

Understanding Environment

Monday, July 24, 2023 5:41 PM

MDH Model:

A model is a structure that identifies the data to be pulled from each separate data system and brought to the MDH. The Model enables record analysis, quality, and tagging functions to be applied to the identified data.

Platform Status:

Home Page: <https://status.boomi.com/> (opens in a new tab)

Stats: <https://stats.boomi.com/> (opens in a new tab)

Notifications: <https://stats.boomi.com/notifications/>

Process Shape:

- **Execute:** Manipulate or transform data
- **Logic :** control the data flow through processes
- **Connect :** Gets data into and out of the processes

Component Explorer :: Folder:

- Organize processes and components
- Use a **# sign** to place the folder at the top of the library.
- Use a **Z_** to place the folder at the bottom of the library.
- **#connections** folder is used to store all connections in one location

Process Library:

- The Process Library contains a variety of prebuilt processes. You can install a process to complete your integration or help you get started building one of your own.

Shapes:

1.Start Shape:

Different types of start shape are:

- i. Connector
- ii. Trading Partner
- iii. Data Passthrough
- iv. No Data

2. Connector Shape:

- Connector shapes get data into or send data out of the process
- They are different types of connector shape
 - i. Technology Connectors
 - ii. Application Connectors
 - iii. Custom Connector

FTP V2 Connector:

- Use the File Transfer Protocol (FTP) V2 connector to download or upload files to an FTP-enabled server.

Configuration:

○ Connector

Start Shape








The Start shape is the main shape that begins the process flow. It is automatically added to each new process and it cannot be removed.



Process Mode General

Type ☒ Connector ☐ Trading Partner ☐ Data Passthrough ☐ No Data

General Parameters

Display Name	<input type="text"/>
Connector 	<input type="text" value="FTP V2"/>
Action	<input type="text" value="QUERY"/>
Connection 	<input type="text" value="Q Boomi Training (FTP V2)"/>  
Operation 	<input type="text" value="Q Account XML Get"/>  

○ Connection

Boomi Training (FTP V2) - FTP V2 ⓘ Folder ➕ Add Description

Connection

Host ⓘ	ftp.boomi.com
Port ⓘ	21
Connection Mode ⓘ	Passive ⓘ
Connection Timeout (ms) ⓘ	
Read Timeout (ms) ⓘ	
Remote Directory ⓘ	accounts
SSL Mode ⓘ	None ⓘ
User Name ⓘ	boomtrain
Password ⓘ	<Encrypted>

Operation

The operation defines how to interact with the FTP server.

Account XML Get - FTP V2 Operation ⓘ Folder ➕ Add Description

Options	Archiving	Tracking	Caching	Import
Connector Action	QUERY			
Object				
Tracking Direction ⓘ	<input type="radio"/> Input Documents <input checked="" type="radio"/> Output Documents ⓘ			
Error Behavior	<input checked="" type="checkbox"/> Return Application Error Responses ⓘ			
Option	<input type="checkbox"/> Delete files after reading ⓘ			
Option	<input type="checkbox"/> Fail if unable to delete ⓘ			
Transfer Format ⓘ	Binary			

FTP V2 Actions:

- Create:** creates files on an FTP server or updates files if they already exist.
- Query:** Download files from FTP server
- Delete:** delete files
- GET:** retrieves single file from FTP Server
- List:** Retrieves file metadata entries from a directory on an FTP server.

FTP Connection Mode:

- Active Mode:** client establishes the command channel and the server establishes the data channel.
- Passive Mode:** both the command channel and the data channel are established by the client

Disk V2 connector

Disk v2 connector to read and write from the underlying file system of the host machine where the Atom is running. The Diskv2 connector gets files from or sends files to directories on the disk the Atom has access to.

Configuration:

Connector

Connector Shape ⓘ

Connector shapes are used to get data into and send data out of a process. Most processes have one "get" connector and one or more "send" connectors. The Connector shape uses a combination of predefined connection and operation components to establish where and how to get or send data.

