

# Sisense Shell (PSM.EXE)

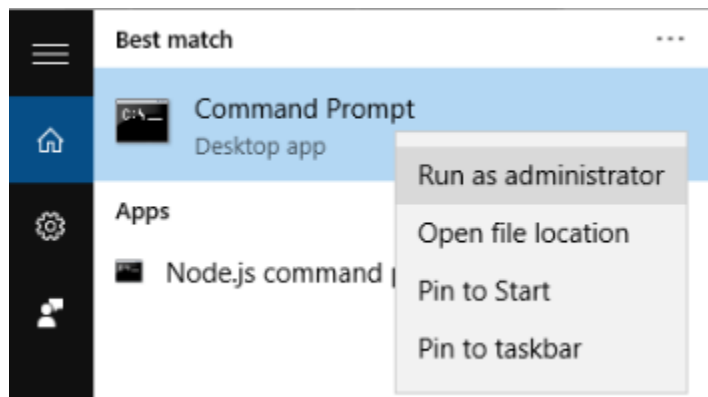
Sisense includes a CLI (Command Line Interface) utility called `PSM.exe` which supports executing various ElastiCube-related commands using the Windows command line ("shell") or Windows PowerShell.

The Sisense CLI allows you to automate Sisense tasks that you can then implement as part of your application.

## Accessing the Sisense CLI

The Sisense Shell is installed by default when you install Sisense.

To access the Sisense Shell, you should open the Command Prompt as an administrator:



Next, navigate to the directory containing the Sisense CLI executable by entering the following command:

```
cd "C:\Program Files\Sisense\Prism\"
```

Lastly, run the command `psm.exe` (or just `psm`) and the CLI will output a list of available commands:

```

Administrator: Command Prompt
c:\Program Files\Sisense\Prism>psm

=====
-- SiSense Shell 7.2.0.10003 --
=====

Available commands:

ecube applyPatch : Applies a patch file for accumulative build
ecube attach     : Attaches an ElastiCube folder
ecube attachDetach : Detaches and attaches an ElastiCube folder
ecube build     : Builds an ElastiCube
ecube convert   : Extracts the XML from the ECUBE or vice versa
ecube convertToJson : Converts an .ecube file to JSON representation
ecube create    : Creates an empty ElastiCube
ecube delete    : Deletes an ElastiCube
ecube detach    : Detaches an ElastiCube
ecube edit      : Modifies an .ecube file
ecube export    : Exports an ElastiCube to an .ecdata file
ecube getBuildOrder : Returns the build order of an ElastiCube
ecube GetLastBuildStatus : Returns the status of the last build for a given ElastiCube.
ecube import    : Imports an ElastiCube from an .ecdata file
ecube info     : Returns the ElastiCube's details
ecube restart   : Restarts an ElastiCube
ecube scaleAnalysis : Performs a scale analysis on an ElastiCube
ecube start    : Starts a running ElastiCube
ecube stop     : Stops a running ElastiCube
doc ChangeDataSource : Change a datasource behind the psm with another
doc Replace      : Replace string expressions within the psm
ecs Start       : Starts a service
ecs Stop        : Stops a service
ecs SysId       : Return the id of the server
sysinfo        : Sends system info
ecdata 62downgrade : Converts a 6.2 ecdata to a pre 6.2 ecdata
debug          : Debug and support functions

```

The table below lists the Sisense Shell commands, descriptions, related parameters, examples, and notes if similar functionality is included in Sisense's REST APIs.

## Available Commands

The commands listed below are available in the latest version of Sisense. If commands that are listed here are not available in your version of the CLI, you may need to upgrade to the latest version.

### Note

The attributes and their examples below are case sensitive.

Command	Description	Parameters
<b>ecube attach</b>	<p>Attaches an ElastiCube folder to the local server.</p> <p><b>Example:</b></p> <pre>psm ecube attach path=s:\ElastiCubedata\accheck1 serverAddress=192.168.1.xxx</pre>	<p><b>path:</b> Defines the full path of the folder you want to attach to a server.</p> <p><b>serverAddress:</b> Defines the address of a remote server. If the address is not a remote server or no value is entered, the default value localhost is used.</p> <p><b>sync:</b> Determines whether to execute this synchronously or asynchronously. Optional. By default, the value is False, asynchronously.</p>

