SLX-OS 17r.2.03 for SLX 9540

Release Notes v2.0

July 2019

9036327-00 Rev AB

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Contents

Document history

Version	Summary of changes	Publication date
2.0	Added Note to Overview	July 2019
1.0	Initial Release	June 2019

Preface

Contacting Extreme Technical Support

- As an Extreme customer, you can contact Extreme Technical Support using one of the following methods: 24x7 online or by telephone. OEM customers should contact their OEM/solution provider.
- If you require assistance, contact Extreme Networks using one of the following methods:
- GTAC (Global Technical Assistance Center) for immediate support
- Phone: 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact.
- Email: support@extremenetworks.com. To expedite your message, enter the product name or model number in the subject line.
- GTAC Knowledge - Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- The Hub - A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- Support Portal - Manage cases, downloads, service contracts, product licensing, and training and certifications.
- Before contacting Extreme Networks for technical support, have the following information ready:
- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

Extreme resources

Visit the Extreme website to locate related documentation for your product and additional Extreme resources.

White papers, data sheets, and the most recent versions of Extreme software and hardware manuals are available at www.extremenetworks.com. Product documentation for all supported releases is available to registered users at www.extremenetworks.com/support/documentation.

Document feedback

Quality is our first concern at Extreme, and we have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission, or you think that a topic needs further development, we want to hear from you.

You can provide feedback in two ways:

• Use our short online feedback form at http://www.extremenetworks.com/documentation-feedback-pdf/

• Email us at internalinfodev@extremenetworks.com

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

Overview

This release introduces G.8032 on the SLX 9540, an ITU standard technology for protection of Ethernet traffic in ring networks to enable fast failovers. Both version 1 and version 2 are supported; version 2 enables multi-ring and ladder type of deployments.

SLX-OS 17r.2.03 release is for G.8032 Use Case Only. Contact PLM-DataCenter@extremenetworks.com before download.

New SKUs

No new SKUs are introduced in this release.

Behavior changes

Behavior changes in release 17r.2.03

No behavior changes in the 17r.2.03 release.

Behavior changes in release 17r.2.01a

A defect in the firmware of the SSD used in the SLX 9540 may cause the SSD to stop responding. This is not corrected in the 17r.2.01a release. When this defect happens, the Extreme SLX-OS places the file system into a read-only mode to indicate that the file system is hung. A power-cycle fully recovers the device. An SSD controller firmware update is available, and GTAC can assist you in applying this to your systems. Please refer to Field Notice, FN-2018-422 for more information.

Behavior changes in release 17r.2.01

- MCT configuration is changed in this release.
    - Cluster member VLAN/Bridge-domain command is deprecated
    - BGP EVPN VLAN/Bridge-domain command is required
    - RD/RT for each EVPN VLAN/Bridge-domain is configurable under BGP EVPN
- VPLS/VLL raw pass-through VC mode: Starting this release, if untagged end points are used with this feature, TPID value will not be automatically set to 0x9100. Users should explicitly configure it.
- VXLAN L2 Gateway: Inner L2 packets will be sent out as untagged always regardless if original L2 packet is untagged or tagged. In previous release, if the original packet is tagged, after encapsulation into VXLAN packet, inner packet is tagged; otherwise it is untagged.
- To enable BGP routes redistribution in non-default-VRF, users need to configure 'vrf-lite-capability' under '[ipv6] router ospf vrf <vrf-name>'. This was enabled by default in SLXOS 17r.1.00.
- A warning message is added when enabling BGP process restart if BGP EVPN neighbor is configured & vice versa.
- 802.1ag changes
    - Specifying Domain ID is mandatory from SLXOS17r.2.00 release while configuring domain. It was not mandatory in 17r.1.00 and earlier releases.
    - When downloaded from external file, CFM configuration would be present after the interface and mpls configuration in the running configuration from SLXOS17r.2.00 release. In earlier releases, CFM configuration is present before interface running configuration.

        The domain-name command in CFM protocol configuration mode creates a maintenance domain with a specified id, level and name and enters the Specific Maintenance Domain mode specified in the command argument.

        device(config-cfm)#domain-name VPLS-SP id 2 level 4

        device(config-cfm-md-VPLS-SP)#

    - When downloaded from external file, CFM configuration would be present after the interface and mpls configuration in the running configuration from SLXOS 17r.2.00

release. In earlier releases, CFM configuration is present before interface running configuration.

- o From SLXOS17r.2.00 release, CFM Maintenance Association with service as bridge domain would not be allowed to be created when the underlying bridge domain is not present. It was allowed in 17r.1.00 and earlier releases.

