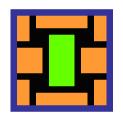


RsS Platform System: Web Enabled SCADA System



Datasheet: Standard

Document Version: 3.0

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Introduction

RSS Systems provides an Advanced Web Enabled Remote Plant Monitoring and Control platform enabling the vendor independent solution over any deployed Distributed RTU / PLC Technology.

RSS provides robust monitoring and management platform that allows you to build a solution to meet current and future web based distributed automation needs. RCDC as a web add-on to RsS SCADA System provides real-time functionality for remote supervision, including events and alarms handling, reporting, trending as well as parameter setting along with control facility. Features include:

- Reliable data acquisition and management control
- Compliance with Industry Standard/Proprietary Protocols and simultaneous multiprotocol support
- Web Based intuitive graphical user interface
- Highly Flexible and performing system capable of handling thousands of RTU / PLCs.
- Integrated multidimensional tagging capability
- History Logging with MS SQL Server or any ODBC Compliant Database
- State-of-the-art reporting capabilities with reports can be exported into MS Excel / PDF for better viewing and analysis

Key Components

RSS Server (RCS)

- Its main function is to handle all the Acquisition from distributed RTU / PLC infrastructure.
- Robust Validation engine as per user define requires and specific to Data acquisition nodes (Meters, RTU / PLCs, etc.)
- System calculations for computation of Alarms and Events as per user defines Business rules
- Scheduler: Module to automate Data Collection as per customized schedules.
- Application Interface: Interface to manage customer application allowing to define multiple customer application files as per user requirements
- Historian Application:
 - o DB management in any ODBC compliant DB Server.
 - To manage Database procedures and gueries
 - Data Archiving
- Smart Apps:
 - o SMTP
 - o FTP
 - \circ SMS
 - XML file parsers
- Smart Reporter:
 - Custom user defined report formats (Pdf, XLS, Web Forms)
 - Enable Logical and Mathematical functions required for Data computation

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RSS Web Manager (RWM)

- RWM is implemented as web service based on Microsoft .NET Platform using Angular and HTML5.
- RWM Web forms are an innovative set of applications that displays the acquired data to operators as useful information. Operators can monitor, analyze and control using state of the art Web forms accessible over any standard web browser.
- Dash Board manager allowing user to arrange the views as per the requirements allowing quick, easy and satisfactory access to the information.
- User Management: Secure Password protected user session management allowing the user to see / validate / configure the information the user is authorized to do.

System Manager

- RTU / PLC Manager: Manage RTU / PLC / Modem parameterization
 - o Allows secure Control interface with RTU / PLC
 - Allows RTU / PLC Configuration
 - System Parameters Configuration
 - Metering Scheduler
- Control Channel Manager: Define rules to manage RTU / PLC Communication for automatic and manual reading
- CDCS Manager: RSS system Configuration
 - o Configuration and Parameterization
 - o Data Management with version control and audit

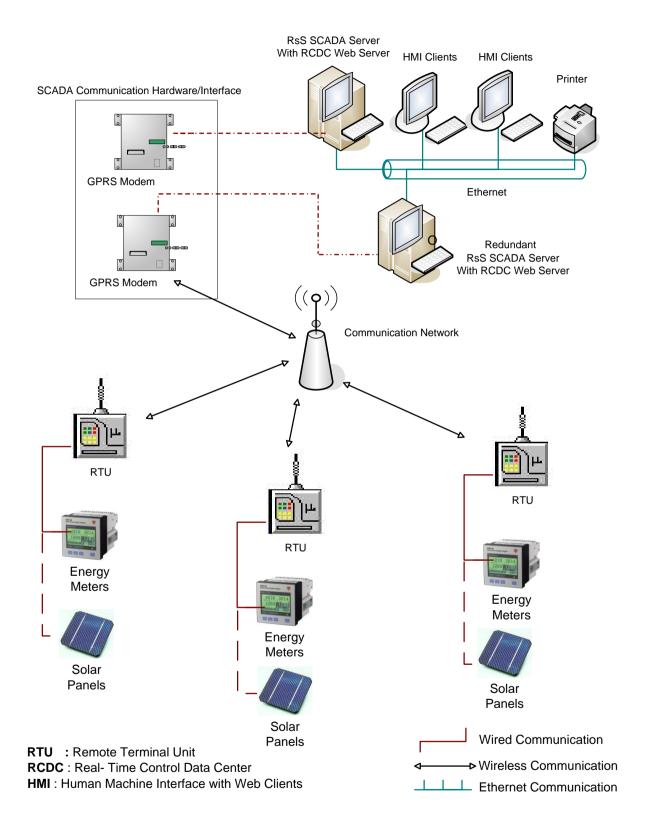
Redundancy

- RSS Server: Two RSS Servers (RS) can be configured in hot-standby mode.
- Web Clients Station (HMI): RSS can support multiple HMIs Clients.
- Database Redundancy: Two DB Servers can be installed and managed by RSS in redundant configuration.

