BLACK BOX®

Firmware Revision Information

Product Code(s): BXAMGR
Product Name(s): Boxilla Enterprise-Level KVM and AV/IT Manager Release

Version: Boxilla 4.6.1.7054
Date Modified: 08th February 2023.

This Document outlines:

1. Updates and Fixes on the Release
2. Boxilla System Firmware Version and Compatibility
3. Firmware Installation
4. Appliances supported
5. Additional Notes

For further information, please review the Boxilla Manual.

Updates and Fixes on this Release

BXA_4.6.1 (from BXA_4.6.0) has the following new features:
1. Static NAT support added.
2. Syslog Heartbeat support added.
3. Remote Backup support added.
4. Northbound REST API extended to support retrieval of Boxilla nightly backup.
5. Security enhancements

Bugs Fixed included in BXA_4.6.1
1. 4790/4791/4591: [Security] Enhanced Security
2. 4861 [Cluster] Changing NTP setting & Timezone broke Boxilla GUI in Cluster
3. 4215 [Cluster] Standby (bxa1) is not accessible after do "Removed failed" and click on "Dissolve Cluster" from VIP
4. 4553 [Cluster] Switchover to Active Getting PG::Error when Rj-45 is disconnected from Standby Boxilla
5. 4874 [UX\UI] Connections, Active: bandwidth bars / graphs missing from shared optimised connection
6. 4501 [UX\UI] Dual Stream - Incorrect FPS values shows for dual stream bonded connection when enables "Toggle Bonded View" .
7. 4806 [UX\UI] Dual Stream : Dashboard - Graphs are showing data even if no connection for the Toggle dual stream enables
8. 4801 [UX\UI] Enhancement request - replace Error 500 with a user friendly message
9. 4857 [UX\UI] Expect to show the details window is with "EMD100 USB" instead of "USB" in peripherals page.
10. 4873 [UX\UI] Connections -> Manage - Filter and next page issues in "Connection bonding list" window.
11. 4472 [UX\UI] Bonded connection table shows "Showing 1 to 0 Results out of 0" When there is no bonded groups available/created

12. 4550 [UX\UI] Without selecting template type user able to save device template
13. 4708 [Appliance Upgrade] BXA will become fully unresponsive if during f/w version upload process drag and drop a few more f/w
14. 4813 [Zones] Incomplete Error message displayed, when a user tries to add bonded devices to the Zone Device list
15. 4745 [BXA License] Default connection were not created for device when do unmanage and manage it again with other name when max number of licences is reached.
16. 4553 [Cluster] Switchover to Active Getting PG::Error when Rj-45 is disconnected from Standby Boxilla
17. 5036 [EMD-100] Error message displayed while discovering EMD100 devices
18. 5091 [Settings] Failure of NBR API; Unable to Update the System Properties of the ZeroU DP Devices
19. 5103 [Settings] Showing DVI instead of DP for EDID settings of ZeroU DP appliance
20. 5104 [Settings] Showing 2 EDID options for ZeroU DP appliance in Edit Settings page .

Notes on this Release: - Known issues for 4.6.1

1) To manually add an EMS Switch go to Switches – Status page. Note: the Discovery – Add Manually page is for Emerald KVM Appliances only.
2) If your EMS Switch has been upgraded to v10.5.1 without Boxilla 4.2.0 or later, a manual updating process must be performed by Black Box to make it manageable by Boxilla.
3) Boxilla 4.5.1 supports the downgrading of V10.5.2.10 EMS Switches to V10.5.1 via the rollback mechanism. For this operation to work, V10.5.1 must already exist on the Standby partition of the switch.

BOXILLA System Firmware Version and Compatibility for Version 4.6.1

This firmware has been validated with the following **released** versions of Emerald appliance firmware:
- EMD-6.0.4
- EMD-6.1.1
- EMD-6.1.2
- EMD-6.1.3
- EMD-6.2.0
- EMD-6.3.3
- EMD-6.3.10
- RemoteApp V2.2.1
- RemoteApp V2.3.0
- RemoteApp V2.4.0
- RemoteApp V2.5.3
- RemoteApp V2.6.0
- RemoteApp V2.7.0
- RemoteApp V2.7.3

All versions of appliances should be upgraded to the latest version available on our website to ensure support for latest features. Boxilla Manual has the appropriate upgrade instructions.

Firmware Upgrade
Pre-requite: Ensure you have access to the Boxilla unit, as you may need to power cycle it following the upgrade.

