

Case Study

Heathrow Airport – Terminal Baggage Schematics & EAM Audit

Customer Background :

Heathrow is one of the world's busiest airports, with an automated baggage system made up of over 100k maintainable assets. Baggage system schematics existed for several terminals, however they were out of date and did not include any upgrades made over the past few years. An updated set of schematics were required for all terminals, incorporating all new assets and systems.

Challenges :



SML was asked to develop schematics for the terminal baggage system, which included consolidating existing schematics with drawings of new works, and to perform an audit of the assets against the EAM system (Maximo) with a site verification (if required). The schematics needed to allow users to view systems spanning several floors and buildings.

Solution :



- Created an editable schematic in MS Visio which allows the user to switch layers on/off by floor elevation, equipment type or PLC zones
- Exploded views were provided for more complex terminals for further clarity
- Included PLC cabinet and zoning with material flow and throughput capacity

Business Impact :



- All Drawings were provided in an editable format to allow them to be kept up to date
- All departments have a consolidated view of each system to aid in accurate analysis
- Asset lists can be extracted from each schematic to audit EAM system records (Maximo)
- Future integration compatibility into any MS product

Customer Feedback:



“The drawings have provided us with a single version of the current system layout, the accuracy and detail needed to locate and manage the equipment and product flow lines as they currently exist. The drawings are used for asset management, operational performance, risk, contingency, and mitigation planning. SML professional commitment to quality and detail, has helped all the operation.”

Senior Asset Engineer