Software Features

New software features

The following software features are new in this release:

- G8032
- Eth-CSF

CLI commands

New commands

The following commands are new in this release:

- clear erp statistics [erp_id]
- clear erp statistics [erp_id]
- clear erp wtr-time erp_id
- dot1ag-compliance
- enable
- erp erp_id
- fast-wtr-time
- fdb-flush-optimization
- force-switch {vlanvlan_id ethernet slot/port | port-channel number }
- guard-time time
- holdoff-time time
- left-interface vlan vlan_id { ethernet slot/port | port-channel number }
- manual-switch {vlanvlan_id [ethernet slot/port |port-channel number]}
- message-interval time
- name string
- non-revertive-mode
- raps-default-mac
- raps-mel mel_value
- right-interface vlan vlan_id { ethernet slot/port | port-channel number }
- rpl {vlanvlan_id [ethernet slot/port |port-channel number] }
- rpl-owner
- show erp [erp_id]
- show erp statistics erp_id
- sub-ring parent-ring-id id
- version number
- wtb-time time
- wtr-time time
- debug erp

- debug erp <erp-id>
- debug erp bpdu
- debug erp bpdu rx
- debug erp bpdu tx
- debug erp state
- debug erp event
- clear cfm y1731 client-signal-fail statistics
- client-interface {ethernet slot/port [:subport] |port-channel number } csf-type {loss-of-signal }tx-period [1-minute |1-second]
- show cfm y1731 client-signal-fail

RFCs and standards

ITU G.8032 v1, v2 is supported in this release.

Hardware support

Supported devices

The following devices are supported in this release:

Supported Hardware	Description
BR-SLX-9540-24S-AC-F	Extreme SLX 9540-24S Switch AC with Front to Back airflow. Supports 24x10GE/1GE + 24x1GE ports
BR-SLX-9540-24S-DC-F	Extreme SLX 9540-48S Switch DC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-24S-AC-R	Extreme SLX 9540-24S Switch AC with Back to Front airflow. Supports 24x10GE/1GE + 24x1GE ports
BR-SLX-9540-24S-DC-R	Extreme SLX 9540-24S Switch DC with Back to Front airflow. Supports 24x10GE/1GE + 24x1GE ports
BR-SLX-9540-48S-AC-F	Extreme SLX 9540-48S Switch AC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-48S-DC-F	Extreme SLX 9540-48S Switch DC with Front to Back airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-48S-AC-R	Extreme SLX 9540-48S Switch AC with Back to Front airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-48S-DC-R	Extreme SLX 9540-48S Switch DC with Back to Front airflow. Supports 48x10GE/1GE + 6x100GE/40GE
BR-SLX-9540-24S-COD	Upgrade 24x1GE to 24x10GE/1GE
BR-SLX-9540-2C-POD	Ports on Demand for 2x100GE/40GE Uplinks
BR-SLX-9540-ADV-LIC	Advanced Feature License is needed for MPLS, VxLAN and 3rd Party VM support

Supported optics

Part Number	Description
1G-SFP-TX	MODULE, MINI-GBIC, TX, 1000BASE, RJ45
1G-SFP-SX-OM	1000BASE-SX SFP OPTIC, MMF LC
1G-SFP-SX-OM-8	1000BASE-SX SFP OPTIC, MMF LC 8
1G-SFP-LX-OM	1000BASE-LX SFP OPTIC, SMF LC
1G-SFP-LX-OM-8	1000BASE-LX SFP OPTIC, SMF LC 8
1G-SFP-LHA-OM	1000BASE-LHA SFP OPTIC, SMF, LC CONN
1G-SFP-BXD	1000BASE-BXD SFP OPTIC SMF
1G-SFP-BXU	1000BASE-BXU SFP OPTIC SMF
10G-SFP-USR	10G USR SFP+ TRANS 100M OVER MMF
10G-SFP-SR	10G SR SFP+ TRANS 300M OVER MMF
10G-SFP-SR-8	10G SR-8 SFP+ TRANS 300M OVER MMF 8
10G-SFP-LR	10G LR SFP+ TRANS 10KM OVER SMF
10G-SFP-LR-8	10G LR SFP+ TRANS 10KM OVER SMF 8
10G-SFP-ER	10G ER SFP+ TRANS 40KM OVER SMF
10G-SFP-ZR	10GBASE-ZR SFP+ optic (LC), for up to 80km over SMF
10GE-SFP-AOC-0701	10GE SFP+ Direct Attach Cables 7m - Active Optical cables
10GE-SFP-AOC-1001	10GE SFP+ Direct Attach Cables 10m - Active Optical cables
10G-SFP-TWX-0101	10 GbE SFP+ optics Twinax Active Copper cable: 1m
10G-SFP-TWX-0301	10 GbE SFP+ optics Twinax Active Copper cable: 3m
10G-SFP-TWX-0501	10 GbE SFP+ optics Twinax Active Copper cable: 5m
40G-QSFP-SR-BIDI	40GE SR QSFP+ optic (LC), Bidirectional, 100m over OM3 MMF
40G-QSFP-LM4	40GBASE-LM4 QSFP+, 1310nm, 160m over duplex LC OM4 MMF, 2km over duplex LC SMF
40G-QSFP-SR4	40G QSFP+ SR4 TRANS 100M OVER MMF
40G-QSFP-SR4-INT	40G QSFP+ 100M OVER MMF 10G BREAKOUT
40G-QSFP-ESR4-INT	40G QSFP+ 300M OVER MMF 10G BREAKOUT
40G-QSFP-LR4	40G QSFP+ LR4 TRANS 10KM OVER SMF

