mobileAPI

CPEtouch - Customer Premises Equipment management solution

CPEtouch - innovative CPE management solution for simplified network administration on LTE/5G

As the demand for mobile data services continues to grow, LTE/5G networks are becoming increasingly complex to manage. The deployment of small cells, heterogeneous networks, and multiple carrier aggregation techniques, all contribute to the need for more efficient management of Customer Premises Equipment (CPE) in LTE/5G networks. As a result, CPE management software is becoming increasingly important for LTE network operators to optimize their network performance, improve customer experience and reduce operational costs.

About CPEtouch solution

CPEtouch in brief

CPEtouch is an innovative CPE management software designed to provide a solution to the problems associated with managing CPEs on LTE/5G networks. The software is designed to offer a simple, efficient, and user-friendly way of managing CPEs. The system is built to work with L3 CPE which LTE/5G as a WAN. CPEtouch software is designed to make it easier for network administrators to manage the different devices on the network by providing a central management system that is easy to use and provides real-time updates on device performance.

CPEtouch software is designed to offer a comprehensive solution to the challenges associated with managing CPEs. Key features of the software are:
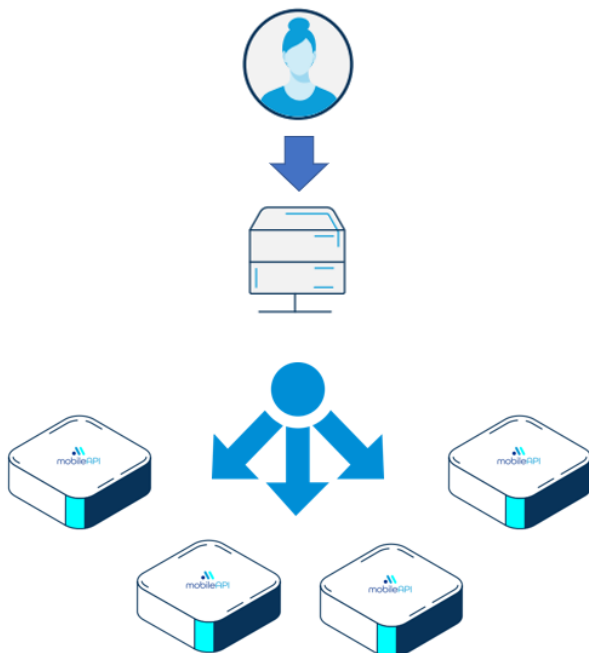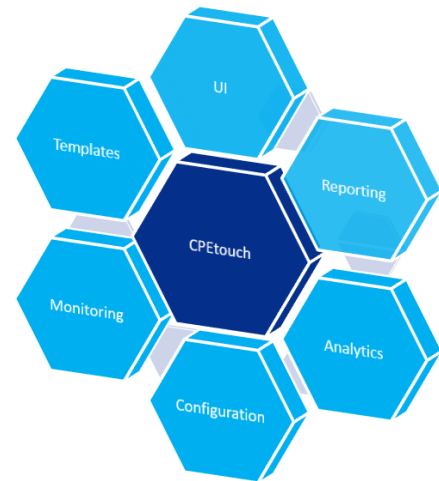
• Centralized Management System: The software offers a central management system that allows network administrators to control CPEs remotely. This feature eliminates the need for physical access to the CPEs, which can be time-consuming and expensive, especially in distributed industrial LTE networks.

• Real-time Monitoring: CPEtouch provides real-time monitoring of CPE performance. The system alerts network administrators in case of any issues with the devices, allowing them to take immediate action. Data collectors can be set up to gather device performance data and alarms over a variety of industry-standard protocols, including SNMP, Netconf/RESTconf, SSH/Telnet and others.

• Firmware and Configuration Management: The software provides a simple and efficient way of managing firmware and configuration updates for CPEs. The system ensures that all CPEs are running on the latest firmware version and have the correct configuration settings. Configuration templates for different CPE roles can be configured in CPEtouch to further automate the network operations' team time and prevent human errors during provisioning of complex L3/L2 services on CPEs. Common operations like configuration backup/restore and configuration version control are supported by CPEtouch.

