

Data Migration process

1

- Identify the data in your existing system that must be imported.
- Identify other data that must be imported (also non-system data).

Note

Data from one table in another system might have to be moved into multiple tables in Microsoft Dynamics

2

- Consider cleaning up the data of your existing system.
- e.g., determine whether old records can be deleted or archived, whether the current database contains duplicate records, whether you want to change numbering schemes and reforming data

Note

Expect to encounter errors the first time that you perform an import. Review the errors that you encounter, make any fixes that are required, and perform the import again.

3

- Determine the appropriate tools and techniques for the data that you must migrate.

4

- Become familiar with the tools and use them

5

- Perform trial imports

6

- Perform full data loads
- Test data in the system

Data Management Framework Concepts

The following terms are introduced in current version of Dynamics 365 for Operations

Data project	A project that contains configured data entities, which include mapping and default processing options.
Data job	A job that contains an execution instance of the data project, uploaded files, schedule (recurrence), and processing options.
Job history	Histories of source to staging and staging to target.
Data package	A single compressed file that contains a data project manifest and/or data files. This is generated from a data job and used for import or export of multiple files with the manifest.

Data Management Scenario

Data management can be used for Excel Add-ins, import/export, or integration

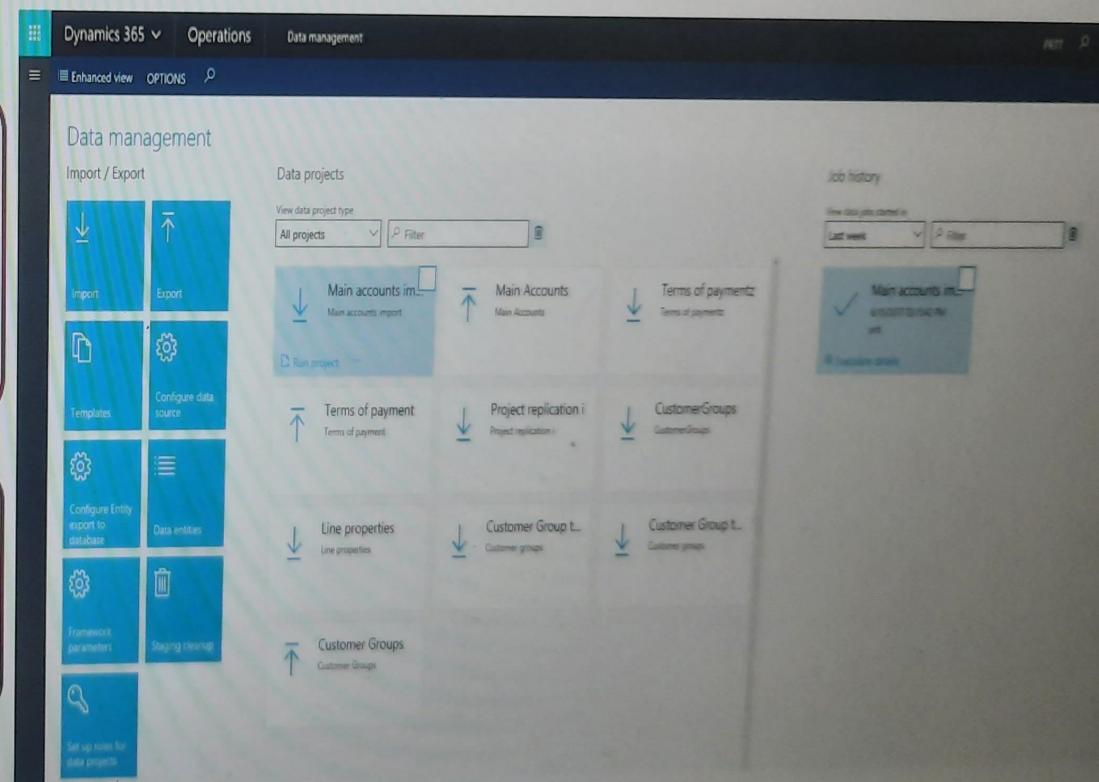
Data Migration	<ul style="list-style-type: none">Migrate reference, master, and document data from legacy or external systems.
Setup and copy configuration	<ul style="list-style-type: none">Copy configuration between company/environments.Configure processes or modules using the Lifecycle Services (LCS) environment.
Integration	<ul style="list-style-type: none">Real-time service-based integration.Asynchronous integration.

