



PRODUCT DOCUMENTATION

BTI SA-805 BTI SA-821 BTI SA-822 Release Notes 2.2.1

Build 4

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Contents

Customer Service and Technical Support	iv
1.0 BTI SA-805 BTI SA-821 BTI SA-822 operational behavior	1-1
1.1 BTI SA-805 BTI SA-821 BTI SA-822 features introduced in this release	1-2
1.2 BTI SA-805 BTI SA-821 BTI SA-822 and BTI SA-810, PVX, release compatibility	1-12
1.3 BTI SA-805 BTI SA-821 BTI SA-822 and ProNx Service Manager software compatibility	1-14
1.4 BTI SA-805 BTI SA-821 BTI SA-822 interoperability consideration	1-15
2.0 BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations	2-1
2.1 BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations	2-2
3.0 BTI SA-805 BTI SA-821 BTI SA-822 resolved issues	3-1
3.1 BTI SA-805 BTI SA-821 BTI SA-822 resolved issues	3-2
4.0 BTI SA-805 BTI SA-821 BTI SA-822 known issues	4-1
4.1 BTI SA-805 BTI SA-821 BTI SA-822 known issues	4-2

Customer Service and Technical Support

Obtaining documentation

The following table provides information about obtaining documentation for the BTI products.

World Wide Web	The support portal on the www.btisystems.com web site provides access to technical documentation and product information to registered users. Contact your account manager for more information or for access to the support portal.
CD	BTI user documentation is available on the product documentation CD.
Ordering documentation	Customers can order product documentation through their local account representative.

Requesting Technical Support

For technical support, call your local support representative or 1-866-431-4967 (North America).

If a licensed BTI reseller supplied your equipment, please call your reseller's support line. If you are a registered BTI customer, you can also access support services through the BTI customer portal at www.btisystems.com.

Document Identification

BTI SA-805, BTI SA-821, BTI SA-822 Release Notes 2.2.1: V01

Abstract

This document is designed to provide information related to the current release.

Publication History

Release	4.1, "BTI SA-805 BTI SA-821 BTI SA-822 known issues"	3.1, "BTI SA-805 BTI SA-821 BTI SA-822 resolved issues"	2.1, "BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations"
1.1.1 V01	35863 ©)	33923 (L)	36252
	36136 ©)	34014 (L)	35387 / 34479
	33831	36198 (L)	35260
	35135 ©)		35566
1.1.1 V02	Section 1.5 Interoperability Consideration incorporated.		
1.1.2 V01		36559	36547
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		36766	34905
		36612	34586
		36610	

Release	4.1, “BTI SA-805 BTI SA-821 BTI SA-822 known issues”	3.1, “ BTI SA-805 BTI SA-821 BTI SA-822 resolved issues”	2.1, “BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations”
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	36134	34793	35863
	34185 ®)	37707	36136
	36203	39280 ®)	36135
	39279 ®)		33923
2.1.1 V01	41070	41091	39910
	40922	39949	39318
	41473	35331	34185
	39059		39280
	40630		39279
2.2.1 V01	40999	39949	36134
	41968	36134	42031
	34783	41976	42238
	42528	41638	38671
	39659	42235	

1.0 BTI SA-805 BTI SA-821 BTI SA-822 operational behavior

This section covers the following topics:

- 1.1, “BTI SA-805 BTI SA-821 BTI SA-822 features introduced in this release”
- 1.2, “ BTI SA-805 BTI SA-821 BTI SA-822 and BTI SA-810, PVX, release compatibility ”
- 1.3, “BTI SA-805 BTI SA-821 BTI SA-822 and ProNx Service Manager software compatibility”
- 1.4, “BTI SA-805 BTI SA-821 BTI SA-822 interoperability consideration”

1.1 BTI SA-805 BTI SA-821 BTI SA-822 features introduced in this release

Features introduced in release 2.2.1

The following summarizes the features introduced in Release 2.2.1:

- The introduction of 10G Multi-Rate / Multi-Protocol Tunable DWDM 80 km SFP+ Transceiver (BP3AM6TL). The following applies:
 - The transceiver is provisionable on the BTI SA-805 on line interfaces and supports 10GE LAN PHY on 96 channels in compliance with ITU Wavelength Plan for C Band Tunable DWDM Transceivers
 - The following link type and span is supported:
 - Link Length for 9/125um single mode fiber: 80 km - ER
 - For additional information see:
 - BTI SA-805 Carrier Ethernet Switch Installation and System Configuration Guide:
 - BTI SA-805, BTI SA-821, BTI SA-822 Carrier Ethernet Switch Command Line Reference Guide:
- Introduces Layer 2 Control Protocol Destination MAC address encapsulation and Destination MAC Tunnel. For additional information see BTI SA-805, BTI SA-821, BTI SA-822 Carrier Ethernet Switch Command Line Reference Guide Chapter 6:
 - l2protocol encapsulation (enable|disable)
 - l2protocol tunnel-dmac
 - show l2protocol tunnel-dmac
- Introduces Link Aggregation Group (LAG) load balance. For additional information see BTI SA-805, BTI SA-821, BTI SA-822 Carrier Ethernet Switch Command Line Reference Guide Chapter 11:
 - lag load-balance
 - show lag load-balance
- Introduces CVLAN tagging to IEEE1588v2 Precision Time Protocol (PTP). For additional information see BTI SA-805, BTI SA-821, BTI SA-822 Carrier Ethernet Switch Command Line Reference Guide Chapter 17:
 - ptp tagging cvlan
 - ptp g8032 tagging cvlan
- The following items have been introduced:
 - [3.1, “BTI SA-805 BTI SA-821 BTI SA-822 resolved issues”](#)
 - 39949, 42238, 36134, 42235, 41976,
 - 38671, 41638, 36134, 42031

- [4.1, “BTI SA-805 BTI SA-821 BTI SA-822 known issues”](#):
 - 40999, 41968, 34783, 42528, 41968, 39659
- [2.1, “BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations”](#)
 - 42313, 41000

Features introduced in release 2.1.1

In a UNI MLAG configuration, the Link Aggregate (LAG) is provisioned between the UNI and two separate NNIs, so that each LAG member on the UNI is connected to different nodes (Multi-chassis) within the network. The nodes provisioned in the MLAG configuration are known as the MLAG peer switches and are connected by a peer-link.

The following MLAG features are supported in this release:

- Static and LACP MLAG can be provisioned simultaneously on the switch as active or standby
- MLAG instance and MLAG members supported
- MLAG Active / Standby (A/S) mode (Active / Active mode will be supported in a future release.)
- MLAG Non-Revertive (NR) opmode (Revertive opmode will be supported in a future release.)
- MLAG shutdown
- MLAG protection switching
- MLAG local and remote IP provisioning
- MLAG peer-link provisioning
- MLAG hold time and keepalive timers
- MLAG reload-delay

Ethernet L2CP default profiles have been updated to include LACP/LLDP peer action. The slow-protocol and LLDP `discard` action has been changed to `peer` action. (In systems operating with software versions `ha805_v1.2.3` | `ha82X_v1.2.3` or lower and have a L2CP profile applied to UNI and EVC, remember to save the system configuration using the `write memory` command before upgrading to release `ha805_v2.1.1` | `ha82X_v2.1.1`.)

L2CP default profiles will not be updated in systems that have a L2CP profile configured. If required set “slow-proto” and “lldp” attribute to use L2CP protocol at the UNI interface. See the following example :

```
(config)#ethernet l2cp uni-evpl
(config-l2cp)#action 12 peer
(config-l2cp)#action 14 peer.
```

The show lag summary display has been updated to include an MLAG flag (*).

The Committed Burst Size (CBS) and Excess Burst Size (EBS) burst size of 128000 (Bytes) Max has been increased to 1250000 (Bytes) Max.

Y.1731 CCM, SOAM (linktrace, loopback) and SLA are supported. MLAG end to end service provisioning is available via PSM (R6.2).

The following table lists the key features and features introduced in the Release 2.1.1:

Note	* = New feature introduced
Note	FS = This feature was introduced in a previous release with limitations. Now it is <i>Fully Supported</i> .

Table 1-1 Key features and features introduced in this release

Features	Additional Information
Bridging	
CVLAN Translation - At UNI only	
SVLAN Translation - At E-NNI only	
802.1ad Provider bridging for E-LINE	
802.1ad Provider bridging for E-LAN	
802.1ad Provider bridging for E-ACCESS	
Forwarding Database	
MAC learning and aging	
Enable / Disable MAC learning per Port	
Enable / Disable MAC learning per VLAN	
Limit number of MAC addresses learned per VLAN	
Static MAC entries	
Broadcast, Multicast and DLF storm control	
Layer 2 Protocols	
IEEE 802.3ad link aggregation	
IEEE 802.3ad with LACP	
Multi-chassis LAG (MLAG)- static and LACP with active / standby mode and non-revertive opmode	
Layer 2 Station Loopback	
Loopbacks	
Layer 2 Station Loopback - MAC src dst swap supporting - UNI, NNI and Service Activation Test (SAT)	
Layer 2 Station Loopback - Line rate based loopback with variable frame size including jumbo frames	
Support loopback traffic from centralized test sets (EXFO, JDSU, Accedian loop, etc.)	
Loopback based upon L2 Filter MAC dst, MAC src,VLAN (Outer VLAN, Inner VLAN), Priority, EtherType, Combination of parameters	
Loopback based upon IPv4 Filter IP dst, IP src, L4 ports (TCP or UDP), IP protocol, combination of parameters	
Throughput Test - packetVX interop	
Y.1564 loopback support (interop with EXFO)	