<p><b>ecube build</b></p>	<p>Builds an ElastiCube from an ecube file or server-hosted ElastiCube.</p> <p><b>Example:</b></p> <p>Full Build, Local Server</p> <pre>psm ecube build name=" &lt;elasticsearch name&gt;" mode=restart serverAddress=localhost</pre> <p>Accumulative Build, Remote Server</p> <pre>psm ecube build name=" &lt;elasticsearch name&gt;" mode=restart serverAddress=192.168.1.134</pre> <p><b>Note:</b> You can access similar functionality in the REST API. See <code>/elasticsearches/{server}/ {elasticsearch}/startBuild</code> for more information.</p>	<p><b>filename:</b> Defines the name of the ecube file. The ecube file contains the ElastiCube schema and data connection settings required for building the ElastiCube on the target server.</p> <p><b>name:</b> Defines the name of an existing ElastiCube in an ElastiCube server. Use the name parameter when you want to rebuild the ElastiCube.</p> <p><b>serverAddress:</b> Defines the target server address on which the ElastiCube should be built.</p> <p><b>mode:</b> Defines the how the ElastiCube should be built. Possible values include:</p> <ol style="list-style-type: none"> <li>1. <b>mode=restart:</b> Rebuilds the ElastiCube entirely.</li> <li>2. <b>mode=full:</b> Rebuilds the ElastiCube and accumulates data for tables marked as accumulative. This mode should only be used for accumulative builds.</li> <li>3. <b>mode=changes:</b> Rebuilds from scratch tables that have changed in the ElastiCube schema.</li> <li>4. <b>mode=metadataonly:</b> Updates the ElastiCube server with the ElastiCube schema, without building.</li> </ol> <p><b>OrchestratorTask Id:</b> Optional. The default value is none. This parameter is relevant for high availability configurations. For more information, see <a href="#">High Availability</a>.</p>
<p><b>ecube convert</b></p>	<p>Converts ElastiCube XMLs files or encrypted ElastiCube XMLs files into ElastiCube files or ElastiCube files into ElastiCube XMLs (unencrypted).</p> <p>The converted file is created in the same folder as the source file.</p> <p><b>Example:</b></p> <p>Ecube to XML</p> <pre>psm ecube convert name="c: \mycube.ecube"</pre> <p>XML to Ecube</p> <pre>psm ecube convert name="c: \mycube.xml"</pre>	<p><b>name:</b> Address and filename of the source file.</p>
<p><b>ecube create</b></p>	<p>Creates an empty ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube create serverAddress=localhost name=TestCube</pre>	<p><b>serverAddress:</b> Defines the target server address on which the ElastiCube should be built.</p> <p><b>name:</b> Defines the name of the new ElastiCube.</p>
<p><b>ecube delete</b></p>	<p>Delete an ElastiCube from the target server.</p> <p><b>Example:</b></p> <pre>psm ecube delete name="mycube" serverAddress=localhost</pre>	<p><b>name:</b> Defines the name of the ElastiCube to be removed from the target server.</p> <p><b>serverAddress:</b> Defines the target server address from which the ElastiCube should be removed.</p>

<p><b>ecube detach</b></p>	<p>Detaches an ElasticCube from the local server. When you detach an ElasticCube, the ElasticCube can no longer be accessed, but is saved in your ElasticCube folder in case you want to attach and reuse the ElasticCube again.</p> <p><b>Example:</b></p> <pre>psm ecube detach name="mycube" serverAddress=localhost</pre>	<p><b>name:</b> Defines the name of the ElasticCube you want to detach.</p> <p><b>serverAddress:</b> Defines the address of a remote server. If the address is not a remote server or no value is entered, the default value localhost is used.</p> <p><b>sync:</b> Determines whether to execute this synchronously or asynchronously. Optional. By default, the value is False, asynchronously.</p>
<p><b>ecube edit fields addCustomField</b></p>	<p>Adds a custom field to a specified table in an ElasticCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit fields addCustomField serverAddress=localhost cubeName="Sample ECommerce"  tableName=MyTable fieldName=MyField sqlExpression=" SELECT 1"</pre>	<p><b>serverAddress:</b> The target server address where the ElasticCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElasticCube.</p> <p><b>tableName:</b> The name of the table where a new custom field will be added.</p> <p><b>fieldName:</b> The name of the table.</p> <p><b>sqlExpression:</b> The SQL expression of the new custom field.</p>
<p><b>ecube edit fields getListOfFields</b></p>	<p>Retrieves a list of all fields from a table.</p> <p><b>Example:</b></p> <pre>psm ecube edit fields getListOfFields serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable isCustom=false</pre>	<p><b>serverAddress:</b> The target server address where the ElasticCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElasticCube.</p> <p><b>tableName:</b> The name of the table.</p> <p><b>isCustom:</b> Indicates if the table is custom when set to true.</p>
<p><b>ecube edit fields getSqlOfCustomField</b></p>	<p>Retrieves the SQL string of a custom field in a table in the specified ElasticCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit fields getSqlOfField serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable fieldName=MyField</pre>	<p><b>serverAddress:</b> The target server address where the ElasticCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElasticCube.</p> <p><b>tableName:</b>The name of the table.</p> <p><b>fieldName:</b> The name of the custom field.</p>
<p><b>ecube edit fields removeField</b></p>	<p>Removes a field from a specific table from an ElasticCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit fields removeField serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable fieldName=MyField</pre>	<p><b>serverAddress:</b> The target server address where the ElasticCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElasticCube.</p> <p><b>tableName:</b>The name of the table.</p> <p><b>fieldName:</b> The name of the custom field.</p>

