Checks* on page 15).

   Refer to the table below to see solutions for these scenarios.

   Note: : There is no mechanism to undeploy an adaptor already installed and used. Thus, only a new adaptor which has been deployed but not used yet (with no data imported on) could be undeployed with DeployVTI.

   The DeployVTI consists of mixing the metadata of all the adaptors in the database. In superset upgrade, the adaptor to upgrade could be considered as a new adaptor.

Table 3: Scenarios of Post-Commit Install Fall-Back

Scenario	Solution if no data have been imported on the new installed adaptor	Solution if data have been imported on the new installed adaptor
Adaptor version update Example: From 03.00.05 to 03.00.15		Restart DAIE processes: `/opt/mycom/shell/mycomdaie.sh restart`
Adaptor superset upgrade	Rollback to the previous adaptor Example: ercs_bss_n10	Restart DAIE processes:

Scenario	Solution if no data have been imported on the new installed adaptor	Solution if data have been imported on the new installed adaptor

Example: from ercs_bss_n10 to ercs_bss_n11	To rollback to the previous adaptor:
	1. Undeploy without commit:
	`/opt/mycom/shell/ database/DeployVTI.sh -r <AdaptorName>`
	2. If previous has been successful:
	`/opt/mycom/shell/ database/DeployVTI.sh -r <AdaptorName> --COMMIT`
		`/opt/mycom/shell/ mycomdaie.sh restart`

Adaptor standalone upgrade Example: from ercs_bss_n10 to ercs_bss_n10+ercs_bss_n11		Restart DAIE processes: `/opt/mycom/shell/ mycomdaie.sh restart`

- After performing the steps in the table above, to restore from backup, contact support (L2 and/or L3 support).
- The instability caused by the adaptor may be on Oracle side. This can be verified with Oracle process down and/or ORA-XXX in DAIE logs. In this case, restart processes, including Oracle.

  If the system still remain unstable, contact support (L2 and/or L3 support).

Adaptor Supplementary Information

This guide provides you with information about Multi-Release deployment, the DeployVTI.sh usage, and Fresh Install and Upgrade contexts.

Understanding Multi-Release Deployment

Refer to the Multi-Release Guide

About DeployVTI.sh Script Usage

Usage Manual

Command	Definition
DeployVTI.sh	Displays the status of all the installed Adaptors.
DeployVTI.sh -h	Displays the help.
DeployVTI.sh -l kernel_metadata	Deploys in dry-run mode the kernel metadata.
DeployVTI.sh -l <Adaptorname1>,<AdaptorName2>,<AdaptorName3>	Deploys the specified Adaptor list in dry-run mode, without commit.
DeployVTI.sh -l ALL	Deploys all the Adaptors which are not deployed yet in dry-run mode, without commit.
DeployVTI.sh -r <Adaptorname>	Removes the specified Adaptor in dry-run mode, without commit).
DeployVTI.sh -r <Adaptorname1> -l <AdaptorName2>	Upgrades the *Adaptorname1* to *AdaptorName2*, removes *Adaptorname1* and loads *AdaptorName2*, in dry-run mode, without commit. *Adaptorname1* and *Adaptorname2* must have the same range id and different names.
DeployVTI.sh --snmplib -l <libraryName1>, <libraryName2>	Deploys the specified SNMP list in dry-run mode, without commit.

- Options:

  -mCOMMIT : to commit the requested deployment or remove if the dry-run success.

  -a : to perform an auto-sort of the given list using the basic rules: base > mycm > omc > cm > others.

  -f : to avoid stopping the processing at the first failure.

  Example:

  1. Deploy a new VTI: nrtl_utran_xml3gpp_ov4.1:

     ```
     DeployVTI.sh -l nrtl_utran_xml3gpp_ov4.1 -mCOMMIT
     ```

  2. Update an already deployed VTI: nrtl_utran_xml3gpp_ov4.1: (update from [01.00.05] to a new release [01.00.08])

```
DeployVTI.sh -l nrtl_utran_xml3gpp_ov4.1 -mCOMMIT
```

3. Upgrade the VTI: nrtl_utran_xml3gpp_ov4.1 to nrtl_utran_xml3gpp_ov5.0:

```
DeployVTI.sh -r nrtl_utran_xml3gpp_ov4.1 -l nrtl_utran_xml3gpp_ov5.0 -
 mCOMMIT
```

4. Deploy none_ipdevice_snmp_n1 SNMP library with commit.

```
DeployVTI.sh --snmplib -l none_ipdevice_snmp_n1 -mCOMMIT
```

About Fresh Install Context

The DeployVTI.sh detects the fresh install when the following folders do not exist:

```
<JAR_DIR>/deployed_interfaces
<CONFIG_DIR>/deployed_interfaces
```

And the folder <DATADIR>/metadata/archive does not contain a committed metadata.

In this case the DeployVTI.sh script creates the following empty folders:

```
<JAR_DIR>/deployed_interfaces
<CONFIG_DIR>/deployed_interfaces
<SHELL_DIR>/deployed_interfaces
```

About Kernel Upgrade Context

The DeployVTI.sh detects the upgrade when the folders <JAR_DIR>/deployed_interfaces and <CONFIG_DIR>/ deployed_interfaces do not exist and the folder <DATADIR>/metadata/archive contains a committed metadata.

In this case the DeployVTI.sh assumes that all the installed Adaptors are deployed and creates the following folders:

- <JAR_DIR>/deployed_interfaces with the content of the folder <JAR_DIR>/interfaces
- <CONFIG_DIR>/deployed_interfaces with the content of the folder <CONFIG_DIR>/ interfaces
- <SHELL_DIR>/deployed_interfaces with the VTI folders found in <SHELL_DIR>
- A committed archive folder for each Adaptor,
- And adds the Adaptors information in the vti_inventory table within the PROPTIMA database.

Glossary

The following terms are used in the NIMS PrOptima Adaptor Installation guide:

Table 4: Glossary

Term	Definition
DAIE	Dynamically Adaptive Importation Engine
DPG	Device Platform Group
ICM	Import Control Manager
SNMP	Simple Network Management Protocol