Table 1-1 Key features and features introduced in this release (Continued)

Features	Additional Information
Ethernet Operations, Administration and Maintenance (OAM)	
IEEE 802.3ah Ethernet in the First Mile (EFM)	
Discovery	
Link Performance Monitoring	
Remote Loopback	
Critical Event	
Dying Gasp	
ITU-T Y.1731 (Connectivity Fault Management & Performance Monitoring)	
MEG, MIP and MEP	
Continuity check messages (CCM)	
Rate of CCMs (3.3ms, 10ms, 100ms, 1 Sec, 1 Min, 10 Min)	
Loopback messages (LBM)	
Loopback reply (LBR)	
Linktrace messages (LTM)	
Linktrace replies (LTR)	
Frame Delay (FD) - 2 way measurement	
Frame Delay Variation (FDV) - 2 way measurement	
Frame Loss Ratio (FLR)	
UP MEP on UNIs	
DOWN MEP on NNIs	
Support for on-demand loopback	
Support for on-demand linktrace	
Support for on-demand FD, FDV and FLR test	
RFC2544 (embedded)	* The available RFC2544 sessions are shown by the CLI command <code>show ethernet rfc2544 brief</code> . However when the Y.1564 session is created on the same MEP, the RFC2544 session does not display on the brief list. Remove the Y.1564 session, to enable the RFC2544 session to be displayed.
Throughput Test (Y.1731 Test message)	
Latency Test (Y.1731 DM)	
Frame Loss Rate test (using TST frame)	
Y.1564 Service Activation Test (SAT)	
Up to 4 sessions at the same time	
CIR Configuration Test	
EIR Configuration Test	

Table 1-1 Key features and features introduced in this release (Continued)

Features	Additional Information
Traffic Policing Configuration Test	
Service Performance Test (Aggregation Test)	
Ethernet Service Level Agreement (SLA) Statistics	
Frame Delay	
2-way Frame Delay Minimum	
2-way Frame Delay Maximum	
2-way Frame Delay Average	
2-way Frame Delay Most Recent	
Frame Delay Variation	
2-way Frame Delay Variation Minimum	
2-way Frame Delay Variation Maximum	
2-way Frame Delay Variation Average	
2-way Frame Delay Variation Most Recent	
Frame Loss Ratio	
Near-End Frame Loss Ratio	
Far-End Frame Loss Ratio	
Ethernet SLA Statistics Bins & collection	
2 x 24 hour interval for all statistics per Service	
32 x 15 minute interval for all statistics per Service (8 Hours)	
96 x 5 minute interval for all statistics per Service(8 Hours)	
120 x 1 minute interval for all statistics per Service(8 Hours)	
Performance monitoring for all statistics collected by SNMP on demand, SNMP scheduled, ftp/sftp on demand and ftp/sftp scheduled.	
Ethernet Service Statistics	
Traffic Statistics per E-Service	
Total Received Packets	
Number of bytes declared RED	
Number of bytes declared YELLOW	
Numer of bytes declared GREEN	
Received Packets Dropped	
Total Transmitted Packets	
Total Transmitted Bytes	
Traffic Rate per E-Service	
Last 5 minutes input rate per EVC Bps	
Last 5 minutes input rate per EVC pps	
Last 5 minutes output rate per EVC Bps	
Last 5 minutes output rate per EVC pps	
Utilization per E-Service	

Table 1-1 Key features and features introduced in this release (Continued)

Features	Additional Information
Last 5 minutes input link utilization rate per committed CIR %	
Last 5 minutes output link utilization rate per committed CIR %	
EVC Statistics Bins & Collection	
2 x 24 hour interval for all EVC statistics per Service	
32 x 15 minute interval for all EVC statistics per Service (8 Hours)	
96 x 5 minute interval for all EVC statistics per Service(8 Hours)	
Ethernet Advanced Features	
IEEE 802.1AB LLDP	
Protection / Rapid restoration	
ITU-T G.8031 1:1 Linear Protection	
ITU-T G.8031-2009 Revertive Mode	
ITU-T G.8031-2009 Non Revertive mode	
ITU-T G.8031 1:1 Ethernet Linear Protection Switching (Supports both software based and hardware assisted working and protection path switching)	
ITU-T G.8031 Switching time is 50ms on hardware supported automatic protection switching platforms	
ITU-T G.8031 Supports lockout, forced and manual protection switches	
ITU-T G.8031 Supports prioritized protection between Signal Fail (SF) and operator requests	
ITU-T G.8032 v2 Ethernet Ring Protection Switching (ERPS)	
ITU-T G.8032 - Revertive Mode	
ITU-T G.8032 - Non Revertive Option	
ITU-T G.8032 - Interconnected Rings	PVX interoperability with link-scan only
ITU-T G.8032 - Laddered (Sub) Rings with and without Virtual Channel Mode	
ITU-T G.8032 - Multiple Instances	
Multi Traffic-Channel per Ring Instance	
Multi Ring Instance per Physical Interface	
Protection switching based upon 3.3ms CCMs	
LAG Link Protection	
Active Standby LAG	
Ethernet Fault Propagation Shutdown (EFPD)	
Ethernet Fault Propagation Shutdown (EFPD) on EPLINE services	Interoperability with BTI SA-810 : eth-cc EFPDS must be disabled on the BTI SA-810.
Quality of Service (QoS) and Class of Service (cos)	
Per-port rate-limiting	
802.1p (Traffic Class)	
Traffic classification based on Port	

