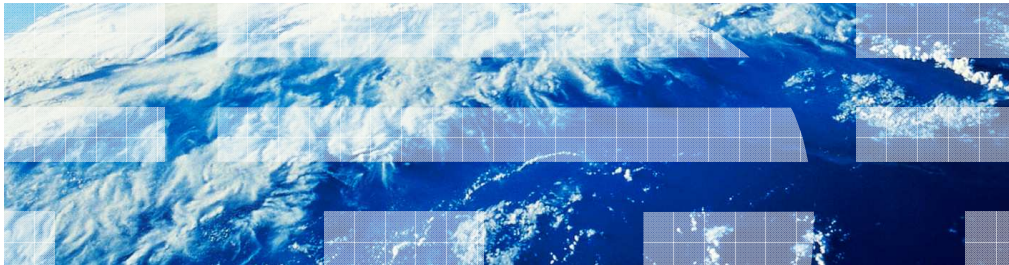

IBM Communication Service Enablers V7.2

Installers for Telecom Web Services Server V7.2



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This presentation deals with IBM Installation Manager support for the installation of Telecom Web Services Server (TWSS) version 7.2.

Agenda

- Changes in TWSS 7.2 installers
- Installation prerequisites
- Installer GUI flows
- Installer Error/Warning panels
- Silent installation
- Problem determination
- Summary and references

The agenda includes:

- Changes in the TWSS 7.2 installer
- Prerequisites required to install the product
- Installation GUI flows - the installation flow, the modification, and uninstallation
- Different error and warning panels that you might encounter while installing
- How to run the silent installation, and the sample response file to be used
- Problem determination
- Summary

Changes in TWSS 7.2 installers

The next few slides give an introduction to the changes in the TWSS 7.2 installers.

Overview of changes in TWSS 7.2 installers

- **Migration of InstallAnywhere-based TWSS Installer to IBM Installation Manager.**
 - The TWSS 7.1 has installers based on the InstallAnywhere 2008 Value Pack™1.
 - TWSS installers are moved from InstallAnywhere-based installers to IBM Installation Manager.
 - InstallManager is used to construct graphical and command-line installers for the TWSS Base, Services, and WebSphere® Integration Developer plug-ins.
- **TWSS – Base**
 - Added a new feature in “Feature Selection Panel”
- **TWSS – Services**
 - Added a new feature in “Feature Selection Panel”
- **TWSS – WebSphere Integration Developer plug-in**
 - Decoupled mediation primitive plug-ins and default mediation flows in “feature selection panel”

The TWSS installer has changed from the InstallAnywhere-based installer to IBM Installation Manager.

TWSS 7.1 had installers based on the InstallAnywhere 2008 Value Pack1.

TWSS 7.2 can be installed using IBM Installation Manager.

Installation Manager is used to construct graphical and command-line installers for the three installers of TWSS - TWSS Base, Services and WID (WebSphere Integration Developer) plug-ins.

IBM Installation Manager is a tool to install and maintain your software package.

Each wizard guides you through the steps to install, modify, update, rollback, or uninstall your IBM product.

As part of TWSS 7.2 changes, a new feature has been added in TWSS Base and Services; and in the WID plug-in (when compared to TWSS 7.1), a feature has been decoupled into two independent features.

Three TWSS offerings

- **TWSS Base offering**
 - Installs Base Common Feature, Service Policy Manager, Access Gateway, Service Platform, and First Steps
- **TWSS Services offering**
 - Installs Service Implementations
- **TWSS WIDPlugin offering (development)**
 - Installs WebSphere Integration Developer plug-ins and project interchange files

The installers are referred to as offerings because it is consumed by IBM Installation Manager, which installs the product.

The architecture and the design of TWSS 7.1 has been retained.

There are three offerings:

- TWSS Base Offering - installs base features like - Base Common Feature, Service Policy Manager, Access Gateway, Service Platform, and First Steps
- TWSS Services Offering - has a list of all the service implementations that TWSS has to provide out of the box; the Service Implementation has been de-coupled in this offering
- TWSS WIDPlugin Offering - is used for development purposes; it is typically used by the developer to import the project interchanges and make changes to the Access Gateway flows

Installation prerequisites

The next slide discusses the prerequisites required for the installation.

Installation prerequisites

- TWSS - BASE
 - IBM Installation Manager 1.3.3 or greater
 - WebSphere Application Server 7.0
 - WebSphere Enterprise Service Bus 7.0 (Only for Access Gateway Components)
- TWSS – SERVICES
 - IBM Installation Manager 1.3.3 or greater
 - WebSphere Application Server 7.0
 - IBM WebSphere Telecom Web Services Server – BASE 7.2.0.0
- TWSS – WIDPLUGIN
 - IBM Installation Manager 1.3.3 or greater
 - WebSphere Integration Developer 7.0

The prerequisite software required for these offerings are listed here.

For TWSS - BASE offering:

- IBM Installation Manager 1.3.3 or greater
- WebSphere Application Server 7.0
- WebSphere Enterprise Service Bus 7.0 (required only for the Access Gateway Component)

TWSS - Services requires:

- IBM Installation Manager 1.3.3 or greater
- WebSphere Application Server 7.0
- It has an internal dependency on the Service Platform component of TWSS - Base. So IBM WebSphere Telecom Web Services Server – BASE 7.2. has to be installed before you can install the TWSS - Services.

TWSS - WIDPLUGIN requires:

- IBM Installation Manager 1.3.3 or greater
- WebSphere Integration Developer 7.0

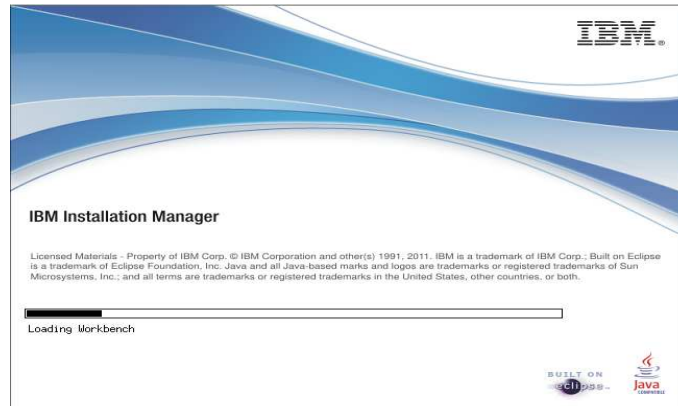
TWSS Base and Services are an extension offering to WAS (WebSphere Application Server), whereas TWSS WIDPLUGIN is an extension offering to WebSphere Integration Developer

Installer GUI flows

The next few slides take you through the graphical user interface (GUI) flows for the installation.

