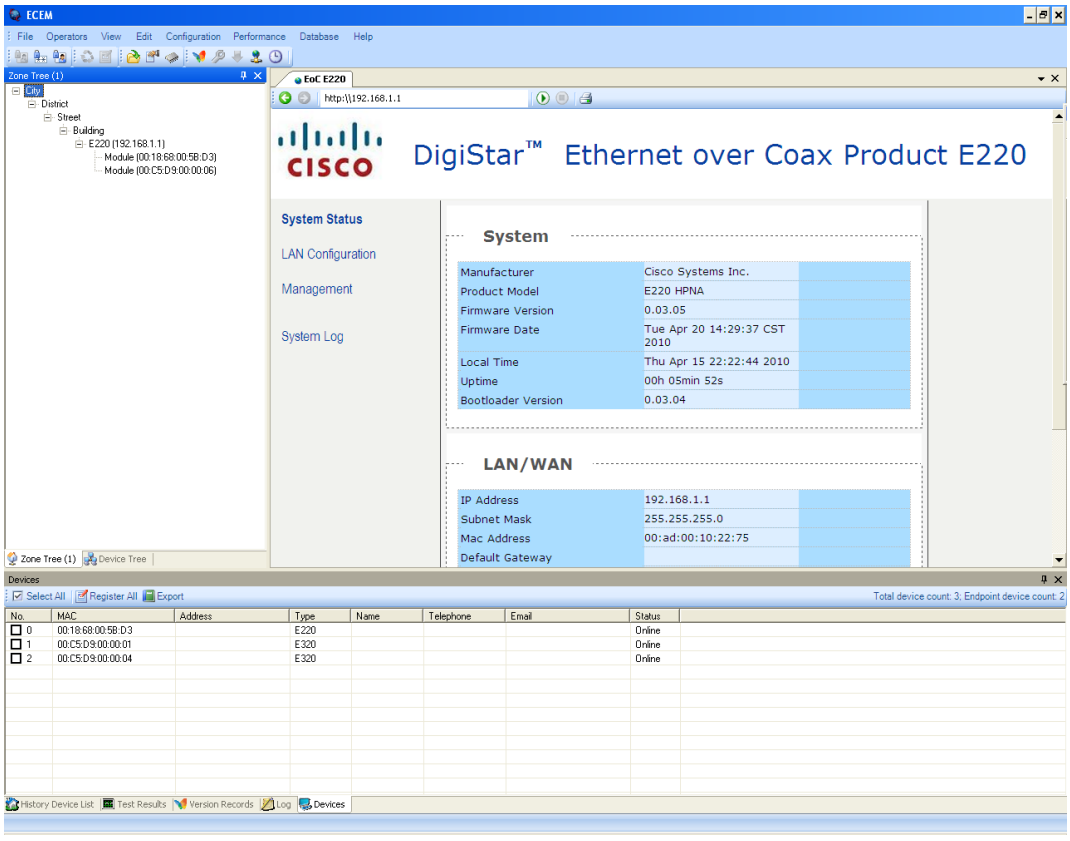
DigiStar Ethernet over Coax (EoC) system, ECEM

The DigiStar Ethernet over Coax (EoC) system is designed to combine a CATV signal with Ethernet data for transmission to a subscriber's home through the existing coax access network.

With Ethernet data delivered to the building, the DigiStar EoC system meets the IP interactive service requirement of cable operators for multiple dwelling unit (MDU) applications. The DigiStar EoC system fully supports Video on Demand (VoD) and IPTV services. The EoC system also allows for subscriber service differentiation through rate limiting.

The Ethernet over Coax Element Management (ECEM) System can remotely manage and monitor all EoC aggregation points (APs) and end points (EPs) in an EoC network. With remote SNMP-based management, ECEM can monitor device status, configure device parameters, and upgrade firmware. The ECEM will analyze device performance in the network to reduce maintenance cost and improve network efficiency.



Features

- Runs on Windows computer or server
- SNMP-based management
- Supports user information, EoC AP, and EP device database management
- Configuration Management of rate limit, access control, and VLAN
- Adding and deleting of EoC devices
- Remote firmware upgrades
- Remote monitoring of device status, hardware version, and firmware version
- Real-time or periodic performance monitoring of EoC AP and EP devices
- Generates report and chart analysis for performance monitoring

Application Benefits

ECEM offers complete management of all AP and EP devices in the EoC system.

A General Management Platform

A large number of devices (AP and EP) in an EoC system may be deployed in different MDUs or areas. ECEM is designed to manage all AP and EP devices in an EoC system with user friendly graphic interface.

Comprehensive Device Management

Each AP device contains one or two HPNA modules. By managing the module, all EPs linked to the module can be viewed and managed accordingly. The connection status is identified so that users can easily recognize EoC device status.

Online Configuration and Testing

ECEM monitors device status and data flow. Online performance tests can also confirm the performance of online devices, identify failed devices, and locate device degradation. Device reset allows the operator to perform troubleshooting remotely.

Online Configuration and Upgrading

ECEM can remotely configure device parameters and upgrade firmware to reduce the need for onsite maintenance and upgrades.

Performance Evaluation

With SQL Server database, ECEM can save records of device performance tests and data flow. Users can create different type of reports or charts to analyze the performance and communication activities of the devices.

Open Standards

ECEM is an SNMP-based management system.

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