WebNMS

Framework 5

Trimming WebNMS

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Introduction

Web NMS is a framework that provides high degree of customization. It provides resources required for components like TL1, SNMP,etc. When Web NMS is customized, it is not mandatory to use all the components. It would be sufficient to utilize only the component resources that are required and other component resources can be discarded. The aim of this set of documents is to guide the unplugging of undesired components in a professional manner.

Removal of any components in Web NMS may require changes in the following areas

- **Configuration Files** - Configuration files contain information related to the various components in Web NMS. Removing a component may require removing entries that are specific to that component or removing the configuration file if it is specific to the component.

  Important configuration files that may be affected

  - **NmsProcessesBE.conf** - Process entries related to the component should be removed so that the processes related to the component are not started in the Back end Server.

  - **NmsProcessesFE.conf** - Process entries related to the component should be removed so that the processes related to the component are not started in the Front end Server.

  - **DatabaseSchema.conf** - Table creation entries related to the component, if present, should be removed so that these component specific tables are not created.

  - **NmsPanels.conf -** Panel entries related to the component should be removed so that these component specific panels are not created in the Client.

  - **launcher_conf.txt** - Entries related to the component should be removed so that the component cannot be invoked using the Launcher.

- Script Files - Removing a component will require some script file entries like classpath entries to be removed or it may require the whole script file itself to be removed, if it is component specific.

- Source Files - Removing a component will require the removal of related source files like .java,.jsp and servlets.

- Directories, Files and Jars - Removing a component will require the component specific directories, files and jars to be removed.

Apart from the above mentioned categories there are other general purpose directories, files and jars that can be removed, if not utilized.

Instruction Format

The instructions for unplugging components are tabulated in two formats : the first format deals with Directory/Jars/Files removal and the second format deals with the modifications that need to be performed. The following sample explains the table formats. The columns which are not required are omitted, where required.

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Table for Directory/Jar/Files removal :

Path	Name of Component
Gives the exact directory structure in the product where the file,directory or jar can be found.	*Gives the name of the Directory/Jar/File*

Table for Modifications :

Path	Name of Component	Remarks	Snippet to be removed/modified
Gives the exact directory structure in the product where the file,directory or jar can be found.	*Gives the name of the Directory/Jar/File*	*Gives description about the instruction/ usage of component*	*Gives the exact entries to be removed from files and in cases of modification gives the changes to be performed*

Here, component can be a directory, a file or a jar and removing the component refers to the removal of the corresponding directory, jar or file referred to.

Procedure for Unplugging components

The following are the links to the documents providing instructions to unplug components from Web NMS.

- Directories and Jars
- Protocols
    - o CLI -Telnet
    - o CORBA
    - o TL1
- Services
    - o Backup
    - o Configuration
    - o JMX
    - o Policy
    - o Provisioning
    - o TFTP
- Themes
- Standalone Tools
    - o Studio
    - o Update Manager
- Third Party Software - MySQL, JRE
- HTML UI
- Java UI

General Points to be Remembered

	Note :
	1. Most of the components will have example implementations, with provisions to integrate the examples with Web NMS, present in the product. If you wish to unplug any component, please make sure that the corresponding examples are not integrated with Web NMS.
	2. As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

	Note :
	• Please reinitialize the database and restart Web NMS for changes to take effect
	• While editing the DatabaseSchema.conf file make sure that no extra spaces or lines are introduced
	• Remove or rename the launcher.config file if any changes are made to launcher_conf.txt file present in <Web NMS Home>/conf directory

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Unplugging Directories, Jars and Files

Introduction

During Deployment, the user may want to remove directories and jars that are not required for Deployment and beyond. The following list is consolidation of Directories and Jars that can be removed. The following tables list the directories and jars, the path in which they are present in the product and a brief description of the directory/jar usage.

- Directories
- Jars
- Files

	Note :
	As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

Procedure to remove Directories and Jars

1. Directories

Path	Name of Directory	Remarks
<Web NMS Home>	• _uninst	This directory is used by Web NMS for installation - un-installation process. If the default process is not used it can be removed from Deployment build.
	ancillary	Contains localized files which are read during Web NMS installation. Can be removed at the time of deployment.
	default_impl	Contains source files of default implementations.
	examples	Contains code samples accompanied by Readmes to explain them
	genTrap	Contains tool for generating traps. Usually used in development environment.
	help	This directory contains all the Help documentation and if the Help documents are not necessary, this directory can be removed. The corresponding entries in **<Web NMS Home>/conf/help.conf file** should be removed - all entries can be removed if the entire help directory is being removed. **Note :** There are dependencies between documents in help directory and the product, Context Sensitive Help links will not be displayed if documents are removed from this folder.
	projects	Contains example implementations for Bean Builder projects
	servlets	Contains source files of servlet used by Web NMS
<Web NMS Home>/conf	examples	Contains example implementation for configuration files
	MSSQL	Contains MSSQL database specific configuration files
	MySQL	Contains MySQL database specific configuration files

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Path	Name of Directory	Remarks
	Oracle	Contains Oracle database specific configuration files
	PostgreSQL	Contains PostgreSQL database specific configuration files
	sybase	Contains sybase database specific configuration files
<Web NMS Home>/ WEB-INF	jsp	Contains source files for jsp, java

2. Jars

Path	Name of Jar	Remarks	Things to do
<Web NMS Home>/classes	bsh-1.2b3.jar	Used by Provisioning and CLI/Telnet. If both these services are not required, this jar can be removed along with the components.	• In **<Web NMS Home>/setEnv.bat/sh**, remove the entry o **Windows :** %NMS_CLASSES%\bsh-1.2b3.jar o **Linux :** $NMS_CLASSES/bsh-1.2b3.jar • In **<Web NMS Home>/conf/launcher_conf.txt,** remove the following entry o ./classes/bsh-1.2b3.jar; (2 occurances) • In **<Web NMS Home>/**conf/wrapper.conf, remove the following entry o classes/bsh-1.2b3.jar **Note :** The directories and JARs are configured serially numbered starting from 1. The path should configured with respect to *<Web NMS Home>* directory. Example: wrapper.java.classpath.**55**=classes/test1.jar //Points **<NMS_Home>/classes/test1.jar** wrapper.java.classpath.**56**=classes/test2.jar //Points **<NMS_Home>/classes/test2.jar** This should be noted every time, you edit the wrapper.conf file.

3. Files

Path	Name of File	Remarks
<Web NMS Home>/classes	• SLA-AdventNet.pdf • LICENSE_JETTY.html • License-RI.html • License-W3C.html • LICENSE_ASF.txt • LICENSE_BSH.txt • LICENSE_COMM.txt • LICENSE_FTP.txt • LICENSE_JCVS.txt • LICENSE_JIMI.txt	Licensing related files

Path	Name of File	Remarks
	• LICENSE_JNLP.txt • LICENSE_jta.txt • LICENSE_openorb.txt • LICENSE_openorb-1.2.0.txt • LICENSE_PYTHON.txt • LICENSE_XML.txt	
<Web NMS Home>/images	• associatetaskwiz.png • associatedevicewiz.png • deviceslistwiz.png • executetask.png • printerfoto.png • ntwkdbmain.png • routermap2.png • screen2.png	Images that are provided as alternatives to default images, can be removed if default images are used.
<Web NMS Home>/mibs	• CISCO-MIB • RFC1215-TRAP • RFC1315-MIB • RFC1271-MIB	MIB related files
<Web NMS Home>/html	• EnglishToNativeComplete.properties	Can be removed if Internationalization is not needed

	Note : Any Jar files in <WebNMS Home>/classes/hbnlib directory **should not be removed**.

Unplugging CLI and Telnet Service

Introduction

In Web NMS, provision has been added to communicate to devices that support telnet using CLI API. The CLI APIs are a set of java libraries that enables you to build applications, to manage network devices that support a command line based interface (CLI) for management. Devices that support telnet can now be communicated using Web NMS Java or Web NMS Application Client. Web NMS Client contacts the Telnet application, using CLI API. The Telnet application in turn communicates to the device supporting Telnet. The following procedure is aimed at providing instructions/guidelines for safely removing CLI and Telnet related components

Procedure to remove CLI and Telnet Service

- Directories/Jars/Files to be removed
- Modifications to be made

	Note :
	As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	ccs
<Web NMS Home>/classes/com/adventnet/nms/tools	clibrowser
Files	
Path	**Name of Component**
<Web NMS Home>/bin/browsers	CLIBrowser.bat/sh
<Web NMS Home>/conf	- clibrowser.conf - CLIDefaultProperties.xml - clilogging_parameters.conf - terminal.conf
<Web NMS Home>/html	CLIBrowser.properties
<Web NMS Home>/configtasks/root	- BroadCastStormControl.xml - CiscoAccessListDeletion.xml - CiscoAccessListGeneration.xml - CiscoConfigBackup.xml

	• NATAddition.xml
	• NATRemoval.xml
	• RouteAdd.xml
	• RouteDelete.xml
<Web NMS Home>/configtasks/root/datasource	• broadcastdatasource.xml
	• natdeletedatasource.xml
	• nataddatasource.xml
	• routeadddatasource.xml
	• routedeletedatasource.xml
<Web NMS Home>/provisioningtemplates	IPRoutingConfiguration.xml
<Web NMS Home>/provisioningtemplates/help	IPRoutingConfiguration.html

Jars	
Path	**Name of Component**
<Web NMS Home>/classes	• AdventNetCLI.jar
	• AdventNetCLIClient.jar
	• AdventNetJta.jar
<Web NMS Home>/classes	bsh-1.2b3.jar

Make sure that telnet has been removed from NmsServerClasses.jar present under <Web NMS Home>/classes directory.

