CASE STUDY

ILLUMINATOR

Geo Data

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CASE STUDY

ILLUMINATOR & Geo Data

Problem

The client has sites, infrastructure and assets at thousands of locations in multiple countries. These sites are interconnected by a multi-topology complex network infrastructure, which facilitates both internal organisational requirements and also the client's customer needs. The information and record archives for the above are just as numerous and complex and have been accrued over several decades in many forms. Sites, systems and connection data reside in the usual structured and un-structured formats. The relationships between these assets have been accumulated via successive waves of large programmes and projects. This information tends to be stranded in project folders within documents or in legacy databases that may be best known to employees who have since left the organisation.

The client was interested to explore options associated with next generation information management tools. In particular, the ability to unify key corporate infrastructure data in the least number of information systems, but also the opportunity to introduce advanced analytical tools such as GEO-data workspace dashboards. Such capability would allow the organisational business units to explore comprehensive and holistic interpretations of the relationships between the dispersed assets, their associated connections and inter-dependencies in a single information rich environment.

When available, the GEO-Data toolkit facilities would be used to also plan and execute complex programme roll out activities. This would allow project teams to best interpret the chronological order of events at or between locations and have an improved view of regional

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proximities associated with e.g. current, interim and final state project delivery. It also would also provide network management personnel the ability to view inter-network relationships between discrete systems and services – not evident previously due to multi-telemetry platform limitations in this regard.

Solution

Graphical Data proposed the ILLUMINATOR software platform as the most suitable toolkit for realising this ambition. ILLUMINATOR can easily integrate with market leading geo-data mapping tools, and, in addition, maximise their inherent capabilities for advanced data analytics.

The system was designed to consume and manage datasets in the ILLUMINATOR database, but also have the ability to API/Import data from other corporate database assets.

Data structures are comprehensive and accommodate network types, site types, locations, infrastructure, systems, equipment deployments, connections, capacity, services etc. It is possible to view current, interim and proposed asset arrangements via powerful dashboard filter facilities. The system provides the option to interpret future requirements in context of existing, and the ability to highlight and fade target data elements as appropriate.

Benefits

- Development of an innovative, previously un-available, interpretation of the organisation's assets in a dynamic and advanced dedicated GEO-data environment.
- Technical, and non-technical personnel can drive the easy to use facilities to harvest relationship orientated datasets that would have been very difficult to examine in context otherwise.

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- Major advance in corporate planning capability, including the ability to run multi-functional what if scenario queries e.g. Network capacity planning.
- Improved decision making with respect to logistics and resource management.
- Comprehensive interpretation facilities for major programme roll out activity chronology.
- Provides easy to use operational network GEO-data analytics such as connection path and service resilience provision etc.
- Inherent ability to highlight, and auto-notify of network changes at dataset re-fresh.
- Standard ILLUMINATOR reporting capability, with multi-format exports.

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