TWSS installers GUI panels (1 of 3)

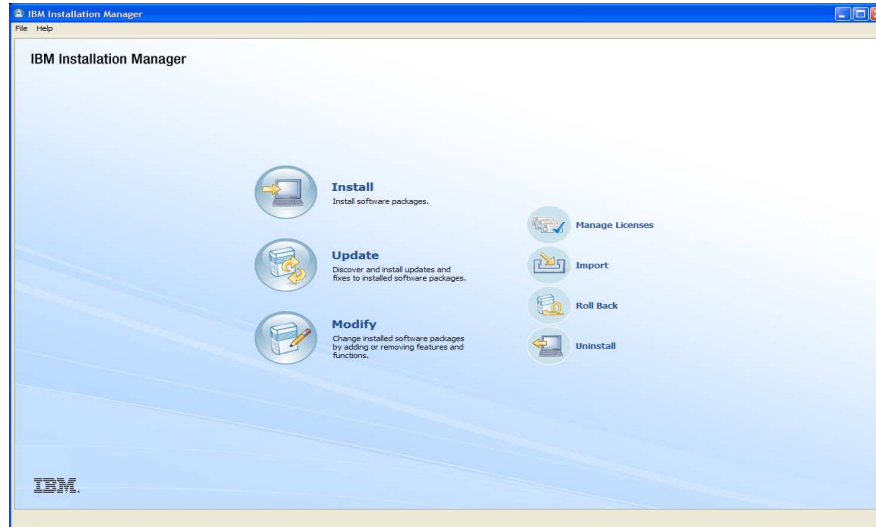
- **Installation Manager splash screen**
 - This splash screen is displayed for a few seconds when IM is launched



This splash screen is displayed for a few seconds once you launch the IBM Installation Manager.

TWSS installers GUI panels (2 of 3)

- **IM Action Panel**
 - IM Action panel lists the various actions you can perform



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The IBM Installation Manager Action panel lists the various actions you can perform - Install, Update, Modify, Import, Roll Back, and Uninstall.

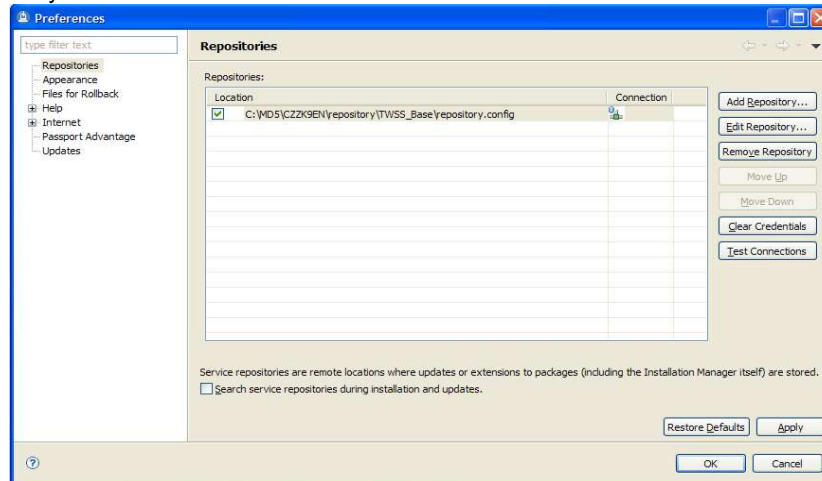
Install helps to install an offering, Update helps to update a fix pack or an iFix, and Modify helps to modify the installed offering.

Import – For now, WebSphere Application Server 7.0 does not have an installer based on IBM Installation Manager. Since this product is an extension offering to WebSphere Application Server, those who install WAS through InstallShield and InstallAnywhere need to import the WebSphere Application Server repository into the IBM Installation Manager Pack. Only then can it be managed by the Installation Manager.

TWSS installers GUI panels (3 of 3)

- **Setting up repositories**

You might need to set up the TWSS package repositories in the IM preferences. From the welcome screen, navigate to **File → Preferences → Repositories** and add TWSS repository location as shown in this screen.



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To set up a repository in the Installation Manager preferences:

From the welcome screen, navigate to File → Preferences → Repositories.

To add TWSS repository location, click Add Repository and select the TWSS offering repository.config file. This indicates the offering you are installing.

With this, you are pointing the preferences and repository to the required offering.

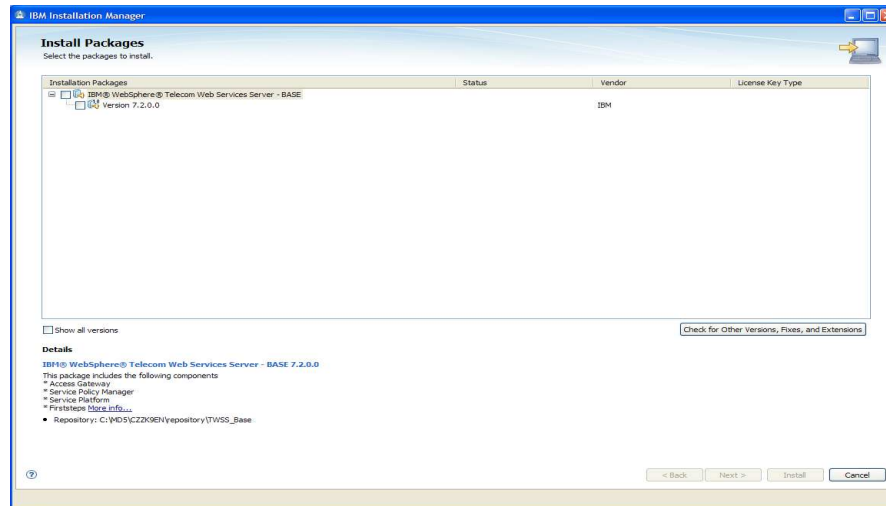
Installation

The next few slides deal with the installation of TWSS 7.2 using Installation Manager.

TWSS installers GUI panels (1 of 4)

- **Package Selection Screen**

- Lists all the installable packages found in the set repositories
- Select the check box next to the package to install it
- The **Next** navigation button is enabled only after a package is selected



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After you have set up your repository to the proper path, click Install in the Action panel screen. This screen is then displayed.

The Package Selection screen lists all the installable packages found in the repositories you have set. You have to select the check box next to the required package to install it.

