



A

ABR Available Bit Rate is a Class of Service defined for ATM connections by the ATM Forum. Devices using ABR are guaranteed no more than a certain rate of throughput. This rate dynamically changes and the current value is relayed to the sending device by way of Resource Management (RM) cells.

B

BCC The switch control card in the BPX is the Broadband Control Card, which has a 68040 processor.

BPX switch The Broadband Packet Exchange (BPX) is Cisco's high-end ATM switch developed for the service provider market. The BPX 8600 series switch is a carrier-quality switch, with trunk and CPU hot-standby redundancy.

BXM The Broadband Switch Module (BXM) cards are ATM port cards for the BPX switch that use the Monarch chip set.

C

Cell bus The cell bus in the MGX 8230 is the way that the service modules exchange data with the switching fabric on the PXM.

CiscoView GUI-based device-management software application that provides dynamic status, statistics, and comprehensive configuration information for Cisco internetworking products, such as the MGX 8230, or IGX switch or BPX switch.

Cisco WAN Manager The Cisco WAN Manager (CWM) is the network management application for the Cisco wide area switches, such as the BPX switch or the IGX switch. CWM was previously known as StrataView Plus.

Class of Service (CoS) Buffer A buffer or queue which serves connections with similar QoS requirements.

Class of Service (CoS) Buffer Descriptor Template A component of a Service Class Template that contains Class of Service Buffer configurations indexed by CosB number. Note: A Qbin is a platform-specific (BXM in this case) instance of the more general Class of Service Buffer (or CosB).

C**ComBus**

The ComBus is the BPX's internal messaging bus.

Community

In the context of SNMP, a relationship between an agent and a set of SNMP managers that defines security characteristics. The community concept is a local one, defined at the agent. The agent establishes one community for each desired combination of authentication, access control, and proxy characteristics. Each community is given a unique (within this agent) community name, and the management stations within that community are provided with and must employ the community name in all get and set operations. The agent may establish a number of communities, with overlapping management station membership.

E**Enterprise MIB**

A MIB module defined in the enterprise-specific portion of the Internet management space

F**Feeder**

A feeder is a small switch which acts as an extension shelf, typically with lower-bandwidth interfaces, for a larger switch. The larger switch is referred to as the Routing Node for the Feeder(s). The MGX 8230 acts as a feeder to the IGX 8400 series switch.

I**IGX switch**

The Cisco IGX 8400 series wide area switch designed to provide backbone for enterprise data, voice, fax, and video applications. The Cisco IGX switch was formerly referred to as the Cisco StrataCom IGX switch.

M**Managed device**

A device containing a network management agent implementation.

MGX 8230

An 7-slot chassis build with MGX 8850 style architecture that currently is used as a feeder shelf for the IGX. Used as a an IGX feeder, the MGX 8230 supports MGX 8850/MGX 8250 service modules.

MIB

Management Information Base, a structured set of data variables, called objects, in which each variable represents some resource to be managed.

MIB-II

Internet-standard MIB, RFC 1213

P

PXM Processor Switch Module. The processor card used in MGX 8850 series switches. The PXM is the processor used in the MGX 8230 product. Although functionally equivalent to a PXM, the PXM is not interchangeable with a PXM and will not fit in an MGX 8850 card slot.

Q

Qbin A Qbin is a platform-specific (BXM in this case) instance of the more general Class of Service Buffer (or CosB).

R

Routing Node In tiered networks terminology, a Routing Node is a larger switch to which one or more feeders or controllers are attached. The IGX switch serves as the routing node for an MGX 8230 feeder.

S

SNMP Simple Network Management Protocol.

U

UBR Unspecified Bit Rate is a Class of Service for ATM networks defined by the ATM Forum. Traffic in the UBR class is not guaranteed any particular throughput or delay performance. In this regard, UBR is similar to “traditional” IP service.

Uplink back card The back card that mates with an PXM and provides ATM trunking. The MGX 8230 supports only an OC-3 uplink back card.

User interface back card The back card (PXM-UI) that mates with the PXM and provides interfaces for control or maintenance terminals, LAN connections, T1 or E1 clock inputs, and alarm outputs.

V

Virtual Switch Interface See VSI.

VSI Virtual Switch Interface is a master/slave protocol that allows Cisco WAN switches, such as the BPX 8600 series switch or the MGX 8850/8250 node, to be controlled by more than one network application. MPLS, or AutoRoute are examples of network applications.

VSI Controller A controller, such as a Tag Switch Controller, which controls a switch using the VSI.

V**VSI Master**

A VSI Master process implementing the master side of the VSI protocol in a VSI Controller. Sometimes the whole VSI Controller might be referred to as a “VSI Master,” but this is not strictly correct.

VSI Platform

A VSI Platform is a switch with one or more VSI Slaves allowing connections to be set up using the VSI.

VSI Slave

A VSI Slave process implementing the slave side of the VSI protocol within a VSI Platform. Sometimes a whole VSI Platform might be referred to as a “VSI Slave,” but this is not strictly correct.