



Emmett Thomas Walsh

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Summary

Over twenty-five years as a client advisor, architect, and implementer for GIS, Business Intelligence & Analytics, and Enterprise Work & Asset Management for Utilities and Telecommunications enterprises. Extensive project work throughout the Americas, Europe, Caribbean, and Middle East. Hands on, detail oriented, highly collaborative, enterprise mindful, and always directed toward business value and business adoption.

Select Experience

PricewaterhouseCoopers (PwC) (contract) Windsor, CT

Multi-Workstream Lead April 2017 – Present

Multi-State Gas & Electric Utility System in US Northeast:

Lead for Asset Management and GIS Integration – Maximo Work & Asset Management Implementation

Led all functional & business workshops to arrive at our Maximo Asset/Location Hierarchies for gas distribution, electric distribution, and electric transmission; Workshop outputs also included system-of-record and dataflow details between Maximo, GIS, and other systems; Designed and orchestrated development for all asset/location & geospatial technical activities for Maximo Spatial, ArcGIS Data Sync, and other Maximo applications that consume and update assets & locations.

Lead for Preventive Maintenance – Maximo Work & Asset Management Implementation

Led all functional & business workshops to translate gas/electric distribution compliance requirements into Preventive Maintenance (PM) and Route profiles – and translated these into instruction sets for the data conversion team; Collaborated early and often with Mobile team and Work Order Tracking team to ensure fitness of inspection/survey forms, bi-directional integration between Maximo and Mobile solution, and translation of Mobile data back to assets & locations.



Ernst & Young (contract) Dubai, United Arab Emirates

Multi-Workstream Lead November 2016 – April 2017

Dubai Electricity and Water Authority (DEWA):

Lead for Smart Grid System Integration Architecture

Lead architect and team leader for technical design of CIM/IEC-standardized system integrations for AMI/MDMS, Demand Response, Distribution Automation, Substation Automation, Distributed Generation, and Electric Vehicle Charging.

Lead for Asset Management Analytics

Lead architect and team leader for client consensus building and design of Asset Management analytics for electric distribution and transmission.

PricewaterhouseCoopers (PwC) Denver, CO

Director – Data & Analytics for Utilities Sector January 2014 – November 2016

Selected Projects at PwC:

Lead for Maximo Integration with GIS – Gas Distribution Utility

For this multi-year Maximo implementation led the design and delivery of real-time and long-transaction integration between GIS and Maximo Work & Asset Management. This integration is one of the Utility industry's most ambitious. Virtually all gas distribution assets, locations, and work orders are synchronized in both directions, and Maximo users have direct access to entities on the GIS map via Maximo Spatial. Dozens of mission critical business processes depend upon the integration's accuracy, timeliness, and coordination across multiple functional areas. For this project also developed the client's future state business processes for leak management and cathodic protection.

Lead for Maximo Cost Estimation Solution (and other topics) – Multi State Electric T&D Utility

For this multi year Maximo implementation, architected and designed the solution by which cost estimates for construction projects will be calculated and communicated to the Utility's customers and internal stakeholders. The overall solution required design integration with Schneider ArcFM Designer (graphical work design), Maximo Compatible Unit Estimating, Maximo Work Order Tracking, PowerPlan, and Cognos (reporting).

In addition to this effort, led the functional design for Maximo Location hierarchy, Property Tax, and other key topics for the overall Maximo solution.

Engagement Lead – International Wind & Solar Energy Developer/Operator

Led a team to define, design, and deliver an analytics and data visualization solution, focused on the develop-to-operate pipeline for utility-grade wind and solar plants.



This domain forms the very heart of the organization's business mission. The analytics provide the leadership team and operations with concrete understanding of current-state and look-forward positions for project financials, milestone schedules, opportunities, and risks.

Engagement Lead – Multi-State Utility Enterprise

Led the delivery team for reporting, data warehouse design, and ETL for the client's Oracle CC&B-enabled customer operations. Functional areas included customer service, finance, and all meter-to-bill processes.

Rolta International Denver, CO

VP – Utility Solutions Practice; Chief Enterprise Architect April 2010 – January 2014

Led utility industry solutions for data warehousing, business intelligence, and seamless integration with GIS. Conceived and orchestrated leading edge solutions that demonstrate thought leadership and a 'business first, technology enabled' approach to the utility industry – with carryover into telecommunications and transportation.

Selected Projects at Rolta International:

Business Intelligence Director – Multi-State Utility Enterprise

For this electric and gas distribution company operating in multiple states, led an ambitious workshop series to analyze business intelligence and reporting requirements for virtually every facet of the meter-to-bill lifecycle. Translated these requirements into custom dimensional (star schema) data models, ETL, reports, and dashboards (OBIEE). Provided deep SQL analysis and ETL design, sourcing data from more than a dozen transaction systems, including CIS/CRM, Billing, Meter Data Management (Oracle MDM), Work Management, Asset Management, and others.