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>	setEnv.bat/sh	Search for the keyword and remove the reference	**Windows :** • set CLI_CLIENT_CLASSPATH=%NMS_CLASSES%\AdventNetCLIClient.jar; %NMS_CLASSES%\AdventNetJta.jar • set CLI_CLASSPATH=%NMS_CLASSES%\AdventNetCLI.jar%NMS_CLASSES%\AdventNetJta.jar;%CLI_CLIENT_CLASSPATH% • http://localhost:%WEBSERVER_PORT%/classes/AdventNetCLI.jar **Linux/Solaris :** • CLI_CLIENT_CLASSPATH=$NMS_CLASSES/AdventNetCLIClient.jar: $NMS_CLASSES/AdventNetJta.jar • CLI_CLASSPATH=$NMS_CLASSES/AdventNetCLI.jar: $NMS_CLASSES/AdventNetJta.jar: $CLI_CLIENT_CLASSPATH • file:///$NMS_HOME/classes/AdventNetCLI.jar\

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/bin	startApplication Client.bat/sh	Search for the keyword and remove the reference	**Windows :** %CLI_CLIENT_CLASSPATH%; **Linux/Solaris :** $CLI_CLIENT_CLASSPATH:
	startnms.bat/ sh	Search for the keyword and remove the reference	**Windows :** %CLI_CLASSPATH% **Linux/Solaris :** $CLI_CLASSPATH:
<Web NMS Home> /conf	clientparameters.conf	Classpath reference to AdventNetCLIClient.jar and AdventNetJta.jar under ARCHIVE parameter	../classes/AdventNetCLIClient.jar, ../classes/AdventNetJta.jar,
	configprovider.xml	Search for the keyword and remove the reference	<protocol NAME="telnet" CONFIGPROVIDER="com.adventnet.management.config.telnet.TelnetConfigProvider" />
	log4j.xml	Remove CLI related entry	1) <logger name="CLIERR" additivity="false"> <level value="warn"/> <appender-ref ref="nmserr_file"/> <appender-ref ref="mail"/> </logger> 2) <logger name="CLIUSER" additivity="false"> <level value="warn"/> <appender-ref ref="nmsout_file"/> <appender-ref ref="mail"/> </logger>
	launcher_conf.txt	Remove CLI related entries	1) **CLIBrowser** from the property tag with value "AppList" 2) <application> <property name="AppName" value="**CLIBrowser**"/>: </application> 3) **../classes/AdventNetCLI.jar;** **./classes/AdventNetCLIClient.jar;** **./classes/AdventNetJta.jar;**
	NmsPanels.conf	Remove Telnet related entry	<PANEL className="com.adventnet.telnet.telnetwindow.NmsTelnetPanel" PANEL-KEY="CLOSETELNETCONNECTIONS"/>
	NmsProcessesBE.conf	Remove Telnet related entry	- Entry : #java com.adventnet.nms.telnet.telnetwindow.CLIFactoryBinder PROCESS com.adventnet.nms.telnet.telnetwindow.CLIFactoryBinder ARGS NULL - Entry : #java com.adventnet.nms.telnet.telnetwindow.StartTelnetClient PROCESS com.adventnet.nms.telnet.telnetwindow.StartTelnetClient ARGS NULL

Path	Name of File	Remarks	Snippet to be removed
	NmsProcessesFE.conf	Remove Telnet related entry	Entry : #java com.adventnet.nms.fe.telnet.telnetwindow.StartTelnetClientFE PROCESS com.adventnet.nms.fe.telnet.telnetwindow.StartTelnetClientFE ARGS NULL

	provider.xml	Remove CLI related entry	<provider>
			  <param name="TYPE" value="CLI" />
			  <param name="PROVIDER" value="com.adventnet.management.cli.CLIProtocolProvider" />
			   <param name="PROPERTY" value="com.adventnet.management.cli.CLIProperty" />
			   <param name="DefaultPropertyFile" value="CLIDefaultProperties.xml" />
			   <param name="EVENT" value="com.adventnet.management.cli.CLIEvent" />
			   <param name="EVENT_FILTER" value="com.adventnet.management.cli.CLIEventFilter" />
			</provider

	WebNMS.jnlp	Remove CLI related jar	<jar href="classes/AdventNetCLIClient.jar"/>
<Web NMS Home>/ conf/feDeployment	startnmsFE.bat/sh	Remove CLI related entry	**Windows :** %CLI_CLASSPATH%; **Linux/Solaris :** $CLI_CLASSPATH:
<Web NMS Home>/lib	<Web NMS Home>/conf/ wrapper.conf	Remove references to AdventNetCLI.jar, AdventNetJta.jar and jta.jar in the CLASSPATH variable	• classes/AdventNetjta.jar; • classes/AdventNetCLI.jar;
<Web NMS Home> /listmenus	nodemenu.xml	Remove Telnet related node	<MENU-ITEM name="SEPARATOR" /> <MENU-ITEM name="Telnet to device"> <JAVA-UI action_value="com.adventnet.telnet.telnetwindow.NmsTelnetFrame ?host=${ipAddress}" action_type="openframe" /> </MENU-ITEM>

	routermenu.xml	Remove Telnet related node	<MENU-ITEM name="SEPARATOR" />
			- <MENU-ITEM name="Telnet to device">
			     <JAVA-UI action_value="com.adventnet.telnet.telnetwindow.NmsTelnetFrame
			?host=${ipAddress}" action_type="openframe" />
			     </MENU-ITEM>

	snmpmenu.xml	Remove Telnet related node	<MENU-ITEM name="SEPARATOR" />
			- <MENU-ITEM name="Telnet to device">
			     <JAVA-UI action_value="com.adventnet.telnet.telnetwindow.NmsTelnetFrame
			?host=${ipAddress}" action_type="openframe" />
			     </MENU-ITEM>

<Web NMS Home>/map data\menus	routermenu.xml	Remove Telnet related node	<MENU-ITEM name="SEPARATOR" />
			 <MENU-ITEM name="Telnet to device">
			     <JAVA-UI action_value="com.adventnet.telnet.telnetwindow.NmsTelnetFrame
			?host=${ipAddress}" action_type="openframe" />
			     </MENU-ITEM>

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Path	Name of File	Remarks	Snippet to be removed

\<Web NMS Home>/map data\menus	snmpmenu.xml	Remove Telnet related node	`<MENU-ITEM name="SEPARATOR" />`
			`-          <MENU-ITEM name="Telnet to device">`
			`            <JAVA-UI`
			`action_value="com.adventnet.telnet.telnetwindow.NmsTelnetFrame`
			`?host=${ipAddress}" action_type="openframe" />`
			`          </MENU-ITEM>`

\<Web NMS Home>/map data\menus	tl1menu.xml	Remove Telnet related node	`<MENU-ITEM name="TelnetWindow">`
			`   <JAVA-UI action_type="openframe"`
			`action_value="com.adventnet.telnet.telnetwindow.NmsTelnetFrame`
			`?host=${ipAddress}" />`
			` </MENU-ITEM>`

	Warning :
	After unplugging CLI components please keep in mind the following
	• Connecting to any remote host through Telnet is **not** possible.
	• Telnet task should **not** be added using the Add Task Configuration panel

Unplugging CORBA

Introduction

CORBA functionalities in Web NMS allows an interface in Interface Definition Language (IDL) to be defined for every object and this IDL interface definition is independent of programming language. The communication between the client and the server is made possible by an Object Request Broker (ORB). The following procedure is aimed at providing instructions/guidelines for safely removing CORBA and IDLToXML Tool.

Procedure to remove CORBA

- Directories/Jars/Files to be removed
- Modifications to be made

	Note :
	As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	idls
Files	
Path	**Name of Component**
<Web NMS Home>/bin/developertools	• IDLtoJObjectsTool.sh/bat • idltoxml.sh/bat
<Web NMS Home>/classes/hbnlib/com/adventnet/nms/topodb/corba	CORBANode.hbm.xml
<Web NMS Home>/conf	• corba_parameters.conf • corbaseed.file • idltoxml.conf
Jars	
Path	**Name of Component**
<Web NMS Home>/classes	• AdventNetCorbaSimulator.jar • AdventNetIDLtoJObjects.jar • AdventNetIdlToXml.jar • openorb-1.2.0.jar • openorb_tools-1.2.0.jar

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2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/conf	configprovider.xml	Remove the entry for CORBA	<protocol NAME="CORBA" CONFIGPROVIDER="com.adventnet.management.config.corba.CorbaConfigProvider" />
	DatabaseAliases.conf	Remove CORBA related table aliases	#In Table **CORBANode** orbClassName ORBCLASSNAME #In Table **CORBANode** nameServiceHost NAMESERVICEHOST nameServicePort NAMESERVICEPORT nameRef NAMEREF interfaceName INTERFACENAME statusPollCommand STATUSPOLLCOMMAND statusPollIOR STATUSPOLLIOR dataPollIOR DATAPOLLIOR
	discovery.filters	Remove the CORBA related discovery filter	<FILTER className="com.adventnet.nms.topodb.corba.CORBADiscoveryFilter"/>

	NmsProcessesBE.conf	Remove CORBA related entries	1) #java com.adventnet.nms.util.SnmpCorbaServer [propertyfiles]
			    #PROCESS com.adventnet.nms.util.SnmpCorbaServer
			    #ARGS -ORBInitialPort 1050
			2) #java com.adventnet.nms.topodb.corba.CORBADiscProcess
			    PROCESS com.adventnet.nms.topodb.corba.CORBADiscProcess
			    ARGS NULL

	Polling.conf	Remove CORBA related poll provider entries	<PROTOCOL CORBA="com.adventnet.nms.poll.corba.CorbaPollProvider"/>
	provider.xml	Remove CORBA related entries	<provider> <param name="TYPE" value="CORBA" /> <param name="PROVIDER" value="com.adventnet.management.corba.CorbaProtocolProvider" /> <param name="PROPERTY" value="com.adventnet.management.corba.CorbaProperty" /> </provider>
	services.xml	Remove CORBA related entries	<service> <param name="TYPE" value="CORBA" /> <param name="SERVICE" value="com.adventnet.management.corba.CorbaServiceProvider" /> </service>
<Web NMS Home>/classes/hbnlib	hibernate.cfg.xml	Remove CORBA related entries	<mapping resource="com/adventnet/nms/topodb/corba/CORBANode.hbm.xml"/>

3) In the file **dbmenu.xml** in the directory **<Web NMS Home>/html/defaultsToAllUsers**, replace the line

action_value="com.adventnet.nms.topoui.addNode.AddNodePanel?PROTOCOL=SNMP,CORBA,TL1"

with action_value="com.adventnet.nms.topoui.addNode.AddNodePanel?PROTOCOL=SNMP,TL1"

	Warning : • After removing the above mentioned components and entries, please do not attempt to use the CORBA option in the file **NmsProcessesBE.conf.** This will lead to exceptions as the component has been removed. • The default communication between BE and FE servers is **TCP**. Do not enable CORBA in the files **NmsProcessesBE.conf** and **serverparameters.conf,** as this will have no effect for the BE_FE parameter.

Unplugging TL1

Introduction

Transaction Language1 (TL1) supported by Web NMS ensures communication between a device (device with TL1 Agent) to be managed and a Management System (TL1 Manager). The Agent in the device provides access to the data stored in the device and the Manager uses this access to control and monitor the device. The following procedure is aimed at providing instructions/guidelines for safely removing TL1and related components.