Table 1-1 Key features and features introduced in this release (Continued)

Features	Additional Information
Traffic classification based on TOS	
Traffic classification based on DSCP	
Traffic classification based on 802.1P	
Traffic classification based on 802.1Q	
Priority queues per port	
Strict Priority(SP) and Deficit Weighted Round Robin (DWRR) Scheduling	
CIR/CBS bandwidth management	
EIR/EBS bandwidth management	
Bandwidth Profiles per UNI	
Bandwidth Profiles per EVC	
Bandwidth Profiles per CoS	
Ingress Filters	
Egress Filters	
Advanced Filter (and/or for L2 and L3 combined)	
Per port Policers	
Per flow Policers	
Egress Queuing	
Egress Strict Priority	
MEF Multiple BW Profile (MBWP)	
Security	
Port mirroring - local	
ACL based on MAC Src, MAC Dst, EtherType, IP Src, IP Dst, TCP Port, UDP Port, VLAN ID, 802.1p, Port	
Filters	
UNI defaults -- UNI down, no local switching	
CPU Protection with Filters and ACLs	
Radius Client	
Command Line Interface	
CLI	
CLI via Telnet	
CLI via SSHv2	
Out-of-Band and In-Band Management	
Craft Console Port RJ-45 Serial RS-232	
Network Management Port RJ-45 Ethernet 100Mbps	
Management VLAN (CVLAN and SVLAN)	
IPv4 Management	
In Band IPv4	
Out of Band IPv4	

Table 1-1 Key features and features introduced in this release (Continued)

Features	Additional Information
Time Management	
Time Zone and Daylight Savings Time	
SNMP Interface	
SNMP v2c sets/gets/traps	
Performance Monitoring	
Layer 2 PMs per port - Rx Statistics (octets, packets, unicast, multicast, broadcast)	
Layer 2 PMs per port - TX Statistics (octets, packets, unicast, multicast, broadcast)	
Layer 2 PMs per port - Error Statistics (fragments, jumbo, FCS errors, collisions, undersize, drop events, Rx Pause, TX pause, collisions)	
Last 5 minutes input and output rate per port Bps and pps	
Last 5 minutes input and output link utilization rate per port %	
"Report SFP/SFP+ Information and Performance Temperature, Bias-Current, TX-Power and Rx-Power"	
"Set SFP/SFP+ Alarms and send SNMP traps Temperature, TX Power and Rx Power"	
RMON Groups 1	
Local SYS Log	
Remote Sys Log	
PM File transfer for Ethernet PM, E-Service PM and OAM PM	
External Clock	
Supports external clock modes t1 and e1.	<p>The default external clock-in mode is t1.</p> <p>BTI SA-821/22 does not support clock-in and clock-out mode simultaneously.</p> <p>BTI SA-805, BTI SA-821, BTI SA-822 does not support the CLI command <code>no ext clk-out</code>.</p>
SyncE	
ITU-T G.8261: Timing and synchronization aspects in packet network	
ITU-T G.8262: Timing characteristics of Synchronous Ethernet equipment slave clock	
ITU-T G.8264: Distribution of timing through packet networks	
ITU-T G.781: Synchronization layer functions	
SyncE with Ethernet Synchronization Messaging Channel (ESMC) support	
Synchronization Status Messages (SSM)	
Support up to two SyncE reference inputs for primary and secondary	
1588v2	
ITU-T G.8261: Timing and synchronization aspects in packet network	

Table 1-1 Key features and features introduced in this release (Continued)

