



Engineering Routings Enhancements for V4.4

1. Engineering Routings Overview

This new module will allow users to develop routings without having to modify the production routes until the new route has been finalised (similar to Engineering BOMS). Each Engineering Routing will also have an Issue Number to allow for a number of different routes per item/version number. The Engineering Routings will be held separately from the production routes. The user will have the ability to archive the different issues of each engineering route.

A 'set up' program will be provided to copy the production route (or routes) to the Engineering Routing system. Once in the system a new set of maintenance, enquiries and reports will be provided to maintain this new routing. A new program will be provided to copy the chosen Engineering Routing back to the production route.

Note:

- This is a new pinable module.
- In order to run this module the user must have Routings & Capacities and Engineering Bills on their pin.
- The remaining Swan system will only refer to the production route. An Engineering Routings will only be used by Swan once it is copied back to the production route.

As with Engineering BOMS, a parameter will be provided to optionally restrict amendments to the production route.

2. New Programs

New Engineering Routing

This will be a new menu option based on the existing Routing and Capacities New Routing program. However, the ability to create stock items on the fly has been removed. A routing can only be added to an existing item. The user will also be allowed to copy an existing routing from archive or from the live system.

When adding a routing, if the entered item, version and issue exists as the production route the will be offered the option to copy from the production route. Similarly if the item, version and issue already exists in the archived engineering routes the user will be given the option to re-instate it from archive.

The following new fields will also be available to enter:

- Issue Number
- Start and End Date
- Description (2 lines)
- Change Note Number
- Engineering Only Indicator
- Issue Date
- Expiry Date

Amend Engineering Routing

This will be a new menu option based on the existing Routing and Capacities Amend Routing program with access to the new fields (see 1.2.1).

Copy Engineering Routing

This will be a new menu option based on the existing Routing and Capacities Copy Routing program. The user will have the ability to copy from a production or engineering route.

Update Production Route

This new menu option will run through either a single or all engineering routes and copy the engineering routing to the production routing.

The new issue details (see point 1.2.1) will be copied across and stored against the Production Route. This information will not be amended within the Routings and Capacities system.

Engineering Routings Enquiry

This will be a new menu option based on the existing Routing and Capacities Copy Routings Enquiry program. The user will also have the ability to view the new issue details (see point 1.2.1).

Engineering Archive Routings Enquiry

This will be a new menu option based on the new Engineering Routings Enquiry program. The user will also have the ability to view the new issue details (see point 1.2.1).

Engineering Routings Report

This will be a new menu option based on the existing Routing and Capacities Copy Routings report program. It will also show the new issue details (see point 1.2.1).

Engineering Routing Cleardown

The new program will archive or delete the engineering routings.

Update Engineering Routings (Initialisation)

This new menu option will run through all production routes and, if they do not already exist, copy the routes to the Engineering Routings system.

Maintain Engineering Routing Parameters

This will be a new menu option based on the existing Engineering BOMS Parameter maintenance program.

Using these parameters the user will be able to restrict amendments to the production route and to specify whether or not the Engineering Routings are to be archived or deleted. The default settings will be 'No' to restrict the amendments and 'delete' for the archive/delete option.

Engineering Cost Enquiry

This new menu option will show the costs of all available engineering routings for an engineering BOM.

This will be added to the Costing Enquiries menu.

3. Miscellaneous Changes

The following programs have been changed to apply the amendment restriction as defined in the new Engineering Route Parameters and to flag the production route as amended if no restriction is applied.

- New Production Routing
- Amend Production Routing
- Copy Production Routing
- Remove Production Routing
- Global Changes to Production Routing
- Data Take On for Routings

The following programs will display the new issue details held against the production route:

- Production Routing Enquiry

The following programs will delete/maintain the link between the production route and the new issue details:

- Remove Production Routing
- Delete Items within a Production group
- Delete Items Utility
- Rename Item Numbers Utility

4. Cost Roll Up

The existing Engineering BOM Cost Rollup routine will be modified to include a new option to roll up material and labour values.

If the user opts to roll up labour values they will be required to select an Engineering Routing to use. The labour and overhead costs are then rolled up from the engineering route and stored against the Engineering BOM.

The Engineering BOM Enquiry will have a new option to allow the user to view the costing details.

5. File Changes

The following new files will be available.

<u>File Name</u>	<u>DOS Name</u>	<u>Contents</u>	<u>Default Prefix</u>
ENGR-ROUTINGS-FILE	ENGR RTE	Engineering Routings file	UA
ENGR-ARCHIVE-FILE	ENGR ARC	Engineering Routings Archive file	UB
ENGR-STATIC-DATA	ENGR DAT	Engineering Routings Static Data	US
CAP-ROUTE-ADDL-DTLS	CAP RTEA	Production Routing Additional Issue Details	UC

6. Menu Changes

The two entries on the Swan main menu for Bill of Material and Eng. Bill of Material will be brought together under one menu option called 'Bill of Material'.

Similarly the Production Routing and Engineering Routings will be brought together under the menu option 'Routings Maintenance'.

The Routings & Capacities menu option will be renamed to Capacities as the routing maintenance now has its own menu option.

The ECC menu option has been moved to below the Capacities menu option.

The Engineering BOM Cost Rollup program has been moved from the Engineering BOM menu and added to the Cost Rollup menu within Costing.