Procedure to remove TL1 components

- Directories/Jars/Files to be removed
- Modifications to be made

	Note :
	As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	data
<Web NMS Home>/classes/com/adventnet/nms/tools	tl1browser
Files	
Path	**Name of Component**
<Web NMS Home>/bin/browsers	TL1CraftInterface.bat/sh
<Web NMS Home>/conf	- TL1DefaultProperties.xml - tl1notification.filters - tl1seed.file - tl1craftinterface.config - tl1craftinterface_csh.xml
<Web NMS Home>/configtasks/root	- AcmeCardConfiguration.xml - SystemDateConfiguration.xml
<Web NMS Home>/html	tl1craftinterface_i18n.properties
<Web NMS Home>/classes/hbnlib/com/adventnet/nms/topodb/tl1	- TL1GatewayAccessSession.hbm.xml - TL1GatewayNode.hbm.xml - TL1Interface.hbm.xml - TL1Node.hbm.xml
<Web NMS Home>/icons	- tl1_cyan.png - tl1_gray.png - tl1_green.png - tl1_orange.png - tl1_red.png - tl1_yellow.png

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<Web NMS Home>/images	- gatewayacc.png - gatewayacc_cyan.png - gatewayacc_gray.png - gatewayacc_green.png - gatewayacc_orange.png - gatewayacc_red.png - gatewayacc_yellow.png - gatewaynode.png - gatewaynode_cyan.png - gatewaynode_gray.png - gatewaynode_green.png - gatewaynode_orange.png - gatewaynode_red.png - gatewaynode_yellow.png - tl1.png - tl1alert.png - tl1event.png - tl1interface.png - tl1map.png - tl1mapRoot.png - tl1node.png - tl1task.png - tl1toolsmain.png - tl1treeicon.png
<Web NMS Home>/listmenus	- acmemenu.xml - gasmenu.xml - gatewaymenu.xml - tl1menu.xml
<Web NMS Home>/mapdata/menus	- acmemenu.xml - gasmenu.xml - gatewaymenu.xml - tl1menu.xml
<Web NMS Home>/provisoningtemplates	CrossConnect.xml

Jars	
Path	**Name of Component**
<Web NMS Home>/classes	AdventNetTL1.jar AdventNetTL1Tools.jar

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>	setEnv.bat/sh	Remove the CLASSPATH reference	**Windows :** - set TL1AGENT_CLASSPATH=%NMS_HOME%\TL1Agent Simulator\classes - set TL1_CLASSPATH=%NMS_CLASSES%\AdventNetTL 1.jar;%NMS_CLASSES%\AdventNetTL1Tools.jar **Linux/Solaris :** - TL1AGENT_CLASSPATH=${NMS_HOME}/TL1AgentS imulator/classes - TL1_CLASSPATH=$NMS_CLASSES/AdventNetTL1.ja r:$NMS_CLASSES/AdventNetTL1Tools.jar

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/ bin/	startnms.bat/sh	Remove the CLASSPATH reference	**Windows :** CLASSPATH entry will not exist, hence no change. **Linux/Solaris :** # Uncomment the following lines for using TL1 Protocol. CLASS_PATH=$CLASS_PATH:$TL1_CLASSPATH
	startApplicationClient.bat/sh	Remove the CLASSPATH reference, Search for the key words and delete the related entries.	**Windows : %TL1_CLASSPATH%;** **Linux/Solaris : $TL1_CLASSPATH:**
<Web NMS Home>/ conf/	alert.filters	Remove the default entries relating to TL1	<FILTER enable="true" name="CustomViewFilter"> <FILTER_ACTION className="com.adventnet.nms.eventdb.UserFilter" name="AlertFilter_4_TL1CustomView" userclass="com.adventnet.nms.eventdb.tl1.TL1EventFilter4CustomView"/> </FILTER>
	clientparameters. conf	Search for the key words and delete the related entries.	**../classes/AdventNetTL1.jar,../classes/AdventNetTL1Tools.jar,** entry from the ARCHIVE value tag
	configprovider.xml	Remove the entries related to TL1	<protocol NAME="tl1" CONFIGPROVIDER="com.adventnet.management.config.tl1.TL1ConfigProvider" />
	DatabaseAliases. conf	Remove the TL1 Table entries	In Table **TL1Node** loginCommand LOGINCOMMAND initCommand INITCOMMAND connectionHandler CONNECTIONHANDLER infoCommand INFOCOMMAND dictionary DICTIONARY sessionId SESSIONID tl1port TL1PORT notifyId NOTIFYID #In Table **TL1Interface** statpollCommand STATPOLLCOMMAND connectionHandler CONNECTIONHANDLER dictionary DICTIONARY sessionId SESSIONID tl1port TL1PORT
	discovery.filters	Remove the filters related to TL1	<FILTER className="com.adventnet.nms.topodb.tl1.TL1DiscFilter"/> <FILTER className="com.adventnet.nms.topodb.tl1.TL1GatewayFilter"/>
	event.filters	Remove the filters related to TL1	<FILTER name="CustomViewFilter"> <FILTER_ACTION userclass="com.adventnet.nms.eventdb.tl1.TL1EventFilter4CustomView" name="EventFilter_4_TL1CustomView" className="com.adventnet.nms.eventdb.UserFilter"/> </FILTER>

3) In the file **dbmenu.xml** in the directory **<Web NMS Home>/html/defaultsToAllUsers**, replace the line

action_value="com.adventnet.nms.topoui.addNode.AddNodePanel?PROTOCOL=SNMP,CORBA,TL1"

with action_value="com.adventnet.nms.topoui.addNode.AddNodePanel?PROTOCOL=SNMP,CORBA"

	Warning :
	• TL1 related attributes should not be used for the process '**com.adventnet.nms.jmxagent.WebNMSAgentApp**' in **NmsProcessesBE.conf** file after removal.

	Warning :
	• If the **AddNode UI** is not customized, TL1 will be considered as default protocol and this will result in unexpected result (client hanging) if the Add Node UI is invoked.
	• TL1 task should **not** be added using the Add Task Configuration panel

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Unplugging Backup Services

Introduction

During any development cycle, the data relating to the application stored in the database acquires crucial importance. The importance of data becomes multifold in data centric applications such as Web NMS. Human error, system crash and other disasters can result in the loss of valuable data which could prove to be costly. To overcome any such eventuality, Web NMS provides Backup Service. But sometimes this service may not be required by the user. The following procedure is aimed at providing instructions/guidelines for safely removing Backup related components when Backup service is no longer required.

Procedure to remove Backup Service

- Directories/Jars/Files to be removed
- Modifications to be made

> **Note :**
>
> As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

File	
Path	**Name of Component**
<Web NMS Home>/conf	BackUp.conf

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/ conf	NmsProcesses sBE.conf	Remove the entries related to Backup service	#java com.adventnet.nms.startnms.WebNMSBackUp PROCESS com.adventnet.nms.startnms.WebNMSBackUp ARGS NULL
<Web NMS Home>/ conf/	policy.conf	Remove the entries related to Backup service	<POLICY classname="com.adventnet.nms.policies.WebNMSBackUpPolicy" display_name="WebNMSBackUpPolicy" />
<Web NMS Home>/ conf/	relationalclasse s.conf	Remove the entries related to Backup service	Com.adventnet.nms.policies.WebNMSBackUpPolicy policyd b RelationalPolicyObject PolicyObject

Unplugging Configuration Service

Introduction

Configuration Management deals with configuring devices in the network to achieve a defined functionality. AdventNet Web NMS provides you a customizable framework with rich set of APIs, which is used to develop user applications that can maintain network resources and network configuration changes. The following procedure is aimed at providing instructions/guidelines for safely removing Configuration service.

Procedure to remove Configuration Service

- Directories/Jars/Files to be removed
- Modifications to be made

⚠	**Warning :** Provisioning service is dependent on the Configuration service therefore the Provisioning module should be unplugged first before unplugging the Configuration module. Please refer to Unplugging Provisioning Service.

📝	**Note :** As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	configtasks
Files	
Path	**Name of Component**
<Web NMS Home>/conf	• configprovider.xml • tasklistener.conf
<Web NMS Home>/html	• CSPORT.html • ElementConfigurationResourcesAncillary.properties • ElementConfigurationResources.properties
<Web NMS Home>/html/defaultsToAllUsers	• configauditmenu.xml • configmenu.xml

<Web NMS Home>/images	• addtask.png • configmain.png • datasource_wiz.png • datasource.png • devicelist_wiz.png • execute.png • newdevicelist.png • taskconfig.png

Jars	

Path	Name of Component
<Web NMS Home>/NetMonitor/build	Configpanel.jar

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/bin	startApplicationClient.bat/sh	Remove the entry for Configpanel	**Windows :** ./NetMonitor/build/ConfigPanel.jar, **Linux/Solaris:** ./NetMonitor/build/ConfigPanel.jar
<Web NMS Home>/conf/	clientparameters.conf	Remove the entry for Configpanel	../NetMonitor/build/ConfigPanel.jar
	DatabaseAliases.conf	Remove the Table aliases for Configuration related entries	#In Table **TaskAudit** executionID EXECUTIONID taskName TASKNAME deviceList DEVICELIST datasource DATASOURCE executedTime EXECUTEDTIME subTaskName SUBTASKNAME deviceName DEVICENAME timeOfStart TIMEOFSTART timeOfFinish TIMEOFFINISH rollbackStatus ROLLBACKSTATUS #In Table **AttributeAudit** identifier IDENTIFIER retries RETRIES
	DatabaseSchema.conf	Remove the **BeginCreateSchema, EndCreateSchema** for the tables related to Configuration (**Tables are listed in the following column**)	• AttributeAudit • ConfigAttributes • ConfigProvider • ConfigTasks • ConfigTaskDetails • DeviceAudit • DeviceList • DeviceListDetails • DeviceUserProps • PendingDevices • PendingTasks • TaskAudit • TaskToDeviceListMap
<Web NMS Home>/conf/	log4j.xml	Remove the entry for Configuration	<logger name="CONFIGERR" additivity="false"> <level value="info"/> <appender-ref ref="nmserr_file"/> <appender-ref ref="mail"/> </logger>

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Path	Name of File	Remarks	Snippet to be removed

			`<logger name="CONFIGUSER" additivity="false">`
			`<level value="info"/>`
			`<appender-ref ref="nmsout_file"/>`
			`<appender-ref ref="mail"/>`
			`</logger>`

	NmsProcessesBE.conf	Remove the entry for NmsConfigurationServer	`# java`
			`com.adventnet.nms.config.`**`NmsConfigurationServer`** `[CONFIG_SERVER_PORT num]`
			`:`
			`[CONFIG_PERSISTENCE_MODE RDBMS/Serialize]`
			`PROCESS        com.adventnet.nms.config.`**`NmsConfigurationServer`**
			`ARGS        CONFIG_SERVER_PORT 0`
			`CONFIG_AUDIT_MODE RDBMS AUDIT_LEVEL 2`
			`CONFIG_UPDATER_MODEL`
			`com.adventnet.nms.config.`**`MOConfigUpdater`**
			`CLEAN_AUDIT_INTERVAL 1 INVENTORY_HANDLER`
			`com.adventnet.nms.config.`**`NmsInventoryHandler`**
			`AUTHORIZATION_INTERFACE`
			`com.adventnet.management.config.`**`AuthorizationInterfaceImpl`** `CONFIG_PERSISTENCE_MODE RDBMS`

	NmsProcessesFE.conf	Remove the entry for Configuration	`# java com.adventnet.nms.fe.config.ConfigFE`
			`PROCESS  com.adventnet.nms.fe.config.ConfigFE`
			`ARGS NULL`

	securitydbData.xml	Remove the entry for Configuration	• `<DATA ownername="NULL" groupname="Admin" viewname="configView"/>` • `<DATA operationtype="1" operationname="Configuration" viewname="configView"/>` • `<DATA leaf="1" parent="Operation Tree Root" child="Configuration"/>` • `<DATA leaf="0" parent="Configuration" child="Create Task"/>` • `<DATA leaf="0" parent="Configuration" child="Execute Task"/>`
	threads.conf	Remove the entry config 1	**`config 1`**
	WebNMS.jnlp	Remove the entry for Configuration jar	`<jar href="NetMonitor/build/ConfigPanel.jar"/>`
\<Web NMS Home>/conf/feDeployment/	DownloadFiles.xml	Remove file entries related to Configuration	`<FILE> conf/configprovider.xml </FILE>` `<FILE> conf/tasklistener.conf </FILE>`

\<Web NMS Home>/html/defaultsToAllUsers/	dbmenu.xml	Remove entry related to Configuration	`<MENU-ITEM name="`**`Configure Nodes`**`">`
			`<JAVA-UI`
			`action_command="INVOKE_CLASS:com.adventnet.nms.config.ConfigureNodes?HOST=${name}&TYPE=${type}" >`
			`</JAVA-UI>`
			`</MENU-ITEM>`