Please Note: **Boxilla must be upgraded first, then the appliances.**

1. Download the Boxilla to a PC where you can access the web interface of the BOXILLA.
2. Log on to the Boxilla server via its web interface.
3. On the web interface go to System, administration page and select Upgrade.
4. Upload the image.
5. The image will be listed in the upgrade table.
6. Click the options button for the image and select activate.
7. A message will appear indicating that the upgrade is in progress.
8. You should be automatically returned to the dashboard once the upgrade has completed
9. If you receive an error message or system does not respond within 5 minutes, power cycle, the Boxilla unit and the upgrade will be complete

Notes
- Static IP addressing **must** be implemented on Receivers and Transmitters to allow them to be managed.
- The Manager **must** be assigned a static IP address.
- This firmware version supports both BXAMGR-1 and BXAMGR-2 hardware units.
- On successful power up, the BXAMGR-2 model should display the following message on the LCD panel:
    - "Boxilla KVM Manager".
- The buttons on the LCD on the BXAMGR-2 model are disabled by default.
    - Operation of the buttons on the LCD panel is not support.
- The Enterprise Manager sends traffic to the KVM network via Ethernet port 1.
    - In BXAMGR-2, Ethernet port 1 is the left most Ethernet port.
        - This port is labelled #1.
- BXAMGR-2 models shipped from the factory will be deployed with BXA version 4.4.0.6379.
    - This version is equivalent to BXA software upgrade(.bbx) version 4.4.0.6370.
- To support successful operation of EMD 100 devices, ensure the Power Option - USB Selective Suspend Setting is set to Disabled.
- Static NAT:
    - When configuring the communications path between Emerald devices and Boxilla, please ensure the relevant ports are forwarded on the NAT firewall\server.
        - If Boxilla is connected to the network via a NAT firewall\server, the relevant ports on the NAT firewall\server that Boxilla is connected to should be forwarded.
        - If Emerald devices are connected to the network via a NAT firewall\server, the relevant ports on the NAT firewall\server that the Emerald devices are connected to should be forwarded.
        - If both Boxilla and Emerald devices are connected to the network via separate NAT firewall\server, the relevant ports on the NAT firewalls\servers that both Boxilla and the Emerald devices are connected to should be forwarded.
    - The list of relevant ports is documented in Appendix B of the Boxilla User Manual.
- SNMP Agent, Supported MIBs:
    - The SNMP Agent on Boxilla supports the following MIBs:

- Blackbox Entity MIB:
  - The MIB module representing BlackBox Devices' implementation of enterprise specific MIBs for Boxilla, Emerald and peripherals products.
- snmpv3mibs:
  - SNMP Management & Framework MIB implementation.
- mibII/sysORTable:
  - MIB table implementation for listing the capabilities of
  - the local SNMP application.
- mibII/vacm_vars & mibII/vacm_conf:
  - Implementation of snmp protocol used View-Based Access Control Model (VACM) as defined in RFC 2575.

Previous Release Notes:

BXA_4.6.0 (from BXA_4.5.1) has the following new features:
1. Dual Stream, added to support full Emerald device interoperability.
2. UX\UI: Connection Viewer now supports Auto Refresh.
3. New Platform Support:
   a. EMD2002PE-DP-T.
   b. EMD2000PE-DP-T.
   c. EMD2002SE-DP-T.
   d. EMD2000SE-DP-T.
4. SNMP supported added.
5. Secure LDAP support added.
6. Secure Syslog Server support added.
7. Added support to Enable\Disable Flashing LED on Emerald devices.
8. Disable TLS 1.0, 1.1 & RC4