Data Management Workspace

Data management supports in **Data entities** the below scenarios:

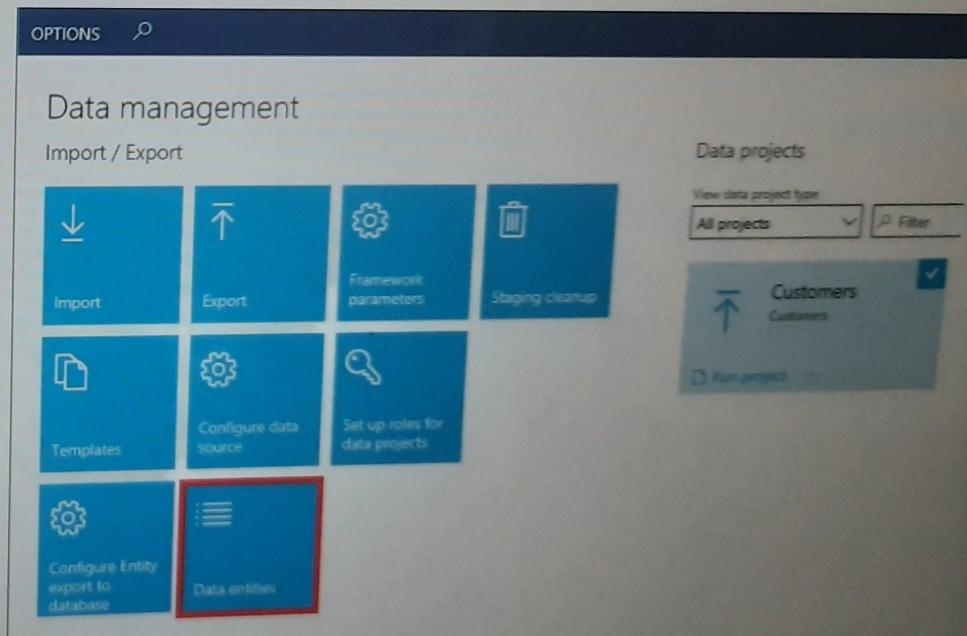
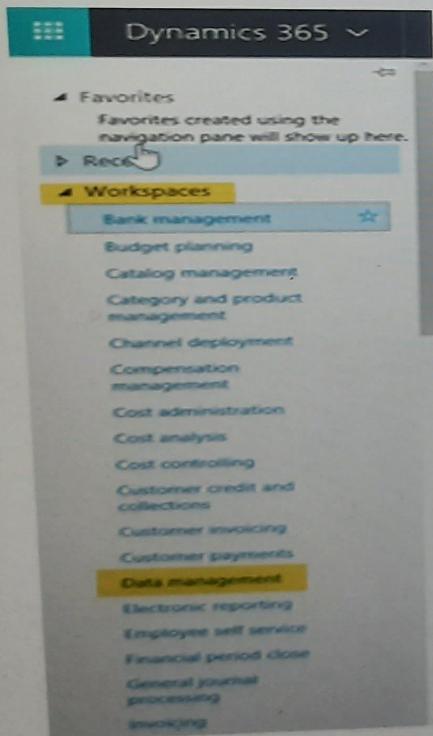
- Data migration
- Set up and copy configurations
- Integration

A **data entity** in D365 is an abstraction from the physical implementation of database tables



