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IBM® WebSphere® Application Server V6.1 Feature pack for Web services

Feature pack installation

This presentation will focus on explaining the installation and usage of the IBM WebSphere Application Server V6.1 Feature Pack for Web Services.

Agenda

- Feature pack installer
- z/OS® installation
- Problem determination

This presentation will begin with a general overview of Feature Packs, explaining the strategy behind their creation, and reasons for using them. Next, the presentation will cover the administration and maintenance concerns associated with Feature Packs in general. Then the presentation will explain the specifics of how to install the Feature Pack for Web Service, including details of z/OS installation. After that, the presentation has details on basic problem determination of a Feature Pack install, including where to find log files related to installation. Finally the presentation will explain the particular enhancements and features offered by the Feature Pack for Web Services.

Section

Feature pack installer

This section discusses the specifics of the Feature Pack for Web Services installer.

Feature pack installation

- Installer uses InstallShield MultiPlatform

- Provides support for graphical and silent installation
  - ▸ No Launch pad for the feature pack for Web services
  - ▸ Can be invoked from the *install* executable file in the <install_image>/WEBSV directory
  - ▸ Silent installation uses a response file as input
  - ▸ Queries for other WebSphere Application Server installations

- Common logging and tracing strategy is used across the WebSphere Application Server and feature pack installers

Feature pack installation

The installer for the Feature Pack for Web Services uses the same InstallShield Multi-platform technologies as the WebSphere Application Server V6.1 installer. This provides support for both graphical or silent installation run from the command line. Silent installation uses a response file, specific to the Feature Pack, that is provided as input to the command. The Feature Pack installer will check for other WebSphere Application Server V6.1 installation as part of installing. The Feature Pack for Web Services uses the same logging and tracing strategy as the other WebSphere Application Server product installers.

Command-line installation

- Installer binary location:
  - ‣ <IMAGE_DIR>\WEBSV\install.exe   **Windows®**
  - ‣ <IMAGE_DIR>/WEBSV/install   **Linux® or UNIX®**

- Silent installation option uses a single response file for options to install product binary and to create a profile.
  - ‣ <IMAGE_DIR>/WEBSV/install –options "response_file_name" –silent
  - ‣ Sample file: <IMAGE_DIR>/WEBSV/responsefile.WEBSV.txt
  - ‣ License acceptance must be changed to "true"

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The Feature Pack for Web Services installer can be directly invoked by using the "install" command from the "WEBSV" directory on the CD image. During a silent installation, a response file is used to obtain the input for the installation process. A sample response file is provided to help get started and show the available options. An important thing to remember is that the license agreement must be changed in the response file, change the silentInstallLicenseAcceptance option from "false" to "true".

Uninstallation overview

- Uninstallation uses InstallShield MultiPlatform

- Located under "uninstall" directory
  - ▸ <Install_root>/uninstall_websv/uninstall.exe

- Silent uninstallation is supported
  - ▸ <Install_root>/uninstall_websv/uninstall –silent
  - ▸ Use 'uninstall -silent -OPT unaugmentDmgrProfiles=true' if DMGR profile is augmented

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Uninstallation of the Feature Pack for Web Service is similar to the other WebSphere Application Server products. On distributed platforms, both the graphical wizard and silent uninstallation options are available. During the installation process, an uninstaller will be created under the "uninstall" directory. Invoking the uninstallation process will completely remove the Feature Pack for Web Services, but leave maintenance and the base WebSphere Application Server installation behind.

Section

z/OS specifics

The next section discusses the specific installation concepts for z/OS.

Packaging on z/OS

Feature pack for Web services

Setup PTF

Feature pack for Web services
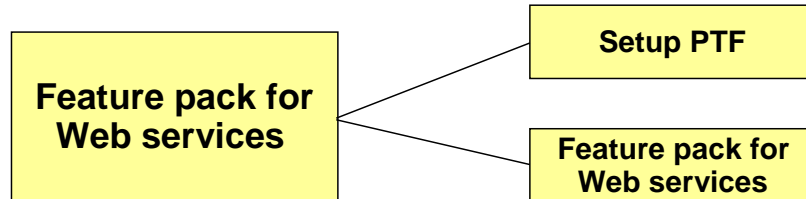
```
Component Name:      WebSphere Application Server V6.1 Feature Pack for Web
                     Services
Program Number:      5655-N01
FMID:                JIWO610
COMPID:              5655I3550
PSP Bucket:          Upgrade=WASAS610, Subset=JIWO610
```

Currently the Feature Pack for Web Services on z/OS has a prerequisite for a setup PTF that creates the proper install environment.   This setup PTF contains four batch jobs, IWOALLOC, IWOCALLO, IWOCRMKD and IWOCMKDR, ++HOLD for Action will be provided. The IWOALLOC job is used to allocate the original Optional materials datasets for all Feature Packs. The IWOCRMKD job mounts a Feature Pack specific HFS to hold .../FPWS, and sets permissions. First customize and run IWOCALLO, then IWOCRMKD.

