

Predator - Reference Data Configuration

Reference file loading is performed by the Predator Service.

This service is responsible for the feeding of reference information (that belongs to business entities such as accounts, merchants, customers, credit cards, or any other type of list), and storing the information as presented in the file in the relevant reference tables.

Feeder Configuration

Feeders Configuration Section:

In this section, different feeders should be defined with their related configurations. These parameters can be found in the Control Panel page under the Feeder tab.

Parameter: Active

Properties	Comment/Value
Description	This parameter indicates that the processing is Active or not. This enables the user to disable/enable a Feeder-Role combination without having to remove it from the file.
Expected Values	Text (True/False)
Defaults To	None

Extended Configuration Section:

Parameter: Input Path

Properties	Comment/Value
Description	This parameter indicates the folder to search for an input file.
Expected Values	Text
Defaults To	None

Parameter: Backup Path

Properties	Comment/Value
Description	This parameter indicates the folder in which the system would backup a processed file.
Expected Values	Text
Defaults To	None

Parameter: Error Path

Properties	Comment/Value
Description	This parameter indicates the folder in which the system will store input files which fail to be fed.
Expected Values	Text
Defaults To	None

Parameter: Field Delimiter

Properties	Comment/Value
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Description	This parameter indicates the field delimiter for text files.
Expected Values	Text
Defaults To	" "

Parameter: Allow Duplicate Files

Properties	Comment/Value
Description	This parameter indicates whether the reference feed allows duplicate input files based on the file name.
Expected Values	Text
Defaults To	True

Parameter: Encoding Code Page

Properties	Comment/Value
Description	This parameter indicates the encoding code page of the input file.
Expected Values	Text
Defaults To	None

Parameter: Encryption Enabled

Properties	Comment/Value
Description	This parameter indicates the Predator Loading Service should expect encrypted input files for reference table loads.
Expected Values	Text (True/False)
Defaults To	False

Parameter: Encryption Type

Properties	Comment/Value
Description	This parameter will indicate the crypto algorithm used to decrypt input files. Each type will map to an implementation of an algorithm provided by the Predator Loading Service. The "Custom" type enables a custom algorithm to be plugged in.
Expected Values	Text Case Sensitive. Possible values: "RSA" or "Custom"
Defaults To	None

Parameter: Retry Wait

Properties	Comment/Value
Description	This parameter indicates the amount of time, in milliseconds, that the service will wait before retrying to feed an input file after failing to feed.
Expected Values	Number
Defaults To	2000

Parameter: Retry Attempts

Properties	Comment/Value
Description	This parameter indicates the number of retries, that the service will attempt before moving the input file to the error path.
Expected Values	Number
Defaults To	5

Parameter: Feed Checks

Properties	Comment/Value
Description	This parameter indicates the number of checks on the input file queue, without finding an input file to be fed, the service will make before sleeping.
Expected Values	Number
Defaults To	5

Parameter: Feed Wait

Properties	Comment/Value
Description	This parameter indicates the amount of time, in milliseconds, the service will wait after checking the input file queue and not finding anything to be fed.
Expected Values	Number
Defaults To	2000

Parameter: Sleep Wait

Properties	Comment/Value
Description	This parameter indicates the amount of time, in milliseconds, the service will wait whilst sleeping.
Expected Values	Number
Defaults To	60000

Other Parameters are ignored for "Reference Table Loading".

Logging Configuration

The Logging configuration can be found within the Control Panel page under the Logging tab within the Predator Web Client.

Parameter: Severity Threshold

Properties	Comment/Value
Description	This parameter indicates the severity level for logging in a Predator component.
Defaults To	Error

Reference table data loading procedure

Data on reference tables can be loaded using Predator Service using the configurations mentioned in previous sections. By default, reference data loading is performed as a full replacement. That means, all the data in a reference table will be overwritten with new data being fed. The

reference data tends to be really huge with thousands of rows and it is not always desirable to do a full replacement of data. Therefore the Predator Service allows data to be fed into reference tables in two modes:

- Full replacement
- Differential update (Delta update)

Full replacement

Full data table is overwritten with the new data being fed. This is the default behaviour and does not require any configuration changes.

```
{reference Id}{file identifier}.{extension name}  
e.g. R01_23595901012017.txt
```

Differential updates

New data being fed will be merged with existing data depending on a unique identifier (reference key / primary key). This has to be defined directly in the Predator database. Firstly we need to identify a field in the reference data table which is capable of uniquely identifying every record in the table. Common examples can be 'staff_id' in the Staff table, 'Client_id' in the Clients table, etc. Once we have identified this field, we need to update Predator_Dictionary_Tables and Predator_Dictionary_Fields. Let's do this using an example:

Reference table name: Clients

Unique field: Client_Id

1. Get the table ID for reference table Clients

```
SELECT Table_Id FROM Predator_Dictionary_Tables  
WHERE Display_Name = 'Clients' AND Table_Type = 'Reference'
```

2. From Result 1 (e.g Table ID = 5), Set Record_Identifier = "Client_Id" in Predator_Dictionary_Tables for the reference table.

```
UPDATE Predator_Dictionary_Tables  
SET Record_Identifier = 'Client_ID'  
WHERE Table_Id = 5
```

3. Set Unique field = True for Client_ID field in Predator_Dictionary_Fields where Table ID = reference table.

```
UPDATE Predator_Dictionary_Fields  
SET Is_Reference_Id = 1  
WHERE Column_Name = 'Client_ID' AND Table_Id = 5
```

4. Once these changes are done in the database, we are ready for delta update. To be able to feed data files for delta update, the file name should have the word "update" as part of the file name.

```
{reference Id}update{file identifier}.{extension name}  
e.g. R01_update_23595901012017.txt
```