40G-QSFP-QSFP-C-0101	40G QSFP+ TO QSFP+ ACTIVE COPPER 1M
40G-QSFP-QSFP-C-0301	40G QSFP+ TO QSFP+ ACTIVE COPPER 3M
40G-QSFP-QSFP-C-0501	40G QSFP+ TO QSFP+ ACTIVE COPPER 5M
40G-QSFP-QSFP-AOC-1001	40G QSFP+ to QSFP+ ACTIVE OPTICAL CABLE 10M
40G-QSFP-4SFP-C-0101	4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 1M
40G-QSFP-4SFP-C-0301	4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 3M
40G-QSFP-4SFP-C-0501	4X10GE QSFP+TO4SFP+ COPPER BREAKOUT 5M
40G-QSFP-4SFP-AOC-1001	4X10GE QSFP+TO4SFP+ Fiber BREAKOUT 10M
100G-QSFP28-CWDM4-2KM	100GBASE CWDM4 QSFP TRANS LC 2KM OVER SM
100G-QSFP28-SR4	100G QSFP28 SR4 TRANS 100M OVER MMF
100G-QSFP28-LR4L-2KM	100G QSFP28 LR4 LITE TRANS 2KM OVER SMF
100G-QSFP28-LR4-10KM	100G QSFP28 LR4 TRANS 10KM OVER SMF
100G-QSFP28-LR4-LP-10KM	100G QSFP28 LR4 LOWPOWER 2KM OVER SMF
100G-QSFP-QSFP-P-0101	100G QSFP Passive Direct Attach Copper Cable, 1M
100G-QSFP-QSFP-P-0301	100G QSFP Passive Direct Attach Copper Cable, 3M
100G-QSFP-QSFP-P-0501	100G QSFP Passive Direct Attach Copper Cable, 5M
100G-QSFP-QSFP-AOC-1001	100G QSFP Direct Attach Active Optical Cable, 10M
10G-SFPP-USR-E	10GE USR SFP+,HIGH RX SENSITIVITY
10G-SFPP-USR-8-E	10GE USR SFP+,HIGH RX SENSITIVITY (8-pack)
10G-SFP-USR-SA	10GE USR SFP+ OPTIC (LC),RANGE 100M MMF, TAA
10G-SFP-SR-S	10GBASE-SR, SFP+OPTIC(LC), 300M MMF, 70C
10G-SFP-LR-SA	10GBASE-LR, SFP+ OPTIC (LC),10KM OVERSMF, TAA, 70C
10G-SFP-BXU-S	10GE LR SFP+ OPTIC (LC) BIDIRECTIONAL UP
10G-SFP-BXD-S	10GE LR SFP+ OPTIC (LC) BIDIRECTIONAL DO
*Methode SP7051	Methode SP7051-BRCD SFP+ 10G-Base-T (10G speed only)
*Inphi IN-Q2AY2-XX	Inphi 100G QSFP-28 ColorZ DWDM (80km)

*Optics reference qualified and should be purchased from the respective vendors. Extreme doesn't sell these.

Software upgrade and downgrade

Image file names

Download the following images from www.extremenetworks.com.

Image file name	Description
slxos17r.2.03.tar.gz	SLX-OS 17r.2.03 software
slxos17r.2.03_all_mibs.tar.gz	SLX-OS 17r.2.03 MIBS
slxos17r.2.03.md5	SLX-OS 17r.2.03 md5 checksum

Upgrade and downgrade considerations

Steps:

1. Upgrade to SLXOS 17r.2.03 later releases
2. Save Configuration

   To save the config, run

   copy running-config startup-config

3. Firmware download using 'coldboot' option from source directory *(For fresh image install, its suggested to use netinstall to bring up the device).*

Upgrade/downgrade using netinstall through USB:

- User can perform firmware upgrade/downgrade between SLX-OS 17r.1.x and SLX-OS 17r.2.03 using netinstall through USB.