\<Web NMS Home>/html/defaultsToNewUsers/	Tree.xml	Remove entry related to Configuration	`<DEVICE DEFAULT-CLOSE-OPERATION="DISPOSE_ON_CLOSE" INIT-ON-STARTUP="false" IMAGE-NAME="images/configmain.png" PANEL-KEY="`**`Configuration`**`" TREE-NAME="Configuration" FRAME-TITLE="Configuration Management" TARGET="center" Client="Java" ID="Configuration"`

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Path	Name of File	Remarks	Snippet to be removed
			: \</DEVICE\>

\<Web NMS Home\>/listmenus/	hubmenu.xml	Remove entry related to Configuration	\<MENU-ITEM name="SEPARATOR" /\>
			    \<MENU-ITEM name="Configure Switch"\>
			       \<JAVA-UI
			          action_type="openframe"
			          action_value="com.adventnet.nms.config.ConfigureNode?HOST=${name}&TYPE=${type}" \>
			       \</JAVA-UI\>
			    \</MENU-ITEM\>

	nodemenu.xml	Remove entry related to Configuration	\<MENU-ITEM name="SEPARATOR"/\> \<MENU-ITEM name="Configure Node"\> \<JAVA-UI action_value="com.adventnet.nms.config.ConfigureNode?HOST=${name}&TYPE=${type}" action_type="openframe"/\> \</MENU-ITEM\>

	printermenu.xml	Remove entry related to Configuration	\<MENU-ITEM name = "SEPARATOR" /\>
			    \<MENU-ITEM name="Configure Printer"\>
			       \<JAVA-UI
			          action_type="openframe"
			          action_value="com.adventnet.nms.config.ConfigureNode?HOST=${name}&TYPE=${type}" \>
			       \</JAVA-UI\>
			    \</MENU-ITEM\>

	routermenu.xml	Remove entry related to Configuration	\<MENU-ITEM name="SEPARATOR"/\> \<MENU-ITEM name="Configure Router"\> \<JAVA-UI action_value="com.adventnet.nms.config.ConfigureNode?HOST=${name}&TYPE=${type}" action_type="openframe"/\> \</MENU-ITEM\>
	snmpmenu.xml	Remove entry related to Configuration	\<MENU-ITEM name="SEPARATOR"/\> \<MENU-ITEM name="Configure Node"\> \<JAVA-UI action_value="com.adventnet.nms.config.ConfigureNode?HOST=${name}&TYPE=${type}" action_type="openframe"/\> \</MENU-ITEM\>
	snmpmenu_win.xml	Remove entry related to Configuration	\<MENU-ITEM name="SEPARATOR"/\> \<MENU-ITEM name="Configure Node"\> \<JAVA-UI action_value="com.adventnet.nms.config.ConfigureNode?HOST=${name}&TYPE=${type}" action_type="openframe"/\> \</MENU-ITEM\>
\<Web NMS Home\>/mapdata/menus/	hubmenu.xml	Remove entry related to Configuration	\<MENU-ITEM name="SEPARATOR" /\> \<MENU-ITEM name="Configure Switch"\> \<JAVA-UI action_type="openframe" action_value="com.adventnet.nms.config.ConfigureNode?HOST=${objName}&TYPE=${type}" \> \</JAVA-UI\> \</MENU-ITEM\>
	nodemenu.xml	Remove entry related to Configuration	\<MENU-ITEM name="SEPARATOR"/\> \<MENU-ITEM name="Configure Node"\> \<JAVA-UI action_value="com.adventnet.nms.config.ConfigureNode?HOST=${objName}&TYPE=${type}" action_type="openframe"/\> \</MENU-ITEM\>
	printermenu.xml	Remove entry related to Configuration	\<MENU-ITEM name = "SEPARATOR" /\> \<MENU-ITEMname="Configure Printer"\> \<JAVA-UIaction_type="openframe"action_value="com.adventnet.nms.config.ConfigureNode?HOST=${objName}&TYPE=${type}" \> \</JAVA-UI\> \</MENU-ITEM\>

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Path	Name of File	Remarks	Snippet to be removed

	routermenu.xml	Remove entry related to Configuration	`<MENU-ITEM name="SEPARATOR"/>`
			`<MENU-ITEM name="Configure Router">`
			`<JAVA-UI`
			`action_value="com.adventnet.nms.config.ConfigureNode?HOST=${objName}&TYPE=${type}"`
			`action_type="openframe"/>`
			`</MENU-ITEM>`

	snmpmenu.xml	Remove entry related to Configuration	`<MENU-ITEM name="SEPARATOR"/>`
			`<MENU-ITEM name="Configure Node">`
			`<JAVA-UI`
			`action_value="com.adventnet.nms.config.ConfigureNode?HOST=${objName}&TYPE=${type}"`
			`action_type="openframe"/>`
			`</MENU-ITEM>`

	snmpmenu_win.xml	Remove entry related to Configuration	`<MENU-ITEM name="SEPARATOR"/>`
			`<MENU-ITEM name="Configure Node">`
			`<JAVA-UI`
			`action_value="com.adventnet.nms.config.ConfigureNode?HOST=${objName}&TYPE=${type}"`
			`action_type="openframe"/>`
			`</MENU-ITEM>`

\<Web NMS Home>/users/guest/
 	
\<Web NMS Home>/users/root
	Tree.xml	Remove entry related to Configuration	`<DEVICE DEFAULT-CLOSE-OPERATION="DISPOSE_ON_CLOSE" INIT-ON-STARTUP="false" IMAGE-NAME="images/configmain.png" PANEL-KEY="`**Configuration**`" TREE-NAME="Configuration" FRAME-TITLE="Configuration Management" TARGET="center" Client="Java" ID="Configuration" URL="jsp/ShowImage.jsp?imageName=../images/configmain.png" PANEL-NAME="com.adventnet.nms.util.ImagePanel" MODULE-NAME="Default" ICON-FILE="images/configmgmttreeicon.png">`
			`<DEVICE ICON-FILE="images/batchconfigtreeicon.png" ID="`**Batch Configuration**`" MENU-FILE-NAME="configmenu.xml" TABLE-POPUP-MENU="View" Client="Java" PANEL-NAME="com.adventnet.nms.config.ConfigPanel" TREE-NAME="Batch Configuration" TREE-POPUP-MENU="configmenu.xml" MODULE-NAME="Default"/>`
			`<DEVICE PANEL-NAME="com.adventnet.nms.config.`**ConfigAuditBrowser"** `PARENT-ID="Configuration" ICON-FILE="images/audit.png" VIEW-LENGTH="20" MODULE-NAME="Audit" MENU-FILE-NAME="configauditmenu.xml" TABLE-COLUMNS="Task Name=taskName=150;Device Name=deviceName=75;Start Time=timeOfStart=75;Finish Time=timeOfFinish=75;Status=status=75;" ID="ConfigAudit" TREE-POPUP-MENU="Custom Views,frameoptions.xml,TreeOperations.xml" TABLE-POPUP-MENU="View" PANEL-KEY="ConfigAuditBrowser" TREE-NAME="Audit"/> </DEVICE>`

Unplugging JMX Service

Introduction

The communication between the NMS and the EMS is brought into reality through an Interface called the NMS JMX Agent. The main function of NMS JMX Agent, is to facilitate the easy transfer of information pertaining to the NEs managed by a specific EMS to its corresponding High Level Manager. If the user does not require this functionality, it can be removed. The following procedure is aimed at providing instructions/guidelines for safely removing JMX related components.

Procedure to remove JMX Service

- Directories/Jars/Files to be removed
- Modifications to be made

	Note : As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>/conf	jmx_agent
Files	
Path	**Name of Component**
<Web NMS Home>/conf	HtmlAdaptor.prp
Jars	
Path	**Name of Component**
<Web NMS Home>/classes	• AdventNetJmxAgent.jar • xmojo.jar.
	AdventNetWebNmsAgent.jar

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home >	setEnv.bat/sh	Remove entry for JMX_AGENT_CLASSPATH	**Windows :** set JMX_AGENT_CLASSPATH=%NMS_CLASSES%\AdventNetSnmpAgent.jar;%NMS_CLASSES%\xmojo.jar;%NMS_CLASSES%\AdventNetWebNmsAgent.jar;%NMS_CLASSES%\AdventNetJmxAgent.jar;%NMS_CLASSES%\AdventNetARUtils.jar;%NMS_CLASSES%\AdventNetTL1Agent.jar **Linux/Solaris :** • file:///$NMS_HOME/classes/AdventNetJmxAgent.jar\ and file:///$NMS_HOME/classes/xmojo.jar\ • JMX_AGENT_CLASSPATH=$NMS_CLASSES/AdventNetSnmpAgent.jar:$NMS_CLASSES/xmojo.jar: $NMS_CLASSES/AdventNetWebNmsAgent.jar:$NMS_CLASSES/AdventNetJmxAgent.jar:$NMS_CLASSES/AdventNetARUtils.jar:$NMS_CLASSES/AdventNetTL1Agent.jar
<Web NMS Home >/bin/developertools	IDLtoJObjectsTool.bat/sh	Remove entry for JMX_AGENT_CLASSPATH	**Windows :** %NMS_CLASSES%\AdventNetJmxAgent.jar; and %NMS_CLASSES%\xmojo.jar; **Linux/Solaris :** $NMS_CLASSES/AdventNetJmxAgent.jar: and $NMS_CLASSES/xmojo.jar:
<Web NMS Home >/bin	startnms.bat/sh	Remove entry for JMX_AGENT_CLASSPATH	**Windows :** CLASSPATH entry will not exist, hence no change. **Linux/Solaris :** CLASS_PATH=$CLASS_PATH:$JMX_AGENT_CLASSPATH
<Web NMS Home >/conf	wrapper.conf	Remove class reference to Agent jars	• classes**/**AdventNetWebNmsAgent.jar; • classes/AdventNetJmxAgent.jar; • classes/xmojo.jar;
<Web NMS Home >/conf	DatabaseAlias.conf	Remove aliases for fields defined in jmx specific tables, VarBindLog and NotificationLog	#In Table **NotificationLog** notiIndex NOTIINDEX #In Table **NotificationLog** logTime LOGTIME #In Table **NotificationLog** noVarBinds NOVARBINDS #In Table **NotificationLog** notiOID NOTIOID #In Table **VarBindLog** varIndex VARINDEX