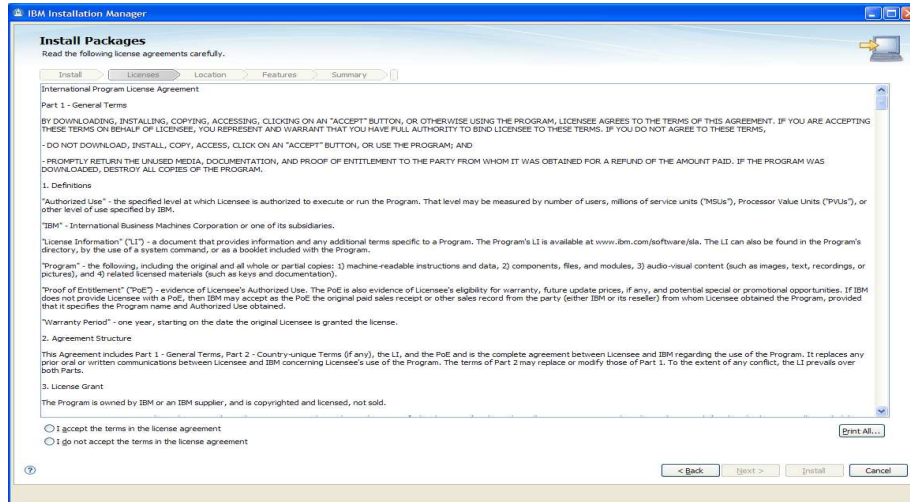
In this example for TWSS Base, it is listed as "IBM Telecom Web Service Server Base" with the version.

The bottom of the screen has a brief description of the offering.

After selecting the package, click Next to go to the License panel screen.

TWSS installers GUI panels (2 of 4)

- License Panel
 - Displays the *License Agreement*
 - All three installers display a warranted license



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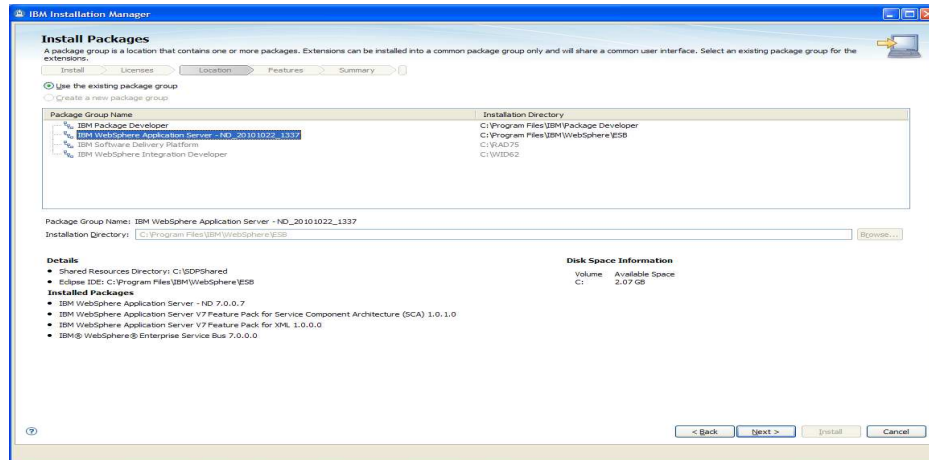
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The License Agreement is displayed here. If you choose to reject the license agreement, an error message is displayed and you cannot proceed with the installation.

Once you accept the license agreement, click Next to proceed.

TWSS installers GUI panels (3 of 4)

- **Target Destination panel**
 - Lists all the qualified WebSphere Application Server or WebSphere Enterprise Service Bus installations on the system
 - Installation Manager (IM) tracks the inventory of all products it installs, including their selectable features and maintenance updates



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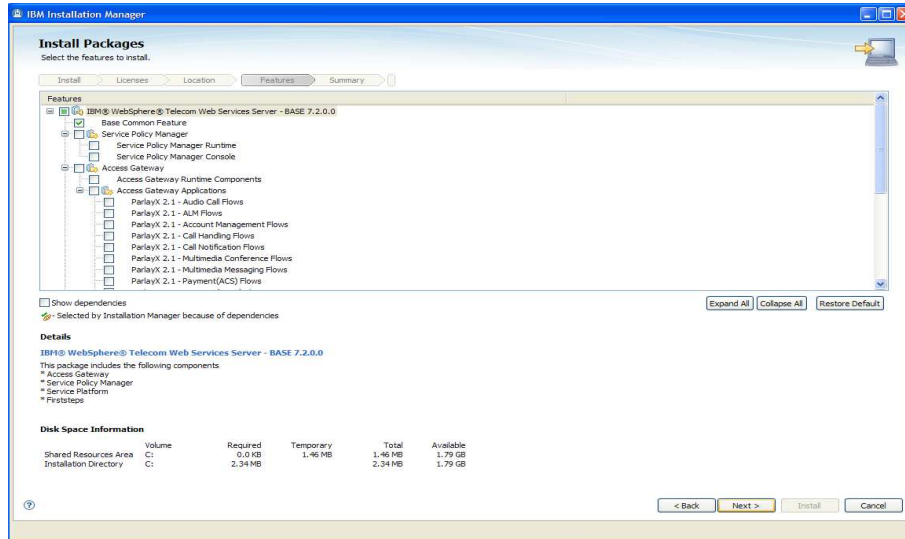
TWSS Base and Services automatically scan for the Installation Manager inventory and you get a list of all the possible WebSphere Application Server (WAS) instances on which you can install the product.

This means that WebSphere Application Server is already maintained in the Installation Manager repository and you can select the required instance of WebSphere Application Server.

Then, click Next.

TWSS installers GUI panels (4 of 4)

- **Feature Selection panel**
– Lists all the features



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Feature Selection panel lists the complete set of features that belong to the offering. Select the required features.

The details are available in the next few slides.

TWSS base installer

Product installation selectable features:

- Base Common Feature
- Access Gateway
 - Access Gateway Runtime
 - Access Gateway Applications
 - Parlay X 2.1 - Audio Call Flows
 - Parlay X 2.1 - Address List Management Flows
 - Parlay X 2.1 - Account Management Flows
 - Parlay X 2.1 - Call Handling Flows
 - Parlay X 2.1 - Call Notification Flows
 - Parlay X 2.1 - Multimedia Conference Flows
 - Parlay X 2.1 - Multimedia Messaging Flows
 - Parlay X 2.1 - Payment (ACS) Flows
 - Parlay X 2.1 - Payment (RVCS) Flows
 - Parlay X 2.1 - Presence Flows
 - Parlay X 2.1 - Short Messaging Services Flows
 - Parlay X 2.1 - Terminal Location Flows
 - Parlay X 2.1 - Terminal Status Flows
 - Parlay X 2.1 - Third Party Call Flows
 - Parlay X 2.1 - Wireless Access Protocol (WAP) Push Call Flows
- Service Platform
 - Common Components
 - Service Platform Runtime
 - Parlay Connector
 - TWSS Administration Console
 - TWSS Parlay Administration Console
 - WSDL (for Parlay X 2.1 services, Service Policy Manager, and Service Platform common components)
- Service Policy Manager
 - Service Policy Manager Console
 - Service Policy Manager Runtime
- Firststeps (auto-configuration)

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TWSS Base Installer offers these features:

- Base Common Feature - This is a new feature added in TWSS 7.2. The common features that are required by all other components have been grouped as Base Common Feature. It is a required feature that is selected by default.
- Access Gateway offers -
 - Access Gateway Runtime component
 - Different Access Gateway applications - that list all the flows you can deploy on the WebSphere Enterprise Service Bus
- Service Platform offers -
 - administration console, Service Platform Runtime, Parlay Connector, and WSDL (Web Services Description Language) files the client can use
- Service Policy Manager offers -
 - Service Policy Manager Console and Runtime
- The final component is First Steps – it is used to automatically configure your product.