<p><b>ecube edit fields</b> <b>updateSqlStatementOfField</b></p>	<p>Modifies the SQL statement of a field.</p> <p><b>Example:</b></p> <pre>psm ecube edit fields updateSqlStatementOfField serverAddress=localhost cubeName="Sample ECommerce"  tableName=MyTable fieldName=MyField sqlExpression= "SELECT 2"</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the table.</p> <p><b>fieldName:</b> The name of the custom field.</p> <p><b>sqlExpression:</b> The new SQL expression.</p>
<p><b>ecube edit rename</b></p>	<p>Renames local ElastiCube files.</p> <p><b>Example:</b></p> <pre>psm ecube edit rename ecube="c:\test.ecube" name="mycube"</pre>	<p><b>ecube:</b> Address and filename of the .ecube file.</p> <p><b>name:</b> The new name of the ElastiCube file.</p> <p><b>backup:</b> (Optional) Boolean value that creates a .bak file of the ecube when renaming it. The backup file created has the format name.ecube.bak. By default, this value is false.</p>
<p><b>ecube edit connection refresh</b></p>	<p>Refreshes all tables within an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit connection refresh ecube="C:\test.ecube"</pre>	<p><b>ecube:</b> Address and filename of the .ecube file.</p>
<p><b>ecube edit tables addCustomTable</b></p>	<p>Adds a new custom table to the specified ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables addCustomTable serverAddress=localhost cubeName="Sample ECommerce"  tableName=MyTable sqlExpression=" SELECT * FROM [category]"</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b>The name of the table.</p> <p><b>sqlExpression:</b> The new SQL expression.</p>

<p><b>ecube edit tables addTable</b></p>	<p>Adds a new Base table to the specified ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables addTable serverAddress=localhost cubeName="Sample ECommerce" provider=MySQL  connectionString="data source=10.0.0.4;UID=admin; password=password; database=testdb"  schemaName=testdb tableName=currency customTableName="MyTable" sqlExpression=" "</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>provider:</b> The name of the provider. Currently supported providers and their usage:</p> <ul style="list-style-type: none"> <li>MsSql - "sql",</li> <li>MySQL - "MySQL"</li> <li>Amazon Redshift - "RedShift"</li> <li>PostgreSQL - "PostgreSQL"</li> <li>Oracle - "Oracle"</li> </ul> <p><b>connectionString:</b> The name of the ElastiCube where the table is to be added.</p> <p><b>schemaName:</b> The schema name of new table to be added.</p> <p><b>tableName:</b> The name of new table to be added.</p> <p><b>customTableName:</b> An optional custom name for the new table to be added.</p> <p><b>sqlExpression:</b> An SQL expression for the new Base table.</p>
<p><b>ecube edit tables deleteTable</b></p>	<p>Deletes a table from the specified ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables deleteTable serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the ElastiCube table.</p>
<p><b>ecube edit tables getConnectionStringOfTable</b></p>	<p>Retrieves the connection string of a table from an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables getConnectionStringOfTable serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the ElastiCube table.</p> <p><b>additionalParameters:</b> A boolean value that allows you to return additional parameters that are part of the connection string instead of just the basic string that is returned by default. This</p>
<p><b>ecube edit fields getListOfFields</b></p>	<p>Retrieves a list of all custom tables from an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit fields getListOfFields serverAddress=localhost cubeName="Sample ECommerce"  tableName=MyTable isCustom=true</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the ElastiCube table.</p> <p><b>isCustom:</b> Set to true to return only custom fields.</p>

