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IBM Communication Service Enablers V7.2

Interactive installation of IP Multimedia Subsystem Connector V7.2

This presentation deals with the Interactive Installation for IP Multimedia Subsystem Connector, Version 7.2.

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- Problem determination - which includes the log files

- Reference

Why interactive installers?

- Greatly reduces the time and effort of installing the IP Multimedia Subsystem Connector component
- Installer creates all required J2EE resources and deploys Diameter web services applications
- The IP Multimedia Subsystem Connector V7.2.0 includes an interactive graphical user interface (GUI) for installation and uninstallation, along with silent installation and uninstallation methods

Interactive Installer greatly reduces the time and effort of installing the IP Multimedia Subsystem Connector component.

Manual installation requires creation of all the J2EE resources such as JDBC providers, data sources, and so on. But the interactive installer creates all the required J2EE resources and deploys Diameter web services applications.

The IP Multimedia Subsystem Connector version 7.2 includes an interactive graphical user interface (GUI) install and uninstall. This helps a new user install IP Multimedia Subsystem Connector without any difficulty.

IP Multimedia Subsystem Connector version 7.2 also provides the silent install and uninstall options.

Installation prerequisites

- Desired WebSphere Application Server topology (single server or ND/cluster) should be installed and configured
- A supported database (DB2® or Oracle) should be installed for the subscribe and notification functions of Sh and or Ro. See *"Preparing the database"* section of IP Multimedia Subsystem Connector Information Center:

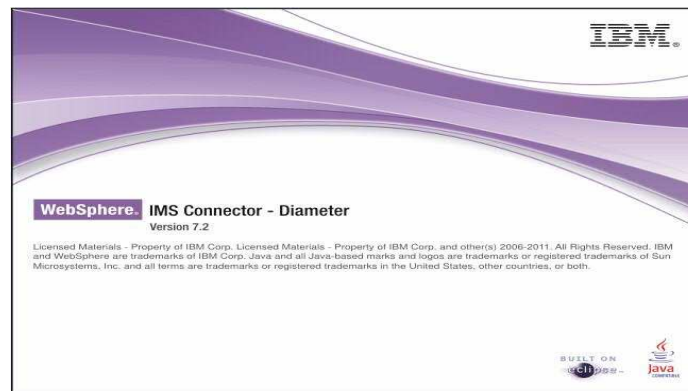http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp?topic=/com.ibm.diameter.doc/home.html

- Selected database JDBC jars should be installed on each of the WebSphere nodes including the DMGR Node

This slide lists the installation prerequisites.

- Desired WebSphere Application Server topology should be installed and configured. WebSphere Application Server should be installed with a single server or cluster created.

- A supported database, either DB2 or Oracle, should be installed. This is used for the subscribe and notification functions of Diameter component. For more information, see "Preparing the database" section of IP Multimedia Subsystem Connector Information Center (http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp?topic=/com.ibm.diameter.doc/home.html).

- The selected database JDBC jars should be installed on each of the WebSphere nodes, including the Deployment Manager Node.

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- Product splash screen
  - Displayed for a few seconds when the IP Multimedia Subsystem Connector installer is launched

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Installer GUI Flows

As soon the installer is launched, this product splash screen is displayed for a few seconds.

Installer GUI flows (2 of 12)

- Introduction panel
  – Contains the product welcome information, product name, and version

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The Introduction panel displays the product welcome information, product name, and version.

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Installer GUI flows (3 of 12)

- License panel
  - Displays the installer specific license agreement
  - You have to choose a radio button:
    - I accept the terms of the license agreement
    - I do not accept the terms of the license agreement

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The License panel has the installer specific license agreement.

You have to choose one of the radio buttons.

You can proceed with the installation only if you accept the license terms. If you do not accept the license terms, an error message is displayed.

