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HOME Product Release

Product Release:

v2.12.0-45 – GA

Release Date:

15th May 2025 - General
Availability (GA) version

Important notes

- To check the compatibility of end devices with this HOME release, please refer to the release notes provided by the respective controllable device.
- Please contact HOME Product line team in case you intend to install **Limited Availability (LA) versions**.

HOME v2.12.0-45 - GA

Release Date: 15th May 2025 – General Availability (GA) version

New Features/Improvements

Note: The features and improvements listed below were already included in v2.11.0-40 (LA), but are now being introduced in a public release for the first time with v2.12.0-45 (GA).

- **HOME system ID generated ONLY using physical interfaces:**
 - Up until now, the system ID was generated based on the physical interfaces, Docker Network Bridges, and logical interfaces generated via Netplan configuration (e.g., Bond). To allow engineers to change the network configuration, by adding or removing a bonded NIC, R&D has removed the utilization of Docker Network Bridges and logical interfaces from the System ID generation. For upgrades, a version field has been implemented in the code, allowing HOME to validate the System ID generated by the former method (version 0/unset) and update it to version 1 without needing to change the System ID or replace license files. For new HOME systems, the System ID will be generated already using the newest method – version 1.
- **Microservices: Splice optimizations and enhancements**
 - Optimized splice update processing: Splice update handling has been updated to check only updates that represent changes in the senders/receivers from the state already cached.
 - Optimized splice connection processing: Performance has been improved by using multiple goroutines and workgroups to process SetSords for different targets in parallel.
 - Improved splice performance by stripping duplicate updates from replica proxies (3 instances): Modified Splice so that duplicate sord updates are ignored to prevent message amplification when triple replica microservices are used.
 - Splice resync processing offloaded from update handling: Offloaded the resync processing from Splice's update handler, with a holdout timeout, and stored pending requests in a map to de-duplicate the set of SetSords transactions required, ensuring that the last one always wins.
- **Microservices: NMOS-Import**
 - Added a timeout to all HTTP operations handled by NMOS-Import. The aim is to prevent the HOME system from entering a blocking/hanging state due to latency or malfunctioning of the endpoint device after patch operations. A timeout of 2 seconds has been added for HTTP operations called by HOME.
- **NATS: Introduction of pagination for GetAddress transactions**
 - To avoid potentially hitting the NATS maximum payload on very large systems, pagination (stream chunks) has been introduced for GetAddress transactions. Changes to Splice and Bifrost were necessary to support this optimization. Changes have also been included in the Datamodel to allow developments based on chunk generation.
- **Optimise intelligent MV IP Proxy routing**
 - Added a flag in the installation playbook allowing the engineer to enable or disable the ProxCon functionality. When disabled, it basically does not install or run the ProxCon container, making Splice accept connect.addresses requests directly. When ProxCon is enabled, the container receives all connect.addresses requests and either:
 1. Forwards them directly to Splice via internal.connect.address when the connection doesn't involve intelligent MV with IP Proxy flows; or
 2. Performs the logic to select the correct IP Proxy resolution that needs to be patched and requests the patch of the correct Proxy version to Splice using the internal.connect.addresses command.

Bug Fixes

- [\[RNDHOME-1609\]](#) - NMOS Exporter update HTTP timeouts.
- [\[RNDHOME-1631\]](#) - HOME update loses Prometheus data.
- [\[RNDHOME-1643\]](#) - Auto UHD Core Failover: Ember client failing to send status updates for interfaces when multiple links change at once. **Note:** To fix this issue, the **NodeSys 4.2.1.3** is required as it contains a new version of the HOME Agent.
- [\[RNDHOME-1644\]](#) - NMOS Importer stops processing updates from the RDS.
- [\[RNDHOME-1647\]](#) - NodeSysUpgrader can falsely report A__stage(s) back online immediately after upgrade – **NodeSysUpgrader version Info: 4.4.3**
- [\[RNDHOME-1649\]](#) - Ensure correct device status at server startup.
- [\[RNDHOME-1656\]](#) - Signals missing in MCX after system power cycle. **Note:** To fix this issue, the **NodeSys 4.2.1.3** is required as it contains a new version of the HOME Agent.
- [\[RNDHOME-1665\]](#) - Ensure isCaptured state updates are properly thread-safe to avoid being processed with a wrong status.