General Parameters

Display Name	
Connector ⓘ	Disk v2 ⓘ
Action	CREATE ⓘ
Connection ⓘ	Work Directory ⓘ
Operation ⓘ	Write Unique ⓘ

Connection

Work Directory - Disk v2 ⓘ Folder Add Description Test Connection

Connection

Directory ⓘ work

Polling Interval ⓘ 10000

○ **Operation**

Write Unique - Disk v2 Operation ⓘ Folder Add Description Import

Options Archiving Tracking Caching

Connector Action CREATE

Object

Tracking Direction ⓘ ☒ Input Documents ☐ Output Documents

Error Behavior ☒ Return Application Error Responses ⓘ

Option ☒ Create directory if it doesn't exist ⓘ

Option ☐ Include all metadata ⓘ

Action if File Exists ⓘ Generate error

○ **Disk V2 Actions:**

- i. **Create:** The action Create generates new files if they do not already exist and returns the new ID of the inserted object.
- ii. **Delete:** The action Delete removes the file from the directory. The ID specifies the record to delete.
- iii. **Get:** The action Get retrieves objects that match the input filename ID.
- iv. **List:** The action List retrieves files within a directory
- v. **Listen:** The action Listen waits for and retrieves files from a given directory on the disk in the underlying file system.
- vi. **Query:** The action Query reads a set of files within a directory based on search criteria.

○ **Set Properties shape:** ⓘ

- i. The Disk V2 Connector requires you to provide it an **output file name**. You need the Set Properties Shape to accomplish this task.

Working With Shapes

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Shapes:

1. Start Shape:

Different types of start shape are:

- i. Connector
- ii. Trading Partner
- iii. Data Passthrough
- iv. No Data

2. Connector Shape:

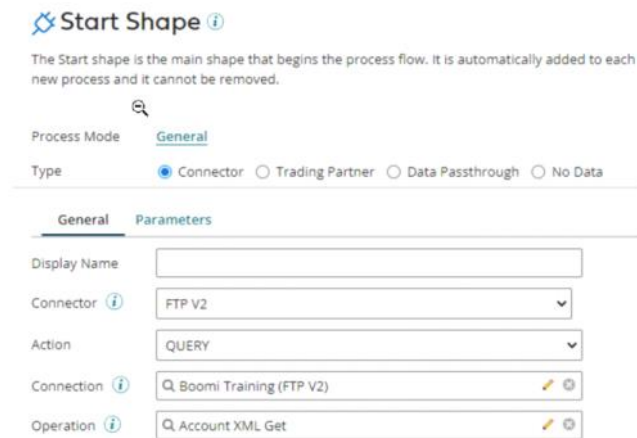
- Connector shapes get data into or send data out of the process
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Configuration:

○ Connector



Start Shape ⓘ

The Start shape is the main shape that begins the process flow. It is automatically added to each new process and it cannot be removed.

Process Mode: General

Type: ☒ Connector ☐ Trading Partner ☐ Data Passthrough ☐ No Data

○ **General** Parameters

Display Name:

Connector ⓘ:

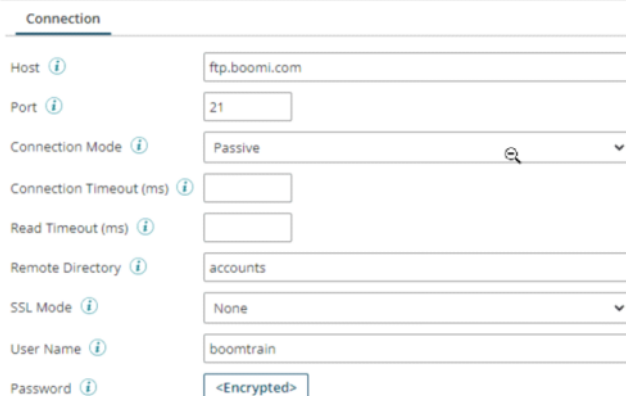
Action:

Connection ⓘ: ⓘ ⚙️

Operation ⓘ: ⓘ ⚙️

○ Connection

Boomi Training (FTP V2) - FTP V2 ⓘ Folder Add Description



Connection

Host ⓘ:

Port ⓘ:

Connection Mode ⓘ: ⓘ

Connection Timeout (ms) ⓘ:

Read Timeout (ms) ⓘ:

Remote Directory ⓘ:

SSL Mode ⓘ:

User Name ⓘ:

Password ⓘ:

○ Operation

The operation defines how to interact with the FTP server.

