



A **ZEPHYRTEL** SOLUTION

UltraBand™ Version 7.0.0

Release Notes

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Release Overview

Release Version	UltraBand 7.0.0
Release Date	February 22, 2019
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• ISO image for fresh installations of UltraBand 7.0.0• Release Documentation (Release Notes)
Additional Information	Improvements since UltraBand 7.0.0 release: Enhancements - 5 Customer Defects - 9 Defect fixes - 15

Enhancement(s)

JIRA ID	Zendesk ID	Description
PAUB-17228	None	Moving from CentOS 7.2 to CentOS 7.3/4
PAUB-19278	None	Support more than 128GB of RAM for UltraBand 7.0 Guest OS
PAUB-19326	None	Set New default Passwords for Ultraband
PAUB-19382	None	Required Script for Upgrading system memory in version 6.x
PAUB-19453	None	configuration support for timezone minutes offset

Customer Defect(s)

JIRA ID	Zendesk ID	Description
PAUB-16084	#397083	takes too much time during expiration period remove the reused buffers
PAUB-18102	#178572	Guest VM could not install correctly on dell r730xd
PAUB-19201	None	Version 7.0b59 Application Core
PAUB-19452	#431493	Version 7.0b59 Application Core
PAUB-19568	#435754	Can't start UB service after install
PAUB-19637	None	Version 7.0b59 UBView GUI Internal server error
PAUB-19667	#489116	Ddos attack from PeerApp MGT IPs
PAUB-19678	#507765	CO drop is happening periodically without coredump
PAUB-19764	#517926	6.2.7 asks for license upgrade when installing

Enhancement(s) Analysis Report

1. Moving from CentOS 7.2 to CentOS 7.4

In order to provide support for modern Dell Rx40 servers, we upgraded the whole Operating System used from CentOS 7.2 up to 7.4, providing better hardware support.

This also allows us to use more recent versions of programs, which are constantly patched against defects, in order to have a more robust and secure operational base.

New Dell servers certification in lab

The new supported Dell servers have been certified inside the laboratory to certify UltraBand v7.0.0 work seamlessly with them. All server variants were tested and verified for correctness, adding to the stability of the product.

2. Support more than 128GB of RAM for UltraBand 7.0 Guest OS

- PeerApp customers are purchasing new Dell PowerEdge R740/R640 servers, which come with 256+GB of RAM. However, UltraBand product has a hard-coded limitation of supporting max 128GB of RAM for the Guest OS.
- As part of enhancements in 7.0.0 the changes were done to support the use of available resources in PeerApp customer systems.
- This translates to more customers being served per Cache Engine, with more capacity for Live caching as well.

3. Password Changes

Ultraband comes with documented default passwords for brand-new installations. The ideal procedure is to immediately set a new password, and this must not hinder appliance operation, as all network equipment(s) must follow. As part of 7.0.0 the product is shipped with new default passwords for users who can update the credentials at a later stage

4. Configuration support for timezone minutes offset

The configuration of ultraband was only supporting timezone with hour offset now the system was enhanced to support timezone configuration with minutes offset such as GMT+5:30. Before this enhancement was done , installation team used to change the times manually by different methods which non desired side effects as mentioned below.

There are 3 side effects of manual clock settings

1. Ultraband Logs time jumps after power-cycle/ reboot.
2. UBView stops Graph updates after power-cycle/ reboot with below message
 - a. **WARNING : System Clock moved back and graphs not updating**
3. After Every power-cycle or power issues; Service needs to be stop & start for 2nd time for clock adjustments which increments the cache downtime/MW.(additional MW in case of a power failure)

With the enhancement the setting is taken care as part of installation .

Fault Analysis Report

Version 7.0b59 Application Core

A customer reported a system crash that was traced back to an unprotected memory access, causing a segmentation fault. The issue was promptly identified and fixed.

Takes too much time during expiration period remove the reused buffers

It was noted by a customer that expiration mechanism in the system had an issue whidue to which there is an effect on the system Cache-out and overall performance. This is related to cleaning of different queues / pools and how they react to stressful spikes. The issue was analyzed and fixed.

CO drop is happening periodically without coredump

It was noted by a customer that when the Webcache feature is enabled on certain high-throughput scenarios, it reduces the system Cache-out and overall performance. This is related to IO queues and how they react to stressful spikes. The issue was analyzed and fixed.