Note: The bug fixes listed below were already included in v2.11.0-40 (LA), but are now being introduced in a public release for the first time with v2.12.0-45 (GA).

- [\[RNDHOME-1406\]](#) - Round selection buttons edges are cut off when highlighted.
- [\[RNDHOME-1434\]](#) - Make SDI Gearbox Controls less brittle (Mapping).
- [\[RNDHOME-1442\]](#) - HOME UI: Alarm tally colour popup corruption.
- [\[RNDHOME-1450\]](#) - SDI IO page tables can display stale parameter values when updating dynamically.
- [\[RNDHOME-1512\]](#) - Stream Routing - Improve handling of overflowing buttons.
- [\[RNDHOME-1520\]](#) - GridTable does not fully render the last column on mount.
- [\[RNDHOME-1533\]](#) - Potential Race Condition with Splice ASR leading to a mismatch state between MCX and GPO.
- [\[RNDHOME-1535\]](#) - Editing of primary / secondary only sender sord parameters are blocked by invalid check.
- [\[RNDHOME-1542\]](#) - Dialogs in home keep the edited or type in text on reopen when cancelled.
- [\[RNDHOME-1543\]](#) - HOME UI: File extensions not working.
- [\[RNDHOME-1544\]](#) - Applied filter on destination table should get avoided when using show destination feature on IO routing page.
- [\[RNDHOME-1555\]](#) - Selecting "Show Destinations" for a multi-essence sord displays empty table.
- [\[RNDHOME-1560\]](#) - NMOS Exporter: Update cache handling.
- [\[RNDHOME-1567\]](#) - HOME UI - Health Notifications multiple appearances and re renders.
- [\[RNDHOME-1582\]](#) - NMOS Import:- Optimise message updates.
- [\[RNDHOME-1585\]](#) - Splice should never issue SetSords with sords containing no flows.
- [\[RNDHOME-1596\]](#) - NMOS Importer update HTTP timeouts.
- [\[RNDHOME-1597\]](#) - On streams page show destination list is not updated if user changes the source sord selection.
- [\[RNDHOME-1607\]](#) - NMOS Import :- Add ability to serialise patch operation per NMOS Node.
- [\[RNDHOME-1612\]](#) - Grouping ungrouping UHD Cores displaying nats timeout error.
- [\[RNDHOME-1613\]](#) - Rx SDP not updated with correct source device ID when UHD Core grouping ungrouping performed.
- [\[RNDHOME-1614\]](#) - Unable to create new receiver on NodeSys device.

HOME v2.11.0-40 - LA

Release Date: 28th April 2025 – Limited Availability (LA) version

New Features/Improvements

- **HOME system ID generated ONLY using physical interfaces:**
 - Up until now, the system ID was generated based on the physical interfaces, Docker Network Bridges, and logical interfaces generated via Netplan configuration (e.g., Bond). To allow engineers to change the network configuration, by adding or removing a bonded NIC, R&D has removed the utilization of Docker Network Bridges and logical interfaces from the System ID generation. For upgrades, a version field has been implemented in the code, allowing HOME to validate the System ID generated by the former method (version 0/unset) and update it to version 1 without needing to change the System ID or replace license files. For new HOME systems, the System ID will be generated already using the newest method – version 1.
- **Microservices: Splice optimizations and enhancements**
 - Optimized splice update processing: Splice update handling has been updated to check only updates that represent changes in the senders/receivers from the state already cached.
 - Optimized splice connection processing: Performance has been improved by using multiple goroutines and workgroups to process SetSords for different targets in parallel.
 - Improved splice performance by stripping duplicate updates from replica proxies (3 instances): Modified Splice so that duplicate sord updates are ignored to prevent message amplification when triple replica microservices are used.
 - Splice resync processing offloaded from update handling: Offloaded the resync processing from Splice's update handler, with a holdout timeout, and stored pending requests in a map to de-duplicate the set of SetSords transactions required, ensuring that the last one always wins.
- **Microservices: NMOS-Import**
 - Added a timeout to all HTTP operations handled by NMOS-Import. The aim is to prevent the HOME system from entering a blocking/hanging state due to latency or malfunctioning of the endpoint device after patch operations. A timeout of 2 seconds has been added for HTTP operations called by HOME.
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 - Added a flag in the installation playbook allowing the engineer to enable or disable the ProxCon functionality. When disabled, it basically does not install or run the ProxCon container, making Splice accept `connect.addresses` requests directly. When ProxCon is enabled, the container receives all `connect.addresses` requests and either:
 3. Forwards them directly to Splice via `internal.connect.address` when the connection doesn't involve intelligent MV with IP Proxy flows; or
 4. Performs the logic to select the correct IP Proxy resolution that needs to be patched and requests the patch of the correct Proxy version to Splice using the `internal.connect.addresses` command.