Account XML Get - FTP V2 Operation

Options Archiving Tracking Caching

Connector Action: QUERY

Object: Tracking Direction

Error Behavior: ☒ Return Application Error Responses

Option: ☐ Delete files after reading

Option: ☐ Fail if unable to delete

Transfer Format: Binary

FTP V2 Actions:

- i. **Create:** creates files on an FTP server or updates files if they already exist.
- ii. **Query:** Download files from FTP server
- iii. **Delete:** delete files
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Connector Shape

Connector shapes are used to get data into and send data out of a process. Most processes have one "get" connector and one or more "send" connectors. The Connector shape uses a combination of predefined connection and operation components to establish where and how to get or send data.

General Parameters

Display Name:

Connector : Disk v2

Action: CREATE

Connection :

Operation :

Connection

Work Directory - Disk v2

Connection

Directory :

Polling Interval :

Operation

Write Unique - Disk v2 Operation

Options Archiving Tracking Caching

Connector Action: CREATE

Object: Tracking Direction

Error Behavior: ☒ Return Application Error Responses

Option: ☒ Create directory if it doesn't exist

Option: ☐ Include all metadata

Action if File Exists :


- **Disk V2 Actions:**
 - i. **Create:** The action Create generates new files if they do not already exist and returns the new ID of the inserted object.
 - ii. **Delete:** The action Delete removes the file from the directory. The ID specifies the record to delete.
 - iii. **Get:** The action Get retrieves objects that match the input filename ID.
 - iv. **List:** The action List retrieves files within a directory
 - v. **Listen:** The action Listen waits for and retrieves files from a given directory on the disk in the underlying file system.
 - vi. **Query:** The action Query reads a set of files within a directory based on search criteria.
- **Set Properties shape:**
 - i. The Disk V2 Connector requires you to provide it an **output file name**. You need the Set Properties Shape to accomplish this task.

Running A Process In Test Environment


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Test Mode:

Test mode allows you to quickly test processes from the Build page without deploying the process to an Atom.

 Test Mode supports connector retrieval of **100 Maximum Document Count** or **10 MB Total Data Size**.

Screen clipping taken: 7/25/2023 3:40 PM

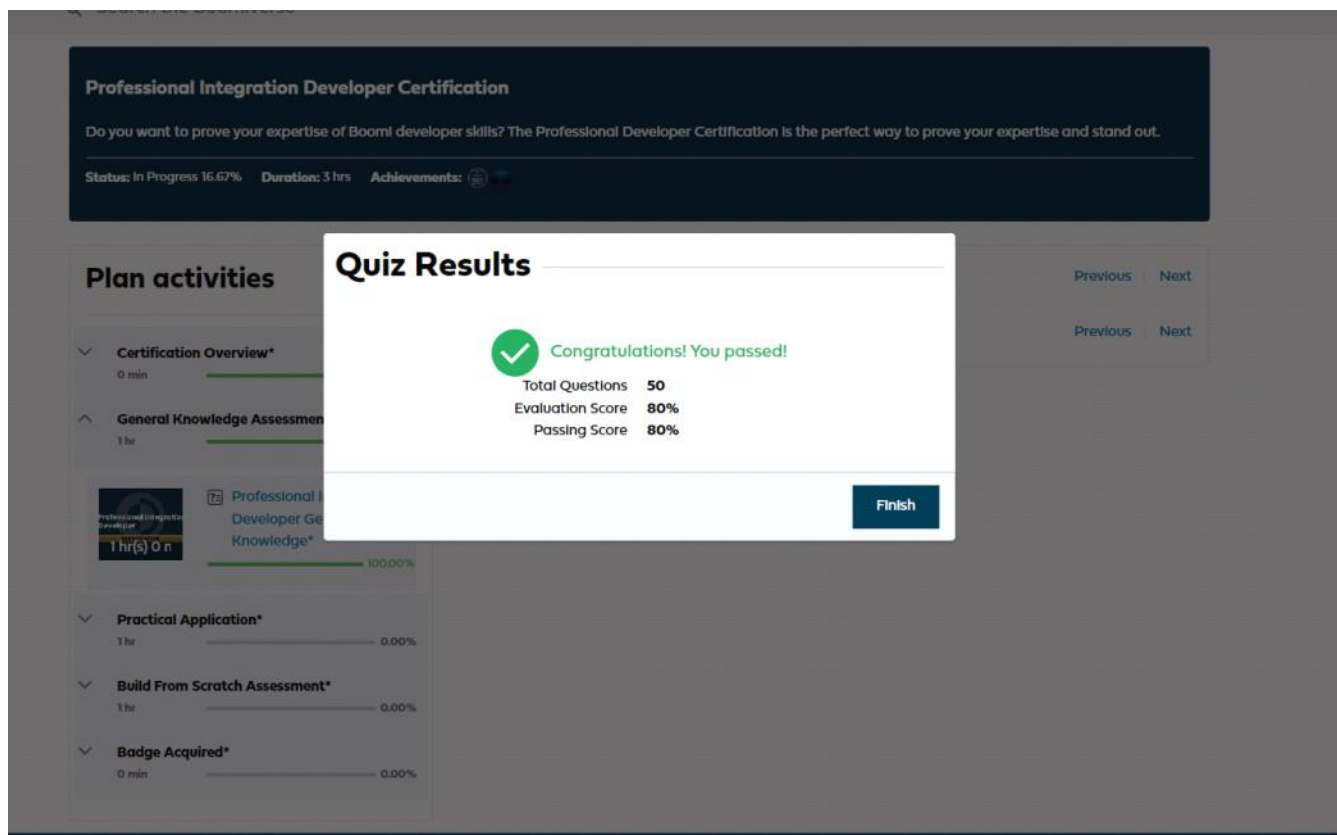
 Your process failed due to test mode data limits. Press Retry to retry just the documents on the start shape.

