

CHAPTER 1

Deployment Utility

The content of this document describes the functionality of Deployment Utility.

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Deployment Utility overview

The Deployment Utility allows you to deploy customizations and configuration changes from an existing installation to another installation on the same version of a product. The deployment can be carried out on the same host or between two different hosts running the same operating system.

The utility is useful if you have to apply the same configurations on multiple installations of a product. Use the utility if you have:

- ◆ Multiple new installation running on the same or multiple hosts that will need to share the same configuration and customizations.
- ◆ Multiple installations on the same or multiple hosts that are upgraded and will share the same configuration and customizations.

In both cases, you will need to start with one installation where you make all your modifications to configuration files, `<BASEDIR>/smarts/local` files and, create and compile dynamic models. Then, run the `sm_deploy` utility to create a package that contains your modifications. Use the `sm_deploy` utility to apply the files collected from the first installation to the rest of your installations.

The Deployment Utility performs the following three functions:

- ◆ Create a package
- ◆ Deploy the package
- ◆ Rollback

Create a package

The utility enables you to create a deployment package which consists of all the customizations made to files in an installation. In SAM, by specifying a broker and server information when you run the utility, you can collect configuration settings from RPS into the package.

Deploy the package

The utility enables you to deploy a previously collected deployment package into other installations of the same product running on the same version and operating system as the original installation. If you have collected configuration settings from SAM RPS, the configurations will be available in the file, `<SAM_server>.xml` under `local/conf/ics` directory.

Rollback

Before deploying the package into an installation, the utility creates rollback directory containing the backup of files from the current installation which will be used in case of a rollback action. You can rollback your configuration to that in your rollback directory, only if the version of your current installation is the same as the version of the installation when the rollback directory was created.

Run the Deployment Utility

To run the Deployment Utility, go to <BASEDIR>/smarts directory and type the following command:

```
./sm_perl sm_deploy.pl <options>
```

where, <options> refers to the options specified in the section, “sm_deploy modes of operation” on page 3.

sm_deploy modes of operation

The sm_deploy has the following command-line options:

- ◆ --install=<dir> – To install the utility.
- ◆ --create=<file> – To create the deployment package.
- ◆ --deploy=<file> – To deploy the package.
- ◆ --rollback – To rollback the configuration changes.
- ◆ --broker – The broker to which the SAM server is attached. Use this option to collect configuration settings from SAM RPS.
- ◆ --server – The SAM server whose configuration settings from RPS are to be collected.
- ◆ --clean – To clean the files in the local directory.
- ◆ --silent
- ◆ --help

The deployment utility must be used with atleast one of these options.

NOTICE

If you want to run this utility from older versions of Smarts products, you must copy the sm_migrate.pl script, sm_deploy.pl script and, the perl files packaged in a .zip file from the 9.2 installation to the corresponding locations in the old installation.

To create a deployment package

1. Go to the <BASEDIR>/smarts/bin folder of your target installation, and type the following command:

```
./sm_perl sm_deploy.pl --install=<BASEDIR>/smarts  
--create=<archive-name.tar>
```
2. The utility identifies the files with customizations, from the local directory under <BASEDIR>/smarts directory of the installation, that need to be copied to the deployment package.
3. The utility copies the files from the local directory to the deployment backup directory .deploy.bkp<pdt>.<version> under <BASEDIR>/smarts, archives these files to a specified archive file and then deletes the backup directory.

Manage RPS file settings across multiple installations

The method of extracting the configuration settings from an RPS file into the deployment package varies between SAM, IP, and VoIP Managers.

For SAM, use the deployment utility to extract the configuration settings from the RPS file.

Go to the <BASEDIR>/smarts/bin folder of your target installation, and type the following command:

```
./sm_perl sm_deploy.pl --install=<BASEDIR>/smarts
--create=<archive-name.tar> --broker=<host:port>
--server=<SAM_server>
```

If a server is specified, the utility collects the configurations into the file, <SAM_server>.xml under *local/conf/ics* directory.

This can be a convenient way to deploy the configurations of aggregate SAM domain since they often share the same configuration.

For IP, use the *sm_settings.pl* script of the *IP-Configuration Manager* tool to export the Polling and Threshold groups from an existing domain and import them into the IP-Configuration Manager to be deployed further on other domains.

For more information on loading settings into IP-Configuration Manager, refer to the IP Configuration Manager section of the EMC Smarts IP Manager Version 9.2 User Guide.

For VoIP, the configuration settings from an RPS file must be manually copied to all other installations of VoIP.

To deploy the package

1. Go to the <BASEDIR>/smarts/bin folder of your target installation, and type the following command:

```
./sm_perl sm_deploy.pl --install=<TargetBASEDIR>/smarts
--deploy=<archive-name.tar>
```

The utility extracts the archive into the backup directory *.deploy.bkp<pdt>.<version>* under <BASEDIR>/smarts.

2. Creates a rollback directory with the backup of files from the target installation which will be used in case of a rollback action.
3. Copies all the files from the deployment package to the local directory of the target installation.
4. Overwrites the files that are part of both, the deployment package and the local directory of the target installation.
5. If the *--clean* option is specified, the files in the local directory of the target installation that are not part of the deployment package are deleted.

Or

If *--clean* option is not specified, the files in the local directory of the target installation that are not part of the deployment package are retained.

To deploy the SAM RPS settings,

- ◆ Manually import the *<SAM_server>.xml* file from local/conf/ics directory to the directory in the target installation by typing the following sm_config command:

```
./sm_config --server=<SAM_server> import --force <SAM_server>.xml
```

To Rollback

1. Go to the *<BASEDIR>/smarts/bin* folder of your target installation, and type the following command:

```
./sm_perl sm_deploy.pl --install=<TargetBASEDIR>/smarts --rollback  
[--silent]
```

NOTICE

It is optional to specify the [--silent] option in the command. The [--silent] option allows you to carry out the rollback without any prompts.

The utility displays all the rollback directory locations to which you can rollback.

2. Copies the files from the local directory of the installation whose rollback directory you choose to rollback to, into the corresponding location in your current installation.

NOTICE

If your current directory is a rollback directory location, it will not be displayed in the list of rollback directory locations to which you can rollback.