• Reporting and Analytics: The software provides reporting and analytics functionality that allows network administrators to generate reports on the performance of CPEs. The system also provides insights into device usage patterns, helping network administrators to optimize the network performance.
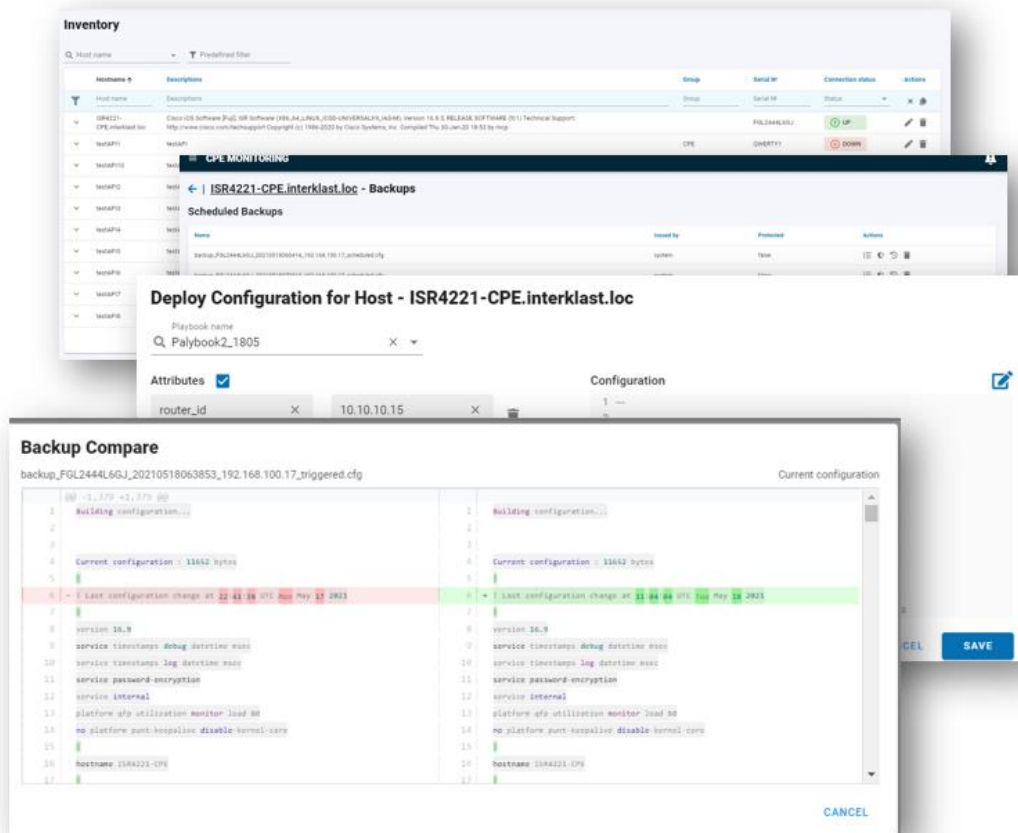
Architecture and Components

CPEtouch software is built using a client-server architecture. The server component is responsible for managing the CPEs and providing real-time updates on device performance. The client component is a web-based user interface that allows network administrators to manage the devices remotely.

The server component is built using a microservices architecture. The microservices are responsible for working with different aspects of CPE management, such as firmware updates, configuration management, and device authentication. The microservices are designed to be independent, allowing them to be deployed and scaled independently.

The client component is built using a responsive web design, making it accessible from different devices. The user interface is designed to be simple and user-friendly, allowing network administrators to manage CPEs without the need for specialized technical skills.

CPEtouch software provides an innovative solution to the problems associated with managing CPEs on LTE networks. The software offers a comprehensive solution to managing different devices on the network, providing a central management system that is easy to use and provides real-time updates on device performance. The software provides a high level of security, making it easy for network administrators to authenticate devices on the network. With its comprehensive reporting and analytics features, CPEtouch software allows network administrators to optimize network performance and improve the customer experience.

For more information

Visit https://www.mobileapi.io/ to learn more about mobileAPI™ and how CPEtouch simplifies CPE management on LTE/5G networks with centralized control, real-time monitoring, firmware/config management, reporting, analytics, and high security.

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