AtomSphere produces this error message if you exceed test mode data limits. A large process can produce an error.

Retry


Cancel

Screen clipping taken: 7/25/2023 3:41 PM



The screenshot shows a certification interface for the 'Professional Integration Developer Certification'. The main header includes the title and a motivational message: 'Do you want to prove your expertise of Boomi developer skills? The Professional Developer Certification is the perfect way to prove your expertise and stand out.' Below this, the status is 'In Progress 16.67%', duration is '3 hrs', and achievements are shown with icons. A 'Plan activities' section on the left lists various tasks with progress bars: 'Certification Overview*' (0 min), 'General Knowledge Assessment' (1 hr), 'Professional Integration Developer General Knowledge*' (1 hr(s) 0 min, 100.00%), 'Practical Application*' (1 hr, 0.00%), 'Build From Scratch Assessment*' (1 hr, 0.00%), and 'Badge Acquired*' (0 min, 0.00%). A large 'Quiz Results' modal is centered, displaying a green checkmark and the message 'Congratulations! You passed!'. It also shows 'Total Questions: 50', 'Evaluation Score: 80%', and 'Passing Score: 80%'. A 'Finish' button is at the bottom right of the modal. Navigation links for 'Previous' and 'Next' are visible on the right side of the interface.

Plan activities

- ✓ **Certification Overview***
0 min 100.00%
- ✓ **General Knowledge Assessment***
1 hr
- ^ **Practical Application***
1 hr
-  Professional Integrated Developer
Exam Setup*
1 hr(s) 0 min
- ✓ **Build From Scratch Assessment***
1 hr 0.00%
- ✓ **Badge Acquired***
0 min 0.00%

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[Previous](#) [Next](#)

[Back to Learning Plan](#)

[Previous](#) [Next](#)

Quiz Results



Congratulations! You passed!

