Additional Precise CLI Utilities

This section includes the following topics:

Encrypt command

The Encrypt command encrypts passwords that are used as parameters. The encryption is based on the encryption type that is currently configured on the site.

The encrypted password is displayed in the standard output. The Encrypt command uses the following format:

Windows
```
infra\bin\psin_cli.bat
-action encrypt
-password <password>
```
UNIX
```
./infra/bin/psin_cli.sh
-action encrypt
-password <password>
```

password element

The following table describes the syntax of the `password` element.

Table 1 Password element

Element	Description
password password	Contains the value of the password to be encrypted. To encrypt an empty password, type "". Any password parameter can be a clear text value. To create a clear text value, replace the name of the parameter from encrypt to clear. For example, replace: dba-encrypted-password to: dba-clear-password

Apply License command

The Apply License CLI applies a new license to Precise.

To apply the license, run the following command on the main Precise FocalPoint server:

Windows infra\bin\psin_cli.bat
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action apply-license
-license-file <*license_file_name*>

UNIX ./infra/bin/psin_cli.sh
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action apply-license
-license-file <*license_file_name*>

License file name element

The following table describes the syntax of the license file name element.

Table 2 license file name element

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Always apply-license **Mandatory**: Yes
license-file	Specifies the path to the license file name that needs to be applied.

Change an installed Precise Listener port

The Listener Port Change command enables you to change the port number of an installed Precise Listener.

> This command must be executed on the server itself. You are not allowed to change the Precise FocalPoint Listener port number.

To change listener port, run the following command:

Windows Infra\bin\psin_cli.bat
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action port-change
-port <*port_number*>

UNIX ./infra/bin/psin_cli.sh
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action port-change
-port <*port_number*>

Create support file command

The Create a support file command enables you to generate a support file for Precise. The created support file is saved in the `<precise_root>/support` folder on the main Precise FocalPoint.

To create a support file, run the following command on the main Precise FocalPoint.:

Windows Infra\bin\psin_cli.bat
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action support
-mode <*support_mode*>
-servers <*servers_list*>
[-proxy-alias <*node_alias*>]

UNIX ./infra/bin/psin_cli.sh
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action support
-mode <*support_mode*>
-servers <*servers_list*>
[-proxy-alias <*node_alias*>]

Table 3 Elements for Create support file

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Always support **Mandatory**: Yes
mode	The type for the support file. **Values**: • Full - for creating a full support file. • Express - for creating an express support file. **Mandatory**: Yes
servers	The names of the servers for which you want to create support files. The servers names are separated by a comma. The servers list should contain at least one server name. If the list contains more than one server name, it should be wrapped with double quotes. The following format is used: "server1, server2, ..., serverN" **Mandatory**: Yes
proxy-alias	The proxy alias. **Values**: alias of the related node **Mandatory**: Only for a federated installation

Update main registry command

The update main registry command updates the main registry with the proxy registry. The command should run on the proxy that the change was made on, and will update the main registry.

The update-main-registry command uses the following format:

Windows
```
Infra\bin\psin_cli.bat
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action update-main-registry
-registry-path <registry_path>
```

UNIX
```
./infra/bin/psin_cli.sh
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action update-main-registry
-registry-path <registry_path>
```

Table 4 Elements for Update main registry

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Update-main-registry **Mandatory**: Yes
registry-path	The registry path that was updated in the proxy should start with /registry. It should not be a relative, nor an absolute path. The path should be the path to an existing registry file without the .xml suffix, for example /registry/products/infrastructure/thin.

Clean Main DB and Infra DB CLI command

Precise maintains logically deleted entities for its operation. This allows, for example, reusing deleted instance's historical data for new instance installation. However as the Precise system ages, performance might be affected. To improve performance, clean the deleted entities using the following CLI.

Run the following command from the Main Precise FocalPoint root folder:

Windows
```
infra\bin\psin_cli.bat
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action clean-infra-db
```
UNIX
```
./infra/bin/psin_cli.sh
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action clean-infra-db
```

Table 5 Elements for Clean Main DB and Infra DB CLI

Element	Descriptions
action	Always clean-infra-db **Mandatory**:Yes
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.