			#In Table **VarBindLog** varType VARTYPE #In Table **VarBindLog** varValue VARVALUE
	DatabaseSchema.conf	Remove schema definition for JMX specific tables, VarBindLog and NotificationLog	BeginCreateSchema create table **VarBindLog**(: EndCreateSchema BeginDropSchema drop table VarBindLog drop index VarBindLog0_ndx drop index VarBindLog1_ndx EndDropSchema #BeginIndex #ALTER TABLE VarBindLog add index VarBindLog0_ndx ("NOTIINDEX") #ALTER TABLE VarBindLog add index VarBindLog1_ndx ("VARINDEX") #EndIndex BeginCreateSchema create table **NotificationLog**(: EndCreateSchema BeginDropSchema drop table NotificationLog drop index NotificationLog0_ndx EndDropSchema #BeginIndex #ALTER TABLE NotificationLog add index NotificationLog0_ndx ("NOTIINDEX") #EndIndex
	launcher_conf.txt	Remove AdventNetJmxAgent.jar entries.	./classes/AdventNetJmxAgent.jar; and ./classes/xmojo.jar
	NmsProcessesBE.conf	Remove the entry for **WebNMSAgentApp**	#java com.adventnet.nms.jmxagent.**WebNMSAgentApp** [-snmpport port] [SNMP true/false] [-readCommunity community] [-writeCommunity community] [-snmpVersion v1/v2c/v3] [-tl1port port] [TL1 true/false] [-rmiport $NMS_RMI_REG_PORT/port] [RMI true/false] [-corbaport port] [CORBA true/false] [-httpport port] [HTTP true/false] [-htmlport port] [HTML true/false] [-maxThreads noOfThreads] [TopoObserver true/false] [FaultObserver true/false] [EnterpriseOID OID] PROCESS com.adventnet.nms.jmxagent.WebNMSAgentApp ARGS -snmpport 8001 SNMP true -readCommunity public -writeCommunity public -snmpVersion v2c -tl1port 9099 TL1 false -rmiport $NMS_RMI_REG_PORT RMI true -corbaport 1050 CORBA false -httpport 8030 HTTP false -htmlport 8050 HTML true -maxThreads 2 TopoObserver true FaultObserver true Authentication true
	relationalclasses.conf	Remove entries for Relational classes	com.adventnet.nms.jmxagent.AgentDefValObject userstoragedb RelationalAgentObject AgentDefValObject

Unplugging Policy Service

Introduction

The policy framework enables scalable administration of the Web NMS server and the network elements managed by it. The primary goal of the policy engine is to enable administration of complex functions easily. In Web NMS, policies are used to customize the behavior of the NMS and to provide a framework for adding policies for different network elements. The following procedure is aimed at providing instructions/guidelines for safely removing Policy service if the service is not required.

Procedure to remove Policy Service

- Directories/Jars/Files to be removed
- Modifications to be made

Note : As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.	

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>/html/defaultToNewUsers	policymenus
<Web NMS Home>/users/guest	policymenus
<Web NMS Home>/users/root	policymenus
Files	
Path	**Name of Component**
<Web NMS Home>/conf	policy.conf
<Web NMS Home>/html/defaultToAllUsers	• policyadminmenu.xml • policymenu.xml
<Web NMS Home>/images	policy.png
<Web NMS Home> / images/runtimeadmin	• policy.png • policyfilters.png

Make sure that policies has been removed from NmsServerClasses.jar present under <Web NMS Home>/classes directory.

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/conf/	DatabaseAliases.conf	Remove aliases for Policy related tables	# In the Table PolicyObject groupName GROUPNAME status STATUS policyObjectCustomizer POLICYOBJECTCUSTOMIZER helpURL HELPURL #In Table PolicyScheduleTime timeKey TIMEKEY
	DatabaseSchema.conf	Remove all Schema definitions for **PolicyObject, PolicyActionCondition, POLICYUSERPROPS,DBPOLICY, PolicyScheduleTime** and **AlertPolicyObject**	BeginCreateSchema create table **PolicyObject(** : EndCreateSchema BeginDropSchema drop table PolicyObject EndDropSchema #BeginIndex #ALTER TABLE PolicyObject add index PolicyObject0_ndx ("NAME") #EndIndex BeginCreateSchema create table **PolicyActionCondition**(: EndCreateSchema BeginDropSchema drop table PolicyActionCondition EndDropSchema #BeginIndex #ALTER TABLE PolicyActionCondition add index PolicyActionCondition0_ndx ("NAME") #EndIndex BeginCreateSchema create table **POLICYUSERPROPS**(: EndCreateSchema BeginDropSchema drop table POLICYUSERPROPS : EndDropSchema #BeginIndex #ALTER TABLE POLICYUSERPROPS add index POLICYUSERPROPS0_ndx ("NAME") #ALTER TABLE POLICYUSERPROPS add index POLICYUSERPROPS1_ndx

Path	Name of File	Remarks	Snippet to be removed
			("OWNERNAME") #EndIndex BeginCreateSchema create table **DBPOLICY** (: EndCreateSchema BeginDropSchema drop table DBPOLICY drop index dbpolicy0_ndx EndDropSchema #BeginIndex #ALTER TABLE DBPOLICY add index dbpolicy0_ndx ("KEYSTRING") #EndIndex BeginCreateSchema create table **PolicyScheduleTime** (: EndCreateSchema BeginDropSchema drop table PolicyScheduleTime EndDropSchema BeginCreateSchema create table **AlertPolicyObject** (: EndCreateSchema BeginDropSchema drop table AlertPolicyObject EndDropSchema
	log4j.xml	Remove Policy related entries	<logger name="POLICYERR" additivity="false"> <level value="info"/> <appender-ref ref="nmserr_file"/> <appender-ref ref="mail"/> </logger> <logger name="POLICYUSER" additivity="false"> <level value="info"/> <appender-ref ref="nmsout_file"/> <appender-ref ref="mail"/> </logger>
	NmsProcesse sBE.conf	Remove Policy related entries	#java com.adventnet.management.policydb.NmsPo licyMgr PROCESS com.adventnet.manageme

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Path	Name of File	Remarks	Snippet to be removed
			nt.policydb.NmsPolicyMgr ARGS LOAD_DEFAULT_POLIC Y true
	NmsProcesse sFE.conf	Remove Policy related entries	# java com.adventnet.nms.fe.policy.PolicyFE PROCESS com.adventnet.nms.fe.poli cy.PolicyFE ARGS NULL
	relationalclass es.conf	Remove all Policy related entries	com.adventnet.management.policydb.Policy Object policydb RelationalPolicyObject PolicyObject com.adventnet.nms.policies.AlertPolicy poli cydb RelationalAlertPolicy AlertPolicyObj ect com.adventnet.nms.policies.TesterPolicy p olicydb RelationalPolicyObject PolicyObje ct com.adventnet.nms.policies.WebNMSBackU pPolicy policydb RelationalPolicyObject PolicyObject com.adventnet.nms.policies.ReportGenPolicy policydb RelationalPolicyObject Policy Object com.adventnet.nms.policies.AlertLogPolicy policydb RelationalPolicyObject PolicyObj ect com.adventnet.nms.policies.DeviceBackups policydb RelationalPolicyObject PolicyO bject com.adventnet.nms.policies.NodeDeletePolic y policydb RelationalPolicyObject Policy Object com.adventnet.nms.policies.EventLoggingPol icy policydb RelationalPolicyObject Poli cyObject com.adventnet.nms.policies.StatsTableClean up policydb RelationalPolicyObject Polic yObject
	RunTimeConfi g.xml	Remove the Module entry for Policy	<MODULE TREE-NAME="Policy" ICON- FILE="images/runtimeadmin/policy.png" NODE-ID="Policy" PANEL- NAME="com.adventnet.nms.runtimeconfig.A dventnetScreen" HELP-FILE- KEY="Runtime_Admin_Policy_Main_Help"> <LEVEL-ONE TREE-NAME="Policy Configuration" ICON- FILE="images/runtimeadmin/policyfilters.png" NODE-ID="Policy Configuration" PANEL- NAME="com.adventnet.nms.runtimeconfig.P

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Path	Name of File	Remarks	Snippet to be removed
			olicyConfigurationUI" HELP-FILE-KEY="Runtime_Admin_Policy_PolicyConfiguration_Help" /> </MODULE>
	securitydbData.xml	Remove the tags with value policy	<DATA ownername="NULL" groupname="Admin" viewname="policy"/> ... <DATA operationtype="1" operationname="Policy" viewname="policy"/> ... <DATA leaf="1" parent="Operation Tree Root" child="Policy"/> ... <DATA leaf="0" parent="Policy" child="Add Policy"/> <DATA leaf="0" parent="Policy" child="Update Policy"/> <DATA leaf="0" parent="Policy" child="Delete Policy"/>
<Web NMS Home>/html/defaultToAllUsers /	toolbar.xml	Remove the Panel tag pair with value "Policy Panel"	<PANEL-KEY name="PolicyPanel"> : </PANEL-KEY>
<Web NMS Home>/html/defaultToNewUsers <Web NMS Home>/users/guest <Web NMS Home>/users/root	Tree.xml	In the three mentinoed files, search for the keyword "Policy" and delete the corresponding entry	<LEVEL-1 MODULE-NAME="Policy" ICON-FILE="images/policy.png" TABLE-COLUMNS="Name=name=200;Groupname=groupName=170;Status=status=100;Period=period=80;" URL="jsp/GetPolicy.jsp" PANEL-NAME="com.adventnet.nms.policyui.NmsPolicyPanel" MENU-FILE-NAME="policymenu.xml" Client="All" TREE-NAME="Policies" ID="Policy" TARGET="center"/>

Unplugging Provisioning Service

Introduction

The AdventNet Provisioning Framework provides a powerful framework and tools for building vendor-specific and multi-vendor provisioning applications. It meets the needs of many Telecom Equipment Vendors and other equipment providers for provisioning and configuration of their devices, in a multi-vendor network. It enables service providers and system integrators to rapidly customize provisioning capabilities and add new support for multi-vendor networks. The following procedure is aimed at providing instructions/guidelines for safely removing Provisioning related components.

Procedure to remove Provisioning Service

- Directories/Jars/Files to be removed
- Modifications to be made

	Note :
	As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	- bsh-scripts - provisioningtemplates - provisioningresults - stylesheets
<Web NMS Home>/bin	provisioning
Files	
Path	**Name of Component**
<Web NMS Home>/conf	- EmsInventoryAPIs.xml - EmsInventoryAPIs.dtd - JmsConfiguration.dtd - JmsConfiguration.xml - ProvisioningExtensions.dtd - ProvisioningExtensions.xml - ProvisioningExtensionProxies.xml - ProvisioningFilters.xml - ProvisioningFilters.dtd

<Web NMS Home>/html	• TemplateTesterApplet.html
<Web NMS Home>/html/defaultsToAllUsers	• provisioningmenu.xml • provisioningoperationsmenu.xml
<Web NMS Home>/images	• deleteResultToolButton.png • deleteResultToolButton_mo.png • deleteTemplateToolButton.png • deleteTemplateToolButton_mo.png • LayoutManager.png • loadtemplate.png • operationsTreeIcon.png • provisioningMain.png • provisionToolButton.png • provisionToolButton_mo.png • provisioningTreeIcon.png • reloadTemplatesToolButton.png • reloadTemplatesToolButton_mo.png • stopOperationToolButton.png • stopOperationToolButton_mo.png • templatedetails.png • templatedetails_small.png • templatesTreeIcon.png • viewResultToolButton.png • viewResultToolButton_mo.png • viewTemplateToolButton.png • viewTemplateToolButton_mo.png
<Web NMS Home>/html	ProvisioningClientResources.properties
<Web NMS Home>/mibs	ATM-MIB

Make sure that provisioning has been removed from NmsServerClasses.jar present under <Web NMS Home>/classes directory.