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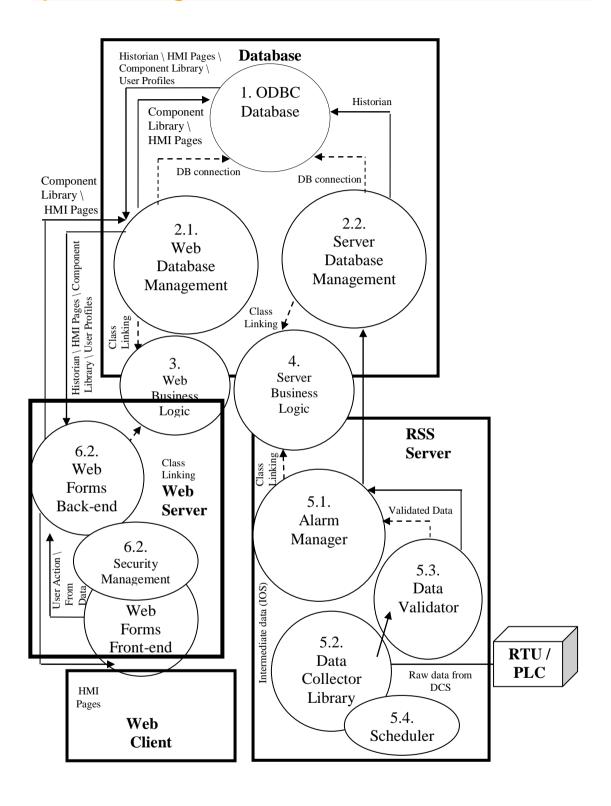
System Architecture



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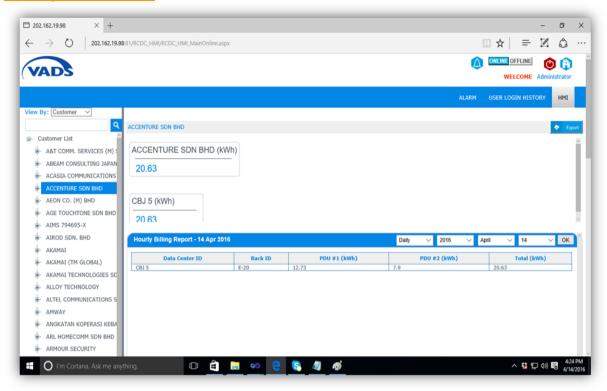
System Management and Inter Process Architecture

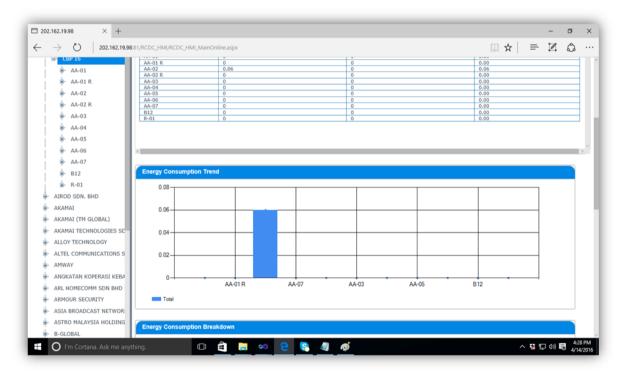


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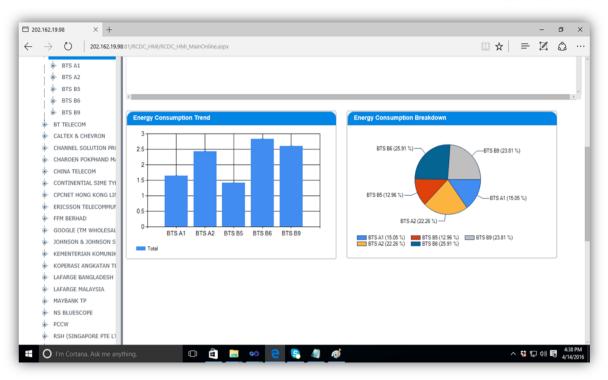
Sample Views