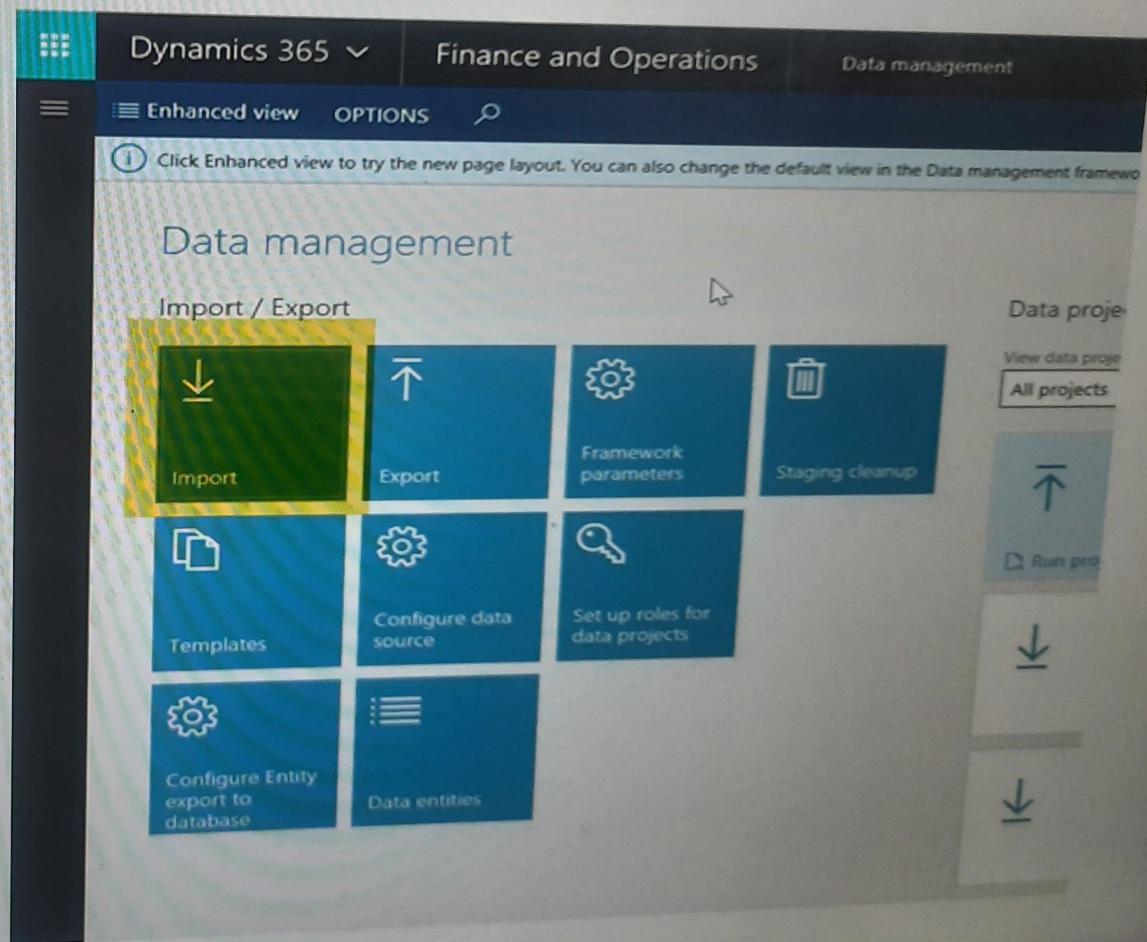
Using Data management Workspace

- To use the framework, Navigate to Data Management Workspace
- To access the list of data entities, Navigate to Data Management Workspace → Data Entities



Import Data

- Data import job is created to import data into D365 F&O
- Navigate to Data Management workspace → Import



- Name : Name of the Data import job
- Source Data Format : choose the type of import file(xml/csv/txt)
- Entity Name : Name of the data entity
- Choose upload file and click "Import"

Dynamics 365 Finance and Operations

VENDORS : VENDORS Import

JOB DETAILS

Name: Vendors

SELECTED FILES AND ENTITIES

Filter

Dynamics 365 Finance and Operations Data management

Save Import Create recurring data job Apply Template Job history Download Entity sources Application logs

Click Enhanced view to try the new page layout. You can also change the default view in the Data management framework parameters.

AX: OPERATIONS Import

JOB DETAILS

Name:

Source data format:

Entity name:

Truncate entity data: No

UPLOAD IMPORT FILES

Upload data file: Upload

Selected Files and Entities: Filter

We didn't find anything to show here.

Excel Template format

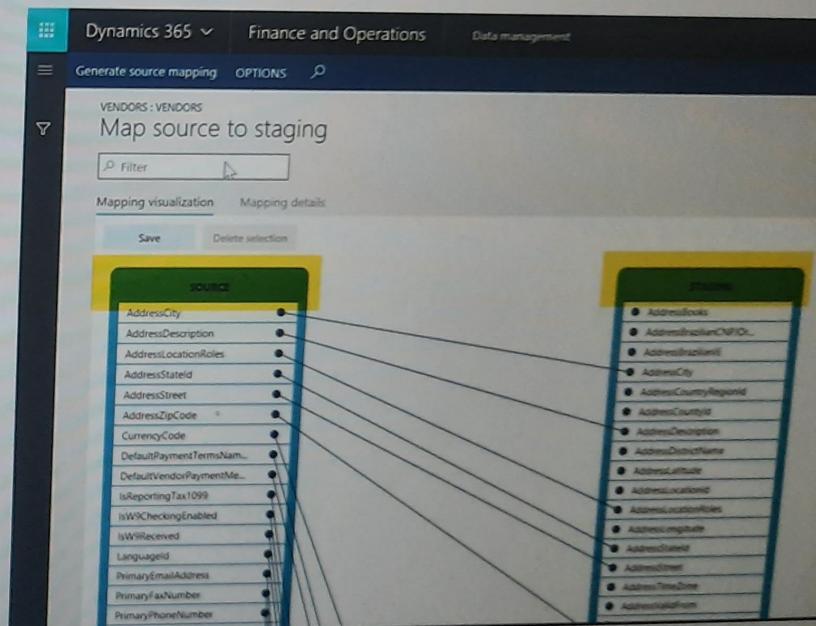
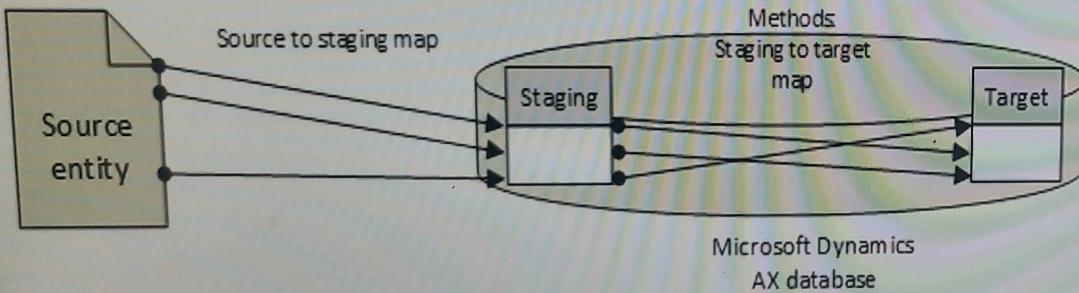
- Contain the data
- Manual trade-off (eg. Item groups)
- Based on 1711 standard data entities
 - Custom entities
 - Other tools
- Field mapping between current ERP systems and D365 for Operations
- Sequence of uploads

