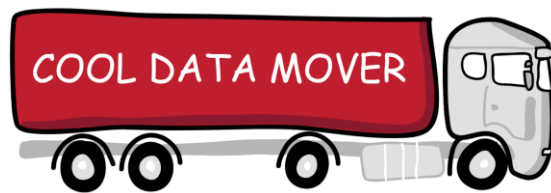




COOLPROFS



Cool Data Mover Installation Manual

v2.6 March 2023





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Part 1

TECHNICAL REQUIREMENTS



Technical requirements

- PaaS, On Premise or Hybrid .NET Stack OutSystems Platform Server version 10.0.800.0 or higher *
- Microsoft SQL Server or Oracle (12c or higher) platform database
- The OutSystems Scheduler service needs to run on each FrontEnd server that participates in Move actions (to facilitate light BPT)
- Webservice communication between Cool Data Mover instances should be possible. In practise this means making sure that the correct port (443 or 80) is opened in the Firewall in OnPrem installations.

* The Cool Data Mover can be installed on versions prior to 10.0.800.0. However, the throughput of importing and exporting data will be impacted as light BPT is not available in these versions.

Part 1

INSTALLATION





Installation

The Cool Data Mover (CDM) application is delivered as a protected solution in the form of an .OSP file. A valid license is required when installing the CDM. **A license can be obtained from CoolProfs** by providing the activation codes of the environments on which the CDM will be installed. The CDM needs to be installed in every environment where exports, imports or deletes will run.

1. Install the Cool Data Mover license. Use Service Center for on-Premise. See ¹⁾ for OutSystems Paas environments.
 - A. Choose Administration => Licensing => Upload new license
 - B. Choose the license file (.lic) supplied by CoolProfs and click Upload
 - C. Note that after a successful install, the Cool Data Mover license is listed under the 'Product Licenses' section
2. Install the Cool Data Mover Solution using Service Center
 - A. Download the latest version of the Cool Data Mover at <https://www.coolprofs.com/cdm-downloads-en/>
 - Download the *.v11 OSP for an OutSystems 11 environment or *.v10 for OutSystems 10
 - B. Choose Factory => Solutions => Upload & Publish a solution
 - C. Choose the .OSP file and click 1-Click Publish
3. Disable activity logging using Service Center to avoid overload of log-messages
 - A. Choose Factory => Extensions => Uncheck the 'Activity Logging' checkbox for **all CDM_* Extensions**
 - Select the extension => Select the 'Operation' tab => Uncheck Activity Logging => Click Apply
 - B. Choose Factory => Modules => Uncheck the 'Activity Logging' checkbox for *modules* **CDM_Worker, CDM_Mediator** and **CDM_FileSystemServices**
 - Select the module => Click on the 'Operation' tab => Uncheck Activity Logging => Click Apply

¹⁾ In an on-premise situation you need to have Administrator privileges to perform the listed actions.

In an OutSystems PaaS environment, you will need to request OutSystems (via a support ticket) to perform the license installation





Installation (continued)

4. Enable Move Types

Enable imports, exports and/or deletes by setting the corresponding 'enable..' site-properties to True in the **CDM_DataMover** module. Consider which moves types are appropriate/allowed for the environment in which you are installing the Cool Data Mover; for instance, usually Deletes will not be allowed in a production environment.

5. Oracle specific grants

For *On-Premise Oracle* environments please make sure the database user under which the CDM connects to the database (normally OSRUNTIME) is granted execute rights on the packages SYS.DBMS_CRYPT0 and SYS.DBMS_LOB.

6. Security settings

By default, the Data Mover uses the http protocol for its screens and webservice (to facilitate SSL offloading). However, we strongly recommend to use the https protocol. This can be enforced for the complete Cool Data Mover application in LifeTime or ServiceCenter

- a. In Lifetime, choose Environments => Production => More security settings
- b. Enable the following options:
 - Force HTTPS for screens in Web Applications
 - Force HTTPS for exposed integrations in Web Applications

When using HTTPS, valid certificates supporting https connections are required.