Features	Additional Information
	1588v2 Ordinary Clock is supported. Boundary and Transparent Clock are not supported in this release. Sync and delay_req message are supported up to 64 PTP packets per second on the Ordinary Clock Servo.
Best Master Clock Algorithm	
Support single reference input for primary and secondary	Recommended configuration when provisioning 1588v2 is to set 1588v2 as the "primary" clock and set the secondary clock to "none".
Slave Clock OC	
Provides 1PPS	
Provides ToD	
ToD Displayed via CLI	
ToD Retrievable via SNMP	
Software upgrades and file management	
Upgrade Firmware / OS Management	
Upgrade BIOS Management	
TFTP Client (tftp)	
FTP Client (ftp)	
Telnet Client (telnet)	
Telnet Server (telnet)	
Standard MIBs	
RFC1213 MIB-II	
RFC3418 MIB for SNMP	
RFC2863 Interface Group	
RFC1643 Ethernet-like Interface	
RFC4188 Bridge	
RFC2922 Physical Topology	
LLDP(802.1AB) MIB	
MEF defined E-LINE & E-LAN (MEF 40 UNI/NNI MIBs)	
MEF defined SOAM FM (MEF 31/31.0.1 FM MIBs)	
MEF defined SOAM PM (MEF36 PM MIBs)	
Industry Certifications	
MEF CE 2.0 EPL	
MEF CE 2.0 EVPL	
MEF CE 2.0 EP-LAN	

Table 1-1 Key features and features introduced in this release (Continued)

Features	Additional Information
MEF CE 2.0 EVP-LAN	
Software Image	
Software image	BTI SA-805 and BTI SA-821/822 use different software images. If an incorrect image is used an error message is displayed and the invalid image is removed.

Table 1-2 ProNX Service Manager (PSM) and proNX SLA Portal supported features

Features	Additional Information
PSM Release 6.3.0 - CA	
Nodal Management - FCAPS	Basic discovery and alarming, system settings, inventory, shelf view, scripts, software upgrade, database backup/restore
NE discovery & Alarms	
System info and settings, inventory	
Software upgrades, db backup/restore	LLDP and network topology, E-Service provisioning (a-z).
Network Topology	
E-Services (and ERPS Visualization)	SLA and Performance Monitoring statistic support.
ERPS visualization & details	
A-Z circuit provisioning and bandwidth profile application	
Y.1731 CFM	
CCM Auto-configuration	
SLA Initiator Responder Pair configuration	
Real time PMs (port, soam)	
proNX SLA Portal	
SLA Portal Release 2.3.0 - CA	
Circuit Auto-discovery	
Metric Collection and Reporting	
Dynamic Bandwidth Provisioning	

1.2 BTI SA-805 BTI SA-821 BTI SA-822 and BTI SA-810, PVX, release compatibility

For additional upgrading procedure see the upgrade procedure in the *BTI SA-805 BTI SA-821 BTI SA-822 in the Installation and System Configuration Guide*.

Important If a system software upgrade or downgrade is not performed correctly, it will result in a nonfunctional system.

Note Software image files are only available through support portal.

BTI SA-805 BTI SA-821 BTI SA-822 software image files

Table 1-3 Image files for Release 2.2.1

System	Image Release 2.2.1
BTI SA-805	ha805_v2.2.1Build4.img
BTI SA-821	ha82X_v2.2.1Build4.img
BTI SA-822	ha82X_v2.2.1Build4.img

Table 1-4 Image files for Release 2.1.1

System	Image Release 2.1.1
BTI SA-805	ha805_v2.1.1Build15.img
BTI SA-821	ha82X_v2.1.1Build15.img
BTI SA-822	ha82X_v2.1.1Build15.img

Table 1-5 Image files for Release 1.2.3

System	Image Release 1.2.3
BTI SA-805	ha805_v1.2.3Build11.img
BTI SA-821	ha82X_v1.2.3Build11.img
BTI SA-822	ha82X_v1.2.3Build11.img

Table 1-6 Image files for Release 1.1.2

System	Image Release 1.1.2
BTI SA-805	ha805_v1.1.2Build2.img
BTI SA-821	ha82X_v1.1.2Build2.img
BTI SA-822	ha82X_v1.1.2Build2.img

Table 1-7 Image files for Release 1.1.1

System	Image Release 1.1.1
BTI SA-805	ha805_v1.1.1Build13.img

Table 1-7 Image files for Release 1.1.1 (Continued)

System	Image Release 1.1.1
BTI SA-821	ha82X_v1.1.1Build13.img
BTI SA-822	ha82X_v1.1.1Build13.img

Table 1-8 Image files for Release 1.1.0

System	Image Release 1.1.0
BTI SA-805	ha805_v1.1.0Build14.img

BTI SA-805 BTI SA-821 BTI SA-822, BTI SA-810 and PVX interoperability

BTI SA-805 BTI SA-821 BTI SA-822 release 2.2.1 has been tested for interoperability with:

- BTI SA-810 1.2.6 Build 5
- PVX 13.2.0 C001

1.3 BTI SA-805 BTI SA-821 BTI SA-822 and ProNx Service Manager software compatibility

Table 1-9 proNX Service Manager compatibility matrix for BTI SA-805 BTI SA-821 BTI SA-822

