

The screenshot displays the JRC EMS web interface. At the top, there is a navigation menu with options like 'Home', 'Inventory', 'Reports', 'Configurations', and 'Administration'. The main content area is titled 'LTE network' and features a network diagram on the left. The diagram shows an 'EPC server' (192.168.40.185) connected to a 'Switch', which is in turn connected to an 'eNodeB BC99\_4' (192.168.40.4). The eNodeB is labeled as 'Active, LTE=UNKNOWN' and '5 PROBLEMS'. To the right of the diagram is a 'Status of Zabbix' table.

Host group	Disaster	High	Average	Warning	Information	Not classified
Discovered hosts	0	0	1	2	1	1
zabbix	0	0	1	1	1	1
EPC	0	0	0	0	0	0
Zabbix servers	0	0	0	0	0	0

Below the diagram is a log table with columns: Time, Host, Description, Value, and Severity. The log shows various events such as 'eNodeB BC99\_4 has been restarted' and 'Change ssh public key'. At the bottom of the interface, there is a table with columns: Hosts, DSP status, Build date, Hardware type, JRC version, LTE protocol, Original file, and Package version.

## KEY FEATURES

- ▶ Advanced EMS (Element Management System) with state-of-the-art technology
- ▶ Enables the operator to easily manage and monitor the equipment providing fault, configuration, performance and security management
- ▶ Can be operated by 'Cloud Server'

## About EMS

JRC EMS (Element Management System) is a remmote maintenance management system of eNodeB and EPC operating 'Cloud Server'

<Main Functions>

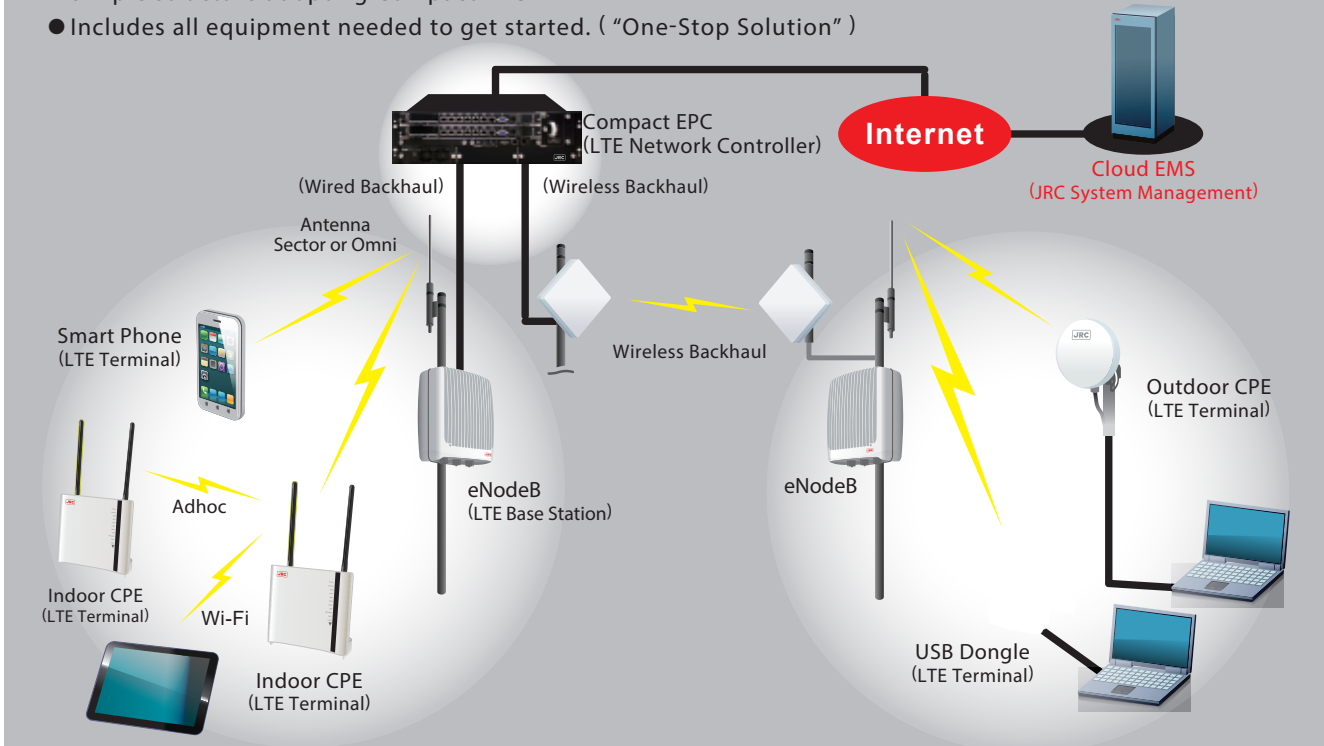
- Fault control
- Configuration Management
- Configuration information display
- Performance and security management

## JRC LTE System Diagram

EMS enables total management of installation, configuration, operation, and maintenance for LTE network devices such as eNB (Evolved Node B), EPC, and other network elements

### Basic System Configuration with Future Expandability

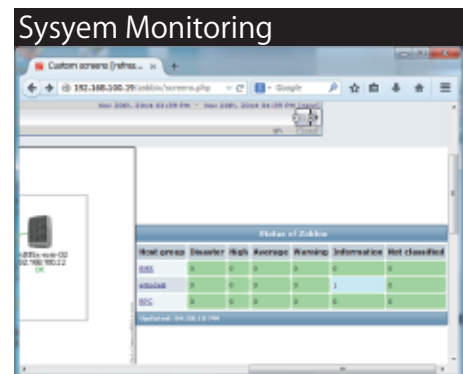
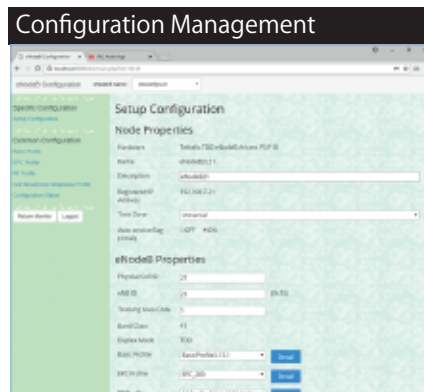
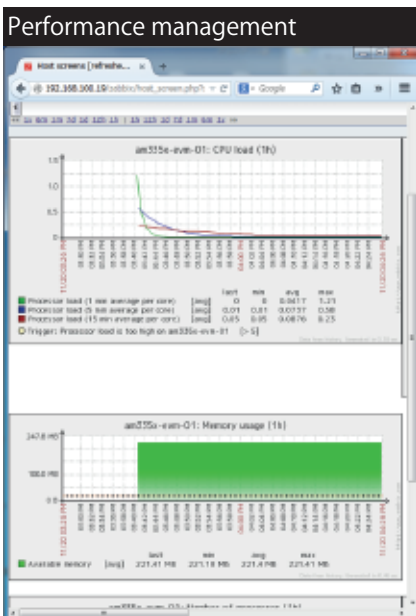
- Simple structure adopting Compact EPC
- Includes all equipment needed to get started. ("One-Stop Solution")



## EMS Hardware Requirements

Name	Platform	CPU/Memory	Monitored hosts
Small	CentOS	Virtual Appliance	100
Medium	CentOS	2 CPU cores/2GB	500
Large	RedHat Enterprise Linux	4 CPU cores/8GB	>1000
Very large	RedHat Enterprise Linux	8 CPU cores/16GB	>10000

## Use Case



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