Bugs Fixed included in BXA_4.6.0
1. 4510 [UX\UI] Inaccurate message appears while saving with same Receiver name twice in Receiver group
2. 4606 [UX\UI]Devices | Settings | Connections filter is not functional
3. 4623 [UX\UI]Switch | Status | Desc/Asc order of the Ports Online filter doesn't function as expected
4. 4624 [UX\UI]Users | Manage | OU status filter doesn't function as expected
5. 4625 [UX\UI]Active Connections | Dropped-Frames-Per-Second filter doesn't function as expected
6. 4148 [UX\UI] Edit existing user or create new user click on "Cancel" button redirect to Upgrade page not to Boxilla user page .
7. 4262 [UX\UI]: Remote app - Token expiry 'Apply' button is clickable without doing any changes
8. 4307 [UX\UI] Request to show all connections assigned to a TX device.
9. 4349 [UX\UI] Device setting of "Video source opt" is showing as "DVI optimised" but from OSD is showing as "DVI/DP optimised"
10. 4381 [UX\UI] Uploaded Switch file to BXA, displayed twice
11. 4452 [UX\UI] Overlapping Text under Connection-->Active Connection when Display scale is at 125% and more
12. 4522 Created bonded group(with duplicate Receiver) is not showing the under group table until user does refresh.
13. 4527 [UX\UI] Mismatch active connection count from connection viewer page to dashboard page
14. 4528 [UX\UI] Receiver device didn't get deleted on UI Even after removal from the Active connection
15. 4536 [UX\UI] Individual connection also showing in bonded connections list in "Bonded Connection viewer" section
16. 4537 [UX\UI] Inactive Receivers count shows negative value for some time (until auto refresh)
17. 4544 [UX\UI] Device setting connection shows the same filter result for all devices connection windows
18. 4561 [Users] Updating a user with username which is exists in boxilla gives success message.
19. 4273 [UX\UI]: Create user template retains old data like auto connect and remote access
20. 4348 [UX\UI] "Auto connect name" Should be greyed out ,until to user enables "Auto Connect"
21. 4417 [UX\UI] Search functionality was not working for Receiver filed under Bonded group table
22. 4426 [UX\UI] Switch | Port Status sort is not functional
23. 4434 [UX\UI] Users->Manage connection - filter used for one user is showing for other users as well
24. 4448 [UX\UI] Preset Naming issue - 'Name' field not accepting uppercase letters
25. 4464 [UX\UI] Active connection -> N/W BW and FPS,RTT...data was not updating on UI, when connection is launched from RA
26. 4486 [Upgrade] Boxilla version downgrade failure due to page loading issue.

27. 4511 [UX\UI] user template is not showing in Delete template window
28. 4512 [UX\UI] Connections, Active Connections: Graphs may dip intermittently to zero even if appliance stats aren't zero
29. 4520 [LACP] Boxilla is flooded with LACP active alerts which causes a performance drop
30. 4526 [UX\UI] Create connection preset allow to select same Receiver for multiple Transmitters
31. 4532 [UX\UI] "Show Online" ,"Show Offline" buttons in Devices | Upgrades page doesn't function as expected
32. 4140 [Presets] Presets connection launch successfully, but 'Activating Preset' spinner continue for 15-20sec in Boxilla
33. 4204 [Device Manage] If managing an appliance fails due to the appliance already been managed then recommending referencing the managed appliance name and ip address in the error message
34. 4219 [VMs] Excessive number of Deleted Active Alerts (every minutes) from a managed Receiver in an active VM connection
35. 4266 [Switches] Enhancement request: Remove unused field in BXA | Switch |Edit Networking -Gateway
36. 4410 [UX\UI] Success toaster message didn't appears when do Unmanage a device
37. 4411 [UX\UI] Inaccurate alert message appears for Unmanaged device
38. 4428 [Time Zone] Change time zone and save leads to looping infinite spinner
39. 4436 [Users] Manage - Old domain user status still showing OU status as correct.
40. 4454 [UX\UI] Tool tip error message doesn't appears when user enters connection name with only whitespace
41. 4346 [Upgrades] Feature Request: Devices Upgrades, add option to select OnLine | OffLine | All devices.
42. 4357 [Users] Boxilla is allowing to delete "Current logged BXA user" .
43. 4380 [UX\UI] Bonded Connections: Common Error message appears for different invalid input in bonded connection name field.
44. 4459 [Syslog] Add Test connection for syslog on Alert settings page
45. 4323 [Switches] Switches | Status | Details: Up Time for switches doesn't reset after a switch reboot
46. 3726 [Active Directory] Active directory users cannot use Favourites while connections are part of a zone
47. 4299 [Switches] Switch | Switch Name | Sort - not sorting Alphanumerically
48. 4267 [Switches] 10GB & 100GB Switch 10.5.2.10 - No BXA Alert created , when the IP of the switch is changed
49. 4300 [Switches] Switch | Search -doesn't work as expected
50. 4321 [Switches] Direct navigation to switches upload firmware page, bypasses upgrade file limit
51. 4217 [Settings] Boxilla Devices/Settings 4K Transmitter Edit Settings: Missing Config Options 'Video Quality'/'Video Source Opt'
52. 4216 [Settings] Boxilla Devices/Settings Browsing 2k & 4k Transmitter settings via Edit Settings Modal: 'EDID Settings DVI/DP 1' combo become EMPTY
53. 4268 BXA 4.5.0_6656 _10GB & 100GB Switch 10.5.2.10 - When the Switch is rebooted via Switch | Status | Reboot option, then the "Ports On-Line" counter is not reset to 0.
54. 4192 [Connection Viewer] Connection Viewer does not show Remote App launched Connection
55. 4789 [Security] SSL/TLS: Missing `secure` Cookie Attribute (443/TCP)