Reusing deleted instance's historical data will not be available once this is used.

LDAP Sync command

Precise can use LDAP for its roles & users management. For more details about LDAP and Precise integration, see the Precise Administration Guide and /or the Precise Installation Guide. Precise automatically runs LDAP sync once a day at 00:08.

If you have changed LDAP configuration (add/removed users and/or groups) it will be applied at the next 00:08. In case you have changed the LDAP configuration and you don't want to wait, you can force the LDAP sync. Run the LDAP Sync command on the main Precise FocalPoint from the `<precise_root>`:

Windows
```
infra\bin\psin_cli.bat
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action ldap-sync
```
UNIX
```
./infra/bin/psin_cli.sh
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action ldap-sync
```

Table 6 Elements for LDAP Configuration

Element	Description
action	Always ldap-sync **Mandatory**: Yes
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.

List Applications, Tiers, and instances

Using CLI you can list the entire Precise applications, Tiers and instances structure in a XML formatted file. To list, run the following command on the main Precise FocalPoint from the `<precise_root>`:

Windows infra\bin\psin_cli.bat
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action environments-list
[-output-file <*output_file*>]

UNIX ./infra/bin/psin_cli.sh
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action environments-list
[-output-file <*output_file*>]

Table 7 Elements for List Applications, Tiers, and instances

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Always environments-list **Mandatory**: Yes
output-file	**Values**: path to output file If output-file argument is omitted, output will be redirected to a new file created in infra/cli/output folder. **Mandatory**: No

Associate/Disassociate instance Tier

This command associates or disassociates instances to the Tier. Please note the following:

- You can connect an instance to only one Tier in an application.
- An instance must be part of at least one Tier.
- To move an instance to another Tier, first associate the instance with the target Tier, and then disassociate the instance from the original Tier.
- The OS Tier name must be "OS".
- The Other Tier name must be identical to the instance name.
- If you are associating an instance to a non-existent Tier and application, the specified Tier and application are automatically created.
- If you are disassociating an instance from an Tier, and the Tier no longer contains instances, the Tier is automatically deleted. If there are no more Tiers in the related application, the application is also deleted.
- Any Tier change performed on an instance which is part of a cluster, is automatically applied to all instances of that cluster.

Windows infra\bin\psin_cli.bat
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action instance-apptier
-technology <*technology_code*>
-instance-server-machine-name <*server_machine_name*>
[-proxy-alias <*node_alias*>]
-instance-name <*instance_name*>
-apptier-name <*Tier_name*>
-environment-name <*application_name*>
-type <*type*>}
[-apptier-application <*application_code*>] [-apptier-frontend {true|false}]
[-force {true|false}]

UNIX ./infra/bin/psin_cli.sh
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action instance-apptier
-technology <*technology_code*>
-instance-server-machine-name <*server_machine_name*>
[-proxy-alias <*node_alias*>]
-instance-name <*instance_name*>
-apptier-name <*Tier_name*>
-environment-name <*application_name*>
-type <*type*>
[-apptier-application <*application_code*>] [-apptier-frontend {true|false}]
[-force {true|false}]

Table 8 Elements for Associate/Disassociate instance Tier

Element	Descriptions
i3-user	See Authenticate to CLI Utility.