Installer GUI flows (4 of 12)

- WebSphere Installation Selection panel
  - Lists all the qualified WebSphere Application Server installations on the system
  - InstallAnywhere (IA) installer finds all WebSphere Application Server installations on the system by looking at the .nif registry used by WebSphere

The WebSphere Installation Selection panel displays all the qualified WebSphere Application Server installations available on the machine.

The interactive installer finds all the WebSphere Application Server installations from the .nif registry used by WebSphere.

Installer GUI flows (5 of 12)

- WebSphere Application Server Version Not Supported Warning Panel
  - Displayed if the WebSphere server installed at the target destination path is not a supported version of the WebSphere Application Server

IBM WebSphere IMS Connector

Prerequisite Check Status

✓ Introduction
▶ WebSphere Configuration
▷ Database Parameters
▷ Pre-Installation Summary
▷ Installing
▷ Application Deployment
▷ Installation Complete

Prerequisite check:

HQTC0527W: WARNING: The selected WebSphere Application Server installation does not meet the prerequisite level for the IMS Connector product. You may proceed but it is possible that unexpected errors will occur with an unsupported WebSphere version.

InstallAnywhere by Macrovision
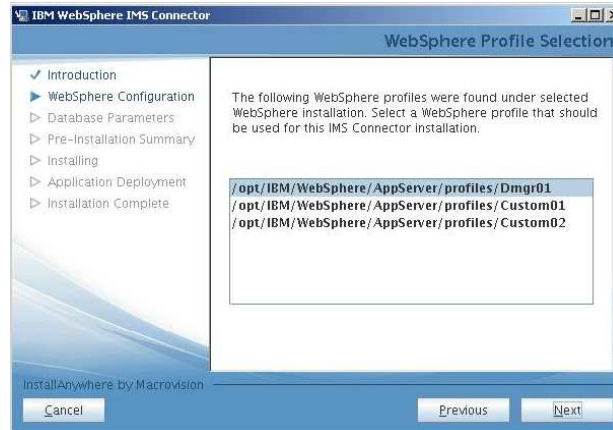
Cancel   Previous   Next

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This is the warning message you get when the WebSphere Application Server version is not supported. The minimum requirement for installation of IP Multimedia Subsystem Connector 7.2 is WebSphere Application Server, Version 7.0. If the WebSphere Application Server version is lower than that, this warning is displayed.

Installer GUI flows (6 of 12)

▪ WebSphere Profile Selection panel
   – Lists all the WebSphere profiles found in the selected WebSphere installation
   – Choose one of them for IP Multimedia Subsystem Connector deployment

The WebSphere Profile Selection panel displays the existing profiles available in the selected WebSphere installation. The user should choose a profile for the IP Multimedia Subsystem Connector deployment.

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Installer GUI flows (7 of 12)

- WebSphere Information Input panel
  - Gathers information such as host name, port of the WebSphere profile you chose, and WebSphere administrator user name and password
  - These parameters are used to connect to the running WebSphere instance, to find currently installed applications, and to modify WebSphere configuration

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The WebSphere Information Input panel prompts to provide the host name and port of the machine to which the IP Multimedia Subsystem Connector is being installed.

These parameters are required to connect to the WebSphere instance and configure it.

If security is enabled for WebSphere Application Server, select the **WebSphere environment is secured** check box, and provide the WebSphere administrator user name and password.

If security is not enabled, do not select the check box and the administrator credentials are not required.
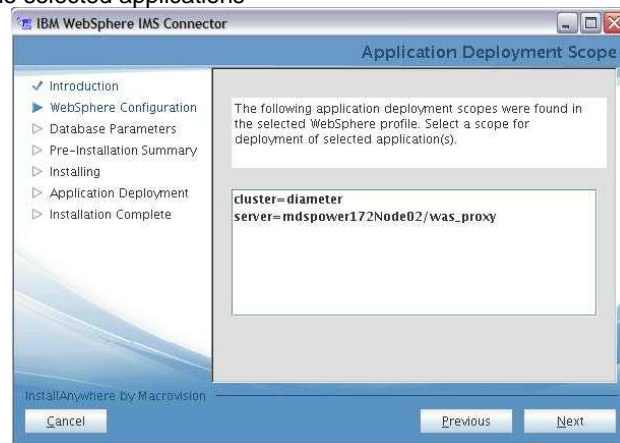
Installer GUI flows (8 of 12)

- Feature Selection Panel
  - Lists the IP Multimedia Subsystem Connector features available for installation

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The Feature Selection panel lists the IP Multimedia Subsystem Connector features available for installation - TAI, SNMP, and the Diameter features.