Upgrade/downgrade using firmware download CLI through USB:

- Upgrade from SLX-SLX 17r.2.02 to SLX-OS 17r.2.03 is supported via firmware download CLI with "coldboot" option.
- USB3.0 used for firmware download can be in VFAT or EXT4 format.

ZTP Behavior with firmware upgrade/downgrade:

- After any SLX-OS firmware netinstall, ZTP will be enabled by default. To disable ztp user can use the following CLI
  o 'dhcp ztp cancel' followed by reload
- After firmware upgrade from SLXOS 17r.1.01a or later releases to SLX-OS 17r.2.03 release using firmware download CLI, ZTP will be disabled by default.
- After firmware downgrade from 17r.2.03 release to SLXOS 17r.1.01a or later releases using firmware download CLI, ZTP will be enabled by default.
- Instruction to check and upgrade FPGAs/CPLDs:

  Refer to the *SLX-OS Upgrade Guide* for all variations on upgrading SLX-OS.

FPGA/CPLD versions:

SLX-9540	Release Date
Sys FPGA	02/09/2017
CPLD 0	02/09/2017
CPLD 1	02/09/2017

Limitations and restrictions

Limitations and Restrictions for 17r.2.03

This release does not support SLX 9850.

G8032:

- ERP is supported for SLX 9540 only in this release
- ERP is not supported with MCT in this release
- ERP is not supported with VPLS Vlans in this release

Limitations and Restrictions for 17r.2.01

BFD:
- Sessions with less than 300ms timer may flap in scale conditions.
- Known issues with BFD when BFD is configured over multi-slot LAG, or multi-hop session over ECMP paths.

L3VPN: Known issues with Peer-group, RR-group and Prefix-list ORF.

FRR facility backup:
- VPLS/VLL Bypass traffic will not work when router/untagged VE interfaces configured as MPLS uplink ports.

MCT L3 cases are not supported when ICL interface is configured as router/untagged VE.
It is required for all MPLS uplinks to be tagged interfaces to use FRR bypass for VLL/VPLS/L3VPN applications.

MCT

- MCT Auto-ESI configuration is supported with SLX 9540 only in this release.

Routing over VPLS
- pw-profile must be configured with tagged mode only under the bridge-domain instance for routing with VPLS

Internet Routes Scaling
- It is recommended that the internet routes scaling features to be enabled with internet peering configurations as qualified by Extreme
- Feature is supported with default VRF only. Default VRF and non-default VRF should not be co-existing when default VRF is configured with Internet routes scaling feature
- Supported with SLX 9540 only in this release

L3VPN jumbo limitation
- The IPMTU value configured in CLI is applicable, if outgoing routing interface is an undelay IP interface (VE or L3 port). The IPMTU value configured in CLI is not applicable if the outgoing interface is uplink for IPoMPLS, L3VPN traffic, or ICL for MCT peers.

L2 Switching
- Tag-type command is only supported for user to configure the port intended to be used as part of the VPLS/VLL Raw Pass Through Mode with Untagged Logical Interface. Other usages are not supported.

The Extreme SLX 9540 supports "IP EVPN/VXLAN with logical VTEP for L2VNI" for beta testing purposes only.

In rare conditions after system image upgrade, the device may go into continuous reboots due to incompatibility of memory structures between the releases. To recover, power-cycle the device.

Defects

Known Issues

This section lists open software defects as of **June 2019** in 17r.2.03.

Parent Defect ID:	SLXOS-24967	Issue ID:	SLXOS-39040
Severity:	S4 - Low		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLXOS 17r.2.01	Technology:	ERP - Ethernet Ring Protection
Symptom:	ERP config for the interface is not removed when vlan config is removed from the interface.		
Condition:	User will observe this behavior when vlan config is removed.		
Workaround:	remove ERP config prior to vlan removal		

Parent Defect ID:	SLXOS-38299	Issue ID:	SLXOS-39990
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Other
Reported in Release:	SLXOS 18x.1.00a	Technology:	Other
Symptom:	Sometimes, a panic dump may be seen while rebooting the setup.		
Condition:	This is a rare condition which may be seen while device is rebooting or when sending high rate traffic to CPU.		
Workaround:	N/A		

