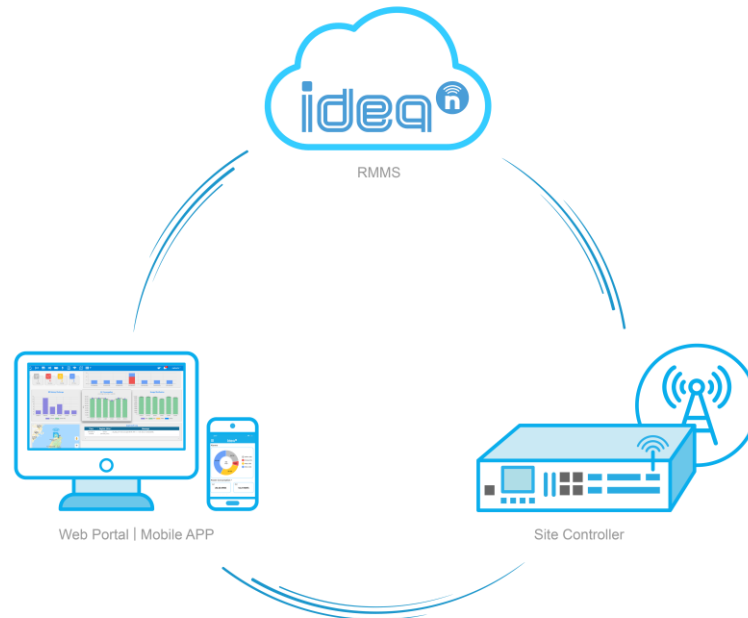


Delta RMMS

Remote Monitoring and Management Solution



The Delta Remote Monitoring and Management Solution (Delta RMMS) is a total solution for the power system and the peripheral devices installed on site to allow customers to easily and efficiently manage sites and reduce OPEX. Delta RMMS includes **Site Controller**, **iDEAn** and **iDEAn APP**. **Delta iDEAn**, an **integrated Data Efficient Access network** provides proven capabilities for monitoring and managing power equipment.

iDEAn is a web-based application. It can install at customer's server farm or cloud to fit any network infrastructure. User can access the service through a web portal or mobile APP to get site status anytime anywhere. Once an alarm is triggered, iDEAn will automatically notify the maintenance team by email, push notification, or pop-up web. To reduce the downtime of site, iDEAn offers significant reports to support maintenance team to have preventative actions such as when they have to replace battery string(s) and add additional power modules. To integrate with the existing network management system, iDEAn also offers variety northbound interface.

Key Features

- Site Management
- Alarm Management
- Battery Performance Report
- Energy Distribution Report
- Power Usage Report
- Inventory Report
- Role-based Access Control
- User Friendly Interface - iDEAn APP

Benefit

- OPEX Optimization
- Continuity of Service
- Infrastructure Intelligence
- Management 24/7 anywhere

Applications

- BTS/MSC/HUB (DC power system)
- Datacentre
- Wind Turbine



PLATFORM

Data Retention	1 year (Polling period >=600 sec)
Monitoring Site#	2,000 sites
Monitoring Data	Up to 80,000 data points (40 data points per site)
User Interface	Web portal / Mobile APP
Northbound Interface	<ol style="list-style-type: none"> 1. RESTful 2. SNMP trap
Southbound Interface	<ol style="list-style-type: none"> 1. SNMP v1/v2c/trap 2. Modbus TCP 3. Modbus UDP.

CONTROL AND MONITORING

Control	<ol style="list-style-type: none"> 1. Door Access Control 2. User/Group Management 3. Audit Log 			
Monitor	<table border="0"> <tr> <td> <ol style="list-style-type: none"> 1. Site Information 2. Grid 3. Wind Turbine 4. Solar/PV Charger 5. Diesel Generator/Fuel Tank </td> <td> <ol style="list-style-type: none"> 6. Fuel Cell 7. DC Power System 8. Load 9. Battery String 10. Cooling </td> <td> <ol style="list-style-type: none"> 11. Heat Exchanger 12. Environment 13. ATS </td> </tr> </table>	<ol style="list-style-type: none"> 1. Site Information 2. Grid 3. Wind Turbine 4. Solar/PV Charger 5. Diesel Generator/Fuel Tank 	<ol style="list-style-type: none"> 6. Fuel Cell 7. DC Power System 8. Load 9. Battery String 10. Cooling 	<ol style="list-style-type: none"> 11. Heat Exchanger 12. Environment 13. ATS
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GRAPHICAL USER INTERFACE (GUI)

Map	<ol style="list-style-type: none"> 1. Integrate with Google Map 2. Show site status on map
Album	Show site photo and maintenance report

ALARM MANAGEMENT

Alarm level	Critical, Major, Minor, Offline
Active Alarm	Activating Alarm
Alarm Acknowledge	Acknowledge alarm
Alarm Suppression	Suppress alarm for a constant time

INVENTORY MANAGEMENT

Asset	<ol style="list-style-type: none"> 1. Rectifier part number/serial number 2. Controller part number/serial number 3. Peripheral board part number/serial number
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REPORTS

Alarm History	Select a period and list all alarm event
Battery Discharge	Show the number of battery discharge
Battery Health	Show remaining days of each battery string, estimated backup time, and the count of depth of discharge
AC Outage	List utility outage reports per site, region, duration, frequency.
AC Consumption	List total load energy reports per site, region, weekly, monthly.
DC Consumption	List total telecom load energy reports per site, region, weekly, monthly.

CONFIGURATION

Site Configuration	Support import/export configuration file.
Report Scheduler	Automatically deploy report to user daily/weekly/monthly/yearly.
Exportable Report	Export report with PDF, CSV

MOBILITY (APP)

Active Alarm View	Show site status with different color on Google map to indicate corresponding alarm level
Site Status	Include DC voltage, load, all temperatures, door status, and so on
Chart View	Show several data with chart view
Navigation	Navigate to a specific site
Album	Upload site photo

MINIMUM REQUIREMENT OF IDEAn SERVER

Operating System	Window Server 2012 or later
DBMS	SQL Server 2012 or later
Hardware	RAM: 14GB or more CPU: E5-2630v4 or higher HDD: 1TB

ORDERING INFORMATION

iDEAn Software	iDEAn 3.6.0
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* All specifications are subject to change without prior notice. / * Part of functions need dedicated hardware/sensor. / * Functions will subject to connected device.

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