

AFORE™ InterPort™ PBB/PBB-TE Software Module

The InterPort™ Ethernet Provider Backbone Bridges (PBB) – Provider Backbone Bridge Traffic Engineering (PBB-TE) Software Module is a portable implementation of all management and control plane components of IEEE 802.1ah and 802.1Qay. IEEE 802.1ah specifies the operation of Provider Backbone Bridges and IEEE 802.1Qay specifies protocols, procedures, and managed objects for provisioning traffic engineered paths by disabling unknown destination address forwarding, source address learning and spanning tree protocols.

The standard compliant and pre-tested InterPort PBB/PBB-TE software module enables networking equipment providers to rapidly and cost-effectively offer carrier-grade features on their next-generation Ethernet transport.

PBB/PBB-TE functionality is distinct between the edge and the core of a Provider Backbone Network (PBN). The InterPort PBB-PBT Software Module supports both PBB/PBB-TE Edge functionality and Core functionality.

Benefits:

- Up to 50% time to market reduction
- 25 to 35% savings in development costs
- Pre-tested software modules minimize project risks
- Integrated solution delivery by AFORE R&D design services
- Portable to any OS and hardware platform
- Accelerates failure recovery

Features:

- Complete slow path implementation of PBB and PBT
- Supports all service attributes specified in PBB/PBT
- Includes a complete set of Application Programming Interfaces (APIs)
- Easy integration with Ethernet OAM, services and other software modules
- Easy integration with different types of data path and system platform

Features

The InterPort PBB-PBB-TE Software Module includes a complete set of Application Programming Interfaces (APIs) to implement control plane components as defined by the standards.

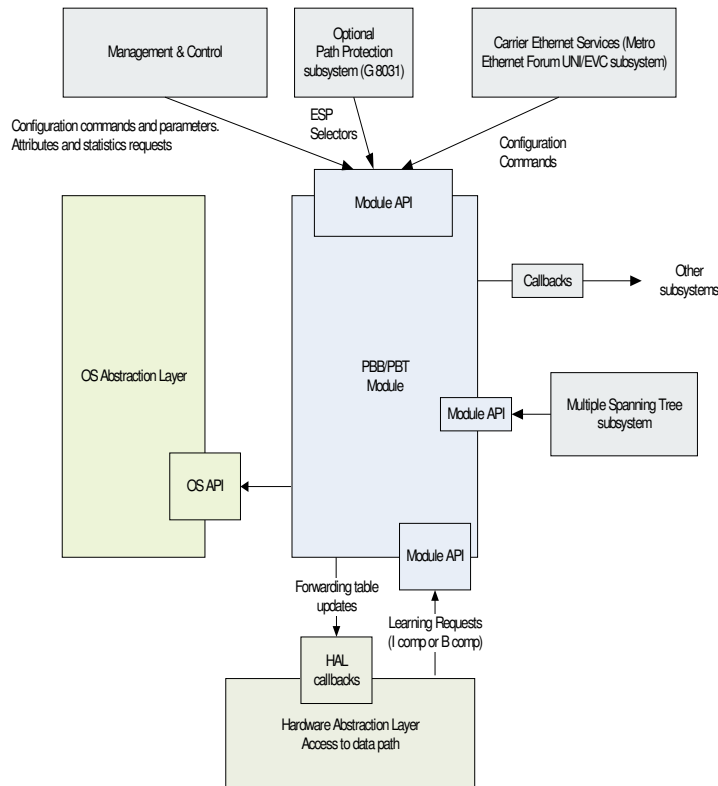
Feature	InterPort™ PBB-PBT Software
Support PBB/PBB-TE and PBB-only operations of Provider Backbone Edge Bridge	Yes
Support PBB/PBB-TE and PBB-only operations of Provider Backbone Core Bridge	Yes
Support I-component, B-component, and combination of I/B-components	Yes
Support full I-component learning with per I-VLAN learning table; support full B-component learning	Yes
Support independent B-DA Mac Addresses per PIP interface and distinct B-DA for multicast and unknown multicast traffic	Yes
Support Virtual Instance Port (VIP) and Provider Instance Port (PIP)	Yes
Support EVC, ESP and ESP Selector for Path Protection	Yes
MIB attributes based Managed objects	Yes

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Architecture

InterPort's PBB-PBB-TE software module has well defined interfaces including OS abstraction APIs, Hardware Abstraction Layer (HAL) callbacks and APIs to management and control layer software. These APIs enable portability to various platforms using different operating systems and different data plane designs whether FPGA, network processor or Ethernet silicon based.



Deliverables

- Source code in C
- Programmer's Reference Guide
- Porting Guide

About AFORE Solutions

AFORE is a leading provider of innovative technology solutions for network equipment providers spanning both wireline and wireless network infrastructures and applications. AFORE's solutions are based on advanced design capabilities, system expertise and InterPort™ software technology for Carrier Ethernet, Wireless Backhaul, Broadband Access and Enterprise Backbone networks. Our unique blend of technical expertise and Intellectual Property building blocks enables Service Provider and Enterprise focused network equipment providers to accelerate innovation and deployment of differentiated solutions. Visit: www.aforesolutions.com. *Bringing Network Systems to Life™*

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