

Proposed EVB TLV

v2

March 4, 2010

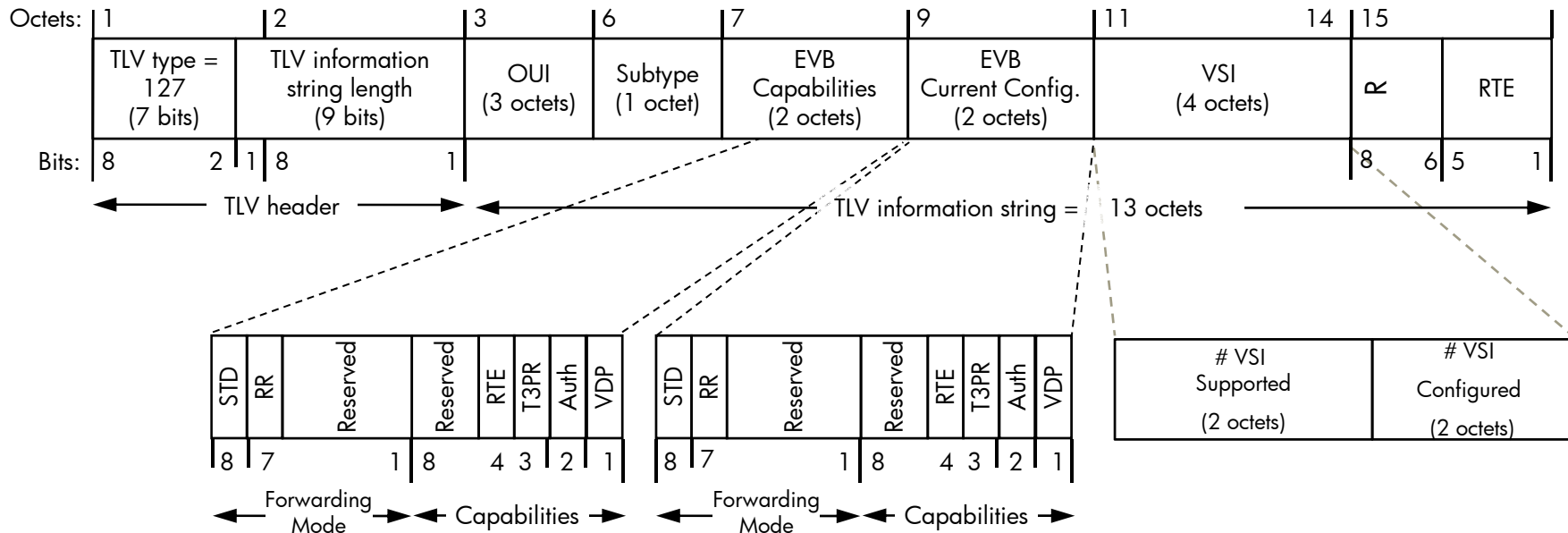
Contributing Authors

Company	Contacts
BNT	Daya Kamath
BNT	Jay Kidambi
BNT	Vijoy Pandey
Broadcom	Uri Elzur
Brocade	Anoop Ghanwani
Emulex	Chait Tumuluri
HP	Paul Bottroff
HP	Paul Congdon
HP	Chuck Hudson
HP	Michael Krause
IBM	Vivek Kashyap
IBM	Renato Recio
IBM	Rakesh Sharma
Juniper	Srikanth Kilaru
QLogic	Manoj Wadekar