Bug-Fixes

- [\[RNDHOME-1406\]](#) - Round selection buttons edges are cut off when highlighted.
- [\[RNDHOME-1434\]](#) - Make SDI Gearbox Controls less brittle (Mapping).
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- [\[RNDHOME-1450\]](#) - SDI IO page tables can display stale parameter values when updating dynamically.
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- [\[RNDHOME-1607\]](#) - NMOS Import :- Add ability to serialise patch operation per NMOS Node.
- [\[RNDHOME-1612\]](#) - Grouping ungrouping UHD Cores displaying nats timeout error.
- [\[RNDHOME-1613\]](#) - Rx SDP not updated with correct source device ID when UHD Core grouping ungrouping performed.
- [\[RNDHOME-1614\]](#) - Unable to create new receiver on NodeSys device.

Known Limitations

- [\[RNDHOME-1382\]](#) - Sentinel reports spurious redundancy leader ID mismatch.
- [\[RNDHOME-1611\]](#) - Flow labels are cut off in sources table on streams page.
- [\[RNDHOME-1604\]](#) - On application log page applied filter bars dialogs are broken when user type in text box.

HOME v2.10.0-25 - GA

Release Date:

27th March 2025 – General Availability (GA) version

Bug Fixes

- [\[RNDHOME-268\]](#) - UI: Signal Ownership Groups Menu Button Wrapping
- [\[RNDHOME-1464\]](#) - Stream Routing "Connected Destinations" counter can report incorrect number of routes
- [\[RNDHOME-1480\]](#) - remove bifrost log - gqi not authenticated
- [\[RNDHOME-1482\]](#) - Health messages "(some process) NATS pending: x Bytes" warnings
- [\[RNDHOME-1502\]](#) - Disconnect not enabled on right side in HOME UI – stream routing page
- [\[RNDHOME-1504\]](#) - Efficient use of space on Stream Routing Page - narrow source area
- [\[RNDHOME-1505\]](#) - Fonts have changed from Inter to system defaults
- [\[RNDHOME-1515\]](#) - Unexpected Bifrost Log entries on GateServer Home Edition
- [\[RNDHOME-1534\]](#) - NMOS Importer: NMOS Device not being shown in HOME after being removed and added again in the registry.

HOME v2.9.0-12 - GA

Release Date:

12th March 2025 – General Availability (GA) version

New Features/Improvements

- **NMOS Import : Update the displayed Device Location:**
 - NMOS devices now inherit the Location label from the RDS Location name defined in the NMOS Import. For example, if a user sets the RDS Location for an NMOS Import instance, the device's Location will be updated accordingly. However, users can still manually edit the Location directly on the device if needed.
- **NMOS Import: Logs enhancement**
 - Added UUID information to the nmos-import logs to facilitate device identification when cross-checking entries with the home-easy-nmos-registry logs.
- **NMOS Import: Protecting Against Fluctuating Online/Offline Status for NMOS Devices**
 - Some code enhancements have been implemented to improve the robustness of NMOS Import when NMOS devices go offline and then immediately come back online in the RDS.
- **Bifrost: Optimizing Address Updates in Cluster Systems**
 - To minimize GraphQL updates to the HOME UI, Bifrost should verify whether an address update contains an actual change and trigger a GraphQL update only if necessary.