BXA 4.5.1 (from BXA 4.5.0) has the following bug fixes:

1.   4355 - Boxilla is fail to load Active Connection page when Bonded connection has 2 or more shared connections.
2.   4356 - Boxilla 4.5.0 - Switches connections page fails to load.

BXA_4.5.0 (from BXA_4.4.0) has the following new features
   1. Security Enhancements.

2. Added support for Windows 10 Remote App: Headless CLI Feature.
3. EMS Switches:
   a. Added support for EMS Switch OS 10.5.2.10
   b. Added support for EMS100G32-R2.
   c. EMS100G32: Added support for Breakout Modules.
4. UX\UI:
   a. Connection Viewer page now supports Auto Refresh.
   b. Peripherals Settings page now supports Auto Refresh.
5. Devices Settings:
   a. Replaced HID Configuration – Dual Mouse option with Absolute Basic option.
6. Users | Manage:
   a. Removed character restrictions from KVM User Passwords.
7. Alerts:
   a. Added History Alerts for Peripheral operations.

Bugs Fixed included in BXA_4.5.0
1. 4147 [Peripherals] Changing extender ip address didn't get updated in Discovery even after page refresh
2. 4063 [Peripherals] Discover button does not have a progress spinner when clicked on
3. 4068 [Peripherals] Discovery may display an EMD100USB-12L model as "Unknown"
4. 4069 [Peripherals] Discovery not consistent in returned results
5. 4081 [Peripherals] USB device not been redirected by EMD 100 Remote after unbonding and rebonding the EMD 100 Remote
6. 4085 [Peripherals] Active extender connections reported for offline remotes
7. 4107 [Peripherals] Off line EMD100USBs "Change extender name" is showing success message
8. 4073 [Peripherals] Details option succeeds with an offline EMD 100 Remote (powered off)
9. 4084 [Peripherals] "On-Line Devices" does not update when devices go offline
10. 4099 [Peripherals] The USB extender alerts wording corrected
11. 4100 [Peripherals] USB extender alerts generated correctly
12. 4071 [Peripherals] Offline EMD 100 Remote (powered off) is showing as online in Settings
13. 4072 [Peripherals] Ping option succeeds with an offline EMD 100 Remote (powered off)
14. 4074 [Peripherals] Offline EMD 100 Remote device preventing bonding edit of online EMD 100 Local device as reported to be in connection with the EMD 100 Local device
15. 4116 [Peripherals] "Edit Network" from "Settings" page is giving error below ,but the same "edit network" option is working as expected from "Discovery" page .
16. 3899 [Peripherals] After selecting a reset option -no success message displayed - Resolved
17. 4168 [UX\UI] BXA reporting Avg values >Max values in charts on Status & Performance fields on Dashboard screen.
18. 1234 [UX\UI] Users should have alphanumeric sorting for managing connections and favourites
19. 3764 [UX\UI] Duplicate template creation fails, but BXA navigates away from page.
20. 4041 [UX\UI] Connections, Viewer: + button for active connection always displays "Private connection already in use" even for shared connections
21. 4049 [UX\UI] Users: request to add sorting to make it easier to find users on the RX OSD
22. 4050 [UX\UI] Connections: connections now sorted correctly with a mix of upper and lower case connections when downloaded to the appliance
23. 3795 [UX\UI] Search filter is now working as expected in Connection group pages
24. 3810 [UX\UI] After creating Boxilla user it redirects to Upgrade page not to Boxilla user page
25. 4166 [UX\UI] Routing Error reported & Trace buffer displayed when invalid field entered in URL.
26. 4034 [Connections] Connection bandwidth for shared optimized connections is been incorrectly treated as multicast connections (may result in underreporting of effective bandwidth usage) - Resolved
27. 3805 [Connections] Active connection count is showing incorrect count when launch from RA, but the same is showing correct data from OSD launch.

