SCOPE PROVIDES TELEMETRY FOR UISCE ÉIREANN

SCOPE
AN OVARRO TECHNOLOGY

THE CHALLENGE

Major reform of water services in the Republic of Ireland includes implementing a centralised telemetry system that will help manage thousands of assets, writes **Alan Cunningham**, software delivery manager at Ovarro. Uisce Éireann (formerly Irish Water) is undertaking a major reform of water services in the Republic of Ireland, having moved from a 31 local authority structure to a single national utility.

The utility is now delivering a National Telemetry Programme, which involves the implementation of a new National Telemetry System to support centralised and standardised asset monitoring activities and interconnect previously disparate systems. This will enable remote monitoring, management, and data collection and analysis for over 2,000 water and wastewater assets.

Having a central telemetry system linked to one operations management centre will also support critical asset oversight, incident management, troubleshooting and strategic planning.

THE SOLUTION

Ovarro's SCOPE SCADA telemetry solution was chosen by Uisce Éireann (UÉ) to provide centralized operational oversight and management of water and wastewater networks, including supply, treatment, leakage detection, and real-time alerts. SCOPE (Secure Configurable Online Process Executive) allows real-time asset monitoring and includes tools for configuring dataloggers and RTUs. Significant enhancements were developed by Ovarro to meet UÉ's requirements, and the system was successfully installed and tested across multiple data centers. In the field, Seprol S2000 RTUs are being deployed to connect UÉ's operational sites to SCOPE, using the Water Industry Telemetry Standards (WITS) protocol. To ensure compatibility, Ovarro integrated protocols within SCOPE to facilitate communication with legacy RTUs, which were validated during Site Acceptance Testing.

Seprol S2000

WATER

MONITORING & CONTROL

RTU'S

OVARRO
CONNECTING TECHNOLOGIES

REPORTS

Ovarro has delivered a central SCOPE system which is being used to monitor operational sites to be migrated over from legacy monitoring systems. The SCOPE system was built in line with the IEC62443 standard of the International Electrotechnical Commission, meeting a high bar in cybersecurity, and interfaces with several other Uisce Éireann systems. Telemetry, SCADA and associated real-time systems are an essential component of a centralised utility model, providing real-time monitoring and control as well as asset performance information for business decision-making. As a company, we are proud to have provided Uisce Éireann with the SCOPE suite of software, which enables central monitoring of assets across the entire country for the first time.

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"Implementation of the new National Telemetry System is a major project that will deliver significant operational improvements for Uisce Éireann and its customers."

John Flaherty, operational technology manager at Uisce Éireann IT

OPERATIONAL BENEFITS

Ovarro has delivered a central SCOPE system which is being used to monitor operational sites to be migrated over from legacy monitoring systems. The SCOPE system was built in line with the IEC62443 standard of the International Electrotechnical Commission, meeting a high bar in cybersecurity, and interfaces with several other Uisce Éireann systems. Telemetry, SCADA and associated real-time systems are an essential component of a centralised utility model, providing real-time monitoring and control as well as asset performance information for business decision-making. As a company, we are proud to have provided Uisce Éireann with the SCOPE suite of software, which enables central monitoring of assets across the entire country for the first time. "Historically Irish Water - now Uisce Éireann - and the local authorities relied on telemetry systems that were inhibited by a lack of a single set of standards, varying data communications systems and individual county-based control centres. "Effective telemetry will provide technology which enables remote monitoring and management, and data collection and analysis for thousands of assets. SCOPE from Ovarro is key to linking the new telemetry system to the National Operations Management Centre and will support critical oversight, operations management and planning."

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