Bug Fixes

- [\[RNDHOME-1358\]](#) - On streams page destination table layout is distorted when connected Tx having long label.
 - [\[RNDHOME-1392\]](#) - Applied filter on destination table should get avoided when using show destination feature on streams page.
 - [\[RNDHOME-1396\]](#) - SDI IO page - Parameters menu - incorrect text
 - [\[RNDHOME-1404\]](#) - Submitting certain modals causes the form values to be added to the current browser location and refreshes the page
 - [\[RNDHOME-1413\]](#) - Device Proxy form is not passing the username and password correctly when submitting the form
 - [\[RNDHOME-1419\]](#) - SDI I/O property video format dropdown lists do not handle indexing.
 - [\[RNDHOME-1429\]](#) - Bifrost crash after buffer full
 - [\[RNDHOME-1477\]](#) - HOME ETCD Database getting full
 - [\[RNDHOME-1488\]](#) - Proxcon should suppress re-connects if already connected
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- [\[RNDHOME-1490\]](#) - When user tries to access Settings page, it displays "checking permission"
 - [\[RNDHOME-1495\]](#) - Devices page ui is broken / blank when changing profile for any uhd group member device.
 - [\[RNDHOME-1498\]](#) - NMOS Importer: Snapshots / Set Section Handler Missing

HOME v2.8.2-56 – LA - Hotfix

Release Date: 27th February 2025 – Hotfix - **Limited Availability (LA) version**

Hotfix

- [\[RNDHOME-1433\]](#) - NMOS import logs enhancement and fix for INC-45221
- [\[RNDHOME-1484\]](#) - De-duplicate address update handling in Bifrost
- [\[RNDHOME-1429\]](#) - Bifrost crash after buffer full
- [\[RNDHOME-1477\]](#) - HOME ETCD Database getting full

HOME v2.8.1-17 – GA - Hotfix

Release Date: 20th February 2025 – Hotfix - General Availability (GA) version

Important note about v2.8.1-17 and AP release

BREAKING CHANGE: v2.8.1-17: As it is a hotfix for **Release v2.8.0-10**, this version contains the breaking changes between HOME and MCX. Therefore, HOME v2.8.1-17 is only compatible with AP versions 10.12.0.4 and 12.0.0.2 onwards.

Hotfix

- [\[RNDHOME-1472\]](#) - Splice can stall with DNS lookup failure

HOME v2.8.0-10 - GA

Release Date: 07th February 2025 – General Availability (GA) version

Important note about v2.8.0-10 and AP release

BREAKING CHANGE: From Release v2.8.0-10 Only: This release introduces breaking changes between HOME and MCX. Therefore, HOME v2.8.0-10 is only compatible with AP versions 10.12.0.4 and 12.0.0.2 onwards.

New Features

- **Improve HOME UI when new license item is added:**
 - HOME now provides better support for newly added license items, even before downloading the latest credits from the Flex portal. With enhancements in Bifrost, if a product code is not recognized, it will be labeled as "feature code + (unknown)" instead of being omitted. Additionally, HOME-UI now includes a user-friendly popup to guide users on the next steps, ensuring a clearer and more intuitive licensing process.
- **Simplify guardian process for splitting redundant groups:**
 - The new redundant group splitting mechanism streamlines the process by consolidating it into a single operation. Instead of migrating group information to the current leader, the system now directly transfers it to the user-selected device.

Bug Fixes

- [\[RNDHOME-558\]](#) - SDI I/O property dropdown lists do not handle "mixed" case
- [\[RNDHOME-1108\]](#) - Sorting on date/time column appears in random order
- [\[RNDHOME-1337\]](#) - Grouping / ungrouping UHD-Core devices causing health errors.
- [\[RNDHOME-1342\]](#) - DSP Change Pop-Up: Jumping Selection
- [\[RNDHOME-1361\]](#) - User is not able to edit receiver sord via Device-> Receiver-> Edit dialog
- [\[RNDHOME-1362\]](#) - Buttons on Information dialog on streams page are overlapped when sord label is long.
- [\[RNDHOME-1363\]](#) - Go to Device button on information dialog for GPIO-input : tx sord navigates user on device > receiver page
- [\[RNDHOME-1364\]](#) - Blue notification for sord disable may be misleading the user.
- [\[RNDHOME-1366\]](#) - Error banner text should be useful to user.
- [\[RNDHOME-1379\]](#) - Static assignment of interface IP / gateway blocked by UI form validation
- [\[RNDHOME-1380\]](#) - On HOME power-up, Bifrost on server-1 does not get updated
- [\[RNDHOME-1384\]](#) - In splice, remove checks on the IsStreamer flag
- [\[RNDHOME-1386\]](#) - User is not able to scroll left-right HOME in small window size.
- [\[RNDHOME-1391\]](#) - In guardian make group comparison function more tolerant
- [\[RNDHOME-1393\]](#) - Newly created receiver not resynced with sender
- [\[RNDHOME-1400\]](#) - Cannot edit some feature options on apps
- [\[RNDHOME-1403\]](#) - Sord level disconnect of UHD destinations not updating additional audio flows
- [\[RNDHOME-1405\]](#) - NMOS Importer Update the Change of Registry Location Process
- [\[RNDHOME-1408\]](#) - Creating XCS device group false error notification gets generated.

