

I/O Tasks Connectors

The I/O (Input Output) system allows Forma LMS data to be exported to and imported from other applications.

It is available under:

Admin > Settings > System Configuration > I/O Tasks

It provides the functionalities to configure and schedule a set of tasks for reading and writing .csv or .xml files to be exchanged in a shared FTP folder.

Basic workflow for managing import/export of data in automatic mode:

- Activities are scheduled in the administration area using the I/O (input/output) module, which is located in admin/main/configuration/IO task
- .csv files are placed in the files/common/iofiles directory by Forma or third-party applications through FTP access
- Import or export tasks are performed using Cron or a similar scheduler

Examples of usage

- **Importing user lists** (e.g. filename users_aaaammdd.csv) User ID, Passwords (e.g. "john.doe", "pippo"). Many other cataloguing fields can be added. If these are to be managed through "drop-down menus" then the fixed fields must be "preloaded" in the LCMS system. If authentication is managed through systems such as LDAP, it is not necessary to import the passwords.
- **Importing course lists** (e.g. filename courses_aaaammdd.csv) Course code, Course name (e.g. "001", "Maths"). Other fields can be added to the .csv file, such as: Difficulty, Course status, Subscription policies, Course language, Start date, End date, Course duration and Estimated time.
- **Importing a list of users to be enrolled in courses** (e.g. filename AAAMMDDusercourses_data.csv) User ID, Course code (e.g. "john.smith", "001"). An optional field may also be added for the user level in the course. If this is not specified, the user will be listed as a student. 1 Ghost, 2 Guest, 3 Student, 4 Tutor, 5 Mentor, 6 Teacher, 7 Administrator.
- **Export a list of users** and their status on courses

Tasks configuration

Three steps to create a task and automate some activity:

1. Create a CONNECTOR
2. Create a CONNECTION
3. Create and schedule a TASK

NOTE

Here below a brief general description of the three features, for further details and examples please refer to the [Extended Connectors Guide](#)

Connectors

Connectors	Connections	Tasks															
<div>New connector Create</div> <table><thead><tr><th>Type</th><th>File</th><th>Class</th></tr></thead><tbody><tr><td>course-report-connector</td><td>connector.coursereport.php</td><td>DoceboConnectorCourseReport</td></tr><tr><td>docebo-orgchart</td><td>connector.doceboorgchart.php</td><td>DoceboConnectorDoceboOrgChart</td></tr><tr><td>docebo-users</td><td>connector.docebousers.php</td><td>DoceboConnectorDoceboUsers</td></tr><tr><td>xmlorgchart-connector</td><td>connector.xmlorgchart.php</td><td>DoceboConnectorXmlOrgChart</td></tr></tbody></table> <div>New connector Create</div>			Type	File	Class	course-report-connector	connector.coursereport.php	DoceboConnectorCourseReport	docebo-orgchart	connector.doceboorgchart.php	DoceboConnectorDoceboOrgChart	docebo-users	connector.docebousers.php	DoceboConnectorDoceboUsers	xmlorgchart-connector	connector.xmlorgchart.php	DoceboConnectorXmlOrgChart
Type	File	Class															
course-report-connector	connector.coursereport.php	DoceboConnectorCourseReport															
docebo-orgchart	connector.doceboorgchart.php	DoceboConnectorDoceboOrgChart															
docebo-users	connector.docebousers.php	DoceboConnectorDoceboUsers															
xmlorgchart-connector	connector.xmlorgchart.php	DoceboConnectorXmlOrgChart															

Creating a connector means to activate it and make it operational (there is a file that manages a certain type of data)

There are pre-programmed tasks files that perform the following activities:

- Import/Export organization chart structure (connector.doceboorgchart.php);
- Import/Export organization chart structure from a XML file (connector.xmlorgchart.php);
- Import/Export user-course relation (connector.docebocourseusers.php);
- Import/Export course list (connector.docebocourses.php);
- Import/Export SAP HR-compatible course list (connector.coursesap.php);
- Import/Export course report (connector.docebocoursereport.php);
- Import/Export CSV file (connector.csv.php);
- Import/Export Docebo users (connector.docebousers.php);
- Import/Export users report (connector.userreport.php);

Connections

Connectors | **Connections** | Tasks

Connections

Name	Description	Type		
Course Report		course-report-connector		
Export Users - Read	Read and define users to be exported	docebo-users		
Export Users - Write	Write users list in a csv file	cvs-connector		
Read Orghchart		xmlorgchart-connector		

New connection course-report-connector ▾ Create

Creating a connection means to assign a certain task to a connector, namely where to write or retrieve certain data, whether these are read from a file or stored in a DB.

Tasks

Connectors | Connections | **Tasks**

New task Create

Tasks

Name	Description	Source	Destination	Schedule	Last execution			
task1		connection1	connection2	at 12:27	2019-05-31 22:51:06			
Export Users Task	Export users to CSV	Export Users - Read	Export Users - Write	at 12:27				

New task Create

To create a task means to associate the source connector to a destination connector and explain where to store (importing or exporting) certain data. For instance, writing data on a CSV file or a database beginning with data in another database or CSV file.