

Enabling Project Equipping & Procurement

MTS E-Quip

The Challenge

From an equipping perspective, project transition from design and development to final commissioning present challenges which encompass the development of procurement specifications, tendering, budget management and critically, meeting the construction and mobilisation programme. This is often compounded by the requirement to have a multidisciplinary Team in different locations managing various aspects of the process.

Common issues confronting the team are:

- Identifying equipment required and refining the bills of quantities
- The identification and management transferring equipment
- Packaging equipment into procurement groups and identifying procurement method and potential suppliers
- Managing delivery lead times and integrating the procurement process with the design and construction programme
- Managing the delivery process and the identification of the required resource to implement it

Often, the information available to enable the equipping process is held in disparate places. Two key sources of information are:

1. The design bills of quantities (BOQ) developed during the project design phase which could have been developed on briefing systems such as activity database (adb) or Codebook and

2. Existing asset lists of equipment which could be transferred into a project thereby reducing pressure on the equipping budget. This could be data held on a Trust database such as EMAT, F2, EMS or could simply exist in spreadsheets

Hence, if a secure application is to address these issues and challenges, it needs to be robust, truly open with respect to importing and exporting information and support the requirements of a multi-user environment.

Overview

Being complimentary to existing Trust procurement systems and infrastructure, E-Quip is designed to bridge the gap between project design and briefing systems and asset management databases. It simplifies the management of the procurement process and funnels all project procurement related information into a secure database application to reduce double data entry.

At its heart is the BOQ, which is the generic list of equipment



required to make a building functional. It normally has some sort of coding structure applied which is used to generically define the equipment type and description, ie ADB codes. The specific coding structure is not important as part of E-Quip's functionality is to generically handle and manage equipping coding strategies.

The BOQ eventually becomes a list of specific, uniquely identifiable assets that have been installed & commissioned. This is achieved using:

- Tenders, linked to Equipment Specifications
- Quotations or Tender Responses
- Orders
- Deliveries

Once equipment has been delivered, BOQ entries can now be described using the nomenclature of receiving equipment management database, even being potentially imported directly into it. By handling the translation between coding systems it is even possible to schedule equipment commissioning jobs in the asset-management system from within E-Quip.

This transition from generic to specific is tracked at all stages by E-Quip, so that at any time the current status of any BOQ entry can be easily seen.

Benefits

E-Quip removes the need to re-enter data. Process related information can be imported with easy-to-use data import wizards, from design & asset-management systems. This includes:

- BOQs, Departments, Rooms & Components from design tools.



- Lists of existing assets that are available for transfer from asset-management tools.
- Supporting data, such as lists of suppliers, equipment categories, models & options

Once procurement is complete the new asset details can be exported to asset-management applications for on-going equipment maintenance. In the case of Optim EMS new EMS assets can be created, and commissioning tasks scheduled directly from within E-Quip. This allows resource planning for the Clinical Engineering Department responsible for commissioning the new equipment.

E-Quip maintains a core library of information which can be shared by all projects. This includes:

- Equipment categories. i.e. Coded equipment descriptions.
- Manufacturer-specific equipment models, including detailed pricing and product lead-times.
- Generic equipment specifications.
- Equipment suppliers.

Each project manages its own set of unique data, which includes:

- BOQ s, Departments, Rooms & Equipment (coded using the design system s nomenclature), Assets, Locations and Cost-Centres (coded using the asset-management system s nomenclature), Tenders, Quotations, Orders, Deliveries and Equipment Pools

E-Quip is currently being used on the following projects:

- Barts and the London NHS Trust
- Chelsea and Westminster Foundation NHS Trust
- Mid Yorkshire NHS Trust
- Glasgow Royal Infirmary
- West Hertfordshire Hospitals NHS Trust
- Mid Essex Hospital Services NHS Trust



managed technology services

4 Clifton Court, Cornerhall, Hemel Hempstead, Herts HP3 9XY

t: +44 (0)1442 216785

e: info@managedtechnologyservices.co.uk

w: www.managedtechnologyservices.co.uk

About MTS

- We are the largest Health and Education Equipment Advisors in the UK.
- Our consultancy has brought together a team of 20 personnel which has been providing high levels of support over 25 years.
- Our equipping consultancy includes asset auditing and reporting, equipment scheduling, architectural interfacing, equipment specifications and procurement programme/project management and equipment mobilisation, commissioning and installation.
- Our team are working with Partners in PFI, P21⁺, ISTC s, Mental Health, PCTs and Community Health.
- Our E-QUIP education model is used for PFS and BSF.