<p><b>ecube edit tables getListOfTables</b></p>	<p>Retrieves a list of all tables from an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables getListOfTables serverAddress=localhost cubeName="Sample ECommerce" isCustom=false</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>isCustom:</b> Set to true to return only custom tables.</p>
<p><b>ecube edit tables getProviderOfTable</b></p>	<p>Retrieves the provider string of a specific table from an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables getProviderOfTable serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the ElastiCube table.</p>
<p><b>ecube edit tables getSqlOfTable</b></p>	<p>Retrieves the SQL string of a specific table from an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables getSqlOfTable serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the ElastiCube table.</p>
<p><b>ecube edit tables updateSqlStatementOfTable</b></p>	<p>Modifies the SQL statement of a table.</p> <p><b>Example:</b></p> <pre>psm ecube edit tables updateSqlStatementOfTable serverAddress=localhost cubeName="Sample ECommerce"  tableName=MyTable sqlExpression=" SELECT * FROM accounts360. account" isCustom=false</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the ElastiCube table.</p> <p><b>sqlExpression:</b> The new SQL expression.</p> <p><b>isCustom:</b> Set to true if the table is a custom table.</p>
<p><b>ecube edit relations createRelation</b></p>	<p>Creates a new relationship between two fields in an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit relations createRelation serverAddress=localhost cubeName="Sample ECommerce" sourceTable=category  sourceField="Category ID" targetTable=brand targetField=" Brand ID"</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>sourceTable:</b> The name of the relationship source table.</p> <p><b>sourceField:</b> The name of the relationship source field.</p> <p><b>targetTable:</b> The name of the relationship target table.</p> <p><b>targetField:</b> The name of the relationship target field.</p>

<p><b>ecube edit relations deleteRelation</b></p>	<p>Deletes a relation between two fields.</p> <p><b>Example:</b></p> <pre>psm ecube edit relations deleteRelation serverAddress=localhost cubeName="Sample ECommerce"  sourceTable=category sourceField="Category ID" targetTable=brand targetField=" Brand ID"</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>sourceTable:</b> The name of the relationship source table.</p> <p><b>sourceField:</b> The name of the relationship source field.</p> <p><b>targetTable:</b> The name of the relationship target table.</p> <p><b>targetField:</b> The name of the relationship target field.</p>
<p><b>ecube edit relations getRelationsOfTable</b></p>	<p>Retrieves a list of all relations of a specified table in an ElastiCube.</p> <p><b>Example:</b></p> <pre>psm ecube edit relations getRelationsOfTable serverAddress=localhost cubeName="Sample ECommerce" tableName=MyTable</pre>	<p><b>serverAddress:</b> The target server address where the ElastiCube is hosted. The default value is LocalHost.</p> <p><b>cubeName:</b> The name of the ElastiCube.</p> <p><b>tableName:</b> The name of the ElastiCube table.</p>
<p><b>ecube edit</b></p>	<p>Modifies the the database connection attributes.</p> <p>The following data sources are supported:</p> <ul style="list-style-type: none"> <li>• MS SQL Server</li> <li>• Oracle</li> <li>• MySQL</li> <li>• PostgreSQL</li> <li>• DB2</li> <li>• Teradata</li> <li>• Salesforce</li> <li>• Zendesk</li> <li>• Splunk</li> </ul> <p><b>Example:</b></p> <pre>psm ecube edit connection database ecube="c:\ users\myuser\documents\mycube. ecube" server="10.0.0.1"  database="tracking" newserver=" localhost" newdatabase=" trackingX" newusername=" mynewuser" newpassword=" newpassword"</pre>	<p><b>ecube:</b> Defines the ecube file name to edit.</p> <p><b>server:</b> Defines the source server to modify (leave empty to modify all databases in server).</p> <p><b>database:</b> Defines the source database to modify.</p> <p><b>newserver:</b> Defines the new server address (leave empty to keep previous value).</p> <p><b>newdatabase:</b> The new database (leave empty to keep previous value).</p> <p><b>newschema:</b> The new schema (leave empty to keep previous value).</p> <p><b>newusername:</b> Defines the new username (leave empty to keep previous value).</p> <p><b>newpassword:</b> Defines the new password (leave empty to keep previous value).</p> <p><b>backup:</b> Indicates if the ElastiCube file should be backed up (defaults is true).</p>
<p><b>ecube info</b></p>	<p>Returns information about the ElastiCube such as its build history and current status.</p> <p><b>Example:</b></p> <pre>psm ecube info name="mycube" serverAddress=localhost</pre>	<p><b>name:</b> Defines the name of the ElastiCube.</p> <p><b>serverAddress:</b> Defines the target server address of the ElastiCube.</p>



