Demand Response Management in the Cloud

Capgemini and Alstom—two global organizations leading the way in Smart Grid and technology services for the Energy & Utility industry

Capgemini and Alstom have teamed to provide an innovative Demand Response Management System (DRMS) solution, delivered via Capgemini’s industry-leading Infrastructure-as-a-Service (IaaS) offering.

**Alstom DRMS**
A DRMS is the operational control system used to provide command and control capabilities over demand response resources. Award winning **e-terra DRBizNet** 3.0 is the leading, enterprise-class, Demand Response Management System that incorporates dynamic resource modeling, optimized dispatch, real-time resource tracking, and state-of-the-art performance evaluation techniques.

e-terra DRBizNet integrates and automates the exchange of demand response (DR) related data and events across the utility including linking AMI, MDM, CIS, weather data feeds, SCADA sub-systems, settlements, and numerous proprietary DR control systems.

Synergizing our Strengths
Energizing your Business

“Energy and persistence alter all things…”
Benjamin Franklin

People matter, results count.

Alstom Grid - YOUR Grid. Reinvented.
Our industry faces many challenges: the need to operate the grid safely, for your people and the public; the need to enhance customer satisfaction; the need to continually improve reliability indices; delaying asset investments; and preparing your Utility for the Smart Grid evolution.
Capgemini Infrastructure-as-a-Service

Capgemini’s IaaS offering bridges the gap between the traditional on-premise physical architectures and the public Cloud, combining the operational, “pay-as-you-go” cost model with the security of a direct connection to your network. IaaS provides scalable and flexible infrastructure capacity, offering rapid provisioning, high availability and the potential to reduce carbon footprint, combined with full end-to-end management of your IT estate.

Capgemini’s breadth of technical capability and depth of sector knowledge enables the delivery of DRMS via the Cloud by pooling the skills of many of our technology and industry experts in core enabling technologies, including Cloud Assessment, Identity and Access Management, Service Management, Service Oriented Architecture, Risk Management and Compliance.

We offer a vast array of additional services, such as Model Management (GIS, AutoCad, etc.), integration with legacy systems, Reporting and Dashboards, and much more.

Proposed Benefits

Our DRMS solution offers multiple benefits:

- Fully integrated platform and single command and control interface for DR Technology
  - Flexible to support legacy and future DR solutions
  - Forecast & Optimize DR assets across DR platforms
- Improve Network Reliability
  - DR assets mapped to Network model for surgical initiation where needed
  - Use DR to bring network up from cold start
  - Avoid cost of outages by employing DR as needed
  - Balance intermittent wind and solar output with DR load control
- Bid DR into Wholesale Markets
  - Aggregate and bid DR resources into Wholesale Capacity markets
  - Use DR for Ancillary Services
- Defer Capital Investments
  - Deploy DR on strained network assets to improve life
  - Deploy DR assets to reduce Peak Load and credit towards Coincident Peak Load
- Avoid Peak Energy Prices by using DR assets
  - Curtail Load or engage Distributed Assets
- Capitalize on AMI investment to improve overall asset ROI via Demand Response values
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About Capgemini

With more than 120,000 people in 40 countries, Capgemini is one of the world’s foremost providers of consulting, technology and outsourcing services. The Group reported 2011 global revenues of EUR 9.7 billion. Together with its clients, Capgemini creates and delivers business and technology solutions that fit their needs and drive the results they want. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

Capgemini’s Global Utilities Sector serves the top Utilities worldwide and draws on a network of more than 8,400 dedicated sector consultants. As a leader in smart grid and advanced metering infrastructure solutions, Capgemini’s Smart Energy Services is helping Utility customers throughout the world. Our integrated Digital Utilities Transformation framework empowers utilities to drastically improve their customer experience, operating and business models through disruptive technologies.

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More on industry specific solutions is available at www.capgemini.com/utilities

About Alstom

Alstom is one of the world’s leaders in power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for all thermal (coal, nuclear, gas, etc.) and renewable (hydro, wind, solar...) energy sources. It offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs over 90,000 people in around 100 countries, and had sales of €21 billion in 2010/11.

Alstom Grid has over 100 years of expertise in electrical grids. Whether for utilities or electro-intensive industries or facilitating the trading of energy, Alstom Grid brings power to its customers’ projects. Alstom Grid ranks among the top 3 in electrical transmission sector with an annual sales turnover of more than €4 billion. It has 20,000 employees and over 90 manufacturing and engineering sites worldwide. At the heart of the development of Smart Grid, Alstom Grid offers products, services and integrated energy management solutions across the full energy value chain—from power generation, through transmission and distribution grids and to the large end user.

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