TWSS services installer

- Product installation selectable features
 - Services Common Feature
 - SIP Services
 - Parlay X 2.1 Call Handling over SIP/IMS
 - Parlay X 2.1 Call Notification over SIP/IMS
 - Parlay X 2.1 Presence over SIP/IMS
 - Parlay X 2.1 Terminal Status over SIP/IMS
 - Parlay X 2.1 Third Party Call over SIP/IMS
 - Parlay Services
 - Parlay X 2.1 Call Handling over Parlay
 - Parlay X 2.1 Call Notification over Parlay
 - Parlay X 2.1 Short Message Service over Parlay
 - Parlay X 2.1 Terminal Location over Parlay
 - Parlay X 2.1 Terminal Status over Parlay
 - Parlay X 2.1 Third Party Call over Parlay
 - Direct Connect Services
 - Parlay X 2.1 Multimedia Messaging Service over MM7
 - Parlay X 2.1 Short Message Service over SMPP
 - Parlay X 2.1 Terminal Location over MLP
 - Parlay X 2.1 Wireless Access Protocol (WAP) Push over SMPP
 - Other Services
 - Parlay X 2.1 Payments (PostPaid) over Usage Records/CEI
 - Parlay X 2.1 Address List Management over XCAP

TWSS WebSphere Integration Developer plug-ins installer

- Product installation selectable features
 - TWSS Mediation Primitive Plug-ins
 - TWSS Default Mediation Flows

TWSS Services Installer features include different service implementations:

- Services Common Feature
- SIP Services
- Parlay Services
- Direct Connect Services
- Other Services

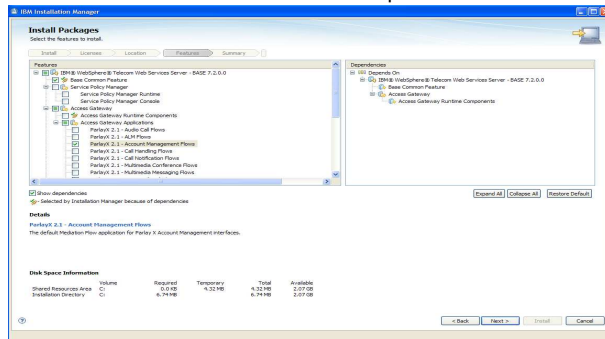
TWSS WID Plug-ins Installer in TWSS 7.2 includes a previous feature that is de-coupled into:

- TWSS Mediation Primitive Plug-ins - which contains only the plug-ins
- TWSS Default Mediation Flows

These can be imported into the WebSphere Integration Developer (WID) and customized.

TWSS installers GUI panels (1 of 3)

- **Runtime Dependency Selection panel**
Some features are dependent on other features. IM automatically selects the dependent features. The screen capture shows the default selection of the dependent feature.
 - TWSS Base:
 - “Base Common Feature” is a dependent feature for all TWSS Base Features
 - “Access Gateway Runtime Components” is a dependent feature for all Access Gateway Applications
 - “Service Platform Runtime Components” is a dependent feature for all Service Platform Components
 - TWSS Services:
 - “Services Common Feature” is a dependent feature for all TWSS Services Features



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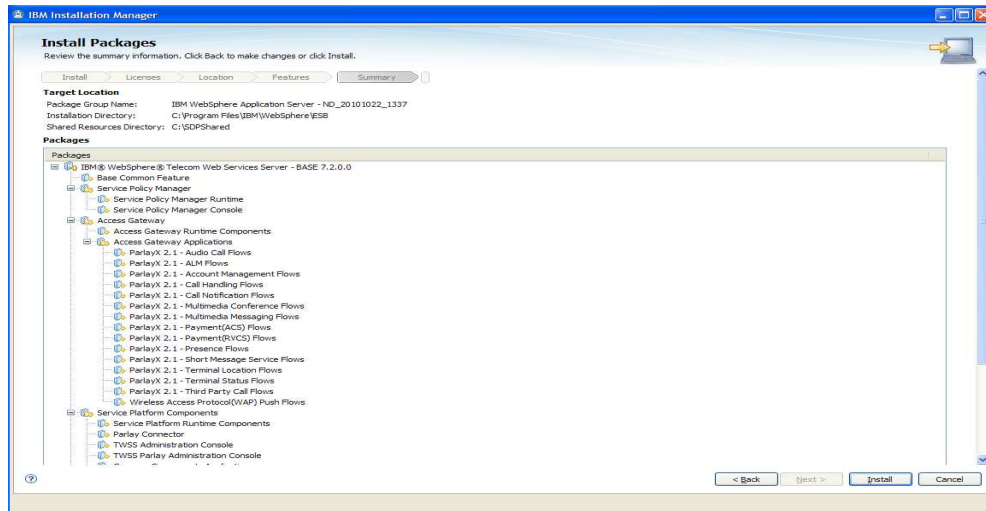
An intelligent dependency selection can be made in the Installation Manager.

For example, if you have selected an Access Gateway flow, but have not selected Access Gateway Runtime, there is an internal dependency selection that selects the Access Gateway Runtime component by default.

This slide depicts the dependency features for TWSS Base and Services.