HOME v2.7.0-45 - GA

Release Date:

28th January 2025 – General Availability (GA) version

New Features

- **Add the field NMOS Registry Location in the NMOS Import/Export function:**
 - Labels allow customers to create workflows where, in the presence of one or multiple RDS(s), HOME will "tag" all devices imported into a specific RDS with the location label set by the user at the time the importer is created. The key value is part of HOME's data model and is accessible via northbound

controllers through the HOME API. Additionally, the location key has been added to the Exporter to ensure consistency with the Importer option.

- **Intelligent Proxy Routing:**
 - HOME now has the ability to route the appropriate Edge Proxy source into a Multiviewer App based on the PiP resolution of the destination. Essentially, users can now select any of the available scales from the source side (Full, 1/4, 1/16, or 1/64) and connect it to the Multiviewer App's PiP. HOME will automatically route the appropriate resolution, even if it was not the originally selected source. Note: Please confirm the availability of this feature with the HOME Apps product line.

Bug Fixes

- [RNDHOME-301] – Mismatch of Device-type on home>settings>proxy name shows on home>devices page could be confusing for users.
- [RNDHOME-1280] - Vmixer table on UHDCore device>general page does not display mcx pair information.
- [RNDHOME-1282] - Disconnect button is enable for locked / unlocked destinations which are not connected to any source.
- [RNDHOME-1319] - Filter dialog does not show correct matches from search text when open second time.
- [RNDHOME-1346] - Device Receivers page showing incorrect "Connected Source" data for multi-essence receivers.
- [RNDHOME-1352] - NMOS Page showing "Unable to fetch registries due to a server error".
- [RNDHOME-1368] - Nova router Mic input params (48V, Line, HiPass) not being loaded correctly from MCX production files.
- [RNDHOME-1372] - HOME Gateserver logging not working properly. As result we have a increase in the CPU usage.
- [RNDHOME-1373] - Fix up splice logic for address PeerIDs and source names.
- [RNDHOME-1382] - Sentinel reports spurious redundancy leader ID mismatch – Leader IDs differ message

HOME v2.6.0-9 - GA

Release Date:

10th December 2024 – General Availability (GA) version

New Features

- **Changes in text used in SDI Virtual Loopback Tooltip:**
 - To avoid mislead the user, the text in the tooltip for. edge's virtual loopback has been adapted, Now the tooltip that appears when the user clicks on the "?" symbol on the Virtual Loopback control (SDI I/O tab) will correctly reference the SDI spigot that the input/output is internally connected to. Note: please confirm availability of the feature also with. edge's product line.

Bug Fixes

- [RNDHOME-63] - UI: SDI output audio properties should be grouped together.
- [RNDHOME-798] - QA requires data-test-ids for SDP dialog buttons.
- [RNDHOME-1232] - Lock feature should be Disabled when user selects a combination of locked + unlocked RXs.
- [RNDHOME-1242] - Chevron symbol is missing beside "Advanced" text in add new App dialog.
- [RNDHOME-1247] - SDP write Dialog from the Advanced page is too small.
- [RNDHOME-1265] - Grafana dashboard with Prometheus datasource gets overwritten as Loki.

- [RNDHOME-1279] - Device type column width on devices page is not wide enough to display the full device type information.
- [RNDHOME-1285] - Increment / Decrement operators set long floating-point values into the field.
- [RNDHOME-1288] - Blue information notification on streams page does appear for invalid cases misleading the user.
- [RNDHOME-1289] - I/O routing button on streams page should remain disable if user select sords from different devices.
- [RNDHOME-1290] - Filters | sorting on the filter page update instantly after each selection.
- [RNDHOME-1291] - Toolbar buttons are cut off when changing browser window size on streams page sources table.
- [RNDHOME-1304] - I/O routing pop up table headers for all device Audio Receivers are incorrect.
- [RNDHOME-1309] - Duration Button text is collapsed with chevron symbols on add new dhcp pool dialog box.
- [RNDHOME-1317] - Filter dialog checkboxes are cut off from the dialog frame.
- [RNDHOME-1339] - I/O Routing tab should not specifically exclude MCX consoles.
- [RNDHOME-1343] - On Gateserver NMOS is working as like the cluster version.
- [RNDHOME-1344] - On Gateserver invalid critical error notification banner is displayed.
- [RNDHOME-1345] - SDI I/O table controls are applied to the previously selected row.

