



# UltraBand v-5.7.7

Release Notes

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## Release Overview

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|-------------------------------|---|
| <b>Release Version</b>        | UltraBand 5.7.7   |
| <b>Release Date</b>           | June 15 , 2018  |
| <b>Release Type</b>           | General Availability  |
| <b>Deliverables</b>           | <ul style="list-style-type: none"> <li>• Upgrade package for existing UltraBand 5.X instances</li> <li>• Release Documentation (Release Notes)</li> </ul> |
| <b>Additional Information</b> | 10 bug fixes with UltraBand 5.7.7 release   |

## Fixed Customer Defects Summary

| JIRA ID    | Zendesk ID                                     | Description   |
|------------|--|---|
| PAUB-15574 |  | Black-list support for Live   |
| PAUB-16046 |  | Make caching license gracing parameters configurable (More convenient licensing alerts) |
| PAUB-17656 |  | Pang restart by software watchdog with Signal 11  |
| PAUB-17182 | 271246<br>271870<br>290944<br>291631<br>292618 | Application crash with core (Cache Engine Stability is increased)                       |
| PAUB-17144 | 263503<br>272139                               | System keeps crashing with Coredump (Cache Engine Stability is increased)               |
| PAUB-16078 | 281791   | XBOX download failures  |
| PAUB-17052 | 261016   | Extensive amount of informative errors in the pang log (Logging has been changed)       |
| PAUB-17812 | 287937   | Wrong license enforcement (No more unimportant licensing alerts)                        |

|            |  |   |
|------------|--|---|
| PAUB-17084 | 265747<br>267041<br>268309<br>268728<br>272614 | Severe LWIP (c/o connection) leak<br>(CO Degradation will be prevented) |
| PAUB-17303 | 250726<br>275226<br>289171                     | CMDB oversized and constantly growing<br>(Cache stability increased)    |

## Fault Analysis Report

### PAUB-17303 CMDB oversized and constantly growing

A very detailed investigation was conducted for this issue, it was understood that the problem started when the expiration mechanism for the CMDB changed. Instead of deleting the expired hash immediately (which was causing race conditions and sync problems between Grid Cache Engines) hashes for a configurable time slot are now blocked and locked, and deleted periodically.

A bug on the code was affecting expiration and eventually causing CMDB bloat and crashes. It could be seen on UB logs that total files and new hash files were above the limit. The provided fix solved expiration and wrong calculation problems on the database.

### PAUB-17084 Severe LWIP (c/o connection) leak

An extensive study was done for this issue to detect the root cause of the problem. Our findings showed that LWIP (Light Weight IP) stack connections were not released successfully in some cases where webcache traffic is handled. To prevent this issue an expire mechanism was implemented to prevent leaks from occurring again . Issues to handle the TCP FIN messages properly were also addressed.

### PAUB-16087 XBOX Download Failures

Game download tests were performed over this UB release without the issues previously seen on old versions.

15G-65G game downloads were tried out on XBOX One 1540 (OS 10.0.17134) to simulate cache out with no errors.

A similar issue as the one reported on this ticket, for which a fix algorithm was provided to fix, was identified as affecting in the same pattern and symptoms.