28. 3923 [Connections] Viewer: Viewer unable to load (blank screen) after using it to update active shared connection with more RXs
29. 4145 [Devices] Create connection with special name "Transmitter" and it been automatically removed from database
30. 4226 [Devices] Boxilla-4.5.0: Boxilla does not contain Absolute Basic and Absolute MAC HID options for ZeroUDP.
31. 4124 [Presets] Preset name is showing empty after refresh the connection viewer page -Resolved
32. Discovery issues resolved4082 [Authentication] Boxilla & Emerald: Allowable Password characters need to be updated to support the Microsoft standard for passwords policy settings.
33. 3975 [E-Mail Alerts] If authentication is not required then disable unrequired fields to make it more intuitive
34. 4052 [E-Mail Alerts] Email alert not sent after cluster failover - Resolved
35. 3944 [Switches]100Gb Switch - unable to activate "enable share mode", due to BXA error - Resolved
36. 4161 [Switches] Status: Ports stats are been incorrectly colour coded as red when they should be green - Resolved
37. 4224 [Switches] 100 GB Switch - Switch | Status- Active Alerts feature is now functional
38. 4265 [Switches] BXA 4.5.0_6656 - Downgrade of the 10GB/100GB EMS switch is not supported if the release version is not active or standby - Resolved
39. 4236 [Switches] Connections page: shared connection thresholds are incorrect - Resolved
40. 4054 [Zones] "Users" count is misleading on Zones Dashboard – Resolved
41. LS-588 [Devices] Feature Request - Add device name on settings page

BXA_4.4.0 (from BXA_4.3.2) has the following new features

1. Added support for new Boxilla hardware unit – BXAMGR-R2.

Bugs Fixed included in BXA_4.4.0

1. 3804, After Switchover to previously failed Boxilla unit, not able to access Master/VIP Boxilla
2. 3798, Duplicate VIP address results in two different Master Boxilla with the same VIP address.

Notes on this Release: - Known issues for 4.4.0

1) To manually add an EMS Switch go to Switches – Status page. Note: the Discovery – Add Manually page is for Emerald KVM Appliances only.
2) If your EMS Switch has been upgraded to v10.5.1 without Boxilla 4.2.0 or later, a manual updating process must be performed by Black Box to make it manageable by Boxilla.

BXA_4.3.2 (from BXA_4.3.1) has the following new features

1. Updated Active Connections page – table contents.
2. Updated Boxilla-to-RemoteApp secure communications

Bugs Fixed included in BXA_4.3.2

1) Updated "spinner" to inform user when logs are taking a long time to be generated (when there a lot of events to be processed).
2) Insufficient error messaging when downgrading an Emerald SE to a pre 6.2.x version. The downgrade will fail without detailing the cause of the failure, which is a compatibility error.
3) USB Extenders showing multiple times if multiple discovery operations are initiated.
4) BUG-3786 BXA error message - Enhancement request – when DNS do not match when forming clusters – more specific error message LS-483 – security updates

BXA_4.3.1 (from BXA_4.2.0) has the following new features

1. LACP support for appliances
2. Added support for OU Security Groups for AD integration
3. Added new Active Connection view and graphs
4. Added new Switch's details for connections
5. Added email alerts for cluster failovers.
6. Added ability to generate self-signed certificates to enable secure SSL with browsers