<p><b>ecube restart</b></p>	<p>Restarts an ElasticCube on the target server.</p> <p><b>Example:</b></p> <pre>psm ecube restart name="mycube" serverAddress=localhost</pre>	<p><b>name:</b> Defines the name of the ElasticCube to be restarted.</p> <p><b>serverAddress:</b> Defines the target server address on which the ElasticCube should be restarted.</p>
<p><b>ecube scaleanalysis</b></p>	<p>Performs a scale analysis of ElasticCubes or tables within an ElasticCube without building a new ElasticCube.</p> <p>The scale analysis returns two CSV files, Columns and Tables, which provides data regarding the type, size and standard deviation of the data within the files.</p> <p>Scale analysis is supported for MySQL, PostgreSQL, and Oracle-based tables.</p> <p><b>Example:</b></p> <pre>psm ecube scaleanalysis name="C:\My ElasticCubes\mycube.ecube"</pre>	<p><b>name:</b> Address and filename of the .ecube file.</p> <p><b>table:</b> The name of the table to be analyzed. When this parameter is blank all the tables are analyzed.</p>
<p><b>ecube start</b></p>	<p>Starts an ElasticCube on the target server.</p> <p><b>Example:</b></p> <pre>psm ecube start name="myCube" serverAddress="localhost "</pre>	<p><b>name:</b> Defines the name of the ElasticCube to be started.</p> <p><b>serverAddress:</b> Defines the target server address on which the ElasticCube should be started.</p>
<p><b>ecube stop</b></p>	<p>Stops an ElasticCube on the target serving. Stopping an ElasticCube reduces the amount of system resources Sisense uses. When you stop an ElasticCube, the ElasticCube can longer be queried.</p> <p><b>Example:</b></p> <pre>psm ecube stop name="myCube" serverAddress="localhost "</pre>	<p><b>name:</b> Defines the name of the ElasticCube to be started.</p> <p><b>serverAddress:</b> Defines the target server address on which the ElasticCube should be stopped.</p>
<p><b>doc changedatasource</b></p>	<p>Changes the data source behind a psm to another data source.</p> <p><b>Note:</b> This is a legacy command used with Sisense version 4. Note: You can access similar functionality in the REST API. See <code>/dashboards/{server}/{title}/replaceDatasource</code> for more information.</p>	<p><b>file:</b> Prism document file name to open and convert.</p> <p><b>prev:</b> Previous data source that is being updated.</p> <p><b>new:</b> New data source.</p>
<p><b>ecs start</b></p>	<p>Starts the ElasticCube server.</p> <p><b>Example:</b></p> <pre>psm ecs start</pre> <p><b>Note:</b> You can access similar functionality in the REST API. See <code>/elasticubes/{server}/{elasticube}/start</code> for more information.</p>	

<p><b>ecs stop</b></p>	<p>Stops the ElastiCube server.</p> <p><b>Example:</b></p> <pre>psm ecs stop</pre> <p><b>Note:</b> You can access similar functionality in the REST API. See <code>/elasticubes/{server}/{elasticsearch}/stop</code> for more information.</p>	
<p><b>sysinfo</b></p>	<p>Returns system information (server hardware) and ElastiCube details (number of cubes, size, etc.).</p> <p><b>Example:</b></p> <pre>psm sysinfo</pre> <p><b>Note:</b> You can access similar functionality in the REST API. See <code>/settings/system</code> for more information.</p>	
<p><b>ecdata 62downgrade</b></p>	<p>Downgrades ElastiCube data files created and encrypted in Sisense version 6.2 to ElastiCube files compatible with versions prior to 6.2 without encryption. This is useful if you have created ElastiCubes in 6.2 and wish to downgrade while still using all of your ElastiCubes.</p> <p><b>Example:</b></p> <pre>psm ecdata 62downgrade filename="C:\Program Files\test62.ecdata"</pre>	<p><b>filename:</b> The filename and location of the ecdata file.</p>