BTI 700 Series Release		PSM		proNX SLA Portal
		PSM Nodal Management Support	PSM Service Provisioning	
R1.1.0	BTI SA-805	Supported from R5.2	Supported from R5.3	Supported from R2.3.0
R1.1.1	BTI SA-805	Supported from R5.3	Supported from R5.3	Supported from R2.3.0
R1.1.2	BTI SA-821/822	Supported from R5.3	Supported from R5.4	Supported from R2.3.0
R1.2.3	BTI SA-805/821/ 822	Supported from R6.0	Supported from R6.0	Supported from R2.3.0
R2.1.1	BTI SA-805/821/ 822	Supported from R6.2	Supported from R6.2	Supported from R2.3.0
R2.2.1	BTI SA-805/821/ 822	Supported from R6.3	Supported from R6.3	Supported from R2.3.0

For information about proNX Service Manager, refer to the product guides and Release Notes for each software application, which are available on the support portal at www.btisystems.com.

1.4 BTI SA-805 BTI SA-821 BTI SA-822 interoperability consideration

BTI SA-805 BTI SA-821 BTI SA-822 10GbE is compliant with IEEE 802.3 10GBASE-R specifications. However, similar to other networking technologies and standards, interoperability risks with other devices exist. It is recommended that the product is tested with peering devices for interoperability prior to deployment.

Interoperability with BTI SA-810

When provisioning Ethernet Fault Propagation Shutdown (EFPSD) on EPLINE services, `eth-cc EFPSD` must be disabled on the BTI SA-810.

2.0 BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations

This section covers the following topics:

- 2.1, “BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations”

2.1 BTI SA-805 BTI SA-821 BTI SA-822 hardware and software known limitations

Table 2-1 BTI SA-805 BTI SA-821 BTI SA-822 known hardware and software limitations

ID	Description	Affects
Release 2.2.1		
42313	Description: When performing the command <code>ethernet soam meg megid (mgid)(level <0-7> vlan <1-4094> ccm-interval (300hz 10ms 100ms 1sec 10sec 1min 10min) meg-type (primary-vid string integer icc-based))</code> the Continuity Check Message (CCM) interval option of 300Hz should be displayed as 3.3ms.	All
41000	Description: BTI SA-805, BTI SA-821 and BTI SA-822 does not support Delay Measurement Response (DMR) function. If BTI SA-810 or PVX is the Delay Measurement (DM) initiator, the rmep performance monitoring will include the CPU processing time of the BTI SA-805, BTI SA-821 or BTI SA-822 Delay Measurement Message (DMM).	All
Release 2.1.1		
40731	Description: If BTI SA-810 / PVX is the Service Level Agreement (SLA) initiator for all interface types, the Delay Measurement (DM) result is not available. Workaround: Use BTI SA-805, BTI SA-821, BTI SA-822 as SLA initiator for SLA interoperability with PVX or BTI SA-810.	All
36416	Description: The LOC (Loss of Continuity) and RDI (Remote Defect Indication) of the UP MEP located in a LAG port is not reported if the LAG port is down. Workaround: n/a.	All
36198	Description: Continuity Check Message (CCM) on the UNI LAG stops transmitting when the LAG interface is down. Workaround: When LAG goes down, ensure MEP LAG is up for CCM to remain transmitting.	All
Release 1.2.3		
39030	Description: Before release 1.2, the system supported multiple VLAN-IP address bundling. In release 1.2 single VLAN-IP address bundling is now supported. In-band provisioning may be lost if un-used VLAN-IP address bundling is not removed before upgrading to R1.2. Workaround: If not used as in-band management, remove IP address bundling from non-in-band VLAN before upgrading to R.1.2.3.	All
33923	Description: There is no ACL rule which can filter ingress c-VLAN at a UNI port. Workaround: n/a.	All
34014	Description: The port policer function is not accurate when the value is set under 2Mbps. Workaround: Use a value that is higher than 2Mbps.	All
37905	Description: Bandwidth Profile per Class of Service (CoS) does not function when the inner Tag Protocol ID (TPID) is not 8100. Workaround: n/a.	All

3.0 BTI SA-805 BTI SA-821 BTI SA-822 resolved issues

This section covers the following topics:

- 3.1, “BTI SA-805 BTI SA-821 BTI SA-822 resolved issues”