Bugs Fixed included in BXA_4.3.1.6253

1. [LS-451] - AD user being logged out after Bonded Connection Terminate on non "primary" Rx.
2. [LS-449] - EMD100 Feature request -During the bonding process on Boxilla, remove any Pre-Configured Pairing in EMD100 units
3. [LS-410] – Boxilla Primary/Backup failover sometimes does not rejoin "failed" unit to cluster when it comes back online automatically (admin has to initiate this at times)
4. [LS-406] – Boxilla user logout API fails occasionally
5. [LS-369] - Filters on Boxilla pages are not retained when user does action on a device and come back to page with list
6. [LS-398] - Alerts/History/All search functionality is not consistent – limited alerts to 300 max per class – now unlimited, but retained only last 7 days events.
7. [LS-367] - Bandwidth graphs "strange" dropping back to Zero on 4k devices occasionally (due to timing sync)
8. [LS-218] – Security Enhancements
9. [LS-215] - Boxilla 3.6 SMTP Authentication when "none" selected on server
10. 2652 [Alerts] Zones: Extend alert generation to include Edit, and Delete operations.
11. 3243 [Switch] FR: If switch is offline then the Bandwidth In and Bandwidth Out bars should be empty
12. 3493 Connections, Viewer page often times-out when attempting to load
13. 3494 [Upgrades] User returned to Select Devices tab after uploading appliance upgrade image.
14. 3517 User 'invisapc_user' displaying for Active Connection.
15. 3541 Connection properties are not visible for one of the connections on connection viewer
16. 3545 Alerts are being logged with string "Alert Time String" instead of a timestamp.
17. 2452 [Northbound] Sending multiple set device properties can cause some requests to fail
18. 3418 Reset DB doesn't remove receiver groups
19. 3421 [Bonding] Invalid message when editing receiver group name
20. 3422 [Bonding] Receiver may be assigned to invalid receiver group

Notes on this Release: - Known issues for 4.3.1

1) To manually add an EMS Switch go to Switches – Status page. Note: the Discovery – Add Manually page is for Emerald KVM Appliances only.
2) If your EMS Switch has been upgraded to v10.5.1 without Boxilla 4.2.0 or later, a manual updating process must be performed by Black Box to make it manageable by Boxilla.
3) Insufficient error messaging when downgrading an Emerald SE to a pre 6.2.x version. The downgrade will fail without detailing the cause of the failure, which is a compatibility error.
4) USB Extenders showing multiple times if multiple discovery operations are initiated.
5) Exporting logs can take time to complete

BXA_4.2.0 (from BXA_4.1.0) has the following new features
1. Support for updated EMS Switch Software version 10.5.1.
2. Added UI Enhancements/Auto-Refresh to EMS Statistics pages.
3. Added new Switches Active Connection View.

Bugs Fixed included in BXA_4.2.0
1. Fixed Connection Viewer 'More Info' button when more than 3 receivers are active.
2. RestApi Alerts enhancements.
3. EMS 10.4.2. stuck in 'Unresponsive' state.
4. Remote App Licensing not freeing up quick enough when connections close.
5. Video quality is being set on 4k TX devices when device is set to system or template settings
6. Switches - Uptime is stuck displaying "Retrieving..."
7. Serial CLI: Restore to Factory Defaults fails, unable to login via Web Interface.
8. No alert generated in Boxilla when a device is rebooted from RestAPI.
9. 'Upgrading Boxilla may take up to 12 minutes, Please Wait' added to upgrade spinner.

Notes on this Release: - Known issues for 4.2.0
- **Only the last 100 alerts per category are displayed on the Alerts/History page. Therefore all switch alerts may not be visible on the Boxilla UI.**
- **To manually add an EMS Switch go to Switches – Status page. Note: the Discovery – Add Manually page is for Emerald KVM Appliances only.**
- **If your EMS Switch has been upgraded to v10.5.1 without Boxilla 4.2.0, a manual updating process must be performed by Black Box.**

BXA_4.1.0 (from BXA_4.0.5) has the following new features
1. **Bonding**
2. **RemoteApp Connection List filtering for AD Logins**

Bugs Fixed included in BXA_4.1.0
1. Launch Connection is returning internal error 500
2. RestApi Performance improvements,
3. Appliance Upgrade: Need to power cycle Boxilla if unable to contact ZeroU appliance following reboot of appliance after upgrade
4. RestApi: Receiving 403 while continuously running a sequence of Create active connection -> Get active connection -> Terminate connection
5. AD OU not getting assigned connections from connection group
6. DN not being correctly parsed when AD user is not set up in Boxilla
7. Upgrades: select all ignores the search filter and selects every managed appliance to upgrade

8. Retain filter settings on Auto Refresh.
9. Add check to prevent upgrading a Boxilla unit when an existing upgrade is in progress.
10. Add support to retrieving 4K device diagnostics via Boxilla manager

Notes on this Release: - Known issues for 4.1.0

- **Boxilla cannot be restored via the serial port , the serial menu is not available. The manager gui must be use to restore.**

Bxa 4.0.5 (from 3.6.1) has the following new features:

1. Interop between EMD-4k and HD devices (SE/PE and ZU) (add new parameters to Connections – called compression mode – "Optimized" for HD devices and "Lossless" for 4k devices;
2. North-bound REST API extend to include Zones;
3. Added support for the following ZeroU appliances:
    o EMD200DV-T-NXL
    o EMD200DP-T-NXL