i3-encrypted-password	See Authenticate to CLI Utility.
action	Always instance-apptier **Mandatory**: Yes
technology	**Values**: Technology code. For more information, see Technology Codes. **Mandatory**: Yes
instance-server-machine-name	The instance server machine name. **Values**: string **Mandatory**: Yes
proxy-alias	The proxy alias. **Values**: alias of the related node **Mandatory**: Only for a federated installation
instance-name	The instance name. **Values**: string **Mandatory**: Yes
apptier-name	The Tier name. **Values**: string **Mandatory**: Yes
environment-name	The application name. **Values**: string **Mandatory**: Yes
type	**Values**: one of DISSOCIATE,ASSOCIATE use ASSOCIATE to add an instance to a Tier use DISSOCIATE to remove an instance from a Tier. **Mandatory**: Yes
apptier-application	**Values**: Application code is optional and can be specified only for the following technologies: Other – CTX, .Net - ASP,DNT, WEB - WEB, SAP, PST, SBL. **Mandatory**: No
apptier-frontend	Indicates whether the Tier is a front-end Tier. **Values**: true or false **Mandatory**: No
force	Indicates whether this operation should be performed even if it affects several instances. **Values**: true or false **Mandatory**: Yes if changing the instance Tier when the instance is part of a cluster

Copy Report Manager Reports

CLI enables you to copy reports from one Tier to another. This can also be done between different Nodes, meaning between 2 applications on the same Precise federated installations that each belongs to different Node. To copy Report Manager reports from one Tier to another run the following command from the main Precise FocalPoint root folder:

Windows
```
infra\bin\psin_cli.bat
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action fs-copy-foresight-custom-report
-parametersfile <parameters_file_path>
```

UNIX
```
./infra/bin/psin_cli.sh
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action fs-copy-foresight-custom-report
-parametersfile <parameters_file_path>
```

An example of the parameters file is:

```
<parameters>
    <parameter name="source-environment" value="Default"/>
    <parameter name="source-apptier" value="SQL Server"/>
    <parameter name="source-report" value="a_test"/>
    <parameter name="destination-environment" value="test"/>
    <parameter name="destination-apptier" value="SQL Server"/>
</parameters>
```

> To copy a Cross-Tier report, you should use the following string for both the "source-apptier" and "destination-apptier" parameter: "Cross-AppTiers".

Table 9 Elements for Attach

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-clear-password	See Authenticate to CLI Utility.
action	Values: fs-copy-foresight-custom-report. **Mandatory**: Yes
parametersfile	**Values**: Mandatory:

Create inventory report

The create inventory report enables you to create an Excel file containing information regarding your installation servers, nodes, PW, and instances.

To create an inventory report, run the following command on the main Precise FocalPoint:

Windows
```
infra\bin\psin_cli.bat
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action inventory-report
[-output-file <output_file_name>]
```

UNIX
```
./infra/bin/psin_cli.sh
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action inventory-report
[-output-file <output_file_name>]
```

Table 10 Elements for Create an inventory report

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Values: Always inventory-report. **Mandatory**: Yes
output-file	The file name to save report to. **Values**: Path **Mandatory**: No

Clean Logger cache

Each agent that uses the logger has a cached configuration for the logger. When you want to update the logger configuration, you need to remove the logger cache, so that the related agent will reload the new updated configuration.

To update the logger configuration, run the following command on the Main Precise FocalPoint:

Windows infra\bin\psin_cli.bat
-action clean-logger-cache
-server <*server_name*>
[-proxy-alias <*node_alias*>]

UNIX ./infra/bin/psin_cli.sh
-action clean-logger-cache
-server <*server_name*>
[-proxy-alias <*node_alias*>]

Table 11 Elements for Clean Logger cache

Element	Description
action	Always clean-logger-cache. **Mandatory**: Yes
server	The server name where the related agent is installed. **Mandatory**: Yes
proxy-alias	The proxy alias. **Values**: alias of the related node **Mandatory**: Only for a federated installation

Change GUI server port

You can change the GUI server port using CLI. To change the GUI server port run the following command on the Precise FocalPoint whose GUI server port you want to change:

Windows infra\bin\psin_cli.bat
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action change-gui-port
-port <*the_new_port*>
[-shutdown-port <*the_new_shutdown_port*>] [-url <*the_gui_server_url*>]

UNIX ./infra/bin/psin_cli.sh
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <*clear_password*>}
-action change-gui-port
-port <*the_new_port*>
[-shutdown-port <*the_new_shutdown_port*>] [-url <*the_gui_server_url*>]

Table 12 Elements for Change GUI server port

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-clear-password	See Authenticate to CLI Utility.
action	Always change-gui-port. **Mandatory**: Yes
port	The new port used for GUI server. **Mandatory**: Yes
shutdown-port	Local port used to control the GUI server. **Mandatory**: No
url	URL used to access the GUI server. This can also be used in case you have changed GUI server to use SSL, and you want to update Precise of this. **Mandatory**: No

Join instances to cluster

Web and J2EE technologies support cluster installation. When installing an instance, you can choose whether to install the instance as a standalone instance or as a cluster.

