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CASE STUDY

Quality Automation

Client Requirement

A Denver, Colorado based Multiple System Operator needed a solution to make quality checks on the Bentley drafting files they were receiving in huge number from contractors. The MSO needed to store, analyze, and retrieve massive amounts of hybrid fiber coaxial outside plant (OSP) data.

Challenge:

Automated quality control checks and procedures maintain the accuracy and consistency of data used for critical applications such as serviceability analysis, customer provisioning, inventory tracking, facility and equipment maintenance, and network planning. Even though the specs were universal, checking if the data reposted on the latest platform was consistent was the main challenge.

IMMCO Approach & Solution:

IMMCO developed an automated Quality Control Toolkit that works seamlessly with Bentley Expert Designer Communications. The Toolkit takes advantage of Bentley's relational database storage model so OSP data analysis can be quickly performed against enterprise-wide databases. The toolkit improves accuracy and data consistency, saves time, and reduces costs. A typical analysis now takes about 24 minutes instead of one week.

IMMCO has engineered its own data validation and data collection tools for Bentley Comms, which enabled IMMCO to create this quality automation toolkit for this MSO. The ROI is that the tool helps collect information or locate errors 30% faster than normal methods or known previous efforts. Thus the combination of highly refined processes and tools to locate errors helps speed up the QC process and cuts project timelines by nearly 50%. This has made IMMCO more competitive in this tough economy.

Project Status:

The automation tool has been adapted enterprise-wide and is being used on every shipment the MSO receives from its Contractors.

INNOVATION IN COMMUNICATIONS NETWORKS

IMMCO, Inc.
Quality Control Automation
Denver, Colorado, United States

WINNER

QC Tool V8i

Showing results as on 08-03-2012_03-47-06.qct

SINo	XFMID	Error Description	Type	Feature Identifier
785	2500189	Poles without Pole Number	Error	LB
786	2500167	Poles without Pole Number	Error	BLDATE
787	2500190	Poles without Pole Number	Error	LB
788	2500171	Poles without Pole Number	Error	PLNUA
789	2500188	Poles without Pole Number	Error	POE
790	2500189	Poles without Pole Number	Error	LB
791	2500170	Poles without Pole Number	Error	PLNUA
792	2526795	Amplifier without previous link	Error	Diamond Marquise
793	2526795	Nodenames doesnot match the name of the corresponding o	Error	Diamond Marquise

Show Duplicate Addresses

Zoom Level: 97

QC Summary

Total Errors Detected	: 136	Total Elements Checked	: 1240
Total Warnings Detected	: 657	Quality Score	: 36.65%