4. Added Device column to Switch | Status | Ports page.
    o If appliance attached to switch port (leaf port), displays appliance name if managed or MAC address if unmanaged.
        ▪ If managed, tool tip displays: MAC, IP, Model & Audit State.
    o If > 1 appliance attached to switch port (trunk or core port) displays 'Multiple' string only, no device details;

Bugs Fixed included in BXA 4.0.5 release:
1. Resolved issue on Active Directory extended domain names
2. GET bxa-api/connections/kvm/active/summary reports Error Code 500.
3. Dashboard Active Connections not displaying top 10 connections based on activity occasionally.
4. Sort functionality in Devices | Statistics |Up Time - doesn't sort by the hours (was by text).
5. Time on screens treated as "text" when sorting a table instead of being a time
6. Active connection reporting on Boxilla stopped working when Login with AD user on Rx
7. Connections: Active connections returning 0 for all VM stats
8. Filters on screens not maintained through a refresh – so filter had to be re-entered
9. Pre-set cannot be deleted/renamed (LS-195)
10. BUG-2936 Devices, Upgrades: upgrading appliances unavailable as after upgrading an appliance its status was stuck on Rebooting
11. BUG-2905 [DB Reset] Connections: defined connection groups missing after export and import to a reset DB
12. BUG-2836 [Device Settings] No error toast notification when invalid device settings are applied to a device through system settings
13. BUG-2853 Postgres time zone set to GMT after upgrade.
14. BUG-2951 [UX\UI] User type for AD user who does not exist on Boxilla not being reported correctly
15. BUG-2950 [UX\UI] Dashboard - Active logins - Duration is not appearing in all the tables
16. BUG-2827 [UX/UI] Error toast notification when applying a template with incompatible properties to a device give the template ID instead of name

17. BUG-2882 [UX\UI] - When you select Devices | Settings from BXA,then the System option is highlighted as well
18. BUG-2787 [UX/UI] User favorite hot keys are set to 1 - 10 instead of 1 – 0
19. BUG-2832 [VM Stats] Connections: Active connections returning 0 for all VM stats
20. BUG-2874 Dashboard Active Connections not displaying top most active 10 connections occasionally
21. BUG-2857 Dashboard/Active Connection stats go to 0 when time zone changes.
22. BUG-2660 [TX Settings] Creating device settings template for 4k device allows invalid settings to be set which causes 4k appliance to enter failed state
23. BUG-2661 [TX Settings] Unable to set 4k device to system properties
24. BUG-2755 [UX\UI] FR: Consider disabling Auto Refresh on a screen once user sorts a column.
25. BUG-2819 Changing of settings in the Transmitter results in some units in a Status of "Waiting"

Notes on this Release: - Known issues for 4.0.5

1. Analogue audio bandwidth not displayed on statics for connections
2. Connection properties should use alphanumeric only character and avoid unique character such as , but not limited to á é í ó ú ñ à ê e Ø

This build requires the following appliance software:
- 2K: V6.0.4._r8050 or later.
- 4k: V6.0.4_r8050 or later.

Bxa_3.6.2.5681 (a minor upgrade Bxa_3.6.0.55565) Release Notes

Additional issues resolved specifically on Bxa_3.6.2.5681
1. Optimized the loading on the device settings pages (occasionally very slow in loading page)
2. Resolved Boxilla Statics and connections not showing up or stopping occasionally
3. Optimized applying the device settings (some devices sometimes stayed in "waiting" state)
4. Emerald 4K units could not be added to managed devices manually in Boxilla

Notes on this Release: - Known issues on Bxa_3.6.2.5681

1. Pre-set cannot be deleted/renamed
2. Analogue audio bandwidth not displayed on statics for connections
3. Filters on screens not maintained through a refresh

Bxa_3.6.0.55565 Release notes:

Bxa 3.6.0.55565 release added the following new features:

- Zones – ability to create access rights based on a "zone" which a Receiver can be allocated to (same login – but different rights on different Receivers)

- Enhanced Active Directory configuration options – mapping OU to KVM Groups to create default behavior for groups to remove need to add users to Boxilla database for users who can have common access rights.
- North Bound API – added addition to API (a) user login/logout (b) Reboot (c) Connection Summary (stats)
- Enhanced event log for syslog and email alert