

MISSION CRITICAL SYSTEMS DATA SECURITY AND REGULATORY COMPLIANCE IN THE CLOUD

Who is responsible for mission critical water/wastewater systems data security and regulatory compliance in the cloud?

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SUBMISSION TYPE

30 minute presentation

KEYWORDS

Cloud Security Governance, Risk Management, Regulatory Compliance, Data Classification, Data Security

ABSTRACT

Cloud computing is causing a transformational shift in the way we do water/wastewater business and manage software and data security in an increasingly complex regulatory environment. Cloud computing certainly offers multiple benefits for water/wastewater industry, but also raises many security concerns from us as customers, which, if not well understood and managed, can boost a fear and turn the cloud experience into information security disaster derived from loss of visibility and control over water/wastewater software and data assets. Cities and municipalities are taking a cautious attitude to cloud computing, because of concerns about compliance with their security policies and respecting regulatory obligations. Thus, the adoption of cloud technologies should always be subject to careful evaluation and should be aligned and integrated with risk management processes and information security governance of the organization.

What we see in practice, many times is not clear who is responsible for data security and regulatory compliance in the cloud, whether it is cloud service customer (us) or cloud service provider, or perhaps hybrid of both. This presentation is based on professional experience and research results in cloud computing. It offers a practical approach and real solutions for water/wastewater industry leaders in the process of adoptions of cloud computing services and moving water/wastewater software applications (e.g. SCADA, MES, ERP, LIMS, LMS, etc.) and sensitive data to the cloud. Satisfying regulatory requirements triggers many questions and concerns and it is equally new and actual for both cloud providers and cloud users (water/wastewater organizations), thus I strongly believe that this presentation will be of the greatest interests for symposium auditorium.

ABOUT THE AUTHORS

Goran Novkovic has over 15 years of experience in various regulated industries including water/wastewater sector. His area of expertise is related to automation and controls engineering,

2017 ISA Water / Wastewater and Automatic Controls Symposium

Aug 8-10, 2017 – Wyndham Lake Buena Vista Disney Springs Resort Area, Orlando, Florida, USA –

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computer systems validation, network and cloud security, data integrity and regulatory compliance. Goran has a formal education in Electrical Engineering and Project Management and possesses a master's degree in Information Technology. He has number of professional licenses and designations. He is licensed Professional Engineer in Ontario, certified ITIL, certified Agile Project Manager and Project Management Professional with PMI (Project Management Institute). Goran is holder of CQA (Certified Quality Auditor) and CSQE (Certified Software Quality Engineer) certifications with ASQ (American Society for Quality)
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