3.1 BTI SA-805 BTI SA-821 BTI SA-822 resolved issues

Table 3-1 Resolved BTI SA-805 BTI SA-821 BTI SA-822 issues

ID	Description	Affects
Release 2.2.1		
39949	Description: The head-end BTI SA-805, BTI SA-821/22 cannot be accessed when using in-band management when a different VLAN management VID exists for outer and inner VLAN.	All
41976	Description: The latency background traffic status was not displayed in the CLI show ethernet RFC2544 result.	All
41638	Description: The RFC2544 throughput test between the UNI and UNI Lag terminated before the test completion.	All
36134	Description: The protection switching on LAG interfaces in a G8032 Ethernet Ring Protection Switching (ERPS) configuration when using Linkscan and Y1731 should be improved to meet protection switching requirements.	All
42031	Description: If the user performed the RFC2544 test using PSM and SNMP without provisioning the Y.1731 (this would be classified as a human error, as the Y.1731 should be provisioned before the RFC2544 test is initialized) the switch will not be able to be accessed using PSM and the CLI. A solution is required to allow the user to correct a human error.	All
42238	Description: When a Service OAM (SOAM) fault is raised against a Remote MEP the Remote MEP MAC address is not displayed when the command <code>show ethernet soam maintenance-point</code> is performed.	All
42235	Description: On occasions the copper SFP transceiver does not transmit or receive traffic after it has been removed and re-installed. Recommendation: Wait 3 seconds after removing or installing copper SFPs to enable the system to detect and update the interface change. Failure to observe the wait time may result in no transmitted or received traffic on that interface. To correct the fault the user may be required to perform the CLI commands to <code>shutdown</code> and <code>no shutdown</code> the interface to restore traffic.	All
38671	Description: When the primary clock source was provisioned to 1588v2 and the secondary clock source provisioned as SyncE, the clock source did not switch to SyncE when 1588v2 was disabled.	
Release 2.1.1		
39910	Description: Adding or removing C-VLAN from an EVPL impacts the running service.	BTI SA-821
39318	Description: The time zone for IST (India Standard Time) should be GMT+5.5h.	All
34185	Description: MIP auto-provisioning feature is not supported.	All
39280	Description: RTU (Right To Use) license provisioning data should not be preserved after "system factory-default" reset.	BTI SA-822
39279	Description: The range of configurable RTU (Right To Use) license settings requires to be changed from "4-12" to "2-12."	BTI SA-822
Release 1.2.3		
38699	Description: R1.1.2 supports both generations of 805/821/822 base system hardware. The newer hardware version is signified by part number with the "-I02" suffix (Issue 02) and hardware revision 2. When R1.1.2 is installed on a new base system, the PEC	All

Table 3-1 Resolved BTI SA-805 BTI SA-821 BTI SA-822 issues (Continued)

ID	Description	Affects
	(Product Engineering Code) section in the FRU information does not display the "-I02" suffix. e.g. BT7A05AA-I02 will continue to be displayed as BT7A05AA. No impact to the functioning of the units.	
35863	Description: SLA pair cannot be set up between LAG UNIs via PSM/SNMP. SLA pairs can still be set up between GE/XGE UNIs via PSM/SNMP.	All
36136	Description: Cannot add or remove LAG members after ERP is provisioned on the LAG ports.	All
36135	Description: LAG min member is not supported when ERPS is provisioned on LAG ports.	All
Release 1.1.2		
36777	Description: The PM file-transfer function is invalid after the system timezone is changed.	All
36766	Description: The default SLA Loss measurement when provisioned via SNMP should be LMM-LMR.	All
36612	Description: When the switch is configured in a 1G/10G ethernet port configuration , the LOS alarm is not raised when a fiber cable is removed from ports eth-0-25 to eth-0-28.	821
36610	Description: The default values for temperature alarms are to be reset to : High Temperature Threshold 80 °C and Low Temperature Threshold -30 °C.	All
36559	Description: NE misconfiguration is preventing a Service from being deleted.	All
36547	Description: The CPU High Usage Alarm severity code requires to be downgraded to a lower severity code.	All
36495	Description: In some instances when an e-service is created in PSM an error message reports a missing NNI port.	All
34905	Description: The save database operation should be logged into the syslog library.	All
Release 1.1.1		
36252	Description: In-band management does not function after adding/deleting eservices with LAG UNI through PSM.	All
35387 / 34479	Description: The transceiver type and wavelength are shown as unknown for SFP PEC: BP3AM1MS, Vendor: JDSU.	All
35260	Description: The show interface traffic rates are displayed incorrectly.	All
35566	Description: In Release 1.1.1, ERP instance should support 8 ring instances rather than 16.	All

4.0 BTI SA-805 BTI SA-821 BTI SA-822 known issues

This section covers the following topics:

- [4.1, “BTI SA-805 BTI SA-821 BTI SA-822 known issues”](#)