Select the required features, and click **Next** to proceed.

- Application Deployment Scope panel
  - Lists the available scopes found on the selected profile
  - Choose one of the WebSphere scope (cluster or server) that the installer can use to deploy the selected applications

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The Application Deployment Scope panel lists the available scope.

Select the WebSphere scope (cluster or server) that the installer uses to deploy the selected applications.

Installer GUI flows (10 of 12)

- Database Details panel
  - Prompts for the database parameters that can be used to connect to the IP Multimedia Subsystem Connector database
  - These parameters are required only if you want to use the subscribe and notification functions of Sh or Ro

You need to provide database details in this panel only if you want to use the subscribe and notify features of the Sh or Ro web service. If not, click **Next** to proceed.

To use the feature, select the **Use subscribe & notification feature for Sh/Ro** check box and select either **DB2** or **Oracle**.

Then enter the values for the specified parameters.

Installer GUI flows (11 of 12)

- Pre-Installation Summary panel
  - Displays the choices made and the estimated size footprint
  - This panel is your last chance to cancel installation of the selected IP Multimedia Subsystem Connector features

The Pre-Installation Summary panel shows the choices made and is the last screen from where the installation can be cancelled.

You have three options - click **Previous** to go back to the earlier screens to modify the components or other details, or click **Cancel**, or click **Install** to continue.

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Installer GUI flows (12 of 12)

- ▪ Install Complete panel
  - – Displays the success message with the path and other details of installation

IBM WebSphere IMS Connector

Install Complete

✓ Introduction
✓ WebSphere Configuration
✓ Database Parameters
✓ Pre-Installation Summary
✓ Installing
✓ Application Deployment
▶ Installation Complete

Congratulations! IMS Connector has been successfully installed to: /opt/IBM/WebSphere/AppServer

Response file is created at:
/opt/IBM/WebSphere/AppServer/installableApps/ImsConnector
/Diameter_install.rsp

Log file is created at:
/opt/IBM/WebSphere/AppServer/logs/Diameter_Connector_Inst
allLog.log

You must re-start WebSphere process to complete the IMS Connector installtion.

Press "Done" to quit the installer.

InstallAnywhere by Macrovision

Cancel   Previous   Done

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The Install Complete panel confirms the successful installation and gives the required details. Click **Done** to exit the installer.

If the deployment manager is on one machine and the node on another machine, then install IP Multimedia Subsystem Connector on the node machine also. Follow the installation steps as described in the earlier slides.
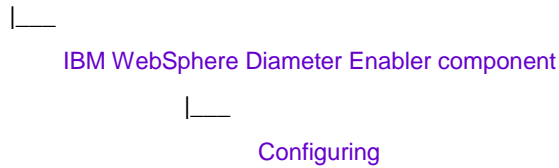
Component-specific configuration (1 of 2)

For Diameter components and for TAI (Trust Association Interceptor), manual configuration is required after the installation is complete.

For Diameter Components :

Link : http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp

Section : IBM WebSphere IP Multimedia Subsystem Connector

|___

         IBM WebSphere Diameter Enabler component

            |___

                Configuring

If the Diameter component or TAI (Trust Association Interceptor) is installed, configure these components manually. This is not a part of InstallAnywhere interactive installer.