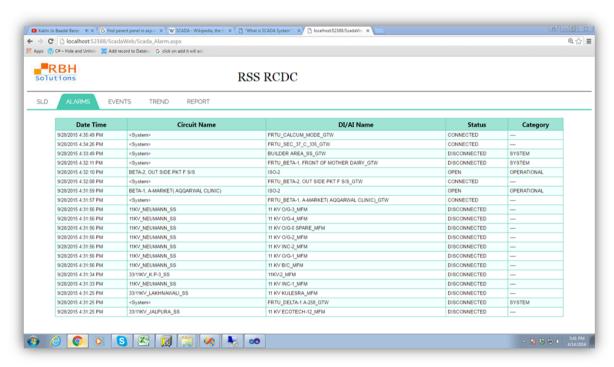




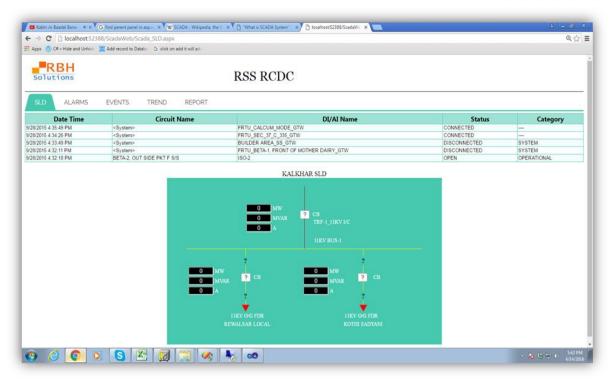
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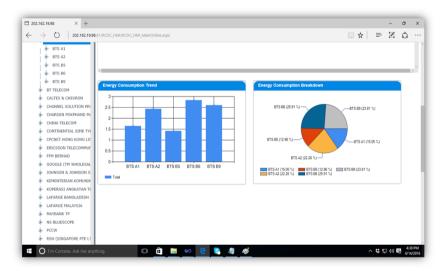








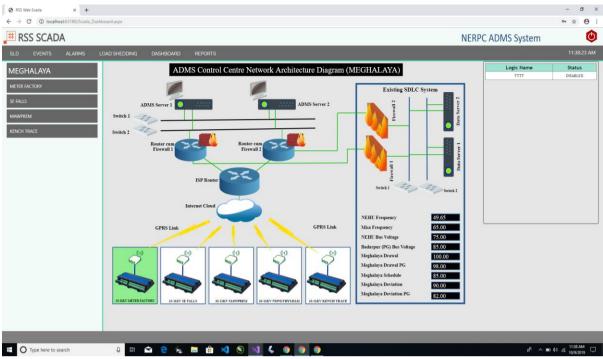


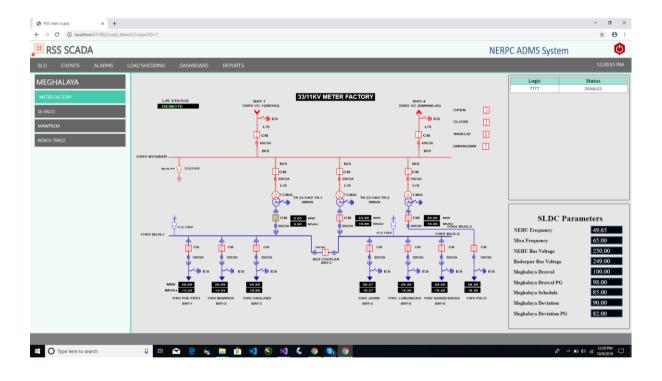




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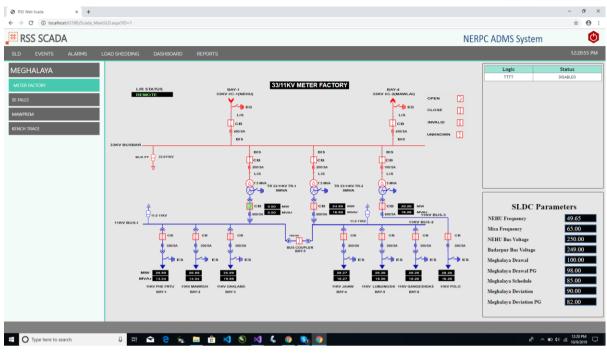






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