Broken cache operations for Windows Update files

Windows Update files were being broken into pieces instead of a continuous cache block. After research, the fault was identified and promptly corrected

Stability Improvements

PeerApp is constantly improving its testing methods as well as observing customer logs during troubleshooting of other customer defects. There were quite a number of instances where we had seen segmentation fault errors in the logs and these issues sometimes lead to server crashes, which prompted us to proactively scan some modules and identify the root cause of these problems. The issues identified were mainly due to passing null values to the subroutines which are expecting memory addresses, causing segmentation issues and potentially stability issues. The product team is constantly fixing these issues and including them in each release before customers experience them on their premises, making the product more reliable and robust on after every release. As a result of this intense initiative, this release includes over 50 other improvements for overall stability of the product.

As the issues are internal and might not be relevant to all of our customers, we list only an excerpt of the released fixes for this version:

Defect(s)

JIRA ID	Zendesk ID	Description
PAUB-17850	None	Email Alerts shows incorrect product in Subject field
PAUB-18123	None	CLONE - PAUB-14968: Application crash accessing null file pointer: too many open files
PAUB-18578	None	Stability Improvements
PAUB-18579	None	Stability Improvements
PAUB-19630	None	HTTP Service UNKNOWN session close reason for cached Youtube files
PAUB-19631	None	HTTP Service UNKNOWN session close reason for not-cached Youtube files
PAUB-19632	None	HTTP Service Broken cache operations for Windows Update files
PAUB-19639	None	Remove unused files in the stack/ subdir
PAUB-19640	None	Pool packets almost double up after upgrading 6.2.5b473
PAUB-19641	None	8K buffers has not created after upgrading 6.2.5b473
PAUB-19642	None	Number of pushup packets decreased to half of it after upgrading 6.2.5b473
PAUB-19681	None	Performance testing not updating testrail
PAUB-19738	None	Cache-out Port stopped functioning with latest Upgrade on 5.x - To port the fix done for 5.x to 6.x to 7.0
PAUB-19760	None	Upgrade Script for Host & Guest Upgrade from 7.0b59 to 7.0b69
PAUB-19777	None	Too many Errors in UI log after upgrade to 6.2.7b2
PAUB-19657	None	Automatic alerts



UltraBand™ Version 7.0.1

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Defect(s)	Error! Bookmark not defined.

Release Overview

Release Version	UltraBand 7.0.1
Release Date	April 24, 2019
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• ISO image for fresh installations of UltraBand 7.0.1• Release Documentation (Release Notes)
Additional Information	Improvements since UltraBand 7.0.1 release: Customer Defects - 5 (4 Analysed & Made Recommendations, 1 - Fixed) Defect fixes - 3

Customer Defect(s)

JIRA ID	Zendesk ID	Description
PAUB-20165	#681087 #721742 #752854	Customer Web-Cache-04 Restart

Fault Analysis Report

Customer Web-Cache-04 Restart

A customer reported a system crash that was traced back to an unprotected memory access, causing a segmentation fault. The issue was promptly identified and fixed.

Stability Improvements

PeerApp is constantly improving its testing methods as well as observing customer logs during troubleshooting of other customer defects. There were quite a number of instances where we had seen segmentation fault errors in the logs and these issues sometimes lead to server crashes, which prompted us to proactively scan some modules and identify the root cause of these problems. The issues identified were mainly due to passing null values to the subroutines which are expecting memory addresses, causing segmentation issues and potentially stability issues. The product team is constantly fixing these issues and including them in each release before customers experience them on their premises, making the product more reliable and robust on after every release. As a result of this intense initiative, this release includes few stability improvements for overall stability of the product.

As the issues are internal and might not be relevant to all of our customers, we list only an excerpt of the released fixes for this version:

Defect(s)

JIRA ID	Zendesk ID	Description
PAUB-19453	None	configuration support for timezone minutes offset
PAUB-19894	None	Fix Intel X710 NIC driver issues on R640 with v7.0
PAUB-19927	None	Release Configuration Defect



UltraBand™ Version 7.0.2

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Defect(s)	Error! Bookmark not defined.