If you have installed instances as standalone instances and they should have been installed as a cluster, you can uninstall the instances and reinstall one instance as a cluster instead. This, however does not keep historical data for the newly installed cluster's instances. If you want to keep the historical data related to the instances, you can use the join instances to cluster CLI utility command.

Prerequisites for using the Join instances to cluster command

The following list describes the prerequisites for using the Join instances to cluster command:

- Only Web (WebSphere and WebLogic only) and J2EE instances are supported.
- All instances' servers must contain the same Precise version as the Main Precise FocalPoint. If upgrading from Precise 8.7, complete the upgrade related action items.
- All instance's servers must have the same path to the Precise installation folder.
- All instances must be of the same type (and for Web also of the same application) and must be standalone instances (you cannot join instances which are already installed as a cluster).
- Before a Web instance can be joined, it must run at least once.

The Join instances to cluster command

To join the instances, run the following CLI utility command from the Main Precise FocalPoint root folder:

Windows
```
infra\bin\psin_cli.bat
-i3-user <user_name>
-i3-clear-password <clear_password>
-action join-instances-to-cluster
[-proxy-alias<proxy alias>]
-instances-ids "<instances_ids>"
-cluster-name <cluster_name>
-[template <template>]
[[-installation-cd-path <cd_path>]
```

UNIX
```
infra/bin/psin_cli.sh
-i3-user <user_name>
-i3-clear-password <clear_password>
-action join-instances-to-cluster
[-proxy-alias<proxy alias>]
-instances-ids "<instances_ids>"
-cluster-name <cluster_name> [template <template>]
[[-installation-cd-path <cd_path>]
```

Table 13 Elements for Join instances to cluster

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-clear-password	See Authenticate to CLI Utility.
action	Always join-instances-to-cluster **Mandatory**: Yes
proxy-alias	Alias of the instance's related node. **Mandatory**: Yes, only in a federation installation.
instances-ids	Comma separated list of IDs related to the instances that need to be joined. To get the IDs related to the instances, use the get-instance-id CLI utility command. See Installing a new instance while keeping historical data from an old instance. **Mandatory**: Yes
cluster-name	The name of the cluster to install. **Mandatory**: Yes
template	The ID of the instance that will be used as the template to install the new cluster. If omitted, the first instance in -instances-ids is used as the template instance. **Mandatory**: No

installation-cd-path	Indicates the absolute path to the folder where the Precise v9.6 download was downloaded to. **Values**: String **Mandatory**: Yes

Configure SmartLink for an application

SmartLink is set by default for an application containing Web/J2EE/.NET Tiers. If you want to disable SmartLink for the application, run the following CLI utilities command on the main Precise FocalPoint:

Windows
```
infra\bin\psin_cli.bat
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action smartlink-config
-environment-name <application_name>
-enable <enable_smartlink>
```

UNIX
```
./infra/bin/psin_cli.sh
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action smartlink-config
-environment-name <application_name>
-enable <enable_smartlink>
```

Table 14 Elements to configure SmartLink

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Always smartlink-config **Mandatory**: Yes
environment-name	The name of the application on which SmartLink should be enabled/disabled. **Mandatory**: Yes
enable	Indicates whether SmartLink should be enabled or disabled for the application. **Values**: true, false **Mandatory**: Yes

Downtime command

The downtime command defines new downtime rules for an application, server, or specific Instance. Define the downtime using CLI utilities by running the following command:

