

iManager NetEco Software Datasheet (Site)



Introduction

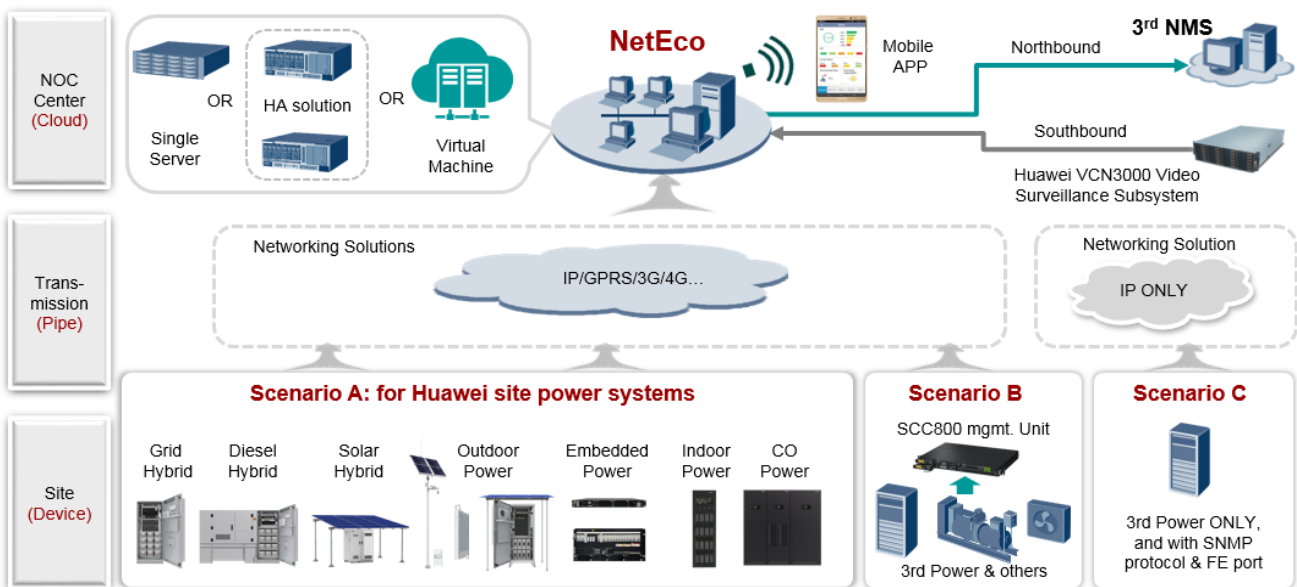
iManager NetEco focuses on providing an efficient unified Operation Support System (OSS) for site energy system and its affiliated temperature control unit, ambient and security sensors. NetEco supports real-time monitoring, active and historical alarm management, remote management, performance and statistical analysis for site energy equipment. It also provides intelligent and refined management for power, fuel, energy efficiency, asset and routine maintenance. Finally, customer can achieve optimal power availability and smooth communication at the lowest OPEX.

Features

- Simple: easy to construct, easy to deploy and easy to use.
- Efficient: high efficiency power supply ensuring, efficient O&M supporting, operational and optimizable.
- Reliable: high power availability ensuring, security safeguarding and refined O&M, full range of self-diagnosis of 'sensor-component-system-entire network'.

Scenarios

- Manageable objects: site power system, hybrid power supply system, and affiliated equipment and sensors.
- OSS Platform: three kinds of single server platforms for different site scales, and one local high-availability platform.
- Integration ability: flexible northbound interfaces, like alarm, performance, configuration and inventory interfaces.
- Networking solutions: IP/GPRS/3G/4G...



Specifications

Items	Specifications and Features						
Deployment Solutions and System Capacity	Deployed on HUAWEI servers				Deployed on customer's specific Virtual Machine (based on Vmware vSphere 5.5 or later version) (*O)		
	Single/S	Single/M	Single/L	Local HA (*O)	Single/S	Single/M	Single/L
	2,000 sites	4,000 sites	10,000 sites	10,000 sites	2,000 sites	4,000 sites	10,000 sites
Networking	IP, GPRS, 3G, 4G, etc.						
Basic Platform Functions	Basic NetEco service and online help; clock synchronization and time zone management; disk redundancy backup; NetEco data backup and restore; NetEco system self-diagnosis; customized homepages; one-touch search.						
Alarm Mgmt.	Alarm collection and storage; alarm browse; alarm processing; alarm setting; customized dry contact alarm management; alarm masking and alarm thresholds setting; root cause analysis of shutdown site, risky site forecast; alarm troubleshooting expert advice and closed-loop maintenance experience base.						
Real-time Monitoring	GIS site navigation; network-level real-time monitoring; site information overview; graphical user interface and energy flow; energy network KPI-guarding.						
Configuration Management	Site controller discovery, graphical drag and drop site configuration, batch sites copy and batch parameters modification, site parameter setting by SMS, configuration data export to EXCEL.						
Performance and Report	Historical data collection, query, statistical analysis; Day/Week/Month/Year report management; customized report; automatic periodic report; energy network KPI report. Report export: CSV, PDF, EXCEL files, printer or email.						
Software Management	Site system and components versions browse; site software package management; site software upgrade task management; remote and batch upgrade supported.						
System and User Security	System security management; user role and authority management; access security management (security policy, online users view, Access Control List (ACL) management); Mobile App access management; site user management.						
Log Mgmt.	Element Management System (EMS) log; element operation log; element fault log.						
Efficient and Accurate O&M (*O)	Alarm remote notification; Mobile APP management; overall network battery management (one user interface for battery related alarm, status; remote batch or scheduled battery test and test report); overall network diesel generators and fuel management (one user interface for DG related alarm, status; refueling business audit and anti-theft); multi-tenant shared site management; intelligent Mix of energy storage system management.						
Energy Efficiency (*O)	Site and overall network energy efficiency management, abnormal energy efficiency pre-warning and optimization expert advice; staggering electricity usage; diesel Max II management; optimal utilization of solar power in Solar-DG system management.						
Health and Lifespan Mgmt. (*O)	State of Health (SOH) management, visible battery status (healthy, sub-healthy, abnormal), cycle times, prediction of battery remaining capacity (SOC); SOH management of diesel generator, DG maintenance reminder; abnormal SOH pre-warning and optimization expert advice.						
Assets Mgmt. (*O)	Inventory management for Huawei energy equipment and NetEco server platform, asset anti-theft; inventory data export to EXCEL and XML files.						
Site Security Mgmt. (*O)	Camera with smart capture or web access; video surveillance subsystem integration with Huawei eSpace VCN3000; access control management; intelligent lock of energy storage system management.						
Integration with 3 rd Party (*O)	Northbound interfaces: Alarm SNMP (SNMPv1, SNMPv2c, and SNMPv3), Performance SNMP (SNMPv3), Webservice (https +Restful +JSON) for alarm, performance, configuration and inventory data; FTP/FTPS of performance, configuration and inventory data.						

Remarks: Features are constrained to the configuration of site hardware and controller software, as well as NetEco versions. (*O): means optional.

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