TWSS installers GUI panels (2 of 3)

- **Pre-Install Summary Panel**
 - Displays your choices and the estimated size footprint
 - This is the last screen from where the installation can be cancelled

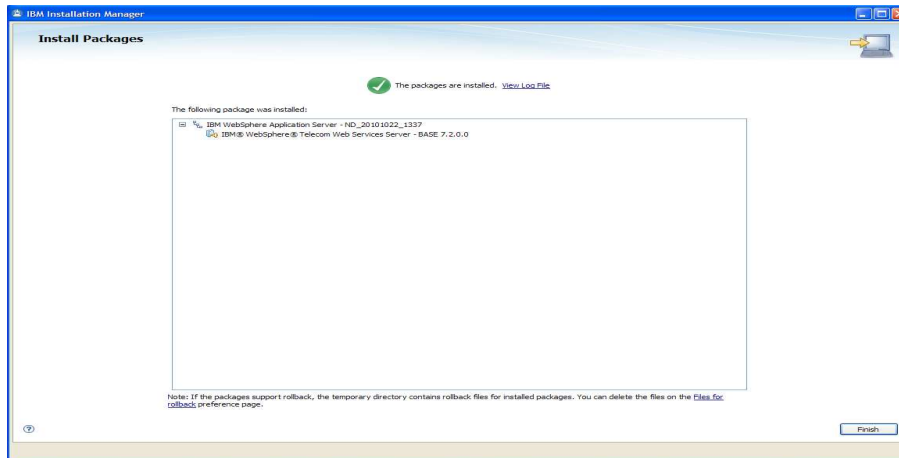


The pre-install summary panel is displayed after the required features are selected.

Click Install to proceed; click Back to edit the features in the earlier panels; or click Cancel to exit the installation.

TWSS installers GUI panels (3 of 3)

- **Post-Install Summary panel**
 - Displayed after the installation is complete - successfully or not
 - Provides link to the log file



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After the product installation is complete, the post-install summary panel is displayed. A success message is displayed if the installation is successful.

The View Log File link is a graphical user interface log file to view the history of the installation. This log file is also stored in the file mentioned in the troubleshooting section.

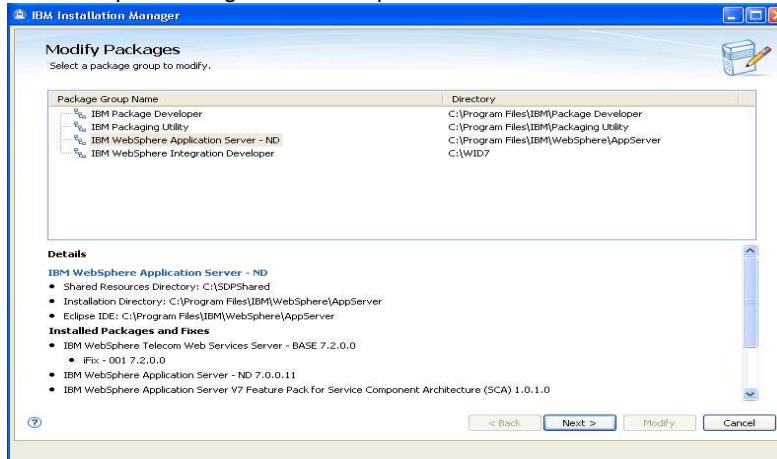
Section

Modify

The next few slides deal with the modification of the TWSS 7.2 offerings already installed.

Package selection for modification

- **Select**
 - IBM WebSphere Application Server – ND for TWSS Base and Service
 - IBM WebSphere Integration Developer for TWSS WIDPLUGIN



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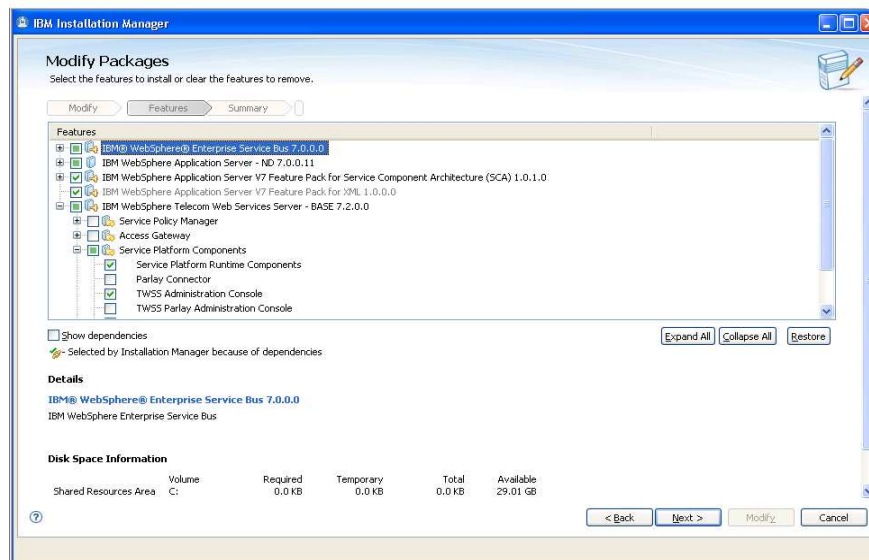
TWSS offerings are an extension offering for WebSphere Application Server or WebSphere Integration Developer.

In the Modify action panel, select either one and click **Next**.

If you are modifying TWSS Base or Services, select **IBM WebSphere Application Server - ND**.

If you are modifying TWSS WID plug-in, you should select **IBM WebSphere Integration Developer**.

Modify package



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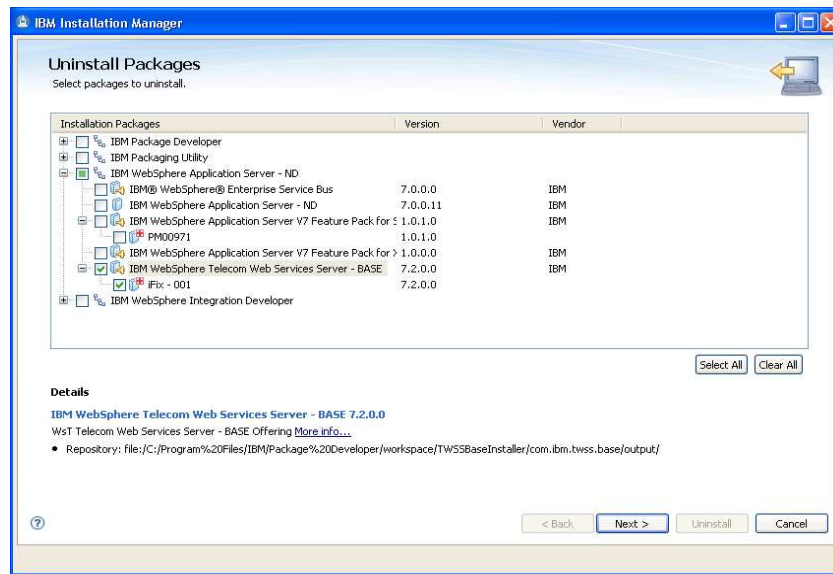
This screen lists the TWSS components and features.

Add or remove the required features and click **Next**.

Uninstall

The next slide deals with the uninstallation of an existing TWSS 7.2 offering.

Package selection for uninstall



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The package selection panel for uninstallation is displayed after you click **Uninstall** on the action panel.

