

Notes

'pathmap.xml' and 'configuration.xml' are located in the application folder and cannot be moved. 'configuration.xml' contains the configuration object which holds directory paths by purview area, database connection strings, and other semi-static application parameters.

'pathmap.xml' holds a serialized list of DataFileMap objects. Each DataFileMap object maps to exactly one XML datafile. Each datafile represents a homogeneous list of data objects. When the datafile is updated, the current file will be overwritten by default unless specified by the user. Frozen files are moved to the "archived" folder. Therefore, the number of datafiles in the main folder will always correspond with the number of data objects that are being cached for use.

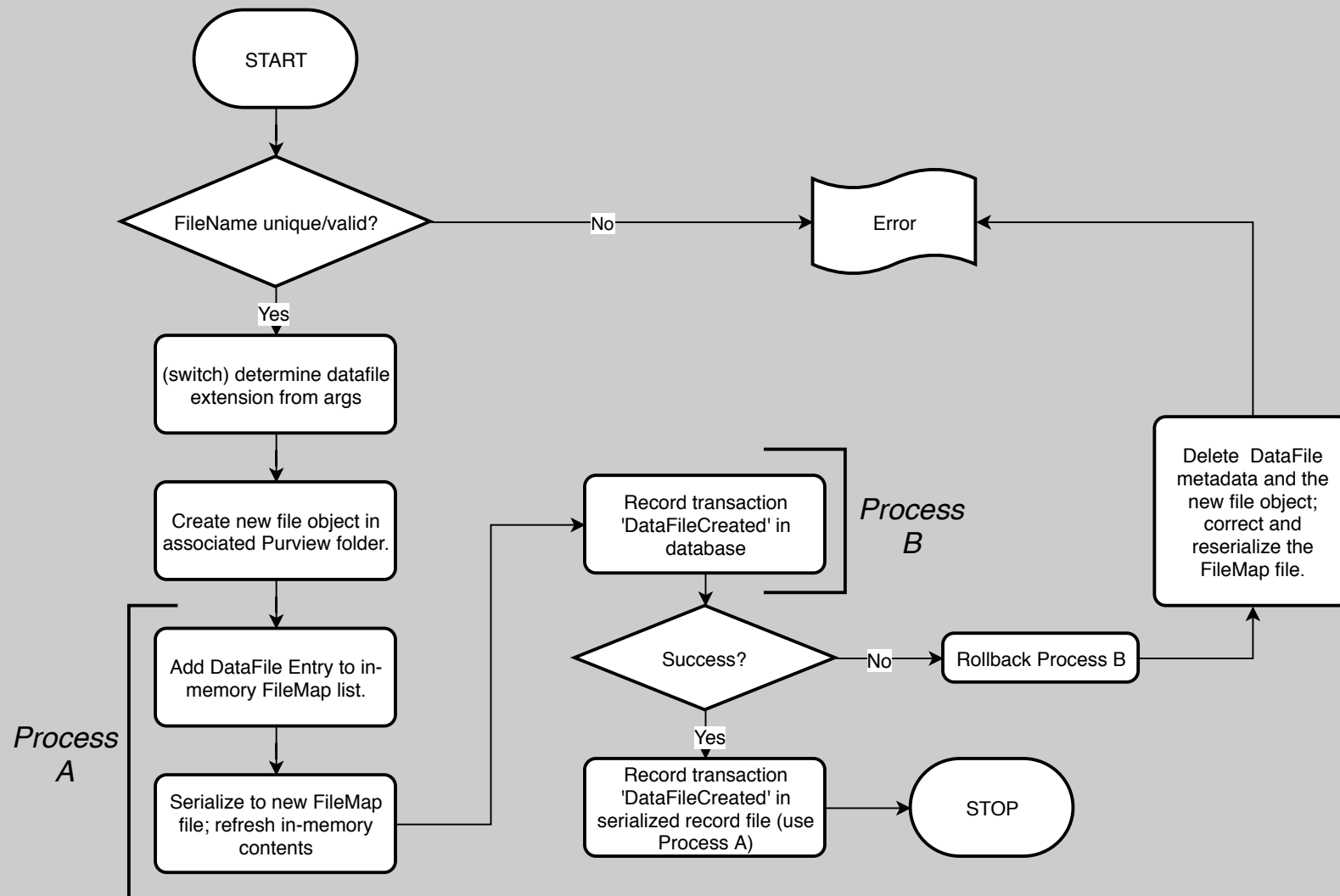
Registration

Every data file must be registered with the External Cache Manager (ECM) in order to be included in the data backup. The responsibility of registering the file is always on the calling application (in this case, the 'grabber' utility). When a file is successfully registered, its metadata will be stored as a 'DataFile' entry in the ECM's 'filemap.xml' file, where it can subsequently be referenced by any caller.