HOME v2.5.0-17 - GA

Release Date:

27th November 2024 – General Availability (GA) version

Important note about v2.5.0-17 and Gateserver variants:

HOME version 2.5.0-17 is available for all customers and systems, **except for those running the software on the Gateserver variant**. For these cases, the appropriate **version remains v2.3.0-4**, which ensures proper system performance even when connected products or systems are upgraded to a newer version.

New Features

- **Support separate MiC and Line gains in the Power Core:**
 - Power Core Proxy service has been updated to be able to control independent MIC and Line gains for Power Core via Ember+
- **Show In Progress message for Online devices:**

- In Devices page, Status column would be able to show status related to actions that are in progress in the endpoint, such as Reprogramming (FPGA) and Rebooting. That feature has dependencies on the end device software version.
- **Add Reset Passwords command to NodeSysUpgrade tool:**
 - Add a new ResetPasswords command. The command operates similarly to unit upgrade. By default, it operates on all NodeSys and edge devices found in the system. It can instead be run against a JSON file with a device list.

Bug Fixes

- [RNDHOME-853] - Powercore Ember Client not updating IO matrix dynamically
- [RNDHOME-949] - Signal Ownership table has 2 x scroll bars
- [RNDHOME-1039] - IO Routing modal does not show existing routes from other sords
- [RNDHOME-1137] - Incorrect "disable" state in receiver Connected Source
- [RNDHOME-1247] - SDP write Dialog from the Advanced page is too small
- [RNDHOME-1248] - Filters applied via search are not categorized into the correct group (Renamed)
- [RNDHOME-1265] - Grafana dashboard with prometheus datasource gets overwritten as loki
- [RNDHOME-1269] - SDI IO > Audio Channels dialog can persist previous audio gain value
- [RNDHOME-1272] - On streams page destination table, tooltip for RX sords is not present.
- [RNDHOME-1274] - Sorting on column header cycles through three states rather than two
- [RNDHOME-1310] - User is not able to add new dhcp pool
- [RNDHOME-1321] - Download Application logs is producing loki query long wait related error.
- [RNDHOME-1323] - NMOS Devices lose incoming stream connections in HOME after restart
- [RNDHOME-1324] - NMOS Import: Update the start sequence to improve performance for system with large numbers of NMOS devices
- [RNDHOME-1327] - NMOS Import: Change when the persisted label and location are deleted
- [RNDHOME-1328] - NMOS Import: Prevent Imported Number of Nodes being shown as Negative
- [RNDHOME-1329] - Reinstate fake IDs in Addresses PeerID to ensure backwards compatibility with VSM
- [RNDHOME-1330] - Bifrost: Update internal event buffer size
- [RNDHOME-1335] - Destination lock is not working on stream page

Known Limitations

- [RNDHOME-1319] - Filter dialog does not show correct matches from search text when open second time.
- [RNDHOME-1339] - I/O Routing tab should not specifically exclude MCX consoles
- [RNDHOME-1343] - On gateserver NMOS is working as like the cluster version.
- [RNDHOME-1344] - On gateserver invalid critical error notification banner is displayed.
- [RNDHOME-1345] - SDI I/O table controls are applied to the previously selected row.

Important information:

For Known Limitation RNDHOME-1345 - SDI I/O table controls are applied to the previously selected row. The issue is only noticed/observed if the user selects the Input or Output by direct clicking in the row where the In or Out is located. A valid workaround for the issue is to select and un-select the IN or OUT by clicking in the small square [] on the left side of the row.