Release Overview

Release Version	UltraBand 7.0.2
Release Date	June 26, 2019
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• ISO image for fresh installations of UltraBand 7.0.2• Upgrade Package for UltraBand 7.0.1• Release Documentation (Release Notes)
Additional Information	<p>Improvements in UltraBand 7.0.2 release: Installer Improvements for different H/W specs of 8000 series Defect fixes: 3</p> <p>Known Issue: Due to the new network drivers being used, a new problem was observed during manual stop operation. This was due to network interface renaming during the deactivate/activate process.</p> <p>Resolution / WorkAround : Guest OS needs to be restarted after manual service stop.</p> <p>Analysis: It is not a common scenario to execute a manual stop in day to day operations. After any maintenance activity, instead of service restart with the above command, a reboot of the Guest OS will bring back the system to a fully operational state.</p>

New Hardware Support Improvements

As PeerApp is constantly being tested on new R740 and R640 servers with diverse hardware combinations, several problems were identified in the underlying hardware operation. This release addresses several issues of such kind and provides fixes for the incompatibilities found.

Fault Analysis Report

Stability Improvements

PeerApp is constantly improving its testing methods as well as observing customer logs during troubleshooting of other customer defects. There were quite a number of instances where we had seen segmentation fault errors in the logs and these issues sometimes lead to server crashes, which prompted us to proactively scan some modules and identify the root cause of these problems. The issues identified were mainly due to passing null values to the subroutines which are expecting memory addresses, causing segmentation issues and potentially stability issues. The product team is constantly fixing these issues and including them in each release before customers experience them on their premises, making the product more reliable and robust on after every release. As a result of this intense initiative, this release includes few stability improvements for overall stability of the product.

As the issues are internal and might not be relevant to all of our customers, we list only an excerpt of the released fixes for this version:

Defect(s)

JIRA ID	Zendesk ID	Description
PAUB-25138	None	Installer not showing build number
PAUB-25295	None	Bad initialization in memset
PAUB-25297	None	Server Stabilization issue - Protect against null deref at packet_c::set_classifier_id()



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Release Overview

Release Version	UltraBand 7.0.3
Release Date	October 31, 2019
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• ISO image for fresh installations of UltraBand 7.0.3• Upgrade Package for UltraBand 7.0.2• Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.3 release: Defect fixes: 1

Fault Analysis Report

Dashboard License Remaining Days Short by One

An off-by-one error on the license manager invalidated the user's last day of licensing. While it is unlikely that a user will let it come to that limit, it has been corrected to make the last day count.



UltraBand™ Version 7.0.4

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Release Overview

Release Version	UltraBand 7.0.4
Release Date	December 2nd 2019
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• ISO image for fresh installations of UltraBand 7.0.4• Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.4 release: Defect fixes: 1

Fault Analysis Report

PAUB-27344: Unable to ping data interface ipv6 Bounce Mode

It was found that ICMP on Bounce Mode under some circumstances was not allowing ICMP to do echo requests into data interfaces. After doing a deep low-level analysis, it was found that an unconventional situation caused IPv6 checksums to corrupt, causing data transmission drops that resulted in the error. It has been now fixed.



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Release Overview

Release Version	UltraBand 7.0.5
Release Date	January 20 2020
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• ISO image for fresh installations of UltraBand 7.0.5• Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.4 release: Defect fixes: 4

Fault Analysis Report

PAUB-25918 READ_ERROR(6) during CMDB Enqueue

After analyzing system logs, it was noted that under some circumstances, a queue operation on the CMDB caused incorrect error reports. After careful analysis, it was found that a very specific corner-case caused a minor glitch that reported missing data elements. The issue has been fixed and the error has been corrected.

PAUB-27183 Unexpected restart after OOB access

After getting an application restart alert, it was observed that there was a chance for an Out-of-Bounds operation to be executed. Careful analysis of the conditions causing the problem was executed, and then the issue was fixed. The error should not happen again.

PAUB-27251 Unexpected restart due to MMC issue

An unexpected Memory Controller problem was detected on a system, and an in-depth study of the problem was conducted. After the analysis it was concluded that a very specific set of conditions caused the memory subsystem to not request the appropriate region of memory, which caused the application to abort. The issue has been fixed.

PAUB-27563 Unexpected restart after upgrade

After executing an upgrade, it was found that the system unexpectedly restarted. Another in-depth analysis followed, which revealed a very interesting corner-case where the system would overload SNMP data and cause the crash. The issue was promptly fixed and the error has been prevented for future executions.