PRECONDITIONS:

1. Purview and purview location are defined.

INPUTS: (Purview type, SOM type, string FileName, FileType type)

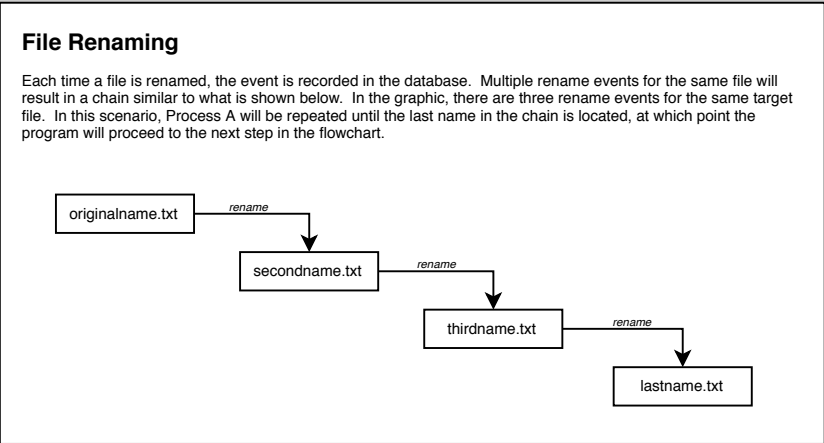
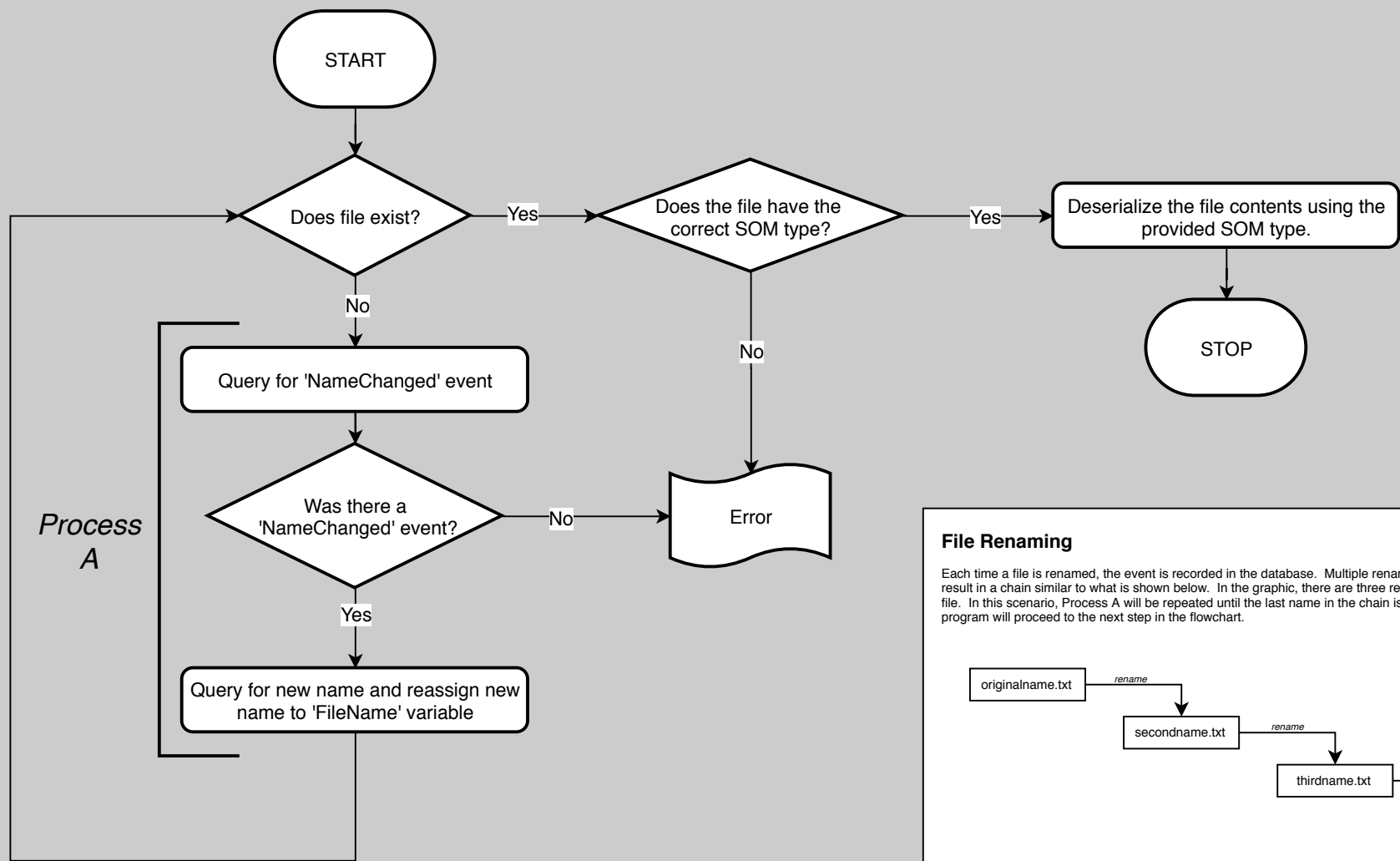


Retrieval

Applications locate resource files through the ECM. The FileName and Serialized Object Model (SOM) type must be provided by the application; the first is for locating the specific resource and the second is used to validate the file contents. The ECM allows renaming of the resource files, but only through the admin utility - the application does not need to know about rename operations (they will be resolved as outlined below). In the future, each application will store resource filenames in its own external data file and will auto-update the filenames when a change has been detected. For expedience, this feature has not been implemented. Resource filenames are currently hard-coded in the application. However, since rename operations are always resolved by the ECM, the hard-coded names will never NEED to be changed; they can be considered seed values.

PRECONDITIONS: None

INPUTS: (string FileName, SOMType type)



Rename File

Resource files can be renamed, but only by admin-level utilities. In order for applications to locate a file that has been renamed, the rename event is recorded in the database. When applications attempt to retrieve a file, the name change events provide a path for locating the original target file (see the inset graphic in the section on "Retrieval").

PRECONDITIONS: None

INPUTS: (string targetFileName, string newFileName)

