

## Kongres Container

# Communication Base Station EMS Network



## Overview

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What does an EMS do?

The EMS is tasked with managing one or more network elements in a telecom setting. These elements could be switches, routers, base stations, or any other devices that offer network functionality.

How does EMS communicate with NES?

EMS communicates with these NEs using protocols like SNMP, Net Conf, TL1, or vendor-specific APIs. The EMS server is essentially the system's brain, taking care of FCAPS management functions: FCAPS Function Purpose Fault Management Detects, isolates, and resolves network issues, generating alarms and logs.

How EMS manage a transmission network?

1) Movement of user terminals and guarantee of communication quality To manage a transmission network or core network, the EMS can be directly connected with the constituent network devices to monitor and control the devices and thus grasp and maintain the quality of the network.

What is an indoor base station?

An indoor base station comprises a communication room accommodating various communication equipment and a communication tower responsible for transmitting and receiving information. The communication room is equipped with wireless communication devices, transmission equipment, power supply equipment, air conditioning, and cable routing racks.

Why do telecom operators need EMS?

Telecom networks today are intricate setups made up of various network elements (NEs), databases, and management layers that enable smooth communication. To handle this complexity, telecom operators depend on Element Management Systems (EMS), which play a vital role in the Operations

Support System (OSS) hierarchy.

What is a typical communication equipment room (ground base station)?

Fig. 2. Layout of the typical communication room (Ground base station). 2.1.2. Role of Each Component The main forms of the communication equipment room are civil construction room, color-coated steel room [33, 34], and integrated (container) room.

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