Total Questions **25**
Evaluation Score **80%**
Passing Score **80%**

Finish

Defining Documents And Understanding Flow

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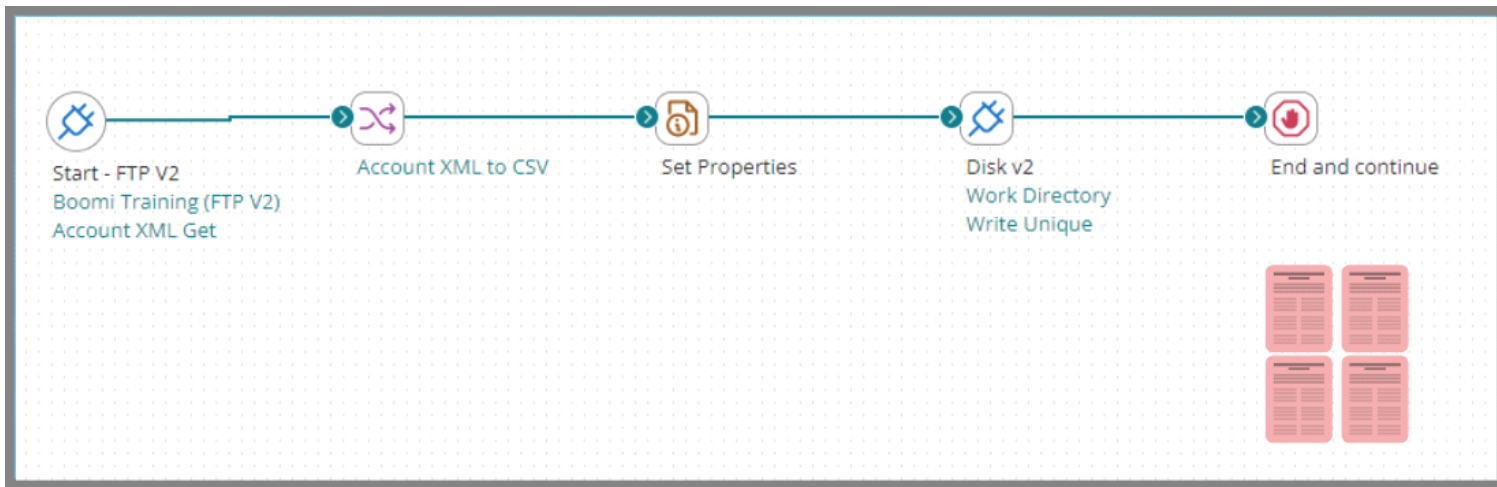
Document:

► A document is a set of data that flows through the Boomi process. It can be a single record, a group of records, or an entire file.

► Document Types Supported By AtomSphere:

- XML
- JSON
- FLAT FILE (CSV,SSV..etc)
- DATABASE (Oracle,MSQL..etc)

Example Process Flow:



Screen clipping taken: 7/25/2023 4:06 PM

Working With Profiles

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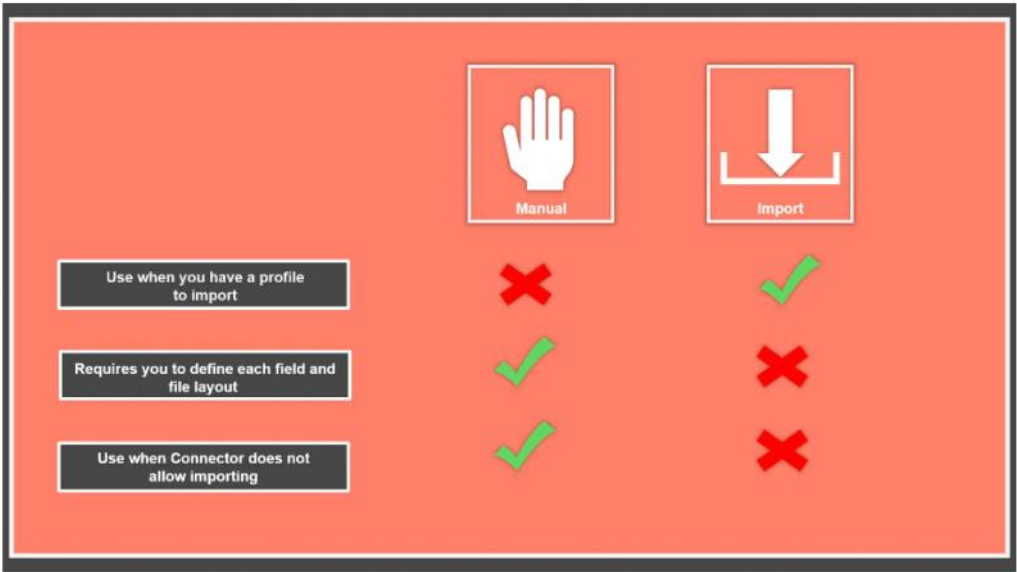
Profiles

