VSC6818SDK

CEServices Linux Application Software Package for Carrier Ethernet Switches

The CEServices (VSC6818SDK) Application Software Package is a turnkey Carrier Ethernet switch solution designed to support Microsemi's Carrier Ethernet switch devices. The software uses the Linux operating system for optimal performance and cost effective implementation.

Management is performed using a Web GUI, Command Line Interface (CLI), Simple Network Management Protocol (SNMP), or Java Script Object Notation Remote Procedure Call (JSON-RPC), running on the internal MIPS24Kec CPU.
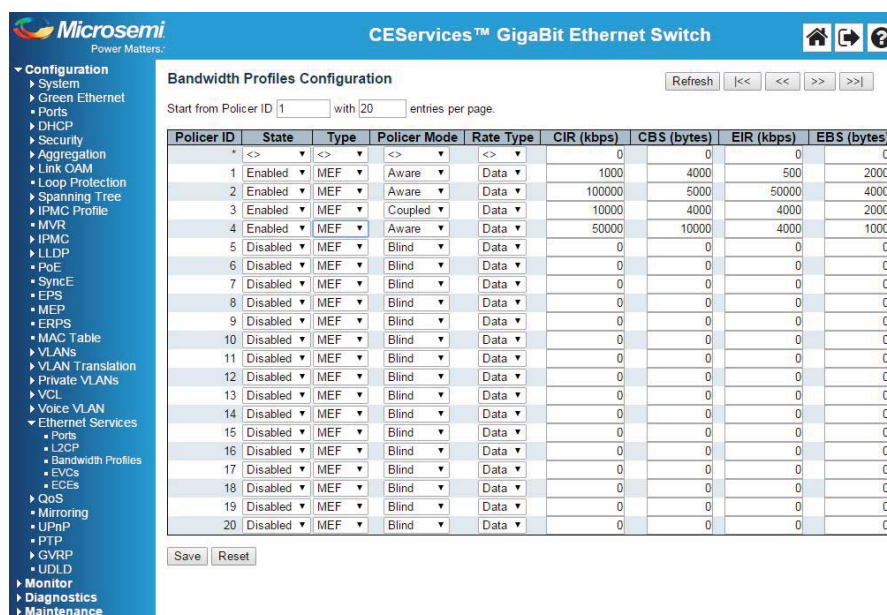
The VSC6818SDK is highly integrated with Carrier features such as service provision and policing for advanced Service Level Agreements (SLAs), Synchronous Ethernet, as well as IEEE 1588 for Ethernet packet-based accuracy timing solutions, Operations, Administration, and Maintenance (OAM) for Carrier Ethernet Service Providers.

Highlights

- Rich Layer 2 switch features with Layer 3-aware packet processing
- Service classification and MEF-compliant policing for advanced SLAs
- SyncE and IEEE 1588 solution with PTP protocol, and hardware-accurate timestamping. For high accuracy applications, a Microsemi DPLL and separately-licensed servo algorithm are required.
- Strong service concepts for advanced SLAs

Applications

- Wireless mobile backhaul
- Packet transport network
- Industrial Ethernet with high availability

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