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/conf	DatabaseAliases.conf	Remove the Provisioning related tables aliases	lastModifiedTime LASTMODIFIEDTIME model MODEL contact CONTACT managedObjectName MANAGEDOBJECTNAME operationalStatus OPERATIONALSTATUS location LOCATION adminStatus ADMINSTATUS vendor VENDOR description DESCRIPTION variantId VARIANTID
	DatabaseSchema.conf	Remove the Provisioning related tables- **NetworkInventory, ProvisioningVariantProps, ProvisioningVariant, OperationsTable**	BeginCreateSchema create table **NetworkInventory** (: EndCreateSchema BeginDropSchema drop table NetworkInventory EndDropSchema BeginCreateSchema create table **ProvisioningVariantProps** (: EndCreateSchema BeginDropSchema drop table ProvisioningVariantProps EndDropSchema BeginCreateSchema create table **ProvisioningVariant** (: EndCreateSchema BeginDropSchema drop table ProvisioningVariant EndDropSchema BeginCreateSchema create table **OperationsTable** ("USERNAME" VARCHAR(50) NOT NULL, : EndCreateSchema BeginDropSchema drop table OperationsTable EndDropSchema
	log4j.xml	Remove the Provisioning related file entries	<logger name="PROVUSER" additivity="false"> <level value="info"/> <appender-ref ref="nmsout_file"/> <appender-ref ref="mail"/> </logger> <logger name="PROVERR" additivity="false"> <level value="info"/> <appender-ref ref="nmserr_file"/> <appender-ref ref="mail"/> </logger>
	nmsInterfaces.conf	Remove the Provisioning related file entries	ProvToConfigIfc="com.adventnet.nms.provisioning.server.ProvToConfigIfcImpl" ProvToTopoIfc="com.adventnet.nms.provisioning.server.ProvToTopoIfcImpl"
	NmsProcessesBE.conf	Remove the Provisioning related file entries	#java com.adventnet.nms.provisioning.server.StartProvModule [DEBUG true/false] PROCESS com.adventnet.nms.provisioning.server.StartProvModule

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Path	Name of File	Remarks	Snippet to be removed
			ARGS NULL
<Web NMS Home>/conf	NmsProcessesFE.conf	Remove the Provisioning related file entries	#java com.adventnet.nms.fe.provisioning.ProvisioningFE [JMS_MODE true/false] PROCESS com.adventnet.nms.fe.provisioning. ProvisioningFE ARGS NULL
	relationalclasses.conf	Remove the Provisioning related file entries	com.adventnet.nms.provisioning.inventorydb.NetworkInventory inventorydb RelationalNetworkInventory NetworkInventory com.adventnet.nms.provisioning.inventorydb.ProvisioningVariant inventorydb RelationalProvisioningVariant ProvisioningVariant
	securitydbData.xml	Remove the Provisioning related file entries	<DATA operationname="**Provisioning**" operationtype="1" viewname="default Admin View"/> <DATA leaf="1" parent="Operation Tree Root" child="Provisioning"/> <DATA leaf="0" parent="Provisioning" child="View TemplateResult"/> <DATA authorizedview="NULL" namedview="Provisioning"/>
	threads.conf	Search for the key word and delete	**provisioning 4**
<Web NMS Home>/html/defaultsToAllUsers	toolbar.xml	Remove the Provisioning related entries	<PANEL-KEY name="**ProvisioningTemplatesPanel**"> : </PANEL-KEY> <PANEL-KEY name="ProvisioningOperationsPanel"> <: </PANEL-KEY>
<Web NMS Home>/html/defaultsToNewUsers	Tree.xml	Remove the Provisioning related entries	<DEVICE DEFAULT-CLOSE-OPERATION="DISPOSE_ON_CLOSE" INIT-ON-STARTUP="false" IMAGE-NAME="images/provisioningMain.png" PANEL-KEY="Provisioning" : </DEVICE>
<Web NMS Home>/users/guest <Web NMS Home>/users/root	Tree.xml	Remove the Provisioning related entries	< DEVICE DEFAULT-CLOSE-OPERATION="DISPOSE_ON_CLOSE" INIT-ON-STARTUP="false" IMAGE-NAME="images/provisioningMain.png" PANEL-KEY="Provisioning" : </DEVICE>

Unplugging TFTP Service

Introduction

The TFTP server enables the client to upload or download files between the server and the client. The information transfer is done in TFTP through port "69". The following procedure gives instructions to remove TFTP Service safely.

Procedure to remove TFTP Service

- Directories/Jars/Files to be removed
- Modifications to be made

	Note :
	As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Files	
Path	**Name of Component**
<Web NMS Home>/configtasks/root/	FileTransfer.xml
Jars	
Path	**Name of Component**
<Web NMS Home>/classes	AdventNetTftp.jar

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>	setEnv.bat/sh	Remove the TFTP reference from CLASSPATH	**Windows :** set TFTP_CLASSPATH=%NMS_CLASSES%\AdventNetTftp.jar **Linux/Solaris :** TFTP_CLASSPATH=${NMS_CLASSES}/AdventNetTftp.jar file:///$NMS_HOME/classes/AdventNetTftp.jar\
<Web NMS Home>/bin	startnms.bat/sh	Search for the key word and remove the entry	**Windows :** %TFTP_CLASSPATH%; **Linux/Solaris :** $TFTP_CLASSPATH:

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/conf	configprovider.xml	Remove the reference to TFTP in protocol tag	<protocol NAME="tftp" CONFIGPROVIDER="com.adventnet.management. config.tftp.TftpConfigProvider"/>
	launcher_conf.txt	Remove the reference to the AdventNet Tftp.jar in the CLASSPATH	./classes/AdventNetTftp.jar;
	NmsProcessesBE.conf	Remove the reference to TFTP Server	# java com.adventnet.nms.tftp.NmsTftpServer [TFTP_ROOT_DIRECTORY dir] [PORT portNo] PROCESS com.adventnet.nms.tftp.NmsTftpServer ARGS TFTP_ROOT_DIRECTORY /
	provider.xml	Remove the reference to TFTP in provider tag	<provider> <param name="TYPE" value="TFTP"/> <param name="PROVIDER" value="com.adventnet.management.tftp.TftpProtocolProvider"/> <param name="PROPERTY" value="com.adventnet.management.tftp.TftpProperty"/> </provider>
	serverparameters.conf	Remove the reference to TFTP Server	# java com.adventnet.nms.tftp.TftpServer [TFTP_ROOT_DIRECTORY] TFTP_ROOT_DIRECTORY
<Web NMS Home>/conf/feDeployment	startnmsFE.bat/sh	Search for the key word and remove the entry	**Windows :** %TFTP_CLASSPATH%; **Linux/Solaris :** $TFTP_CLASSPATH:
<Web NMS Home>/conf	wrapper.conf	Remove the reference to AdventNet Tftp.jar in the CLASSPATH	classes/AdventNetTftp.jar;

	Note : When the TFTP service of Web NMS is unplugged using the following procedure, **the in-built TFTP service in the WebNMS JMX Agent will not function**

	Warning : After unplugging TFTP components please keep in mind the following • TFTP task should not be added using the Add Task Configuration panel

Unplugging Themes

Introduction

Themes control the appearance of the GUI components. They are used for changing the skin of the GUI, its icons, fonts and provide unique styles of menu. The following procedure gives instructions to remove Themes, which are used by the Client .

Procedure to remove Themes

- Directories/Jars/Files to be removed
- Modifications to be made

	Note : As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	Themes
Files	
Path	**Name of Component**
<Web NMS Home>/bin/developertools	startThemeManager.sh/bat
<Web NMS Home>/conf	Themes.conf
<Web NMS Home>/images	theme_editor.png
Jars	
Path	**Name of Component**
<Web NMS Home>/classes	AdventNetThemeManager.jar

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/html/defaultsToAllUsers/	framemenu.xml	Remove the Theme selector menu	<MENU-ITEM name="SEPARATOR"/> <MENU-ITEM action_type="INVOKE_CLASS" action_value="com.adventnet.alf.themes.ThemeSelector" name="Themes"/>

Unplugging Studio Components

Introduction

Studio is an Integrated Development Environment (IDE) that provides facilities to customize the various Management Services of Web NMS, such as Discovery, Fault, Configuration, Performance, etc. Studio supports the entire development cycle of an EMS from modeling the device as a managed resource to customizing services to finally packaging and installing the application over Web NMS. Studio components can be removed at the end of the development cycle because there will be no necessity for these components for and after deployment. This following instructions is aimed at safely removing the Studio components.

Components Involved

- Bean Builder

- Chassis Wizard

- ConfigurationWizard

- Deployment Tools

    o Deployment Wizard

    o ConfigChecker Tool

- MultiProtocolBrowser

- NonUIAgent

- SNMPAgentSimulator

- TL1AgentSimulator

- TL1MessageBuilder

- Tutorials

	Note : • Studio components are tightly coupled and hence it is not possible to remove these components individually. • Tutorials are instructions on how to use Studio tools hence these are of no use without the Studio components.

Procedure to remove Studio related components

- Directories/Jars/Files to be removed

- Modifications to be made

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	- builder_template - builderconf - builderdata - dbutil - StudioTools - tutorials
<Web NMS Home>/ classes/com/adventnet/nms/tools	deployment
<Web NMS Home>/ classes/com/adventnet/studio/	framework
<Web NMS Home>/conf/	feDeployment
<Web NMS Home>/html	PackageWizard.properties
<Web NMS Home>/icons	- framemenu.jpg - listmenu.jpg - mapmenu.jpg - panelspecificmenu.jpg - treedetail.jpg - toolbardetails.jpg - userlistedprops.jpg - usersinnms.jpg
<Web NMS Home>/images	- adddevice.jpg - compiling.jpg - migwiz.jpg - mopropchooser.jpg - packing.jpg - statuspoller.jpg
Files	
Path	**Name of Component**
<Web NMS Home>	startStudioTools.bat
<Web NMS Home>/bin/developertools	- BeanBuilder.bat /sh - CommandLineStudioNarInstaller.bat/sh - CommandLineStudioNarUnInstaller.bat/sh - ConfigFileChecker.bat/sh - DeploymentWizard.bat/sh. - ObjectToRelational.bat/sh
<Web NMS Home>/conf	SQLDatatypes.xml
<Web NMS Home>/html	- BeanBuilder_ref.properties - BeanBuilder.properties - ConfigChecker.properties - DeploymentWizard.properties - ObjToRel.properties - MOWizard.properties
<Web NMS Home>/NetMonitor/build/	uninstall.xml

Jars	
Path	**Name of Component**
<Web NMS Home>/classes	• AdventNetAgentUIUtilities.jar • AdventNetBeanBuilder.jar • AdventNetBuilderDeployment.jar • AdventNetBuilderMigration.jar • AdventNetProBeansBeanInfo.jar • AdventNetSNMPAgentTools.jar • AdventNetTL1AgentTools.jar • AdventNetUIBeanInfo.jar • jcvs.jar • NarPackager.jar • SwingImages.jar

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/conf	launcher_conf.txt	1) Remove the following entries from property tag with value "AppList" • Chassis Wizard • Configuration Wizard • Multi Protocol Browser • SNMP Agent Simulator • Non UI Agent • TL1AgentSimulator • Bean Builder • TL1MessageBuilder • Deployment Wizard • Configuration File Checker 2) Nodes related to Studio under **Web NMS IDE**	**1) Chassis Wizard, Configuration Wizard,Multi Protocol Browser, SNMP Agent Simulator, Non UI Agent, TL1 Agent Simulator, Bean Builder, TL1 Message Builder, Deployment Wizard, Configuration File Checker.** **2)** Delete the whole <application> ...</application> tag pair for each entry in bold. <application> <property name="AppName" value="**Chassis Wizard**"/> : </application> <application> <property name="AppName" value="**Configuration Wizard**"/> : </application> <application> <property name="AppName" value="**Multi Protocol Browser**"/> : </application> <application> <property name="AppName" value="**SNMP Agent**

			Simulator"/> : </application> <application> <property name="AppName" value="**Non UI Agent**"/> : </application> <application> <property name="AppName" value="**TL1MessageBuilder**"/ > : </application> <application> <property name="AppName" value="**BeanBuilder**"/> : </application> <application> <property name="AppName" value="**TL1AgentSimulator**"/ > : </application> <application> <property name="AppName" value="**Deployment Wizard**"/> : </application> <application> <property name="AppName" value="**Configuration File Checker**"/> : </application>

	Note : After removing the above mentioned tools, it will **not** be possible to create any NAR files, install/uninstall NAR files created using Chassis Wizard, BeanBuilder.

