

CASE STUDY

ILLUMINATOR

Custom function – Spectrum Clearance



GD
PROGRESSIVE
SOFTWARE
SOLUTIONS

CASE STUDY

ILLUMINATOR Spectrum Clearance

Problem

Client is tasked with the implementation of a project to clear the 700MHz spectrum allocation in the UK. This is currently used for digital television transmission but will be made available for mobile network (4G/5G) usage on completion of the programme. The 5-year programme involves coordinating work across 1200+ transmission locations in England, Wales, Scotland & Northern Ireland, in co-operation with neighbouring EU countries also clearing this spectrum in the same delivery period. This is a very complex engineering project, which must also ensure minimal disruption to existing broadcast television network services across the UK for the duration (2016-2020).

The programme involves a number of diverse work-streams and it is essential that the associated design and implementation teams have a common knowledge environment to reference critical core data and project information. The individual work-stream data sets are numerous and were not easy to accommodate in any 'off the shelf' software solution. Inter-work-stream dependencies must be transparent and the associated data sets need to be easily accessible via an intuitive common platform. This includes approval, notification and change methodologies.

Solution

GD worked with the client to design a dedicated ILLUMINATOR system to manage the key data requirements of the programme. Core information is presented in a unified workspace environment with

individual work-stream specialist information controlled and managed in partitioned, bespoke system zones. The ILLUMINATOR system manages the primary programme data, but, in addition, can also synchronise with data sets resident in other corporate system repositories.

The dedicated work-stream zones are controlled and managed by individual specialists, with read-only access granted to extended project communities. The system includes extensive notification, approval, change, delta analysis and historical audit trail facilities.

Benefits

- Enhanced inter-work-stream information transparency - with particular reference to key dependencies between project group stakeholders.
- Gained efficiencies in information retrieval and consistent access methodologies.
- Integrated corporate project process governance - drives work-flow responsibilities and delivery via an agile interactive dashboard environment.
- Programme-wide, end to end reporting facilities, with early warning notification of change collateral throughout the extensive range of sub-projects.
- This is a government funded infrastructure project and the system ensures the client remains compliant, providing a complete audit trail for regular project delivery and performance inspection.
- Core data accuracy – spectrum data re-refresh is key to all other decisions/design, so version control is essential. New releases auto-cascade a flurry of updates to related and dependent datasets and associated documents.



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