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Release Overview

Release Version	UltraBand 7.0.7
Release Date	April 15th 2020
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">● Patch File● Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.5 release: Defect fixes: 4

Fault Analysis Report

PAUB-28284 Policy Manager Category having 18000+ URLs TO

A customer reported the inability to create Policy Manager Categories which contain more than 18,000 entries. The system would become slow and eventually crashed. After investigating, it was noted that the system limits had been reached, and thus an increase in these numbers was required. This ticket specifically treats the timeout operation of the import procedure, increasing the allowed time taken to process the input. This is required because the system will take a considerable amount of time to import this amount of data.

PAUB-28308 Policy Manager Category having 18000+ URLs SO

A customer reported the inability to create Policy Manager Categories which contain more than 18,000 entries. The system would become slow and eventually crashed. After investigating, it was noted that the system limits had been reached, and thus an increase in these numbers was required. This ticket specifically treats a Stack Overflow in the pang_cli command line utility. This problem was pinpointed to a memory issue and has been fixed immediately.

PAUB-28168 Policy manager not accepting Valid symbol for URI

A customer reported the inability to create Policy Manager Categories which contain more than 18,000 entries. The system would become slow and eventually crashed. After investigating, it was noted that the system limits had been reached, and thus an increase in these numbers was required. This ticket specifically treats a problem found in one of the elements of the test data,

where an element containing a valid character was not accepted. The issue was researched and a solution was promptly found.

PAUB-28141 Policy Manager Category having 18000+ URLs SQL

A customer reported the inability to create Policy Manager Categories which contain more than 18,000 entries. The system would become slow and eventually crashed. After investigating, it was noted that the system limits had been reached, and thus an increase in these numbers was required. This ticket specifically treats a hardcoded limit found in the supporting SQLite shared library, increasing it tenfold. The issue has been thus fixed.

Installation Guide

Please follow the instructions in the [Deployment Guide](#) for information on how to install the patch.



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PAUB-29815 - SQL Injection Vulnerability	
PAUB-27885 - System crash with core dump on applying configuration	
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Release Overview

Release Version	UltraBand 7.0.8
Release Date	June 10, 2020
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• ISO image for fresh installations of UltraBand 7• Upgrade Package for UltraBand 7.0.8• Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.7 release: Defect fixes: 8

Fault Analysis Report

PAUB-29335 - Selective cache threshold is increasing unexpectedly

An arithmetic calculation error in the product has caused one of the parameters that is determining the selective cache threshold to increase and stuck at maximum. This fix will prevent this miscalculation.

PAUB-29335 - Application keep restarting with failed to init cmdb

This error caused by the underlying database with current configuration wasn't supporting the 64 bit operations , after necessary changes are done and configuration is added this error will not happen again. And in the log you can search for the "disabling in memory logging" to verify this issue is happening and crash is prevented.

PAUB-29814 - Cross Site Scripting Vulnerability

Uvview which is serving as web ui for the Ultraband had a remote code execution weakness in the web service part and it is fixed right now.

PAUB-29008 - Dev Pool Graph presents 64k buffer instead of 256k buffer

Ultraband logs were misleading as showing wrong naming for the memory pools and now it is showing correct names for the memory pools.

PAUB-28711 - Silent cacheout capping based on maximum session limits

http_sessions_percentage_limit configuration parameter used by Ultraband was capping the traffic wrongly because its calculation for the limiting handling http traffic was wrong , now it is correctly calculating the percentage.

PAUB-29815 - SQL Injection Vulnerability

This security exploit was causing UBview to run given SQL queries in local (SQL injection)and with this fix now we are sanitizing the input for the SQL queries.

PAUB-27885 - System crash with core dump on applying configuration

In a few rare conditions when there was configuration import from local to Ultraband , it was causing Ultraband to crash because there was no lock mechanism on the configuration file. With this fix we are providing a safe way to change the configuration without a crash .

PAUB-27304 - Unknown Direction graph is not working

In some cases because of the network or software errors some SNMP messages are getting lost which were used to generate the traffic graph. This causes graphs to have some gaps , with this fix we are filling these gaps automatically so graphs will be more readable.



UltraBand™ Version 7.0.9

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Release Overview

Release Version	UltraBand 7.0.9
Release Date	September 13, 2020
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• Upgrade Package for UltraBand 7.0.9• Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.8 release: Defect fixes: 1

Fault Analysis Report

PAUB-29816 - Remove Exposed PHP files

Exposed php files were removed since they are no longer used and causing security vulnerabilities.