Parent Defect ID:	SLXOS-40549	Issue ID:	SLXOS-40549
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLXOS 17r.2.03	Technology:	ERP - Ethernet Ring Protection
Symptom:	User might sometimes observe additional mac flush in case of sub-ring topology in scenarios of SF failure in sub-ring.		
Condition:	User has sub-ring in the topology and raps-propagate-tc is enabled.		
Workaround:	No workaround		

Parent Defect ID:	SLXOS-40595	Issue ID:	SLXOS-40595
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLXOS 17r.2.03	Technology:	ERP - Ethernet Ring Protection
Symptom:	User will observe the unpredictable traffic flows or traffic loss during SF condition in sub-ring scenarios when raps-propagate-tc is not enabled. It is disabled by default.		
Condition:	The behavior described will be observed in multi-ring network topologies where sub-ring is enabled		
Workaround:	In case of multi-ring topology where sub-ring config is enabled, user should always enabled the raps-propagate-tc as suggested in protocol standard.		

Parent Defect ID:	SLXOS-40955	Issue ID:	SLXOS-40955
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLXOS 17r.2.03	Technology:	VLAN - Virtual LAN
Symptom:	User might observe a temp loop for a very short duration when user disable the port-channel interface		
Condition:	User should disable the port-channel interface from CLI to observe this behavior		
Workaround:	User should disable all the member-interface of the port-channel before shutting down the port-channel interface to avoid the loop.		

Parent Defect ID:	SLXOS-41047	Issue ID:	SLXOS-41047
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Other
Reported in Release:	SLXOS 17r.2.03	Technology:	Other
Symptom:	On executing the 'show hardware profile' cli, the output is not as expected and will display some error value in some of the fields.		
Condition:	After device reload and on executing the CLI 'show hardware profile', user will observe this behavior		
Workaround:	None		

Parent Defect ID:	SLXOS-41098	Issue ID:	SLXOS-41098
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLXOS 17r.2.03	Technology:	VLAN - Virtual LAN
Symptom:	User might observer the traffic loss and MAC learning failure while using the port in breakout mode.		
Condition:	The 40G or 100G interfaces when configured in breakout fashion, leads to the issues observed		

Parent Defect ID:	SLXOS-41100	Issue ID:	SLXOS-41100
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLXOS 17r.2.03	Technology:	VLAN - Virtual LAN
Symptom:	User might observe the temp loop when vlan statistics are added and removed for the vlan which is controlled by ERP (G8032).		
Condition:	User will observe this issue if ERP is already enabled and then vlan statistics are either enabled or disabled		

Workaround:	To avoid the loop user can execute the following steps.
	Seq 1 : Enabled vlan statistics, followed by enabling ERP a.k.a G8032
	Seq 2: If ERP is already enabled, execute following steps:
	       step 1: disable the RPL port or whichever port is in blocking or disabled state in the ring
	       step 2: disable the ERP
	       step 3: disable or enable the vlan statistics
	       step 4: enable the erp
	       step 5: enable the previously disabled link		

Parent Defect ID:	SLXOS-41101	Issue ID:	SLXOS-41101
Severity:	S2 - High		
Product:	SLX-OS	Technology Group:	Layer 2 Switching
Reported in Release:	SLXOS 17r.2.03	Technology:	ERP - Ethernet Ring Protection
Symptom:	While using ERP(G8032) with port channel, is member interfaces are added or deleted from port-channel while ERP is already enabled, user might observe temp loop intermittently.		
Condition:	User will observe this behavior with port-channel members are added or removed while ERP has already converged in the network.		
Workaround:	User should use following CLI 'switchport mode trunk-no-default-native' on the port channel to avoid this issue		

Parent Defect ID:	SLXOS-41194	Issue ID:	SLXOS-41194
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLXOS 17r.2.03	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	User might observe that after a system reset, the 802.1ag(CFM) sessions toggle before settling down.		
Condition:	The issue is observed only when system is reset and the CFM timeout value is configured as 3.3ms		
Workaround:	User will not observe this behavior with higher timeout values.		

Parent Defect ID:	SLXOS-41698	Issue ID:	SLXOS-41698
Severity:	S3 - Medium		
Product:	SLX-OS	Technology Group:	Monitoring
Reported in Release:	SLXOS 17r.2.03	Technology:	OAM - Operations, Admin & Maintenance
Symptom:	On system reboot, with statically configured remote Maintenance endpoint(RMEP) , user might observe that the MEP operation state remains Down even though prior to reboot it is up		
Condition:	The user will experience this behavior for statically configured Remote Maintenance End Point. The user will not experience this behavior for dynamic RMEP.		
Workaround:	If feasible, user should configure dynamic RMEP rather than static RMEP		

Closed Defects

There are no defects closed with or without a code change in the 17r.2.03 release.