Unplugging Update Manager Tool

Introduction

Update Manager tool is used to update to the next version of Web NMS. The input to the tool is a .ppm file and the result of using the tool is upgrading to the next version of Web NMS. The following procedure gives instructions to remove Update Manager Tool safely.

Procedure to remove Update Manager Tool

- Directories/Jars/Files to be removed

- Modifications to be made

	Warning : You will not be able to update to the next Service Pack if Update Manager Tool is removed

	Note : As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

1. Directories/Jars/Files to be removed

Directory	
Path	**Name of Component**
<Web NMS Home>	Patch
Files	
Path	**Name of Component**
<Web NMS Home>/bin	UpdateManager.sh/bat
<Web NMS Home>/conf	• SmartUpdateManager.xml • SmartUpdateManager.dtd • update_conf.xml • WebServerConfChanges.xml
<Web NMS Home>/conf/feDeployment/	update_conf.xml
<Web NMS Home>/html	• UpdateManagerResources_en_US.properties • UpdateManager.properties
Jars	
Path	**Name of Component**
<Web NMS Home>/classes	• AdventNetSUMServer.jar • AdventNetSUMClient.jar • AdventNetUpdateManager.jar • AdventNetUpdateManagerInstaller.jar

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2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>	setEnv.bat/sh	Remove the entries related to Update Manager	**Windows :** • set UMGR_INSTALLER_CLASSPATH=%NMS_CLASSES%\AdventNetUpdateManagerInstaller.jar • set UPDATE_MANAGER_CLASSPATH=%UMGR_INSTALLER_CLASSPATH%;%XML_CLASSPATH%;%JIMI_CLASSPATH%;%NMS_CLASSES%;%NMS_CLASSES% • set SUM_CLIENT_CLASSPATH=%NMS_CLASSES%\AdventNetSUMClient.jar;%UMGR_INSTALLER_CLASSPATH% • set SUM_SERVER_CLASSPATH=%NMS_CLASSES%\AdventNetSUMServer.jar **Linux/Solaris :** • UMGR_INSTALLER_CLASSPATH=$NMS_CLASSES/AdventNetUpdateManagerInstaller.jar • UMGR_INSTALLER_CLASSPATH: • SUM_CLIENT_CLASSPATH=$NMS_CLASSES/AdventNetSUMClient.jar:$UMGR_INSTALLER_CLASSPATH • SUM_SERVER_CLASSPATH=$NMS_CLASSES/AdventNetSUMServer.jar
	WebNMSLauncher.bat/sh	Remove the entries related to Update Manager	**Windows :** • %UPDATE_MANAGER_CLASSPATH%; • %NMS_CLASSES%\AdventNetUpdateManager.jar; **Linux/Solaris :** • $UPDATE_MANAGER_CLASSPATH: • $NMS_CLASSES/AdventNetUpdateManager.jar:
<Web NMS Home>/bin	BeanBuilder.bat/sh	Remove the Update Manager related jars	**Windows :** • %NMS_CLASSES%\AdventNetUpdateManager.jar; **Linux/Solaris :** • $NMS_CLASSES/AdventNetUpdateManager.jar:
	startApplicationClient.sh/bat	Remove the Update Manager related	**Windows :** • %JAVA_HOME%\bin\java -classpath %UPDATE_MANAGER_CLASSPATH% com.adventnet.tools.update.installer.UpdateManage

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		entries	r -u conf -h %NMS_HOME% -c • %SUM_CLIENT_CLASSPATH% • %NMS_CLASSES%\AdventNetUpdateManagerInstaller.jar; **Linux/Solaris :** • $JAVA_HOME/bin/java -classpath $UPDATE_MANAGER_CLASSPATH com.adventnet.tools.update.installer.UpdateManager -u conf -h $NMS_HOME -c • $SUM_CLIENT_CLASSPATH • $NMS_CLASSES/AdventNetUpdateManagerInstaller.jar:
	startnms.bat/sh	Remove the Update Manager related entries	**Windows :** • %JAVA_HOME%\bin\java -cp %UPDATE_MANAGER_CLASSPATH% com.adventnet.tools.update.installer.UpdateManager -u conf -h %NMS_HOME% -c • %SUM_CLIENT_CLASSPATH%;%SUM_SERVER_CLASSPATH%; **Linux/Solaris :** • $JAVA_HOME/bin/java -cp $UPDATE_MANAGER_CLASSPATH com.adventnet.tools.update.installer.UpdateManager -u conf -h $NMS_HOME -c • $SUM_CLIENT_CLASSPATH:$SUM_SERVER_CLASSPATH:
<Web NMS Home>/conf	launcher_conf.txt	Remove the Update Manager related jars from the CLASSPATH variables and the property tag.	1) **In NMS Server classpath** ../classes/AdventNetSUMClient.jar; ../classes/AdventNetSUMServer.jar; ../classes/AdventNetUpdateManagerInstaller.jar; 2) **In Classpath** ../classes/AdventNetSUMClient.jar; ../classes/AdventNetSUMServer.jar; ../classes/AdventNetUpdateManagerInstaller.jar;. 3) **In Deployment Wizard classpath** ../classes/AdventNetUpdateManagerInstaller.jar; 4) <property value="com.adventnet.tools.update.installer.UpdateManager" name="UpdateManagerImplClass"/>
<Web NMS Home>/conf	NmsProcessesBE.conf	Remove the Update Manager related entries	#java com.adventnet.nms.util.NmsSUM PROCESS com.adventnet.nms.util.NmsSUM ARGS NULL
<Web NMS Home>/conf	NmsProcessesFE.	Remove the	#java com.adventnet.nms.util.NmsSUM PROCESS com.adventnet.nms.util.NmsSUM

	conf	Update Manager related entries	ARGS NULL
<Web NMS Home>/conf/feDeployment	startnms FE.sh	Remove the Update Manager related entries	**Windows :** • %JAVA_HOME%\bin\java -cp %UPDATE_MANAGER_CLASSPATH%;%NMS_CLASSES% com.adventnet.tools.update.installer.UpdateManager -u conf -h %NMS_HOME% -c • %SUM_CLIENT_CLASSPATH%;%SUM_SERVER_CLASSPATH%; **Linux/Solaris :** • $JAVA_HOME/bin/java -cp $UPDATE_MANAGER_CLASSPATH:$NMS_CLASSES com.adventnet.tools.update.installer.UpdateManager -u conf -h $NMS_HOME -c • $SUM_CLIENT_CLASSPATH:$SUM_SERVER_CLASSPATH:
<Web NMS Home>/conf	wrapper. conf	Remove the Update Manager related jars	\classes\AdventNetUpdateManagerInstaller.jar; \classes\AdventNetSUMServer.jar; \classes\AdventNetSUMClient.jar;

Unplugging Third party software

Introduction

Third party software such as JRE and MySQL can be unplugged if alternative software are being used. The following procedure describes the file/directories/entries to be removed and modifications to be made in case any software other than the one bundled along with Web NMS, is going to be used.

Procedure to remove Third party Software

- JRE - Refers to the default JRE version bundled with Web NMS

- MySQL - MySQL is the default database of Web NMS

Note :	1. As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

Modifications to be made for unplugging JRE			
Path	**Name of Component**	**Remarks**	**Things to do**
<Web NMS Home>	**Directory:** jre	Can be removed if Web NMS does not use the bundled jre.	The classpath of the jre which Web NMS should use should be specified in the following files in the parameter JAVA_HOME • <Web NMS Home>/setEnv.bat set JAVA_HOME=<jre path> • <Web NMS Home>/bin/developertools/IDLtoJObjectsTool.bat set JAVA_HOME=<path> • <Web NMS Home>/bin/UpdateManager.bat set JAVA_HOME=<path> • <Web NMS Home>/bin/startThemeManager ../jre1.3/bin/java com.adventnet.alf.themes.LaunchThemeManager -i "splash.png" -c ../conf/Themes.conf
<Web NMS Home>/ classes	**Jars :** • crim son. jar • jaxp .jar • xala n.jar	This combinatio n of jars can be removed if jre1.4 is used instead of jre1.3.	• In **<Web NMS Home>/setEnv.bat/sh** file remove value set for XML_CLASSPATH. **Windows :** set XML_CLASSPATH=%NMS_CLASSES%\jaxp.jar;%NMS _CLASSES%\crimson.jar;%NMS_CLASSES%\xalan.jar **Linux :** XML_CLASSPATH=$NMS_CLASSES/jaxp.jar:$NMS_C LASSES/crimson.jar:$NMS_CLASSES/xalan.jar • In **<Web NMS Home>/bin/startThemeManager.bat/sh** remove the entries

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			../classes/xalan.jar;../classes/crimson.jar;../classes /jaxp.jar; • In **<Web NMS Home>/bin/UpdateManager.bat/sh** remove entries for ../classes/crimson.jar,../classes/jaxp.jar and ./classes/xalan.jar • In **<Web NMS Home>/conf/launcher_conf.txt** remove entries for ./classes/jaxp.jar,./classes/crimson.jar,./classes/x alan.jar **(all occurances)**

Modifications to be made for unplugging MySQL			
Path	**Name of Component**	**Remarks**	**Things to do**

<Web NMS Home >	mysql	Can be removed if
		
		• Any other database is used other than the one bundled in Web NMS is used
			1) If MySQL is used, Web NMS uses the port **3306** and this port number is **not configurable**.
			
			2) The following code modifications need to be made
			
			• Path for mysql home should be set to MYSQL_HOME parameter in **<Web NMS Home>/setEnv.bat**
			
			    Example Snippet: set MYSQL_HOME=C:/MySQL
			
			• Path for mysql home should be set to MYSQL_HOME parameter in **<Web NMS Home>/bin/startMySQL.bat**
			
			    Example Snippet: set MYSQL_HOME=C:/MySQL
			
			• If launcher is used, the following changes have to be made in **<Web NMS Home>/conf/launcher_conf.txt**
			
			    • In application tag with value Start Web NMS Server,Reinitialize Web NMS
			    Modify **-Dmysql.home=C:/MySQL** in property tag with value AppJavaOption
			    Modify **C:/MySQL/MMMySQLDriver/mysql _comp.jar;** in property Classpath
			    • In application tag with value Deployment Wizard,SNMPConfiguration Tool,Menu Configurator,SNMP V3 Security.
			    Modify **C:/MySQL/MMMySQLDriver/mysql _comp.jar;** in property Classpath

Zoho Corporation

Unplugging Web Client UI

Introduction

Web Client UI allows you access Web NMS through a web browser. The advantage of Web Client UI is that it fetches data at a faster rate and provides easy of use screens and options and allows custom views to be created. It provides Authentication and Authorization which form a vital part of the web-based Client. In case the user wishes not to use the Web Client UI, the following procedure can be used to remove Web Client UI.