Please note that when using the 'Force HTTPS for exposed integrations' option, the Https protocol also needs to be selected in the environment settings section of the Cool Data Mover.



Installation (continued)

7. Grant authorizations in OutSystems Users application
The Cool Data Mover comes with the following predefined roles. Access to the roles is required to be able to use the Cool Data Mover.
Grant users/groups that require access the necessary roles.
 - CDM_User base role of the Cool Data Mover, required for every user
 - CDM_Admin to manage environment settings and have overall access to all functions
 - CDM_Packager to create and edit packages
 - CDM_Importer to execute imports using predefined packages
 - CDM_Exporter to execute exports using predefined packages
 - CDM_Deleter to execute deletes using predefined packages
 - CDM_Filemanager to create (sub)folders and perform file operations on the Main Data Mover server

8. WebserviceKey
For security reasons, make sure all environments have got **the same** value in the **CDM_Base.WebserviceKey** site property by copying the value from one environment to all other environments. It does not matter which value, make sure they are all the same.

9. Enable LightBPT
Make sure that the 'Light process execution' checkbox is checked for the **CDM_Worker** module (on the 'Operation' tab)

10. Republish solution
To make all changes effective, we must now re-publish the *current running version* of the CoolDataMover solution.

11. The Cool Data Mover application will be available at http://<yourserver>/CDM_DataMover
Proceed by specifying the environment parameters in the Settings of the application (see 'Configuration' section)

Applications, modules and site properties



The Data Mover consists of two applications

“Cool Data Mover” and

“Cool Data Core”

All modules are prefixed by “CDM_”

The following table lists **customizable** site properties. All other site properties are managed by the Data Mover **and should only be changed after consulting with CoolProfs CDM Support**

Module	Site Property	Type	Value
CDM_Base	WebServiceKey	Text	The same value in all environments
CDM_DataMover	EnableDelete	Boolean	True
	EnableExport	Boolean	True
	EnableImport	Boolean	True

Part 2

CONFIGURATION

Configure environment



Data Packages

Environment

Monitor

File Explorer

Run logs



Environment settings (**Production**)

Settings

Storage locations

Environment

Environment name *

Production

Acronym

PRD

Sticker settings

Show Sticker



Background Color

#AFF

Foreground Color

#294c84



Environment name

The name of the environment (Dev, Test,Prod)

Acronym

Abbreviation of the environment name

Show Sticker

Whether the environment sticker is shown on the CDM screens

Colors

Text and background color within the environment sticker. All HTML notations are accepted

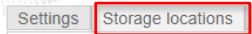
Storage Locations

A Storage Location identifies a physical location onto which the CDM can store or read data files.

When unsure about these settings please contact CDM support!




Environment settings (Production)



Storage Locations

Storage location detail

Name	<input type="text" value="Acceptance"/>
Type *	<input type="text" value="Directory"/> 
Front-end server	<input type="text" value="coolprofs-tst.outsystemsenterprise.com"/> via <input type="text" value="Https"/>
Base directory	<input type="text" value="D:\User\CoolDataMover"/> <input type="button" value="Verify"/>
Environment default	<input type="checkbox"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Name

The name, of your choosing, of the storage location

Type

The type of storage location. Possibilities are

- **Directory** - A directory on a Front End server (on which the CDM is installed)
- **Network Share** – A network share accessible from the local installation
- **Amazon S3** – Storage bucket available in the Amazon Cloud
- **Azure storage** – File share storage on Azure
- **Server Message Block** – A network share accessible using the native SMB protocol (use this option when accessing an OnPrem share from an Outsystems PaaS environment)

Please specify the requested credentials per type

The base directory defines the top-level directory in which the directories of the different packages will reside.

Access to the specified location will be checked upon save the data and can be manually checked by clicking the Verify button.

For the option Directory, please make sure that the user under which the CDM runs (usually OSRUNTIME) has got read and write permission on the specified directory.



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