Summary of Proposed EVB TLV

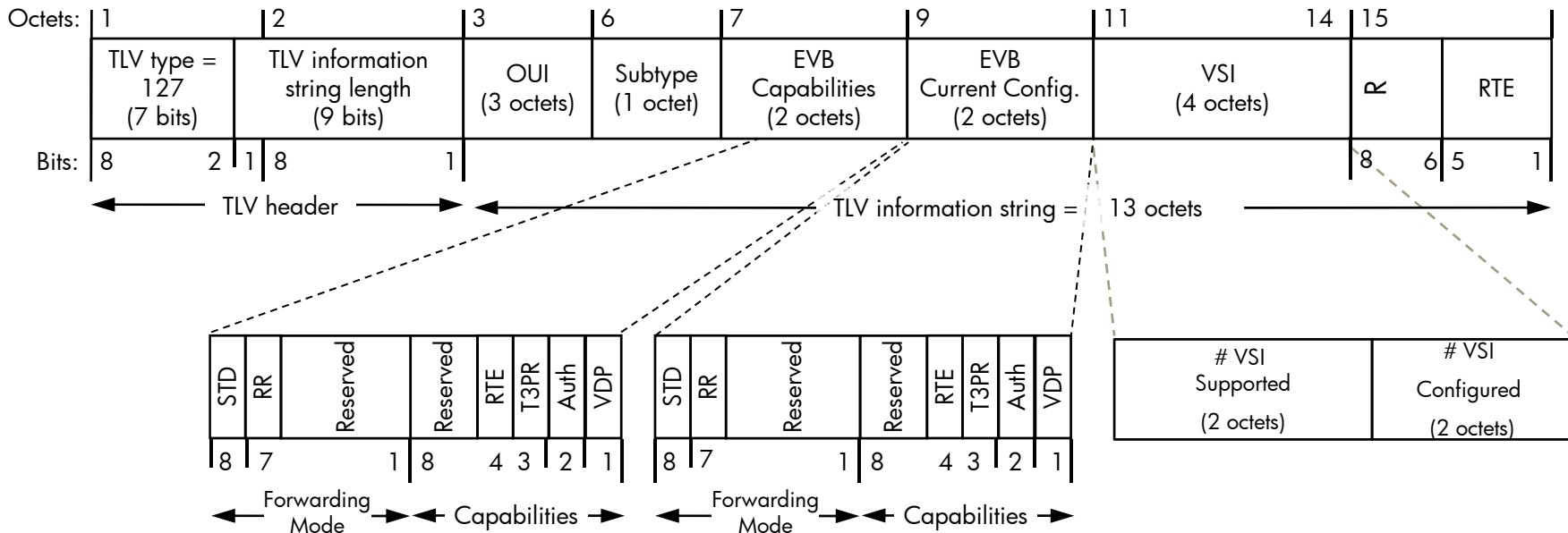
- Advertise a station or bridge's EVB functional and resource capabilities
- Activate common functional capabilities
- Reduce resource capabilities to a maximum common value

Proposed EVB TLV (1)



- EVB Capabilities - Describes EVB capabilities that can be supported by the sender. Includes port forwarding modes and other capabilities.
- EVB Current Configuration - Identifies the EVB capabilities that are currently enabled by the sender. (Only one port forwarding mode may be selected)
 - Forwarding Mode
 - Standard 802.1Q forwarding
 - Reflective Relay
 - Capabilities Bits
 - VSI Discovery Protocol (VDP)
 - 802.1X Authentication Required
 - T3PR Supported
 - RTE (Retransmission Timer Exponent)

Proposed EVB TLV (2)



- Number of VSI Supported – Identifies the number of VSI that are supported by the sender. It may indicate limits imposed by buffering, ACL rules, etc.
- Number of VSI configured identifies the of VSI currently in use.
 - From the station, it indicates the number of resources that should be reserved by the bridge.
 - From the bridge, it indicates the number of active Virtual Station Interfaces (VSI) discovered / configured
- Retransmission Exponent (RTE)
 - RTG (Retransmission Granularity) = 10 us
 - Retransmission Multiplier (RTM) = 2^{RTE}
 - The ULP retransmission timer = RTM * RTG
 - Both sides agree to the largest common value

EVB Discovery TLV Usage

Station (e.g., Hypervisor)

Bridge

