OLE Batch Process Profile Technical Documentation

Purpose

Batch Process Profiles allows us to make multiple templates of different batch process types with different customizations on how to handle parts of the incoming data and use them while doing Batch Processes. These profiles are also reusable.

Components/Sub-modules and packaging

Batch Process profiles can be used to define templates to help ingest the following data
- Order Records
- Invoice
- Patron
- Bib Records
- Location
- Claim Reports
- Serial Records

In addition, it can also be used to delete and export Bib Records.

The Batch Process Profiles comprises of many components which together make the profile. These may include but not limited to Match Point, Protected Field, Bib Status, Data Mapping, Filter, Protected Field, Delete Field, Rename Field and Constant. The combination of components that comprises Profiles varies according to the different Batch Process Types.

Dependencies (db tables)

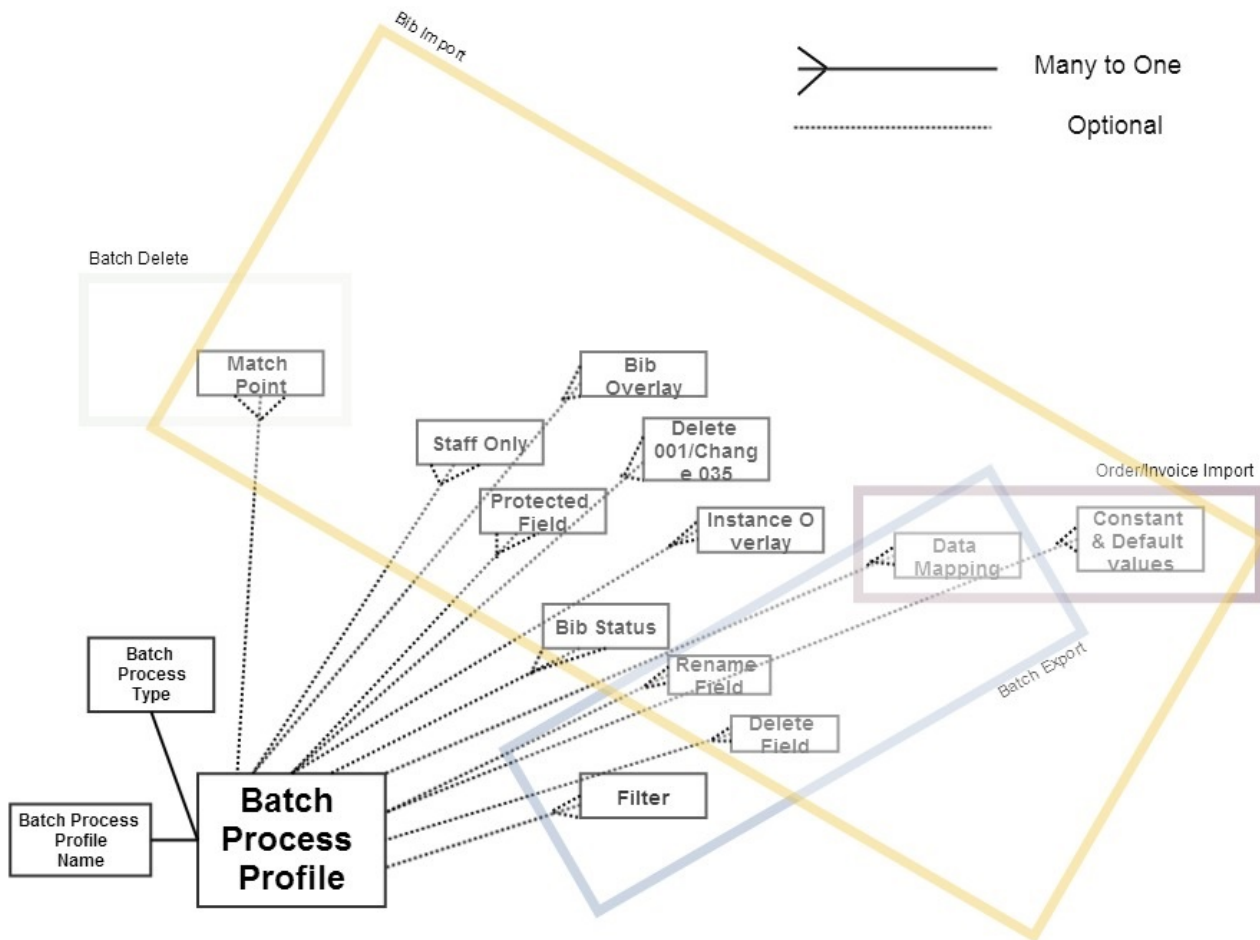Tables used in Batch Process Profile creation

ole_bat_prcs_typ_t	Batch Process Type

Tables where Batch Process Profile Id is used/referenced

ole_bat_bib_mtch_pnt_t	Batch Process Bib Match Point
ole_bat_bib_wrk_unt_t	Batch Process Bib Work Unit
ole_bat_glbly_prct_fld_t	Batch Process Globally Protected Field
ole_bat_inst_mtch_pnt_t	Batch Process Instance Match Point
ole_bat_inst_wrk_unt_t	Batch Process Instance Work Unit
ole_bat_prcs_bib_stus_t	Batch Process Bib Status
ole_bat_prcs_dt_map_t	Batch Process Data Mapping
ole_bat_prcs_filter_t	Batch Process Filter