Once IP Multimedia Subsystem Connector has been installed through the interactive installer, see the Information Center sections (http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp) and do the required manual configuration.
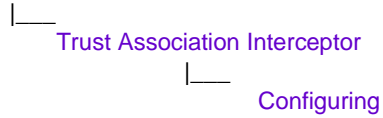
For the Diameter component, navigate to this section in the Information Center:
IBM WebSphere IP Multimedia Subsystem Connector > **IBM WebSphere Diameter Enabler component** > **Configuring**

Component-specific configuration (2 of 2)

For TAI :

Link : http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp

Section : IBM WebSphere IP Multimedia Subsystem Connector
|___
Trust Association Interceptor
|___
Configuring

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For TAI, navigate to this section in the Information Center
(http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp):
IBM WebSphere IP Multimedia Subsystem Connector > **Trust Association Interceptor**
> **Configuring**

Uninstaller GUI flows (1 of 3)

- Introduction panel
    – To uninstall, go to *WAS_HOME* **> Uninstall_IMS Connector** and launch
      Uninstall_IMS_Connector

To uninstall, navigate to *WAS_HOME* > **Uninstall_IMS Connector** and launch the **Uninstall_IMS_Connector**.

The Introduction panel is displayed.

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Uninstaller GUI flows (2 of 3)

- WebSphere Information Input panel
    - Prompts for host name and SOAP port of the WebSphere profile on which IP Multimedia Subsystem Connector is installed
    - These parameters are used to connect to the running WebSphere instance, to find the installed IP Multimedia Subsystem Connector Applications, and to modify WebSphere configuration

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WebSphere Information Input panel populates the host name and SOAP port provided during installation.

To enable security, select the **WebSphere environment is secured** check box and give the administrator user name and password.

Uninstaller GUI flows (3 of 3)

- Uninstall complete panel
  - Displays the success message after uninstalling IP Multimedia Subsystem Connector

The Uninstall Complete panel confirms the removal of the IP Multimedia Subsystem Connector.

Silent installation

- IP Multimedia Subsystem Connector installer and uninstaller can be silently installed through custom-generated response file
- Sample response files are packaged on the CD images in the same locations where the platform-specific installers are packaged
- Silent install syntax is :
  - setup –i silent **–f** *<path to responseFileName>*
  - uninstall –i silent **–f** *<path to responseFileName>*
- Response file names packaged with the CD are:
  - Diameter_install.rsp
  - Diameter_uninstall.rsp
- When the silent installation is done, check the appropriate installer log, and verify that the installation is complete

To silently install and uninstall the IP Multimedia Subsystem Connector, configure the response files.

Sample response files are packaged on the CD images in the same location where the platform-specific installers are packaged.

This slide contains the silent installation and uninstallation syntax, along with the response file names packaged with the CD.

When the silent installation is done, check the appropriate installer log and verify that the installation is complete.

Response file parameters (1 of 3)

Parameter	Description	Possible Values
LICENSE_ACCEPTED	User acknowledgement of the IBM icense Acceptance.	true false
NSTALL_TYPE	ndicates if this is an 'upgrade' to an xiting version of IP Multimedia Subsystem Connector or a new ' nstall'. Adding features to existing P Multimedia Subsystem Connecto f same version is considered as an ' nstall'	Upgrade install
WAS_HOME	The absolute path to the WebSpher Application Server root directory	<String>
WAS_PROFILE	The absolute path to the WebSpher Application Server profile root irectory	<String>
SELECTED_FEATURES	Specify the IP Multimedia Subsystem Connector features to nstall separated by comma.	Valid values for Dmgr/Server rofile: TAI,Ro,Rf,Sh Valid values for Node profiles: TAI,DiamBase TAI - Trust Association Interceptors both SIP and HTTP interceptors) Ro - Diameter Ro (online charging) web service Rf - Diameter Rf (offline ccounting) web service Sh - Diameter Sh (subscriber rofile) web service DiamBase - Diamter enabler base untime OSGI bundle.

The IP Multimedia Subsystem Connector response file parameters are mentioned in this slide. Edit these parameters before the silent installation or uninstallation.

