HPSA Extension Pack

Migration guide

Release V6.1

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Support

Support for the HP Service Activator Extension Pack product is available on the following mailing list:

hpsa-support@hp.com

In This Guide

This document describes how to migrate an installation of Extension Pack for Service Activator from version 6.0 to 6.1.

Audience

The audience for this guide is the Solutions Integrator (SI). The SI has a combination of some or all of the following capabilities:

Understands and has a solid working knowledge of:

– UNIX® commands
– Windows® system administration

Understands networking concepts and language

Is able to program in Java™ and XML

Understands security issues

Understands the customer's problem domain

Conventions

The following typographical conventions are used in this guide.

Font	What the Font Represents	Example
Italic	Book or manual titles, and man page names	Refer to the document *HP Service Activator — Workflows and the Workflow Manager* and the *Javadocs* man page for more information.
	Provides emphasis	You *must* follow these steps.
	Specifies a variable that you must supply when entering a command	Run the command: `InventoryBuilder` *\<sourceFiles\>*
	Parameters to a method	The *assigned_criteria* parameter returns an ACSE response.
Bold	New terms	The **distinguishing attribute** of this class...
`Computer`	Text and items on the computer screen	The system replies: `Press Enter`
	Command names	Use the `InventoryBuilder` command ...
	Method names	The `get_all_replies()` method does the following...
	File and directory names	Edit the file `$ACTIVATOR_ETC/config/mwfm.xml`
	Process names	Check to see if `mwfm` is running.
	Window/dialog box names	In the `Test and Track` dialog...
	XML tag references	Use the `<DBTable>` tag to...
`Computer Bold`	Text that you must type	At the prompt, type: **`ls -l`**
Keycap	Keyboard keys	Press **Return**.
[Button]	Buttons on the user interface	Click `[Delete]`. Click the `[Apply]` button.
Menu Items	A menu name followed by a colon (:) means that you select the menu, then the item. When the item is followed by an arrow (->), a cascading menu follows	Select Locate:Objects->by Comment.

Install Location Descriptors

The following names are used throughout this guide to define install locations.

Descriptor	What the Descriptor Represents
`$ACTIVATOR_OPT`	The install base location of Service Activator. The UNIX location is `/opt/OV/ServiceActivator` The Windows location is `<drive>:\HP\OpenView\ServiceActivator\`
`$ACTIVATOR_ETC`	The install location of specific Service Activator configuration files. The UNIX location is `/etc/opt/OV/ServiceActivator` The Windows location is `<drive>:\HP\OpenView\ServiceActivator\etc\`
`$ACTIVATOR_VAR`	The install location of specific Service Activator logging files. The UNIX location is `/var/opt/OV/ServiceActivator` The Windows location is `<drive>:\HP\OpenView\ServiceActivator\var\`
`$ACTIVATOR_BIN`	The install location of specific Service Activator binary files. The UNIX location is `/opt/OV/ServiceActivator/bin` The Windows location is `<drive>:\HP\OpenView\ServiceActivator\bin\`
`$JBOSS_HOME`	HOME The install location for JBoss. The UNIX location is `/opt/HP/jboss` The Windows location is `<drive>:\HP\jboss`

`$JBOSS_DEPLOY`	The install location of the Service Activator JEE components.
	
	The UNIX location is
	
	`/opt/HP/jboss/standalone/deployments`
	
	The Windows location is
	
	`<drive>:\HP\jboss\standalone\deployments`

`$ACTIVATOR_DB_USER`	The database user name you define. Suggestion: `ovactivator`
`$ACTIVATOR_SSH_USER`	The Secure Shell user name you define. Suggestion: `ovactusr`
`$SOSA_HOME`	The install base location of SOSA.

9	The default UNIX location is `/opt/OV/ServiceActivator/EP/SOSA` The default Windows location is `<drive>:\HP\OpenView\ServiceActivator\EP\SOSA\`
`$SOSA_BIN`	The install location of specific SOSA binary files. The default UNIX location is `/opt/OV/ServiceActivator/EP/SOSA/bin` The default Windows location is `<drive>:\HP\OpenView\ServiceActivator\EP\SOSA \bin\`
`$SOSA_ETC`	The install location of specific SOSA configuration files. The default UNIX location is `/opt/OV/ServiceActivator/EP/SOSA/config` The default Windows location is `<drive>:\HP\OpenView\ServiceActivator\EP\SOSA\config\`
`$ECP_HOME`	The install base location of Equipment Connections Pool. The default UNIX location is `/opt/OV/ ServiceActivator/EP/ECP` The default Windows location is `<drive>:\HP\OpenView\ServiceActivator\EP\ECP\`
`$ECP_BIN`	The install location of specific Equipment Connections Pool binary files. The default UNIX location is `/opt/OV/ServiceActivator/EP/ECP/bin` The default Windows location is `<drive>:\HP\OpenView\ServiceActivator\EP\ECP\bin\`
`$ECP_ETC`	The install location of specific Equipment Connections Pool configuration files. The default UNIX location is `/opt/OV/ServiceActivator/EP/ECP/conf` The default Windows location is `<drive>:\HP\OpenView\ServiceActivator\EP\ECP\conf\`

1 Introduction

1.1 Definitions

1.1.1 Acronyms

HPSA: HP Service Activator
ECP: Equipment Connection Pool
EP: Extension Pack
SC: Solution Container
SOSA: Service Order Smart Adapter
ECP: Equipment Connection Pool

2 Prerequisites

A backup of the HPSA database is highly recommended.