- Profiles describe the layout or format of documents read into or sent out of processes
 - **Profile Types:**

Name	Description
Filter	Filter
Database	Database profiles can be Read and Write. A Read database profile can execute SELECT statements or stored procedures against a target database. A Write database profile can execute an INSERT, UPDATE, DELETE or stored procedure against a database.
EDI	An EDI profile describes a delimited or positional file that meets ASC X12, HL7, EDIFACT, TRADACOMS, ODETTE, or User Defined standards.
Flat File	A flat file profile describes a file that contains either delimited or positional data. An example of a flat file is a comma separated (CSV) file.
XML	An XML profile describes a file that meets the W3C Standard for eXtensible Markup Language .
JSON	A JSON (JavaScript Object Notation) profile describes a file that represents simple data structures and associative arrays. JSON files are based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999 .

- **Ways to Create Profiles**
 - Manual
 - Import a File or Schema
 - Import the Connection Operation

Reasons you might use Manual or Import



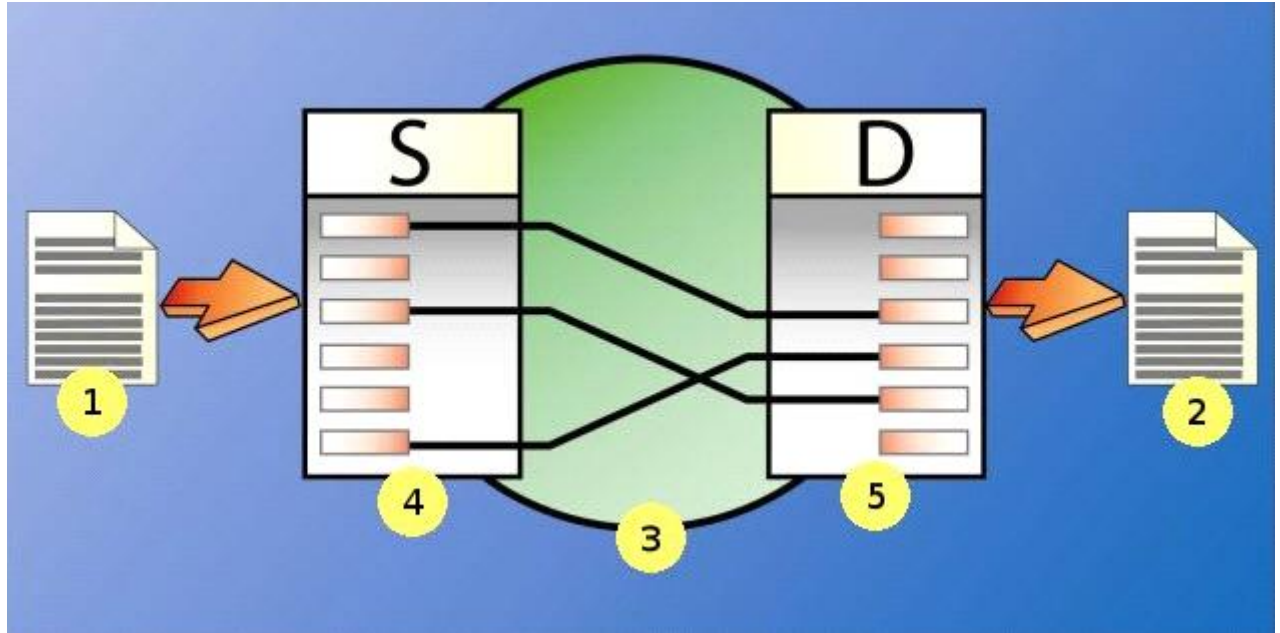
Understanding The Map Shape

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Map Component:

- Use maps to convert data from one layout or format to another.