License Accepted - The possible values are true or false

Install Type - The possible values are Upgrade or Install

WAS_HOME - is the path where WebSphere Application Server is installed

WAS_PROFILE - is the path to the WebSphere Application Server profile root directory

SELECTED_FEATURES - You can specify the required features as a comma-separated list

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Response file parameters (2 of 3)

Parameter	Description	Possible Values
WAS_HOST	Target Deployment Manager or WebSphere Application Server Hostname	Valid host name or IP address
WAS_PORT	Target WebSphere Application Server SOAP Port	Valid port number
WAS_SECURED	Boolean indicating if the WebSphere nvironment is secured	0 for false, 1 for true
WAS_USER	WebSphere Application Server dministrative user	Valid WebSphere Application Server dministrative username
WAS_PASSWORD	WebSphere Application Server dministrative user's password	Valid WebSphere Application Server dministrative user's password
WAS_SCOPE	An existing application deployment cope in the WebSphere Network Deployment cell where selected IP Multimedia Subsystem Connector pplications need to be deployed	Scope can be either a existing luster or Node/Server value
USE_SUBSCRIBE_NOTIFY	Boolean indicating if Sh/Ro ubscribe and notification is used. This feature needs a supported atabase	for true, any other value is onsidered as false
DB_TYPE	Type of supported database for Sh/Ro subscribe and notification unction	DB2, ORACLE (supported atabases for Diameter)
DB_HOST	Database hostname where database or subscribe and notification unction exists	Valid database host name
DB_PORT	Port number where database is listening on.	Valid database port number

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WAS_HOST - is the valid host name or IP address of the machine where IP Multimedia Subsystem Connector is to be installed.

WAS_PORT - is the valid port number

WAS_SECURED - possible values is 0 for false and 1 for true

WAS_USER & WAS_PASSWORD - need to be provided only if security is enabled, that is if WAS_SECURED is 1 for true

WAS_SCOPE - can be either an existing cluster or a Node/Server value

USE_SUBSCRIBE_NOTIFY - possible values are 1 for true, and any other value is considered as false

DB_TYPE - can be either DB2 or Oracle

DB_HOST - is the host name or IP address of the database

DB_PORT - is a valid database port number

Response file parameters (3 of 3)

Parameter	Description	Possible Values
DB_DRIVER	Directory on Diameter/WebSphere Application Server machine containing database driver files. See the information center for more on this in case of cluster environment.	Valid directory path
DB_NAME	Database instance name created for IP Multimedia Subsystem Connector	Valid database name
DB_USER	Database user name of IP Multimedia Subsystem Connector database.	Valid user name
DB_PASSWORD	Password for IP Multimedia Subsystem Connector database.	<String>

DB_DRIVER - this is a valid directory path where the DB2 jars are placed

DB_NAME - is a valid database name

DB_USER & DB_PASSWORD - is a valid user name and password

Problem determination

- Log file: During the installation process a log file (IMS_Connector_InstallLog.log) is created by the IP Multimedia Subsystem Connector installer at **WAS_HOME**/**logs** directory. This log file is NLS translated. This log file includes the IA[®] standard logging and the custom code log.

- Trace file: A trace file (IMS_Connector_InstallTrace.log) is created by the IP Multimedia Subsystem Connector installer at /**tmp** directory. This trace file contains detailed step by step log and primarily used for problem determination by support personnel. This trace file is also used for initial debugging.

Problem determination for IP Multimedia Subsystem Connector can be done through two files - the log file and the trace file.

Log file is created at **WAS_HOME**/**logs** directory. This log file includes the InstallAnywhere interactive installer standard logging and the custom code log.

The trace file is typically used for problem determination. It is created at the /**tmp** directory. This trace file is also used for initial debugging.

Reference

- IP Multimedia Subsystem Connector, Version 7.2.0 Information Center
  - http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp

For more information, see the Information Center
(http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp).

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