Select any of the offerings you have installed - Base or Services or WebSphere Integration Developer plug-in. You can also select and uninstall any of the iFixes you installed along with this.

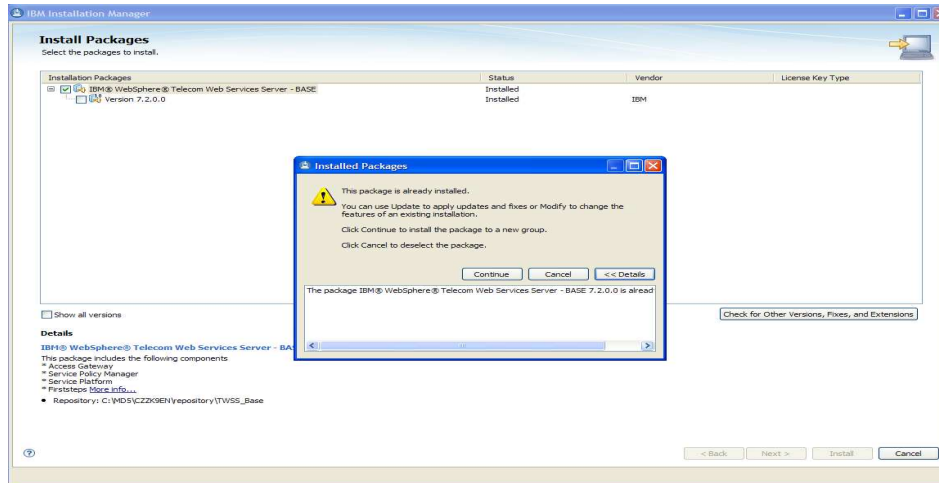
Click **Next** to complete the uninstallation.

Installer Error/Warning Panels

The following slides deal with the error or warning panels that you might see while installing, uninstalling, or modifying.

TWSS installers Error/Warning panels (1 of 5)

- **Existing TWSS product installation detected**
 Displayed if an existing version of the TWSS product is found; you have three options:
 - Click **Continue** to install the package to a new group
 - Click **Cancel** to change the package
 - Click **Details** to view the detailed error message



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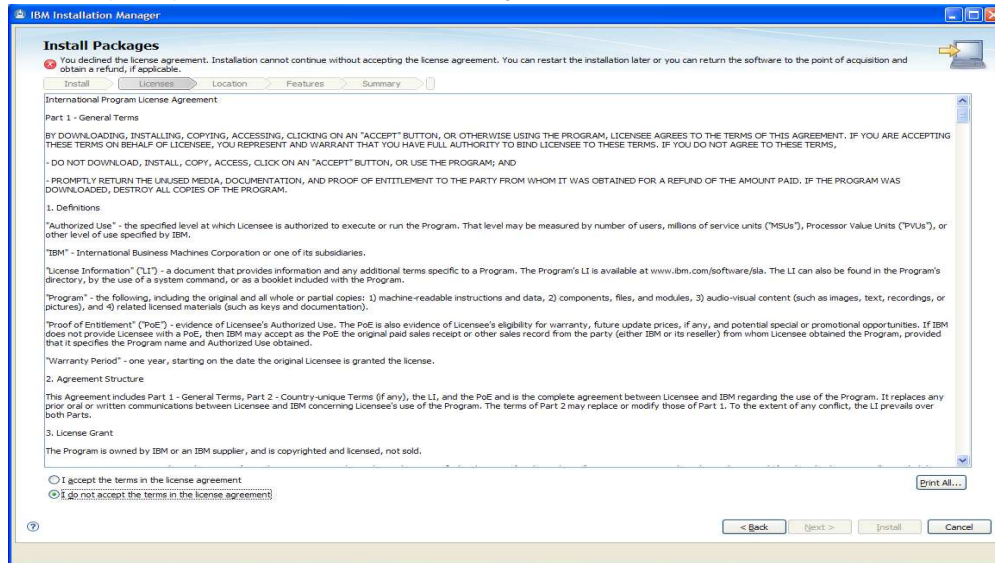
This warning screen is displayed when an existing TWSS product installation is found.

You have three options:

- Click Continue to install the package to a new group (on a different instance of WebSphere Application Server).
- Click Cancel to change the package.
- Click Details to view the detailed error message.

TWSS installers Error/Warning panels (2 of 5)

- Displayed if you do not accept the license agreement



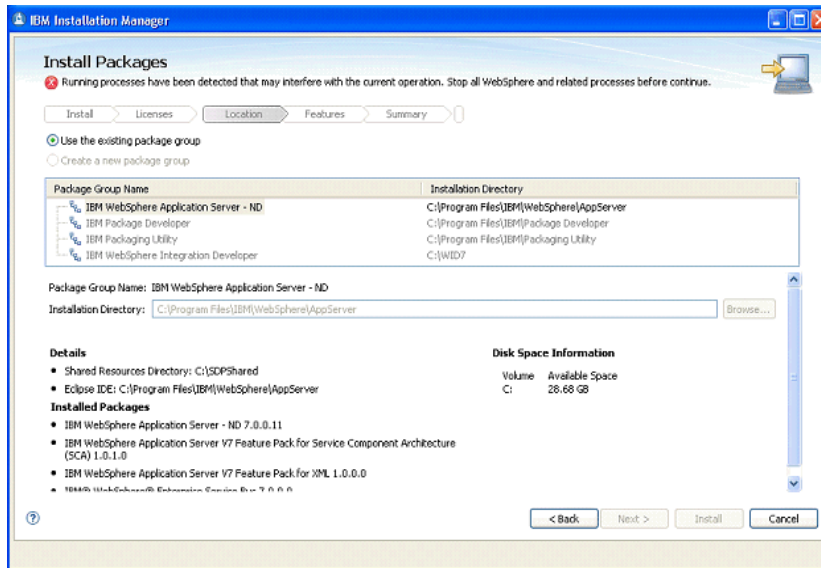
29

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This error message is displayed if you do not accept the license agreement. To proceed, you should accept the license agreement.

TWSS installers Error/Warning panels (3 of 5)

- Displayed if any WebSphere processes are running



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This error message is displayed if any WebSphere processes are running.