HOME v2.4.0-109 – (LA)

Release Date: 13th November 2024 – Limited Availability (LA) version

New Features

- **Refactor the stream routing page to utilise auto subscribing receivers (ASR):**
 - Stream routing page updates the label for the connected source when an ASR process happens for this target.
- **Enhancement on error and feedback handling in HOME:**
 - Additional error and warning messages will be prompt to provide consistent feedback to the user.
- **Improvements on how to select streams and make routes in Stream:**
 - As part of this change selection will work like the file explorers in Mac OS and Windows. Clicking a row makes a single selection, dragging multiple options will select them.
 - Cmd / Ctrl + click will either append or remove from selection.
 - Shift + Clicking two items will create a range selection in the respective table.
- **Detailed information about an essence:**
 - Selecting a single essence will allow the user to click the info button to get more information to the user, they can see a list of stats and are able to be linked to the device the essence belongs to
- **Improvement on how the Streams is listed:**
 - Rebuild of the SordTable component to have a simpler code design. Simplified data structure to improve processing on the UI to improve page performance.
- **Add Number Spinners in the input/PIPs boxes:**
 - Change the UI for number spinners to better match LUX design system .
- **Enable gzip compression of GraphQL Responses**
 - Add support in bifrost to compress GraphQL responses with gzip .
- **Filtering of addresses in the server:**
 - Use server-side filtering and remove client-side filtering to reduce the amount of data returned and reduce the complexity in the client.
- **Support LACP on NodeSys mgmt ports:**
 - As latest version of NodeSys supports LACP bonding of the management ports mgmt0 and mgmt1 , some aspects of the HomeAgent network interface reporting has been changed, so that we always show sensible values in the HOME networks page.
- **Set Oratio as Non-experimental feature in HOME:**
 - During HOME installation or upgrade the engineer can leave the experimental features set to false to install Oratio service.
- **Refactor grafana datasources and dashboards:**
 - Enhancements on provisioning Grafana.
- **Stream routing page filter out group members:**
 - New Stream routing page do not show (by default) senders and receiver for devices that are group member, i.e. part of a redundant group.

Bug Fixes

- [RNDHOME-135] - 'Show Destinations' button missing in I/O Routing page and popups.
- [RNDHOME-311] - Weird spacing in Connected Source cell.
- [RNDHOME-514] - UI: I/O Routing "Connected Source" has odd spacing.
- [RNDHOME-856] - I/O routing destination filter by sender displays no labels.

- [RNDHOME-885] - GridTable - fix styling for virtualised rows.
- [RNDHOME-906] - NMOS Export: Missing interface binding content for Apps.
- [RNDHOME-948] - IP address fields allow any value to get entered by user on Advance control page.
- [RNDHOME-964] - File Upload windows do not allow drag and drop.
- [RNDHOME-989] - Page button is too wide.
- [RNDHOME-1032] - bifrost high memory usage.
- [RNDHOME-1057] - Slow Audio Router UI + virtual table rows make navigation difficult.
- [RNDHOME-1062] - HOME UI tries to route in strange order when patching >1 multi essence audio flow .
- [RNDHOME-1084] - I/O Routing Modal pop-ups on Stream Routing page are incorrectly populated for edge SDI audio streams.
- [RNDHOME-1111] - Disconnecting a single mono audio flow in edge clears all 4 destination audio flows.
- [RNDHOME-1123] - Home installer can no longer set a dns value for internet access.
- [RNDHOME-1136] - HOME stream routing lock does not prevent from disconnect from source side .
- [RNDHOME-1141] - when creating locks, flow IDs not filled in.
- [RNDHOME-1142] - .edge SDIO page sorting is out of order.
- [RNDHOME-1143] - Devices Page UI Performance improvements.
- [RNDHOME-1152] - Health message is cleared after refresh of Browser although the error is still present.
- [RNDHOME-1157] - On home > settings> admission page; Disable Admissions Service pop up persist the enable mode of "disable" button for invalid input text.
- [RNDHOME-1158] - New App dialog select controls not changeable.
- [RNDHOME-1159] - MV tally page white screen.
- [RNDHOME-1161] - Clicking the Home App Start button white screens.
- [RNDHOME-1162] - HOME Apps MV dialog layout incorrect
- [RNDHOME-1166] - Stream Routing - Sord to Flow, Flow to Sord connections are no longer possible
- [RNDHOME-1168] - Filters include devices that should not be included
- [RNDHOME-1169] - New stream routing page doesn't show MaxRxChans
- [RNDHOME-1170] - Stream routing page shows spurious warning prior to making audio connections
- [RNDHOME-1172] - Stream routing page should show Flow IDs for expanded multi-essence receivers
- [RNDHOME-1175] - Splice should not consider the Flow::Encap field to be a destination receiver property
- [RNDHOME-1177] - Device page I/O routing always shows 'loading' if the device has no terminals .
- [RNDHOME-1178] - UI: "Virtual Mixers" table on a UHD Core device page should display useful data about mixers.
- [RNDHOME-1182] - Unable to type floating point numbers into some controls.
- [RNDHOME-1185] - Splice resync significant change detection is broken .
- [RNDHOME-1191] - User is not able to scroll down until the last receiver at Vmix devices>receivers page .
- [RNDHOME-1193] - Blank screen when navigating to IO Routing page for devices.
- [RNDHOME-1194] - Destination lock for .edge sdiout sords is broken.
- [RNDHOME-1204] - NTP sync fails due to invalid file permissions for timesyncd config file
- [RNDHOME-1207] - Streams page filter does not displays "No filters match search" when none option matches the typed text into the filter textbox.
- [RNDHOME-1212] - User not able to add signals into a group on signal-ownership page.
- [RNDHOME-1214] - Disconnect stream routes can do more than you expect!
- [RNDHOME-1215] - Streams Page - applying multiple filters by options displays invalid devices.
- [RNDHOME-1216] - Error on locking the .edge multi essence sords.
- [RNDHOME-1217] - NMOS Exporter: Nodes selection appears empty
- [RNDHOME-1218] - Grafana cannot connect to Loki without error: "Failed to load log volume for this query"
- [RNDHOME-1221] - NMOS Nodes modal not visible - css broken
- [RNDHOME-1228] - .edge inputs @ UHD are incorrectly represented on the HOME Stream Routing page
- [RNDHOME-1229] - "Connected Source" can display Audio stream label instead of Video label
- [RNDHOME-1231] - SDI I/O Input label sorting