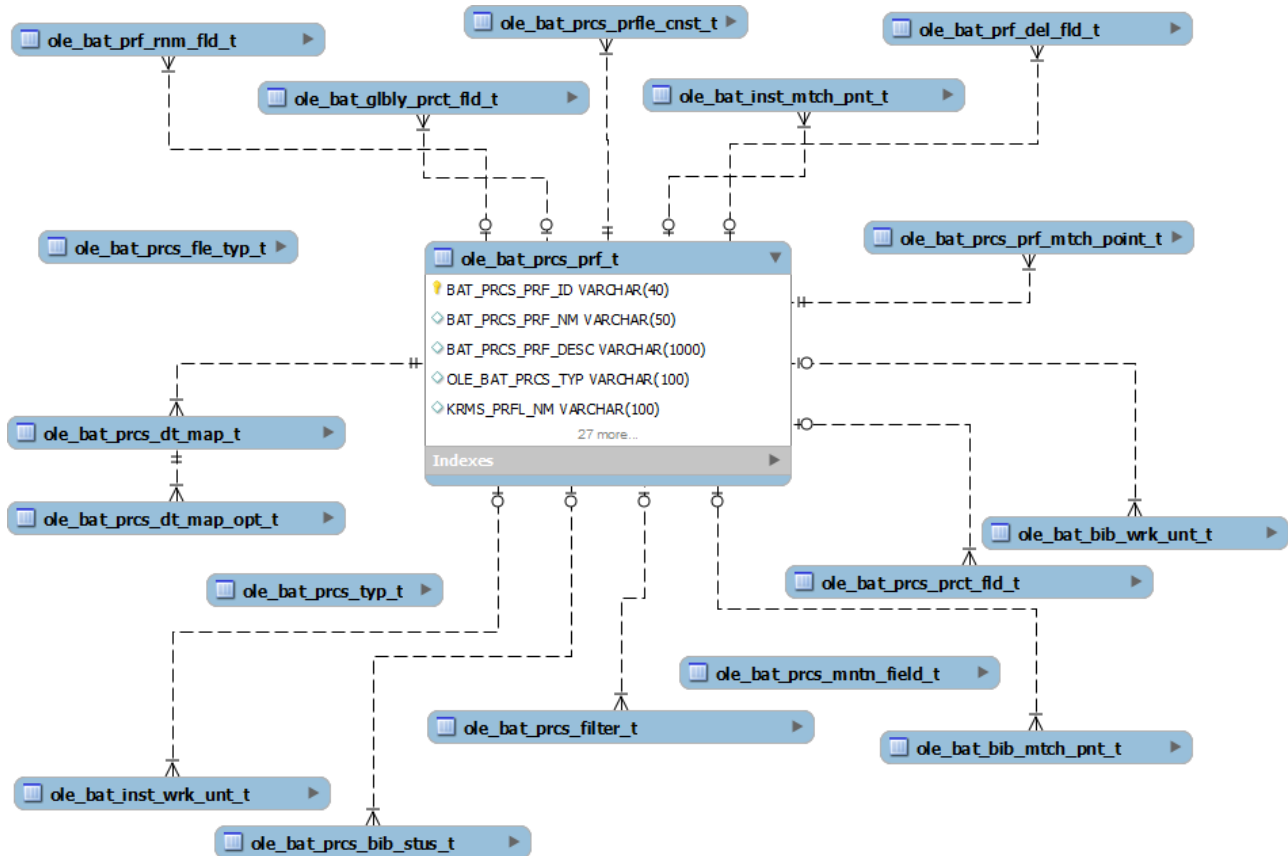| ole_bat_prcs_prct_fld_t	Batch Process Protected Field
ole_bat_prcs_prf_mtch_point_t	Batch Process Profile Match Point
ole_bat_prcs_prfle_cnst_t	Batch Process Profile Constant
ole_bat_prcs_t	Batch Process
ole_bat_prf_del_fld_t	Batch Process Profile Delete Field
ole_bat_prf_rnm_fld_t	Batch Process Profile Rename Field
ole_pur_po_load_sum_t	Purchase Order Load

Logical Data Model (Class Structure)