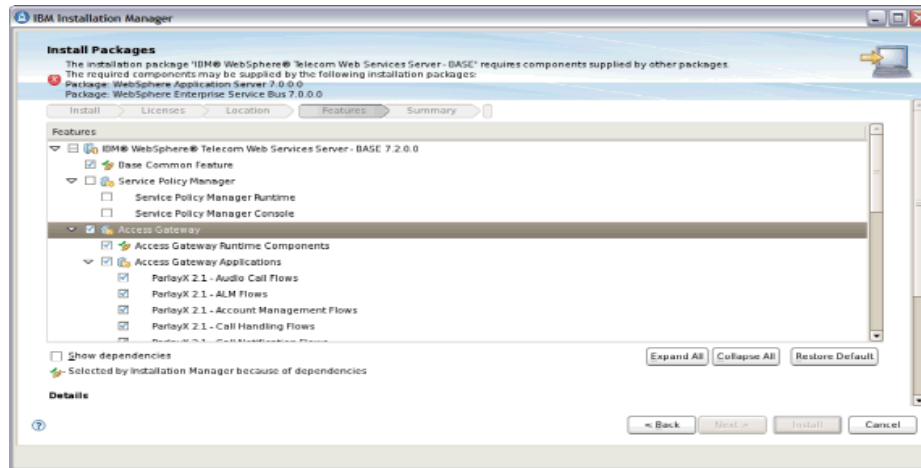
While installing TWSS Base, you should stop all WebSphere processes as there can be some administration console changes that are made as part of the installation.

This check is done only for TWSS Base.

TWSS Services does no such WebSphere process running check.

TWSS installers Error/Warning panels (4 of 5)

- **Access Gateway Dependency Warning panel**
 - This panel is displayed by the TWSS Base Installer, if an Access Gateway feature is being installed, but the target WebSphere server is not a WebSphere Enterprise Service Bus Server



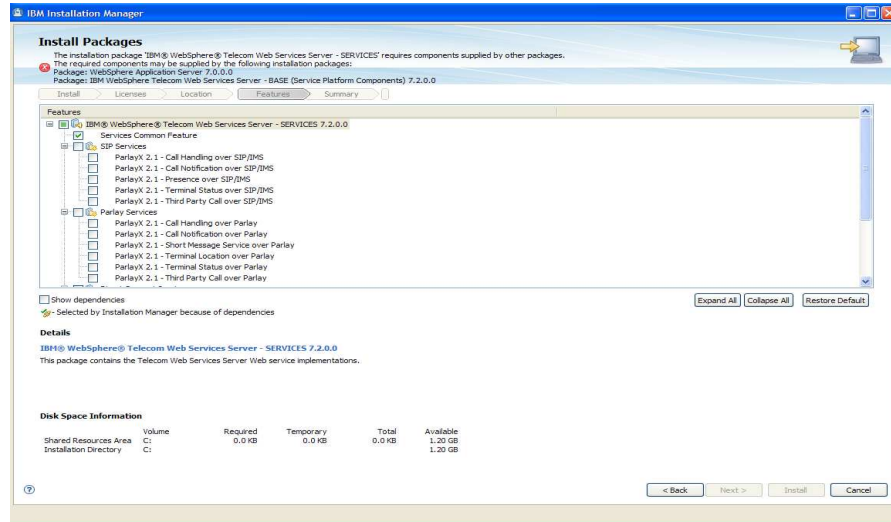
31

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This Access Gateway Dependency Warning panel is displayed if you have selected an Access Gateway feature, but the target WebSphere server is not a WebSphere Enterprise Service Bus Server.

TWSS installers Error/Warning panels (5 of 5)

- **TWSS – Services prerequisites fails**
 - This panel is displayed by the TWSS Services Installer, if Service Platform components from TWSS – Base are not installed on the target WebSphere Application Server.



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TWSS Services has a prerequisite on TWSS Base.

This screen is displayed if you try to install TWSS Services without installing the Service Platform components from TWSS Base.

Silent installation

The next slides have details of the silent install scripts and how to run the silent installation.

Silent installation (1 of 2)

- TWSS installers and uninstallers can be silently run through response files.
- **Sample response files**
 - Located on the root folder of the installer CD
 - Contains documentation for each parameter
- **TWSS Base Installer**
 - base-silent-install.xml New!
 - base-silent-uninstall.xml New!
- **TWSS Services Installer**
 - services-silent-install.xml New!
 - services-silent-uninstall.xml New!
- **TWSS WebSphere Integration Developer plug-in Installer**
 - widplugin-silent-install.xml New!
 - widplugin-silent-uninstall.xml New!

By default, the response files have been shipped and located at the root folder of the installer CD.

Each parameter is described in the response file.

Six new response files have been created for all installers - one each for install and uninstall.

Silent installation (2 of 2)

- Silent installation/uninstallation syntax is:
 - ***IBMIM --launcher.ini silent-install.ini -input <response file path and name> -log <log file path and name>***
- When the silent installation completes, you should check the appropriate installer log and verify that the installation is successful

This slide has details of the syntax used to run the silent installation.

Navigate to the installed root of IBM Installation Manager and find an executable IBMIM. This is the syntax used to run the response file.

You can input the response file and specify the log file path.

When the silent installation is completed, you can check for the appropriate installation log and verify if the installation is successful.

Response file format

INSTALL

```
<?xml version="1.0" encoding="UTF-8"?>
<agent-input clean='true' acceptLicense='true'>
<server>
<repository location='${REPOSITORY_LOCATION}'/>
</server>
<profile id='${PACKAGE_GROUP_NAME}' installLocation='${PRODUCT_INSTALL_LOCATION}'>
<data key='eclipseLocation' value='${PRODUCT_INSTALL_LOCATION}'/>
<data key='user.cic.imported.com.ibm.websphere.ND.v70' value='WAS'>
</profile>
<install modify='false'>
<offering id='${OFFERING_ID}' profile='${PACKAGE_GROUP_NAME}' features='${FEATURE_LIST}'/>
</install>
<reference name='com.ibm.cic.common.core.preferences.eclipseCache' value='${ECLIPSE_CACHE}'/>
...
</agent-input>
```

UNINSTALL

```
<?xml version="1.0" encoding="UTF-8"?>
<agent-input>
<uninstall modify='false'>
<offering id='${OFFERING_ID}' profile='${PACKAGE_GROUP_NAME}' features='-'/>
</uninstall>
</agent-input>
```

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This slide has the sample response file formats for installation and uninstallation.

It is an XML-based response file. The parameters are discussed in detail in the next few slides.

In the Install response file:

- The repository tag contains the repository link to where the offering is located.
- The profile tag contains an ID, which is the package group name on which you have to install TWSS base.
- The installation location mentions the path where WAS is installed.
- The eclipse location is the path where the product is installed.
- The offering tag contains the TWSS offering ID.
- The profile on which the product is to be installed should be mentioned.
- The feature list contains the list of features you selected in the feature selection panel. Here, it can be specified as a list of comma-separated ID values.

The uninstall response file has a simple format. It contains only the offering ID and the package group name similar to what was mentioned for the install response file.