3   Software installation

HP Service Activator 6.1 and the HPSA Extension Pack 6.1 have to be installed as a new clean installation; they cannot be installed on top of an existing installation. Please, check the *Installation Guide* of both products for more information on how to install these products.

Once you have finished installing the products you should read the HP Service Activator *Migration Guide* and adapt the customizations you made for HP Service Activator 6.0 so that they become compatible with HP Service Activator 6.1. Once you have finished this step, you should follow the guidelines in this document to make your customizations compatible with the Extension Pack 6.1 for Service Activator.

4 Migration tasks

4.1 Database

In order to preserve the database from the HPSA Extension Pack version 6.0, you do not have to create the database in the installation process. Remember that you must provide the correct database information regardless of whether or not you wish to create the database.

The database migration will be done at the same time for the HPSA and for the EP. For this you have to remove any external (to HPSA product) Foreign Key and execute the migration scripts located in `$ACTIVATOR_OPT/migration` in this order:

1. 01_disable_fk.sql
2. 01.ep_disable_fk.sql
3. 02_migrate.sql
4. 02.ep_migration.sql
5. 03_enable_fk.sql
6. 03.ep_enable_fk.sql

The last step is to recreate the external Foreign Keys deleted previously.

4.2 SOSA

4.2.1 Partitioned tables

The behavior of the partitioned tables has been improved and some modifications are required if partitioned tables were being used by SOSA as part of the Extensions Pack 6.0.

A new database table called `partitioned_tables` has been added. This table contains a reference to all the partitioned tables managed by SOSA and the timestamp of the rule date which applies to each partition.

Also partition names must be now unique. This means that the way how new partitions are named has been modified, so now partition names are composed as `<<table_name>>_P<<date_YYMMDD>>`. Partitions created when working with Extension Pack 6.0 followed the rule `P<<date_YYMMDD>>`, so they didn't take care of the original database table name.

This understood, follow the next steps to migrate the old partitioning system to the new one:

- Rename each partition of each table from `P<<date_YYMMDD>>` to `<<table_name>>_P<<date_YYYMMDD>>`.
  Example:
  The table `A` contains a partition named `P20120503`. That means that that partition will contain all the rows inserted before 2012-05-03. It must be renamed to `A_P20120503`.
  Example:
  The table `THIS_IS_MY_PARTITIONED_TABLE` contains a partition named `P20120503`. It should be renamed to `THIS_IS_MY_PARTITIONED_TABLE_P20120503`, but Oracle has a limitation of 30 characters for table names (including partition names), so the first characters must be removed until the length of the partition name is 30 characters:
  `MY_PARTITIONED_TABLE_P20120503`.
- Insert a row into `partitioned_tables` using this SQL statement:
  ```
  insert into partitioned_tables (table_name, partition_name, rule_date)
  values ('<<table_name>>', '<<partition_name>>', to_timestamp('<<date>>','<<format>>'))
  ```
  Example:
  Insert the new partition `A_P20120503`:

```
insert into partitioned_tables (table_name, partition_name, rule_date)
values ('A', 'A_P20120503', to_timestamp('2012-05-03 15:30:00',
                                    'YYYY-MM-DD HH24:MI:SS'))
```

4.2.2 Persistence layer

This step only applies in case SOSA in Extension Pack 6.0 was configured to employ mixed persistence. As part of 6.1 the performance in SOSA has been improved, but this has had an impact on the database tables where hibernate manages the persisted Service Orders and Service Actions, so in case of using mixed persistence make sure that all the persisted Service Orders and Service Actions have finished before starting to migrate to Extension Pack 6.1. In other words, make sure that the next database tables are empty before starting the migration process:

- PERS_HBM_SA_CONTEXT
- PERS_HBM_SA_INPUTPARAMS
- PERS_HBM_SA_OUTPUTPARAMS
- PERS_HBM_SA_ROLLBACKINFO
- PERS_HBM_SO_CONTEXT
- PERS_HBM_SO_INPUTPARAMS
- PERS_HBM_SO_OUTPUTPARAMS
- PERS_HBM_SO_ROLLBACKINFO

4.3 Solution Container

Extension Pack 6.0 provided a maven plug-in called `fg-plugin` that allowed the population of the internal database tables in order to define new solutions for the Solution Container. This maven plug-in has been removed in favour of a new `menudata` tool (see the Extension Pack *Developer's Guide* for further information) as maven plug-ins are usually not allowed in production environments.
In the same way, usage of SQL scripts to populate internal database tables to add new menu options and solutions to the Solution Container is not required anymore.