4.1 BTI SA-805 BTI SA-821 BTI SA-822 known issues

Table 4-1 BTI SA-805 BTI SA-821 BTI SA-822 known issues

ID	Description	Affects
Release 2.2.1		
40999	<p>Description: The switch supports the following loss measurement tests:</p> <ul style="list-style-type: none"> Single ended loss measurement that collects the frame loss during the round trip message (LMM/LMR) Dual ended loss measurement that collects the frame loss during Continuity Check Message (CCM) <p>When performing loss measurement test (LMM/LMR) in a replicated MEP to MLAG network between BTI SA-805 (as the RMEP responder) and PVX, BTI SA-810, or BTI718E (as the initiator) SLA frame loss count may occur during the replicated MEP switching when the CCM interval is 1 minute. This is because the transmit interval of 100ms/1s/10s is shorter than the interval required for the remote peer MEP to update the RMEP MAC address change.</p> <p>Workaround: If possible perform a dual ended loss measurement test.</p>	BTI SA-805
41968	<p>Description: BTI SA-821 ethernet ports 25 to 28 support either 1GE or 10GE. They do not support 10M and 100M speeds.</p> <p>Workaround: On BTI SA-821 systems, if possible use ethernet ports 1 to 24 when 10M or 100M speeds are required.</p>	BTI SA-821
34783	<p>BTI SA-822 does not support copper SFPs at 10/100M speeds.</p> <p>Workaround: N/A</p>	BTI SA-822
42528	<p>Description: When the user changes the interface speed on an ethernet port between 10, 100 and 1000M and performs the CLI command <code>show pm interface <ethernet port id></code> current the Rx and Tx performance monitoring status values are double the original count. The Rx and Tx performance monitoring status values will continue to increment each time the interface speed is changed between 10, 100 and 1000M.</p> <p>Workaround: Use the CLI command <code>clear pm interface <ethernet port id> (all current untimed)</code> to remove the performance monitoring statistics on the interface and then perform the <code>show pm interface</code> command.</p>	BTI SA-805
42553	<p>Description: When QoS is changed from the enable to disable state, the TPID is initialized to the default TPID value (0x8100). If the system is operating with a TPID which is not the default TPID value, the default change will impact the configuration. The user may not be able to access the switch using PSM or the CLI.</p> <p>Recommendation: QoS should not be disabled when the system is in service, when the switch is configured with a TPID which is <i>not</i> the default TPID.</p>	All
39659	<p>Description: BTI SA-805 and BTI SA-821/822 uses MAC encapsulation to tunnel the L2 protocol packets. PVX uses MAC swapping to tunnel the L2 protocol packets. BTI SA-805, BTI SA-821/22 L2CP tunneling interoperability with PVX does not function.</p> <p>Workaround: n/a.</p>	All
Release 2.1.1		
41070	<p>Description: After a MLAG protection switch occurs the response time of the telnet session may become slow.</p> <p>Workaround: Close the current telnet session and open a new session.</p>	All

Table 4-1 BTI SA-805 BTI SA-821 BTI SA-822 known issues (Continued)

ID	Description	Affects
40922	Description: MLAG cannot be used as SLA initiator for Loss and Delay Measurements. Workaround: Use MLAG as SLA responder for Loss and Delay Measurements.	All
41473	Description: IEEE 1588v2 does not function if the management VLAN is configured in 802.1Q Tunneling (Q-in-Q) mode. Workaround: n/a.	All
39059	Description: In a hybrid 1588v2 and SyncE synchronized network, PTP cannot synchronize if the master clock is provisioned with 1588v2 as the primary clock source and SyncE as the secondary clock source. Workaround: On the master clock, provision the secondary clock as none.	All
41091	Description: The L2 frame may be discarded if there is a corrupted L3 header within the same packet. Workaround: n/a.	All
35331	Description: The real time clock resets to the default value after a power cycle has been implemented. Workaround: n/a.	All
40630	Description: After service path fault recovery, Connectivity Fault Management (CFM) between the switch and PVX does not resume. A loss of continuity (LOC) alarm is raised on the switch. Workaround: n/a	All
Release 1.2.3		
37707	Description: The performance monitoring data displayed for untimed RX Octet and TX Octet when the CLI command <code>show pm interface <ethernet port id></code> is performed may be different to the RX Octet and TX Octet performance monitoring data displayed in the SNMP MIB files. Workaround: The performance monitoring values displayed using the CLI are the correct values.	All
36203	Description: EthernetPm & OamPm tables require a FixedX100 data type implemented to store decimal data values in the MIBs. Workaround: n/a.	All
34263	Description: There is no field in the MIB to indicate if an alarm is service effecting. Workaround: n/a.	All
34793	Description: The CPU utilization may remain high when snmp-walking is implemented. Workaround: n/a.	All
Release 1.1.2		
33831	Description: For ERPS interoperability of BTI SA-805/821/822 with other approved products, Linkscan must be used as the link failure detection mechanism instead of CCM. Workaround: Use link scan method to detect link status instead of CCM method when interoperating with PVX or 718E.	All



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