Depending on the Batch Process Type, various different Batch Process Profile data are needed. In case of Batch Delete only Match Point data, which is used to match data from the incoming file with the Bib records in the database, is enough. While Bib import has a lot of options to take care such as overlays, deletions, protection, renaming, bib status after import, etc. and hence has the most number of inputs required. For order import and invoice import, Data Mapping and Constant/Default Values are enough. And for Batch Export, Filter, Delete Field, Rename Field and Data Mapping are needed. Other Batch Processes such as Patron Import, Location Import, Claim Report and Serial Record Import no extra data other than the Main Section is needed to create a Batch Process
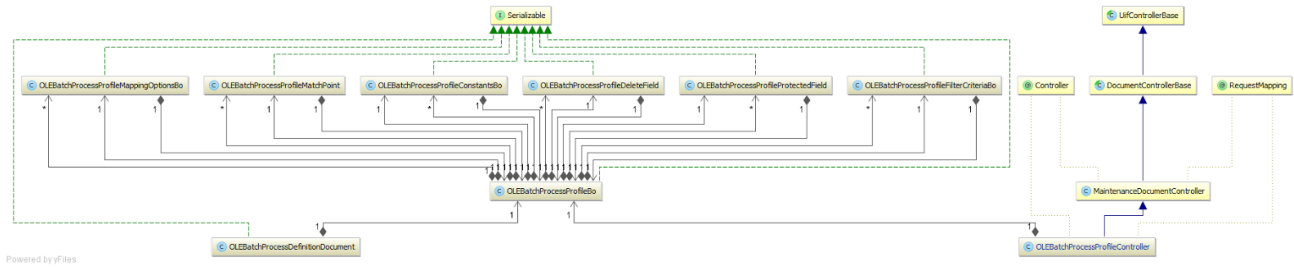
Profile.

Physical Data Model (Database Schema)

The Batch Process Profile comprises of many components such as Rename Field (*ole_bat_prf_rnm_fld_t*), Constants (*ole_bat_prcs_prfle_cnst_t*), Delete Field (*ile_bat_prf_del_fld_t*), Globally Protected Field (*ole_bat_glbly_prct_fld_t*), Instance Match Point (*ole_bat_inst_mtch_pnt_t*), Profile Match Point (*ole_bat_prcs_prf_mtch_point_t*), Filter (*ole_bat_prcs_filter_t*), etc. These data are captured by the various different tables referenced by the Batch Process Profile Id (*BAT_PRCS_PRF_ID* from *ole_bat_prcs_prf_t* table).

Service Interface Design (Java)

Maintenance Documents are used for creating and maintaining data elements in rice. The class *OLEBatchProcessProfileController.java* extends the *MaintenanceDocumentController* of Rice and overrides and adds the necessary methods.

For more information, Javadocs can be found here.

Service Interface Design (SOAP/REST)

No Web services are available currently.

User Interface Design

The Batch Process Profile document uses KRAD's UIF (User Interface Framework). A very good guide on the framework can be found here. The Spring Beans XML used in the case of Batch Process Profile is the *OLEBatchProcessProfileDocument.xml* under the *datadictionary* folder.

Data Importing

It is currently not possible to import a Batch Process Profile directly into OLE.

Data Exporting (if applicable)

OLE uses a RDBMS backend and hence any data can be exported using simple SQL queries. Currently there is no way to directly export a Batch Process Profile directly from OLE.

Workflow

Batch Process Profile document doesn't have any workflow defined by default. However, if needed it can be defined at *OleBatchDocType.xml* file.

System Parameters

Namespace Code	Parameter Name	Description
OLE-SYS	SERIAL_HISTORY_CSV_NAME	The name of the CSV file ingested for serial history document name should

		end with the value specified in this parameter.
OLE-SYS	SERIAL_RECORD_CSV_NAME	The name of the CSV file ingested for serial record document name should end with the value specified in this parameter.
OLE-SYS	SERIAL_RECORD_DATE_FORMAT	The format of the date for serial record should match with value specified in this parameter.
OLE-SYS	SERIAL_TYPE_CSV_NAME	The name of the CSV file ingested for serial type document should end with the value specified in this parameter.

Roles and Permissions

Permissions are linked to roles which are in turn linked to Users to give them access to screens and functions.

Permission ID	Permission Name
OLE10295	Initiate Batch Process Profile
OLE10296	Edit Batch Process Profile

Role ID	Role Name	Permissions
OLE10077	Cataloging Super User	OLE10295, OLE10296
OLE10078	Cataloger Supervisor	OLE10295, OLE10296
OLE10079	Cataloger 1	OLE10295, OLE10296
OLE10080	Cataloger 2	OLE10295, OLE10296
OLE10081	Temporary (Student) Staff Cataloger 1	OLE10295, OLE10296
OLE10082	Full Cataloging	OLE10295, OLE10296
OLE10083	Batch Cataloging	OLE10295, OLE10296