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Release Overview

Release Version	UltraBand 7.0.10
Release Date	January 20, 2021
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">● Upgrade Package for UltraBand 7.0.10● ISO for UltraBand 7.0.10● Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.9 release: Total Change Count: 13

Fault Analysis Report

PAUB-32242 - Web Cache Not working (8K buffer pool leak)

The webcache cleanup mechanism does not take errors into account when connection has some problems due network and it keeps the connection and related buffer in use which caused the leak now it is fixed so the webcache mechanism work as expected.

PAUB-32390 - Cache intermittently going down when trying to delete files from CMDB

Dynamically allocate the pieces record array instead of using a stack allocation. This allows the expiration system to remove very large files without causing memory corruption and crashing.

PAUB-32200 - PANG restarting happened - Failed to allocate packet

Add packet allocation quota for interface threads to avoid consuming all available packets

PAUB-32377 - Failed Unit Tests with wrong macro definition

The kernel was upgraded and some code required updating. There was also an uninitialized variable that caused UTs to suddenly start failing, it has been resolved by explicitly initializing to 0. No related crashes have been reported in production however.

PAUB-32391 - After clicking on the Add button an "Internal server error." is displayed. All other parts of the policyconfig pages are opening apart from the "Rules" tab.

Optionally disable prefetching if the database backend cannot handle the query size.

PAUB-32394 - Vulnerabilities scan fails (Docker)

Updated docker container to use new kernel during build and deploy

PAUB-32395 - Vulnerabilities scan fails (Pang)

Updated the product code to use new kernel during build and deploy

PAUB-32397 - Vulnerabilities scan fails (ISO)

Updated the ISO package to use the new and upgraded 3rd party packages

PAUB-32401 - Statistics Graph not showing correctly

The real cause of gaps in snmp was identified and fixed previously.

PAUB-32543 - Graphs are zoomed in

Fixed loop exit condition to stop when the desired period is completed

PAUB-32521 - Implement partial files ranged requests handling as separate files on disk

Adds support for ranged requests as part of HTTP 1.1 compliance

PAUB-31477 - SNMP data causing gaps in the graphs

Validate disconnect reason counter names to avoid adding incorrect counters

PAUB-32078 - Interface is overloaded when traffic is below total capacity

Increase averaging duration from 2 seconds to 5 seconds to help smooth out traffic spikes.



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Release Overview

Release Version	UltraBand 7.0.11
Release Date	March 10 , 2021
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">• Upgrade Package for UltraBand 7.0.11 (Requires ISO version to 7.0.10)• Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.11 release: Total Change Count: 6

Fault Analysis Report

PAUB-32640 - Application restarted with coredump

There was a segmentation fault when calling ip2_str function where we can understand that a pointer is used before checking NULL, so I have added a NULL check before usage.

PAUB-32649 - Add missing Integrity checks for CMDB Delete Operations

When CMDB delete operation is triggered, checking the boundaries before deleting the range of entries.

PAUB-32656 - Uninitialised buffer error when loading configuration file

Memory leak during the loading configuration is fixed.

PAUB-32661 - Wrong statistics for IO_DELETE_ERRORS stats

Current stat value calculation was also including some other stat and which was causing this error stat to be shown incorrectly.

PAUB-32657 - Application Crash with LWIP Pool Expiration process

NULL check was missing in `connection_data_manager_c::process()` function so that it can get a core dump with signal 11 (segfault) when connection is set to NULL somewhere else. So we have added a NULL check there.

PAUB-32618 - sysLocation attribute showing Unknown

snmp-syslocation config added.



UltraBand™ Version 7.0.12

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Release Overview

Release Version	UltraBand 7.0.12
Release Date	April 16 , 2021
Release Type	General Availability
Deliverables	<ul style="list-style-type: none">● Upgrade Package for UltraBand 7.0.12 (Requires ISO version to 7.0.10)● UltraBand 7.0.12 ISO● Release Documentation (Release Notes)
Additional Information	Improvements in UltraBand 7.0.12 release: Total Change Count: 3

Fault Analysis Report

PAUB-32807 - Restarting with coredump

Fixed the error that caused the health check watchdog to fail and caused it to restart.

PAUB-32851 - Vulnerabilities scan fails (Docker)

Upgraded the packages and kernel for the vulnerabilities found in the Nessus scan.

PAUB-32852 - Vulnerabilities scan fails (ISO)

Upgraded the packages and kernel for the vulnerabilities found in the Nessus scan.