Rows in the file

- Matching data types (number-number, string-string, date-date, boolean-boolean...)
- Mandatory fields/empty rows
- Enumerations

Source - Staging - Target

Data Import/Export Framework architecture



Roles

Development team

- Roles:
 - Data migration cleansing, (re)structuring conform data upload templates
 - (*)Sprint delivery
 - Data conversion: Extraction and cleansing

Data conversion consultant

- Define and document data conversion plan
- Support key-users in collecting, cleaning and enriching data
- Define and test data conversion templates + discuss with the key-users
- Design, discuss and have data packages developed
- Test uploads of data packages
- Execute several data conversion iterations

Key Data elements samples

Key Data elements	Data type
Chart of accounts	Master data
Financial Dimensions	Master data
Bank accounts	Master data
Vendors & Customers	Master data
Customer Price & Discount agreements	Master data
Employees	Master data
Warehouse & Sites	Master data
Item / Product / BOM	Master data
Item / Product Cost price	Master data
Open Purchase Orders & Returns	Transactional
Open Sales Orders & Returns	Transactional
Open Transfer orders (if applicable)	Transactional
Open Production orders	Transactional
Open Customer invoices	Transactional
Open Vendor invoices	Transactional
Customer Opening	Opening
Vendor Opening	Opening
Bank Opening	Opening
GL Opening	Opening
Fixed Assets Opening	Opening
Inventory Opening (Stock on hand)	Opening

LCS and Data Packages(Sample screenshots)



Asset library

Select asset type

BPM artifact

Cortana intelligence application

Data package

Dynamics 365 for Operations database b...

Dynamics 365 for Retail SDK

GER Configuration

Localized financial report

Marketing asset

Model

Power BI report model

Process data package

Software deployable package

Solution package

Data package files

+ ✓ ⌂ IMPORT Copy SAVE TO MY LIBRARY VERSIONS

Upload Data package file

Name

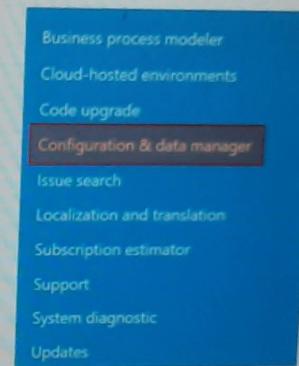
Description

Add a file

Upload a data template created in
D365fO client

Pick a Data package			
01.1.005.SYS - Address setup.zip	3 MB	Organization	
01.1.004.SYS - Address Pre-req for Legal Entities...	27 KB	Organization	
01.1.003.SYS - Address Basic setup for Legal Entit...	91 KB	Organization	
01.1.002.SYS - System Parameters.zip	9 KB	Organization	
01.1.001.SYS - CurrencySetup	37 KB	Organization	

Import a previously created (empty) data
package, modify its contents and upload
it again



Configuration & data manager

+ Add ⌂ Delete ⌂ Refresh ⌂ Apply History Add keyword

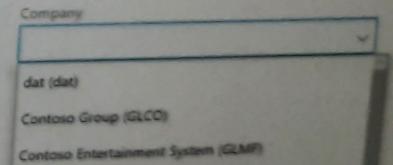
Add an existing data package

Apply Data Package

Select destination environment



Select destination company



Click on **APPLY**