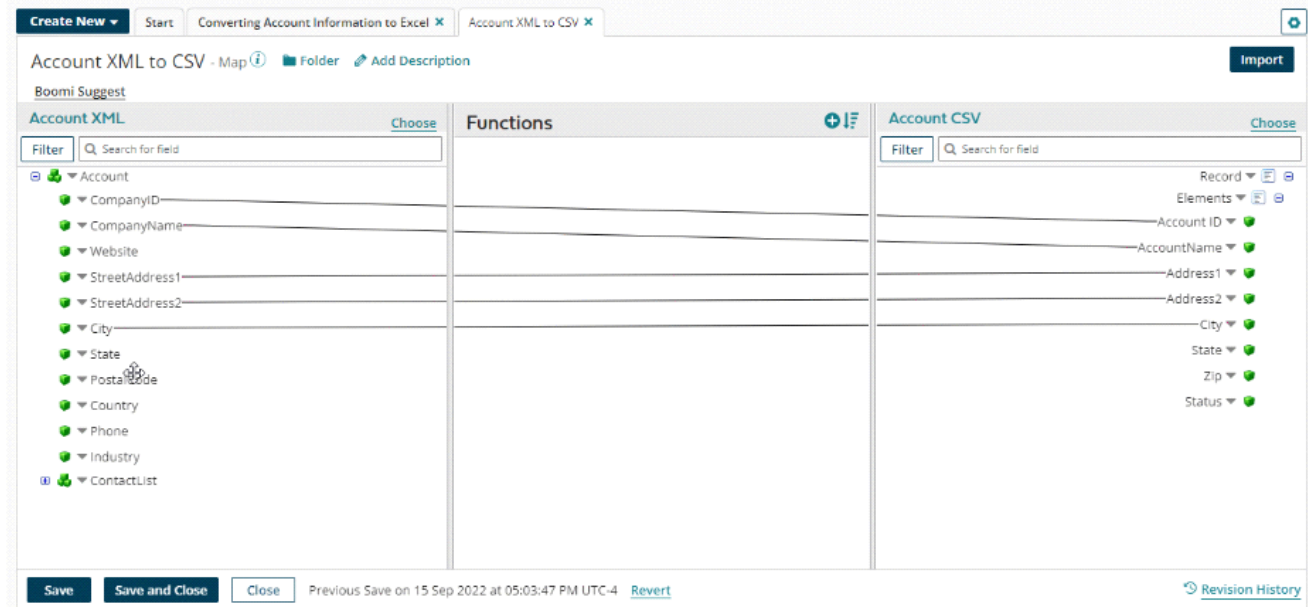
- **There are two ways to set up profiles in a Map shape.**
 - Import From Existing Profile
 - Manually

Mapping

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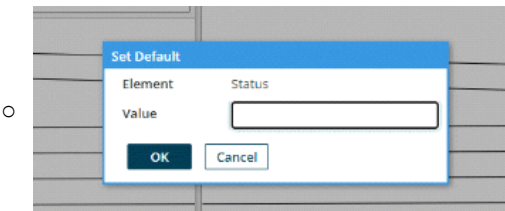
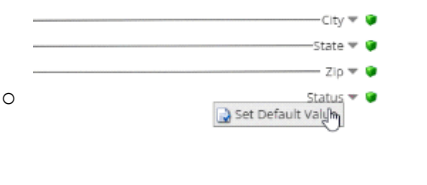
Mapping:

- Mapping shows how elements in the source profile correspond with those in the destination profile.



Default Value:

- AtomSphere assigns a default value to a destination Profile element when no value exists in the source profile.
- Default value used when source value is **NULL or Blank** and also if their is **no source value** to the corresponding destination value



Understanding Deployment

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Deployment

- Deployment is how you prepare your processes and deployable components to run and operate in a Test or Production Environment.

Deployment Workflow



Why deploy a process?

- Controls specific versions
- Manages versioning
- Isolates the process version
- Complete audit history

Packaged Components

- When you create a packaged component or process, you take a snapshot of its development on the build tab. You typically do this when you are done building and are ready to deploy to your Environment.

Understanding Process Reporting

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Process Reporting:

- Process Reporting is important because it allows you to search for information about process executions and their related documents.

Process Reporting Uses:

- Shows executed processes
- Manually execute a process
- Filters process executions

Understanding undeploying

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Undeploying:

- Undeploying is when you remove a packaged component from the list of active deployments.

Reasons to Undeploy:

- **Process no longer needed**
When you have a process that no longer needs to run a deployed environment, you can undeploy it.
- **Regain Licenses**
When you undeploy a process, you will regain the connection licenses.