Procedure to remove HTML UI

- Directories/Jars/Files to be removed
- Modifications to be made

> **Note :**
>
> As some of the files, folders and configuration file entries are specific to a particular release of Web NMS, you may not find these if you are using some other release version/service pack. Hence, in that case, you can ignore the instructions related to the removal of these files, folders and configuration file entries.

Directories/Jars/Files to be removed

Directory	
Path	**Name of Component/s**
<Web NMS Home>/webclient	- admin - fault - home - map - perf - report - topo
Jars	
Path	**Name of Component/s**
<Web NMS Home>/WEB-INF/lib	- webclient-admin.jar - webclient-fault.jar - webclient-home.jar - webclient-map.jar - webclient-perf.jar - webclient-report.jar - webclient-topo.jar
Files	
Path	**Name of Component/s**
<Web NMS Home>/html	- AddModifyMenu.html - AddModifyMenuFrontPage.html - AddRemove.html - DataCollection.html - DataCustomView.html - GetObject.html - Removesuccess.html - Removeunsuccess.html - ShutDown.html - Success.html - Unsuccess.html
<Web NMS Home>/reports	- AvgReportForm.html - SimpleReportForm.html

2. Modifications to be made

Path	Name of File	Remarks	Snippet to be removed
<Web NMS Home>/WEB-INF	web-header.xml	Remove the entries related to Web Client	```<init-param> <param-name>config/fault</param-name> <param-value>/webclient/fault/conf/**fault-struts-config.xml**</param-value> </init-param> <init-param> <param-name>config/topo</param-name> <param-value>/webclient/topo/conf/**topo-struts-config.xml**</param-value> </init-param> <init-param> <param-name>config/map</param-name> <param-value>/webclient/map/conf/**map-struts-config.xml**</param-value> </init-param> <init-param> <param-name>config/report</param-name> <param-value>/webclient/report/conf/**report-struts-config.xml** </param-value> </init-param> <init-param> <param-name>config/perf</param-name> <param-value>/webclient/perf/conf/**perf-struts-config.xml** </param-value> </init-param> <init-param> <param-name>config/admin</param-name> <param-value>/webclient/admin/conf/**admin-struts-config.xml** </param-value> </init-param> <init-param> <param-name>config/home</param-name> <param-value>/webclient/home/conf/**home-struts-config.xml** </param-value> </init-param>```
<Web NMS Home>/WEB-INF	web-header.xml	Remove the entries related to Web Client	```<context-param> <param-name>ring</param-name> <param-value>com.adventnet.nms.webclient.map.layout.RingLayout </param-value> </context-param> <context-param> <param-name>star</param-name> <param-value>com.adventnet.nms.webclient.map.layout.StarLayout </param-value> </context-param> <context-param> <param-name>grid</param-name> <param-value>com.adventnet.nms.webclient.map.layout.NmsGridLayout </param-value> </context-param>```

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			`<context-param>`
			`<param-name>flow</param-name>`
			`<param-value>com.adventnet.nms.webclient.map.layout.NmsFlowLayout </param-value>`
			`</context-param>`
			
			`<context-param>`
			`<param-name>switch</param-name>`
			`<param-value>com.adventnet.nms.webclient.map.layout.SwitchLayout`
			`</param-value>`
			`</context-param>`
			
			`<context-param>`
			`<param-name>ethernet</param-name>`
			`<param-value>com.adventnet.nms.webclient.map.layout.EthernetLayout`
			`</param-value>`
			`</context-param>`
			
			`<context-param>`
			`<param-name>exampleMapStatus</param-name>`
			`<param-value>enabled</param-value>`
			`</context-param>`

<Web NMS Home>/WEB-INF	web-header.xml	Remove the entries related to Web Client	`<init-param>`
			`<param-name>TopoModulePrefix</param-name>`
			`<param-value>/topo</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>FaultModulePrefix</param-name>`
			`<param-value>/fault</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>MapModulePrefix</param-name>`
			`<param-value>/map</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>PerfModulePrefix</param-name>`
			`<param-value>/perf</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>AdminModulePrefix</param-name>`
			`<param-value>/admin</param-value>`
			`</init-param>`
			
			`<load-on-startup>200</load-on-startup>`
			`</servlet>`
			
			`<servlet>`
			`<servlet-name>`**ReportInitializationServlet**`</servlet-name>`
			`<servlet-`
			`   class>com.adventnet.nms.webclient.performance.reports.ReportInitializationServlet </servlet-class>`
			
			`<init-param>`
			`<param-name>GraphInfoPath</param-name>`
			`<param-value>webclient/perf/conf/GraphInfo.xml</param-`

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			value>
			`</init-param>`
			
			`<init-param>`
			`<param-name>DefaultReportType</param-name>`
			`<param-value>INTERFACE_in_octets</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>DefaultGraphType</param-name>`
			`<param-value>LineGraph</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>DefaultPeriod</param-name>`
			`<param-value>today</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>GraphRenderPath</param-name>`
			`<param-value>graphs/graph.jpg</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>JasperCompiledResource</param-name>`
			`<param-`
			`value>webclient/perf/conf/TableReportFormat.xml.jasper</p`
			`aram-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>JasperHtmlDataPath</param-name>`
			`<param-value>reports/ReportTable.html</param-value>`
			`</init-param>`
			
			`<init-param>`
			`<param-name>defaultXaxisDateFormatForDay</param-name>`
			`<param-value>HH:mm</param-value>`
			`</init-param>`
			`<init-param>`
			`<param-name>defaultXaxisDateFormatForWeek</param-name>`
			`<param-value>MMM, dd</param-value>`
			`</init-param>`
			`<init-param>`
			`<param-name>defaultXaxisDateFormatForMonth</param-name>`
			`<param-value>MMM, dd</param-value>`
			`</init-param>`
			`<init-param>`
			`<param-name>defaultXaxisDateFormatForYear</param-name>`
			`<param-value>MMM, dd</param-value>`
			`</init-param>`
			`<init-param>`
			`<param-name>ReportPeriodList</param-name>`
			`<param-value>today,past7days,past30days,custom</param-value>`
			`</init-param>`

\<Web NMS Home>/html/defaultsTo AllUsers/	framemen u.xml	Remove the entries related to System	`<MENU-ITEM name="`**System Administration**`">`
			`<HTML-UI action_link="../jsp/SysAdminFrontPage.jsp"`
			`target="center" action_command="Sys Admin"/>`
			`<JAVA-UI name="SystemAdmin"`
			`accelerator_modifier="CNTRL-SHIFT"`

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		Administration	action_value="../jsp/index.jsp?fromAppClient=../jsp/SysAdminFrontPage.jsp" shortcut_key="S" accelerator_key="S" action_type="opennw"/> </MENU-ITEM> <MENU-ITEM name="SEPARATOR"/>
	pollmenu.xml	Remove the entry related to Reports	<MENU-ITEM name="**Reports**" shortcut_key="P" action_command="View Reports"/>
	toolbar.xml	Remove the entries related to System Administration and HTML UI	• <TOOLBAR-BUTTON action_command="**SystemAdmin**" mouseoverimage="../images/sysadmin_mo.png" image="../images/sysadmin.png" tooltip="System Administration"> <OPERATION name="System Administration"/></TOOLBAR-BUTTON> - **10 occurances** • <TOOLBAR-BUTTON action_command="**htmlui**" mouseoverimage="../images/htmlui_mo.png" image="../images/htmlui.png" tooltip="HTML UI"/> - **8 occurances**
<Web NMS Home>/html/defaultsToNewUsers	Tree.xml	Remove the entries related to System Administration	<LEVEL-1 ICON-FILE="images/sys.png" TARGET="center" Client="HTML" ID="**System Administration**" URL="jsp/SysAdminFrontPage.jsp" MODULE-NAME="Default" TREE-NAME="System Administration"/>
<Web NMS Home>/users/guest <Web NMS Home>/users/root	Tree.xml	Remove the entries related to System Administration	<LEVEL-1 ICON-FILE="images/sys.png" TARGET="center" Client="HTML" ID="**System Administration**" URL="jsp/SysAdminFrontPage.jsp" MODULE-NAME="Default" TREE-NAME="System Administration"/>

	Note : **The class files** present under **<Web NMS Home>/WEB-INF/classes/com/adventnet/nms/servlets** directory and **<Web NMS Home>/WEB-INF/classes/org/apache/jsp/jsp** directory **should not be removed**.

After performing the above steps, execute **compileJSP.bat** present under <Web NMS Home>/bin directory. This is done to modify the web.xml file present under <Web NMS Home>/WEB-INF directory. Now restart the server and connect your browser to the server to see the changes.

Unplugging Java UI

AdventNet Web NMS has three types of Java User Interfaces, Applet, Standalone Application, and Web Start. This GUI has extensive custom capabilities. Refer to Java Client Framework documentation for more details on customization.

The Java Client (Applet, Standalone Application, and Web Start) can be disabled if it is not required. Following are the details of the changes required to disable Java UI:

- Files to be removed
- Changes in Web NMS Launcher
- Modifications to be made

Files to be removed

Jars	
Path	**Name of Component**
<Web NMS Home>/classes	NmsClientClasses.jar
Files	
Path	**Name of Component**
<Web NMS Home>/bin	startApplicationClient.bat/sh
<Web NMS Home>/conf	WebNMS.jnlp

Changes in Web NMS Launcher

Various Web NMS tools can be invoked from the launcher, including the Application Client and Applet Client. These options can be disabled from the launcher by making the following changes:

1. The **launcher_conf.txt** file present in *<Web NMS Home>/conf* directory contains entries for all the applications that are invoked from the Launcher. Remove the entries for Application Client and Applet Client. The entries to be removed are:

```
</application>
<application>
<property name="AppName" value="Application Client"/>
<property name="ToolTip" value="Connects the Application Client"/>
.........
.........
</application>
<application>
<property name="AppName" value="Applet Client"/>
<property name="ToolTip" value="Connects the Applet Client"/>
.........
.........
</application>
```

2. In the same configuration file, for the **AppList** property, remove **Application Client** and **Applet Client** from the list of arguments given as **value**. Remove the entries highlighted in blue color below:

<property name="**AppList**" value="Start Web NMS Server,**Application Client**,**Applet Client**,Shutdown NMS Server,Web NMS IDE,Studio,Chassis Wizard,Configuration Wizard,BeanBuilder,Deployment ...."/>

---

3. Restart the Web NMS Launcher to see the changes with the options to invoke Application and Applet Clients removed.

Modifications to be made

Customizing Log-in Screen:

The log-in page displayed when you connect your browser to the Web NMS Server port (default being 9090), contains options to log into Applet client and Web Start client. The file Login.jsp present in <Web NMS Home>/webclient/common/jsp directory must be customized to disable these options. So,

1. Make the required changes to this jsp file.
2. Compile the jsp file using the compileJSP.bat/sh tool present in <Web NMS Home>/bin directory.
3. Restart the server and connect your browser to the server to see the changes.

The above steps enable unplugging the three types of Java User Interfaces, Applet, Standalone Application, and Web Start, from your application.