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Installation and configuration on z/OS

- SMP/E installable image

- ISPF Dialog panels do not support feature pack for Web Services

  ▶ z/OS Profile Management Tool (zPMT) must be used

- No new batch jobs are required for Feature Pack for Web Services support

The Feature Pack for Web Services on z/OS is provided as a SMP/E image. The Interactive System Productivity Facility or ISPF does not support the Feature Pack for Web Services, instead the z/OS Profile Management Tool or zPMT has to be used to install the product. No extra batch jobs have been added as part of the Feature Pack for Web Services.

Section

Problem determination

The next section explains how to do problem determination on an installation of the Feature Pack for Web Services.

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Exit codes

- Uses the same common logging strategy, including exit codes, as the WebSphere Application Server V6.1 installers

- Linux / UNIX Platforms echo "$?" Command after installation completion will display:
  - 0 – Success, 1 – Failed, 2 – Partial Success

- Exit codes are not set on Windows platforms due to an InstallShield limitation
  - ▶ Consult **log.txt** for information on success or failure
    - INSTCONFSUCCESS implies successful installation and profile creation
    - INSTCONFFAILED implies a failed installation.
    - INSTCONFPARTIALSUCCESS implies a successful installation, but some configuration action failed

The Feature Pack for Web Services uses same logging strategy as the other installation packages in WebSphere Application Server V6.1, meaning they use a consistent location for log and trace files, and a consistent format for those files.

The installers set exit codes to indicate success or failure on all Linux and UNIX platforms. You can check the exit code after the installation has completed. "Partial success" means that some portion of the installation failed but the installation is still at least partially usable and the failure may be recoverable to make the installation completely usable. Consult the logs to determine the exact failure and what, if any, corrective actions can be taken.

Log file locations

- Log files for installation and uninstallation can be found under the following directories
  - ▸ <install_root>/logs/install/webservices
  - ▸ <install_root>/logs/uninstall/webservices

- If the logs directory can not be accesses during installation , the logs are saved under <user home>/webservicelogs

- If there is a JDK related problem and if you can not find the logs look under <user home>/webservicelogs

- If you see "*A suitable JVM could not be found*", this command will help diagnose the problem by catching the InstallShield MultiPlatform launcher log:
  - ▸ install.exe -is:log catchinstallerlogs.txt

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Log files contain information about installing, configuring and updating WebSphere Application Server V6.1 components with the feature pack for Web services updates. The log file will initially be created in the current "temp" directory and then copied into the <Install Home>/logs/webservices directory. If the installation is terminated before the file is copied, then it will remain in the current "temp" directory. Problems related to the Java™ Development Kit are located in the temp directory.

Trace file

- Trace file contain more detailed than the main log.txt file
- These trace files are not translated and are for IBM service
  - ‣ <Install_root>*/logs/webservices/install/***trace.log.gz**
- Trace format and trace log level can be changed using command line options
- -OPT traceFormat=ALL/text/XML
  - ‣ ALL (By default) will produce both text and XML format
- -OPT traceLevel=INFO (default is INFO)
  - ‣ See the Appendix for complete list of "traceLevel" options

Trace files contain more detailed information for determining problems than the standard installation logs. The trace file logs are not translated, because they are intended primarily for use by IBM support and services. The installation trace files can be found in the standard installation log directory for the feature pack for Web services. The amount of trace data generated can be altered using command line options, and by options in the silent installation response file. More information about the various trace levels is available in the appendix.

Section

Summary and reference

This section provides a summary of this presentation.

Summary

- Feature packs provide a flexible option to add technologies to an existing environment
    - Allow you to maintain a stable base

- Installing feature packs is a simple process
    - Similar to installing WebSphere Application Server V6.1

Feature packs provide a flexible option to add new technical features onto existing WebSphere Application Server V6.1 environments. You can install the feature pack for Web services in a manner similar to installing WebSphere Application Server V6.1.

Tracefile : tracelevel option

- Trace level can be changes using command line option
  - "-OPT traceLevel=<traceLevel>"

traceLevel	Description
OFF	No trace file is produced
SEVERE	Severe error messages
WARNING	Recoverable exceptions and warning messages
INFO	Informational messages (**default** trace level)
CONFIG	Configuration related messages
FINE	Trace method calls for public methods
FINER	Trace method calls for non public methods except getters and setters
FINEST	Trace all method calls, trace entry/exit will include parameters and return value

This slide is for reference; it lists the options to increase the log level for the installer.

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