TWSS installers response files parameters

Parameter	Description
<code>\${REPOSITORY_LOCATION}</code>	Location of the offering repository
<code>\${PACKAGE_GROUP_NAME}</code>	<p>1.TWSS Base and Services: Name of the package group in which IBM WebSphere Application Server Network Deployment is installed.</p> <p>1.TWSS WIDPlugin: Name of the package group in which IBM WebSphere Integration Developer is installed.</p>
<code>\${PRODUCT_INSTALL_LOCATION}</code>	<p>1.TWSS Base and Services: Full path to the directory where IBM WebSphere Application Server Network Deployment is installed.</p> <p>1.TWSS WIDPlugin: Full path to the directory where IBM WebSphere Integration Developer is installed.</p>
<code>\${OFFERING_ID}</code>	<p>1.TWSS Base : com.ibm.websphere.twss.base</p> <p>1.TWSS Services : com.ibm.websphere.twss.services</p> <p>1.TWSS WIDPlugin : com.ibm.websphere.twss.widplugin</p>
<code>\${ECLIPSE_CACHE}</code>	Location of the eclipseCache

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Here we have the different parameters in the response file.

`${REPOSITORY_LOCATION}` - is the location of the offering repository. In the graphical user interface (GUI), we have set this in the preferences panel.

`${PACKAGE_GROUP_NAME}` -

For TWSS Base and Services: this is the name of the package group in which IBM WebSphere Application Server Network Deployment is installed.

For TWSS WIDPlug-in: this is the package group name where the IBM WebSphere Integration Developer is installed.

`${PRODUCT_INSTALL_LOCATION}` -

For TWSS Base and Services: this is the IBM WebSphere Application Server home directory.

For TWSS WIDPlug-in: this is the IBM WebSphere Integration Developer home directory.

`${OFFERING_ID}` - These are constant IDs that should not be changed.

TWSS Base : com.ibm.websphere.twss.base

TWSS Services : com.ibm.websphere.twss.services

TWSS WIDPlugin : com.ibm.websphere.twss.widplugin

`${ECLIPSE_CACHE}` - is the shared location of the Installation Manager where it stores all the eclipse Cache

Parameters

`#{FEATURE_LIST}` Comma separated list of features ID.

TWSS - Base		TWSS - Services		TWSS - WIDPLUGIN	
ID	Description	ID	Description	ID	Description
twss.common.base	Base Common Feature	twss.common.services	Services Common Feature	twss.widplugin	TWSS Mediation Primitive Plugins
twss.spm.runtime	Service Policy Manager Runtime	twss.ch.sip	ParlayX 2.1 - Call Handling over SIP/IMS	twss.wid.flow	TWSS Default Mediation Flows
twss.spm.console	Service Policy Manager Console	twss.cn.sip	ParlayX 2.1 - Call Notification over SIP/IMS		
twss.ag.runtime	Access Gateway Runtime Components	twss.prs.sip	ParlayX 2.1 - Presence over SIP/IMS		
twss.ac.flow	ParlayX2.1 - Audio Call Flows	twss.ts.sip	ParlayX 2.1 - Terminal Status over SIP/IMS		
twss.alm.flow	ParlayX2.1 - ALM Flows	twss.tpc.sip	ParlayX 2.1 - Third Party Call over SIP/IMS		
twss.am.flow	ParlayX2.1 - Account Management Flows	twss.ch.parlay	ParlayX 2.1 - Call Handling over Parlay		
twss.ch.flow	ParlayX2.1 - Call Handling Flows	twss.cn.parlay	ParlayX 2.1 - Call Notification over Parlay		
twss.cn.flow	ParlayX2.1 - Call Notification Flows	twss.sms.parlay	ParlayX 2.1 - Short Message Service over Parlay		
twss.mm.c.flow	ParlayX2.1 - Multimedia Conference Flows	twss.tl.parlay	ParlayX 2.1 - Terminal Location over Parlay		
twss.mm.m.flow	ParlayX2.1 - Multimedia Messaging Flows	twss.ts.parlay	ParlayX 2.1 - Terminal Status over Parlay		
twss.acs.flow	ParlayX2.1 - Payment(ACS) Flows	twss.tpc.parlay	ParlayX 2.1 - Third Party Call over Parlay		
twss.rvcs.flow	ParlayX2.1 - Payment(RVCS) Flows	twss.mm.s.mm7	ParlayX 2.1 - Multimedia Messaging Service over MM7		
twss.prs.flow	ParlayX2.1 - Presence Flows	twss.sms.smpp	ParlayX 2.1 - Short Message Service over SMPP		
twss.sms.flow	ParlayX2.1 - Short Message Service Flows	twss.tl.mlp	ParlayX 2.1 - Terminal Location over MLP		
twss.tl.flow	ParlayX2.1 - Terminal Location Flows	twss.wap.smpp	ParlayX 2.1 - Wireless Access Protocol(WAP) Push over SMPP		
twss.ts.flow	ParlayX2.1 - Terminal Status Flows	twss.payment.lur	ParlayX 2.1 - Payment(PostPaid) over Usage Records/CEI		
twss.tpc.flow	ParlayX2.1 - Third Party Call Flows	twss.alm.xcap	ParlayX 2.1 - Address List Management over XCAP		
twss.wap.flow	Wireless Access Protocol(WAP) Push Flows				
twss.sp.runtime	Service Platform Runtime Components				
twss.parlay.com	Parlay Connector				
twss.via.c	TWSS Administration Console				
twss.parlay.ac	TWSS Parlay Administration Console				
twss.common.comp	Common Components Applications				
twss.sp.wsdl	WSDL				
twss.firststeps	Firststeps				

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This slide has the complete list of feature IDs and it should be a comma-separated list.

The ID and proper description are mentioned here.

For example, to install the Service Policy Manager Runtime feature, specify "twss.spm.runtime" in the feature list.

Problem determination

The next slide deals with how to determine a problem with the installation, uninstallation, or modification.

Check logs

- **Location of installer and uninstaller logs:**
 - Logs are created under **/var/ibm/InstallationManager/logs/** directory
- **Installer/uninstaller log names**
 - date_time.xml
 - example: 20110425_1145.xml

Any problem can be determined by looking at the Installation Manager log files.

The log files are created by default at the location mentioned in this slide.

The log file name format is date_time.xml.

The best way to view the log files is through the View Log File link in the Installation Manager graphical user interface (GUI) because it simplifies the details for you.

Section

Reference

The next slide has the reference details.

Reference

- Telecom Web Services Server, Version 7.2.0 Information Center
– <http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp>

For more information, see the TWSS 7.2 Information Center (<http://publib.boulder.ibm.com/infocenter/wtelecom/v7r2m0/index.jsp>).



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