

2218 - QESTMIX PRODUCT ARCHIVE (D164)

Technical Specification for Archival of Products in QESTMix

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1. Business Requirements

1.1 Overview

Currently, products that are removed from the QESTMix system cannot be managed/viewed. This spec covers the introduction of a "Product Archive" for products that are currently not being used at a particular plant.

2. Functional Requirements

2.1 Overview

Currently, we retain the history for products that are updated, however, this information is no longer available when the product becomes completely inactive. Normally, a product becomes

inactive when the design-product relation is un-mapped, or when the design-product relation is deleted. The change becomes permanent when the Create and Update process is run.

We will need to change the create and update process to flag these products rather than deleting them, so that they can later be retrieved through a Product Archive.

2.2 Changes to Core Components

Product objects need to be expanded to support archival. This will involve the introduction of a new flag that will be populated when the product becomes inactive. When a product is introduced, a check needs to be made to determine whether the product existed previously (and is now archived). If so, then the archived product needs to be made active, and updated to the new version.

2.3 Changes ILOC data import (QDI)

The delete flag will be included in the ILOC data import (Austiloc.in). It will begin at position 17, and is 1 character long, as shown in the example below.

```
VOAK10G      5492D      17.11 KG      1
QS25H5S5W    5180      100.00      1
```

Figure 1: Example of data from Austiloc.in

When the QDI processes a delete record ("D"), it will delete that design product relation record from the database.

The effect of this will be:

1. The design-product relation will no longer show up in the Design-Product Relations area
2. The next time the Create & Update Products process is run, the Product will be removed from Current Products & History. It will be available (for viewing) as an archived product in the new Archived Products & History section of QESTMix.

2.4 Design Product Relations

There will not need to be any changes to the existing design-product relations. To archive a product, the user can do one of two things:

1. Clear the mapping. The fields that should be cleared are: Design Group Code, Design Code and Level (Cementitious Level). This will result in the product being moved into the product archive. It may then be re-activated by re-mapping the product in the design-product relations area.
2. Delete the design-product relation. This will also archive the product. Reactivation will require that the design-product relation is recreated, and then mapped to a design. Creation of the design-product relation can either be via the ILOC import, or manual (via Design Product Relations). Mapping the design needs to be done via the Design Product Relations area.

The Create / Update Products process needs to be run before either of the above is committed.

2.5 New section in QESTMix tree

A new top-level node will be added to the QESTMix tree called "Archived Products & History". It will have a similar structure to the existing "Current Products & History" section (see below). This area will contain all "inactive" products, regardless of whether a design-product relation object still exists (as described in section 2.4).

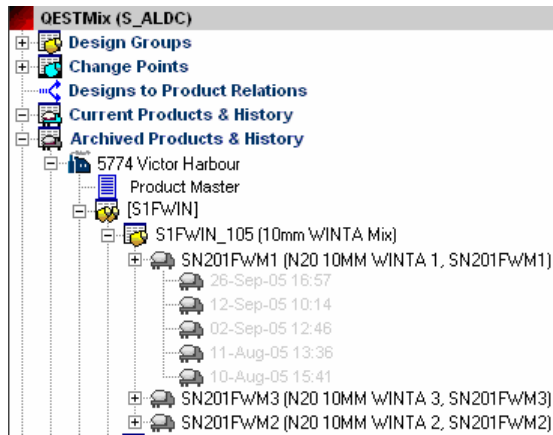


Figure 2: New 'Archived Products' section in QESTMix tree

The archived product can be expanded to display previous versions of each product. These will be labeled with the time and date that the product was updated (as in the Current Products & History area).

The archived products in the QESTMix tree will use the same screen to display information as the historical items in the Current Products & History area. There is no intention for there to be any differences in behavior between historical products and the product archive.

2.6 Product Master Report

The Product Master report needs to be changed to be able to include archived products. This will be achieved through the use of appropriate filtering.

The Product Master node under each plant in the Archived Products & History node will show all archived products for that plant. This is similar to the Product Master nodes under Current Products & History, which show all active products for that plant.

More versatile filtering will be available in the Reports section (a full description of the filtering available is outside of the scope of this specification).

3. Assumptions and Additional Constraints

n/a