Windows
```
infra\bin\psin_cli.bat
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action downtime
{-environment-name <application_name> | -server <server_name> | -instance-name <instance_name>
-technology <technology_code> -server <server_name>}
-proxy-alias <proxy_alias_name>
-start date <start_date>
-start time <start_time>
-end date <end_date>
-end time <end_time>
```

UNIX
```
./infra/bin/psin_cli.sh
-i3-user <user_name>
{-i3-encrypted-password <encrypted_password> | -i3-clear-password <clear_password>}
-action downtime
{-environment-name <application_name> | -server <server_name> | -instance-name <instance_name>
-technology <technology_code> -server <server_name>}
-proxy-alias <proxy_alias_name>
-start date <start_date>
-start time <start_time>
-end date <end_date>
-end time <end_time>
```

Table 15 Elements to configure the downtime

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Always downtime. **Mandatory**: Yes
environment-name	The name of the application on which the downtime needs to be defined. The downtime rules will be applied to all instances on this application **Values**: String **Mandatory**: Yes, unless the downtime rule is defined per server or an instance.
server	The name of the server on which the downtime needs to be defined. The downtime rules will be applied to all instances on this server. **Values**: String **Mandatory**: Yes, unless the downtime rule is defined per application.
technology	The related technology code. **Values**: String. For more information, see Technology Codes. **Mandatory**: Yes, when the downtime rule is applied to a specific instance.
proxy-alias	The proxy alias related to the downtime definition. **Values**: String **Mandatory**: No, unless there is more than one proxy.
start-date	The start date of the downtime rule. **Values**: Date (format: YYYY-MM-DD) **Mandatory**: Yes
start-time	The start time of the downtime rule. **Values**: Time (format: HH24:MI:SS) **Mandatory**: Yes
end-date	The end date of the downtime rule. **Values**: Date (format: YYYY-MM-DD) **Mandatory**: Yes
end-time	The end time of the downtime rule. **Values**: Time (format: HH24:MI:SS) **Mandatory**: Yes

AdminPoint Dashboard acknowledgement

The AdminPoint Dashboard provides information regarding health of the Precise installation. The information is displayed in categories for each category per components. If you want to ignore a report for a specific component, for instance because the problem is currently being handled, you will have to add the Unique Key column to the Dashboard and use this relevant key in a CLI utillities command.

To ignore a specific component on the Dashboard:

1. In Precise, enter the AdminPoint Dashboard.
2. On the right side of the screen, click the Column chooser icon, and add the Unique Key column to the visible field. Now each component shows its unique key.
3. Find the unique key of the component of which you want to ignore its condition.
4. Run the CLI utillities script below to ignore the component's condition.

> Ignored components are shown with a gray severity icon.

> If you have added the type add for the ignored item, it will also be listed in a new category named Acknowledged.

> You can specify an expiration date for the acknowledgement and you can also delete them.

Windows infra\bin\psin_cli.bat
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <clear_password>}
-action dashboard-ignore-handle
-dashboard-key <*dashboard_key*>
-type {add|remove}
{-expire-in-days<*expire_in_days*>}

UNIX ./infra/bin/psin_cli.sh
-i3-user <*user_name*>
{-i3-encrypted-password <*encrypted_password*> | -i3-clear-password <clear_password>}
-action dashboard-ignore-handle
-dashboard-key <*dashboard_key*>
-type {add|remove}
{-expire-in-days<*expire_in_days*>}

Table 16 Elements to configure the Dashboard acknowledgement

Element	Description
i3-user	See Authenticate to CLI Utility.
i3-encrypted-password	See Authenticate to CLI Utility.
action	Always dashboard-ignore-handle. **Mandatory**: Yes
dashboard-key	The Unique Key of the Dashboard component. **Values**: String Use quotes to specify a key that includes spaces. **Mandatory**: Yes.
type	Add or remove the Dashboard acknowledgement. **Values**: add, remove **Mandatory**: Yes.
expire-in-days	Relevant for adding ignore. It specifies the amount of days that the ignore is relevant for. If not specified, the acknowledge is enabled for good. **Values**: Integer **Mandatory**: No.