Utilities need an effective and agile decision support system to become competitive and customer-oriented, while combating frequent regulatory changes in the rapidly transforming business landscape. Growing challenges are making the analytics setup a very complex and time consuming process. These include:

- Limitations due to legacy infrastructure
- Exponential increase in utility data
- Real-time analysis
- Time taken for implementation

Solution Overview

Cognizant's Oracle Utilities Analytics offers a complete and comprehensive analytics platform that includes pre-packaged analytics including out-of-box dashboards, reports, KPIs, data warehouse, data model and extraction process. Oracle Utility Analytics include the following sub modules:

- Credit and Collections Analytics
- Revenue Analytics
- Customer Analytics
- Device Analytics
- Work and Asset Analytics
- Mobile Workforce Analytics
- Grid Analytics
- Meter Data Analytics
- Corporate Administration
- Exception Analytics

Solution Highlights

- Industry standard KPIs
- Quickly and easily deployable solutions for faster results
- Capacity to extract huge volumes of data in near real-time using GoldenGate and ODI
- Dependable reporting platform using Oracle Business Intelligence, which has capabilities like drag and drop reporting, drilldowns, graphs, mobile integration, alerts, pixel perfect reporting etc.
Key Benefits

- Easily extensible solution for building additional non-generic requirements
- Robust decision support system - leverages Cognizant’s strong predictive analytics capability in addressing additional requirements in certain spaces, for e.g., revenue protection, asset management, customer program management and customer profiling
- Cognizant has the distinction of co-developing the Oracle Utility Analytics solution with Oracle and is one of the pioneers in using this product. With our pool of resources experienced in Oracle Business Intelligence and Oracle Utility Applications, we can support fast-paced implementation with complex customer-specific report extensions
- Pre-built integration with Oracle utility applications such as Billing, Work and Asset Management, Meter Data Management and Workforce Management Systems

Cognizant’s Service Offering

Cognizant helps Utilities in implementing Oracle Utility Analytics to address all dashboard and operational reports (including regulatory) requirements. The services offered by Cognizant include:

<table>
<thead>
<tr>
<th>Advisory Services</th>
<th>Implementation, Support &amp; Maintenance</th>
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</thead>
<tbody>
<tr>
<td>Evaluation of existing set up vis-à-vis latest product</td>
<td>Implementation, Maintenance and Support of CC&amp;B Analytics, NMS Analytics, WAM Analytics, MWM Analytics and MDM Analytics</td>
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<tr>
<td>Evaluation of business drivers vis-à-vis benefits of re-implementation/upgrade</td>
<td>Environment Management</td>
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<tr>
<td>Build future roadmap for analytical and regulatory reporting</td>
<td>Application of patches</td>
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<td>Hardware sizing</td>
<td>Management of ad-hoc report requests</td>
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Cognizant - Utility Analytics Co-Development Highlights

Below are the different versions and areas where Cognizant have worked jointly with Oracle in developing Oracle Utilities Analytics 2.5.2 and 2.6.0.

<table>
<thead>
<tr>
<th>Co-Dev v2.5.2</th>
<th>Co-Dev v2.6.0</th>
<th>Upgrade ODI 11g to ODI 12C (v2.6.0)</th>
<th>QA Testing &amp; Sanity Automation v2.5.2</th>
<th>QA Testing &amp; Sanity Automation v2.6.0</th>
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</thead>
<tbody>
<tr>
<td>MWM - Involved in Modelling and development of ODI11g &amp; Golden Gate objects</td>
<td>WAM - Development of data extraction process using ODI 12C &amp; involved in Golden Gate configuration</td>
<td>CCB: Migration &amp; Testing</td>
<td>ODI Components: MWM &amp; MDM</td>
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<tr>
<td>MDM &amp; NMS Product Bug Fixing</td>
<td>MDM: Migration &amp; Testing</td>
<td>MWM: Migration &amp; Testing</td>
<td>Golden Gate Components: MWM &amp; MDM</td>
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<tr>
<td>Involved in Development of OUA Framework</td>
<td>NMS: Migration &amp; Testing</td>
<td>ODM: Migration &amp; Testing</td>
<td>OBIEE Dashboards, Reports and KPIs: MWM &amp; MDM</td>
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<td></td>
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<td>OBIEE Dashboards, Reports and KPIs: WAM</td>
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</table>
In the current environment, businesses often face the dual challenge of dealing with and maintaining complex data in a logical format. Cognizant’s approach to building automated load monitoring techniques help minimize the manual intervention required, and with automation system efficiency will improve. The ELT in OUA will be leveraged with Load Analyzer to make data movement smoother and faster.