Utility Business Intelligence Lead – UNS Energy (Tucson Electric Power), Tucson, AZ

For this enterprise Business Intelligence/Analytics Roadmap project, conducted business requirements workshops across all major departments within the Generation, Transmission, and Distribution business units. Correlated findings into a strategic plan, including recommended projects, future state systems architecture, business domain models, achievement milestones, staffing profiles, and a data governance regimen.

Business Intelligence Director; Asset Management Consultant – Northern Powergrid, Newcastle upon Tyne, UK

For this enterprise Work & Asset Management transformation project, led the design for the customer's first-ever enterprise Business Intelligence ecosystem, including dimensional data warehouse, data governance infrastructure, ETL architecture, and end-user reporting/dashboards.

Also co-led business process and integration workshops for Work & Asset Management (Oracle eAM) and SOA-integrated GIS (Oracle Spatial).



Practice Director – Rolta Internal Development

Orchestrated the industry's first commercial framework to embed and fully integrate Esri GIS maps into Oracle Business Intelligence (OBIEE).

Project Manager, Architect – Bermuda Electric Light Company (BELCO)

Designed and led GIS development for full lifecycle, SOA-based integration between Work & Asset Management (Maximo) and GIS (Esri ArcGIS Server, Telvent ArcFM Server). As a precursor to this project, led a workshop series with business leaders to increase their understanding of full lifecycle asset management and its impacts on utility business operations.

At Rolta International and OneGIS (acquired by Rolta), led dozens of other successful projects with BELCO between 2002 and 2012.

OneGIS, Inc. (acquired by Rolta International April 2010) Atlanta, GA

Chief Technology Officer, Co-Owner/Founder 2003 – 2010

Hands-on CTO for this dynamic consulting company, focusing on GIS based, enterprise class business solutions for utilities and telecommunications. Built our reputation as a courageous and inventive team who could take on any challenge and deliver. Among other specialties we implemented and customized the full suite of solutions for Schneider/Telvent ArcFM and Telcordia/Ericsson Network Engineer.

Selected Projects at OneGIS:

Project Manager, Architect – AGL Resources, Atlanta, GA

Designed and led delivery for an innovative GIS web services application supporting the organization's call-before-you-dig function. The application is built on Esri ArcGIS Server and determines which gas system assets (pipes, valves, etc) and high-sensitivity areas (schools, hospitals, etc) are within a configurable distance of a contractor's dig site.

From 2003 to 2010, led dozens of other projects with AGL Resources for business process consulting, custom software, and systems integration.

Project Manager, Architect – Various clients and projects

Led the design and delivery for many ArcFM and Ericsson Network Engineer projects in the Americas and Europe.

Project Manager, Architect – OneGIS Internal Initiative

Designed the architectural framework and led the development team for a commercial mobile GIS software system, called OneView Mobile, with two-way synchronization to an enterprise Esri GIS database.

ISP Equipment Modeling Manager, Training Lead, Integration Design Consultant – Level 3 Communications, Broomfield, CO

Led the OneGIS equipment modeling team for inside plant (ISP) telecoms assets in Ericsson Network Engineer, an Esri-based telecommunications network and asset



maintenance system. Modeling scope involved all equipment manufacturers and models - and included racks, chassis, cards, ports, and a complex arrangement of automations and configurations.

Designed, built, and delivered all Network Engineer training for end users and system administrators.

Regularly consulted on design for the two-way integration with provisioning systems for network assets and connectivity models.

Project Manager – *Clayton County Water Authority, Morrow, GA*

Led the end-to-end implementation for a new enterprise asset/maintenance management system, Azteca Cityworks.

Miner & Miner Consulting Engineers (now Schneider Electric) Fort Collins, CO

Project Manager 2000 - 2003

Managed implementation of the entire suite of ArcFM Solution products, for which a technical mastery of the Esri ArcGIS platform is an absolute requirement. Led dozens of these projects for electric and gas utility companies across North America, UK, and Latin America: Costa Rica, Ecuador, Bolivia, Argentina, Brazil.

Burch-Lowe Atlanta, GA

Director of Information Systems 1998 - 2000

Responsible for the management of all computing, database, and telecommunications resources for this heavy construction equipment distributor.

Parsons Técnica de Venezuela, C.A. Caracas, Venezuela

Database Administrator and GIS Manager 1997 - 1998

Relocated to Caracas to manage the database systems and GIS application development teams for a yearlong project to support the national oil company's 10 year investment strategy. Conducted business exclusively in the Spanish language.

Parsons Engineering Science, Inc. Atlanta, GA

Project Manager 1995 - 1997

Exploration Resources Athens, GA

GIS/CAD Analyst, Assistant Geologist 1992 - 1995



Education

B.S., Geology, 1990, University of Georgia, Athens, Georgia

Phi Beta Kappa honor society

Select Specialty Profile

Electric and Gas Utility Industry | Enterprise GIS Business Solutions | GIS-EAM Integration
| Work & Asset Management | Business Intelligence & Analytics | Dimensional/OLAP
Data Modeling and ETL | Digital Modeling of Physical Assets, Networks, and Processes |
Strategic and Tactical Workshops | Knowledge Transfer

For Full Work History and Projects please visit:

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