Cookbook will have details such as end to end data lineage of all modules, utilities data models, analytics data models, OUA Customization Process, Metric Validation scripts etc.

Visualization plays a major role in current reporting trends. Cognizant’s Analytics team has come up with a solution which enhances the current reporting features such as look and feel, while also offering flexibility in customizing them as per the business’s needs.

Cognizant’s Value Adds

<table>
<thead>
<tr>
<th>Extended OUA</th>
<th>Load Analyzer</th>
<th>OUA Cookbook</th>
<th>Jquery Report Enhancer</th>
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<tbody>
<tr>
<td>With extensive expertise in the Utilities industry, Cognizant analytics team has added some of the industry standard reports to Vanilla OUA Offering. Cognizant’s industry experience and our techno functional experts have derived a few additional KPIs which will give an extended view of the Oracle seeded reports.</td>
<td>In the current environment, businesses often face the dual challenge of dealing with and maintaining complex data in a logical format. Cognizant’s approach to building automated load monitoring techniques help minimize the manual intervention required, and with automation system efficiency will improve. The ELT in OUA will be leveraged with Load Analyzer to make data movement smoother and faster.</td>
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OUA Capabilities

- Mix of Domain and Technical Experts
- Expertise across all areas of Utilities – customer, meter, asset, workforce, network
- Reduced Cycle time, thus shorter time-to-market
- Enhanced productivity
- Identification of revenue loss
- Holistic, multi-dimensional view of all utilities functions
- Validation & Verification
- Cost effectiveness
- Extended OUA
- JQuery Report Enhancer
- Load Statistics
- Customer Care and Billing
- Meter Data Management
- Work and Asset Management
- Mobile Workforce Management
- Network Management System
- Operational Device Management
- Assessment followed by Implementation & Support
- Product evaluations
- Product adoption roadmap & recommendations
- OBIEE
- Golden Gate
- ODI
- Oracle Utilities Application Framework

solutions overview
Success Story

Cognizant implemented Oracle BI solution for the electricity distribution billing system of a North American Utility.

Business Needs

- The customer had disparate BI platforms comprising Oracle Reports, Discover and Crystal Reports. They wanted to move to a single platform for all operational reports, for easier maintenance and reduced licensing cost.

- The existing Discover reports were plagued by security issues and sluggish performance, creating the need for a solution that overcame these issues.

- The customer wanted to replace Oracle Reports, which was already deprecated by Oracle.

Cognizant Solution

- Existing operational reports including Daily, Weekly, Monthly, Quarterly and Yearly schedules were developed in Oracle BI without affecting end-user experience.

- Implemented self service capability in operational reporting area. This empowers business users with adhoc reporting.

- Manual queries have been converted to BIP reports. Business users can log in to BIP and run reports themselves and also export into multiple formats.

For more information on Cognizant's Oracle solutions, contact us: OSP_Marketing@cognizant.com

About Cognizant

Cognizant (NASDAQ: CTSH) is a leading provider of information technology, consulting, and business process services, dedicated to helping the world's leading companies build stronger businesses. Headquartered in Teaneck, New Jersey (U.S.), Cognizant combines a passion for client satisfaction, technology innovation, deep industry and business process expertise, and a global, collaborative workforce that embodies the future of work. With over 100 development and delivery centers worldwide and approximately 233,000 employees as of March 31, 2016, Cognizant is a member of the NASDAQ-100, the S&P 500, the Forbes Global 2000, and the Fortune 500 and is ranked among the top performing and fastest growing companies in the world. Visit us online at www.cognizant.com or follow us on Twitter: Cognizant.