- [RNDHOME-1234] - RTP payload field value check notification is missing from UI.
- [RNDHOME-1243] - MCX redundancy group page transforms into a stream transcoder app
- [RNDHOME-1244] - HOME UI shows blank white screen
- [RNDHOME-1245] - Duplicating more than 1 HOME App does not work
- [RNDHOME-1247] - SDP write Dialog from the Advanced page is too small
- [RNDHOME-1250] - Validation gets stuck if an illegal IP address field is ever entered
- [RNDHOME-1251] - Home UI showing all health errors in front.
- [RNDHOME-1252] - NMOS Exporter:- Missing NMOS 04 node interface info for Apps
- [RNDHOME-1253] - Unable to edit GCF IPv4 field when value is illegal
- [RNDHOME-1254] - "Streams Connected" notification appears even streams are not connected.
- [RNDHOME-1257] - Streams Page filter by Essence has "NONE" as an option.
- [RNDHOME-1261] - Device receiver page does not show source information in connected source column which are unknown to home.
- [RNDHOME-1262] - User is not able to disconnect a destination when it is connected to a source unknown to home.
- [RNDHOME-1263] - Typing negative values on text inputs is not possible on the Advanced Page
- [RNDHOME-1265] - Grafana dashboard with prometheus datasource gets overwritten as loki.
- [RNDHOME-1266] - Grafana | fix for CVE-2024-9264.
- [RNDHOME-1278] - User needs manual page refresh on snapshot page to reflect changes in the list.
- [RNDHOME-1286] - white screen gets displayed when user clicks on grid table at I/O routing page.
- [RNDHOME-1306] - Changing internal I/O Routing results in blank page.
- [RNDHOME-1312] - Setting network port to "not in use" on NodeSys device can lead to spurious network entry.

Known Limitations

- [RNDHOME-1269] - SDI IO > Audio Channels dialog can persist previous audio gain value.
- [RNDHOME-1248] - Filters applied via search are not categorized into the correct group (Renamed).
- [RNDHOME-1310] - User is not able to add new dhcp pool.
- [RNDHOME-1305] - Open Source Attributions shown in HomeUI no longer include golang licenses.

HOME v2.3.0-4 - GA

Release Date:

09th October 2024 – General Availability (GA) version

New Features

- **Add SDI Loopback Control for SDI Outputs*:**
 - UI representation of the GCF control for the virtual loopback in the SDI I/O page of .edge.

**Note: ready in HOME, however requires an upcoming release of .edge where the virtual SDI loopback will be available.*
- **Improve etcd health monitoring:**
 - ETCD server health monitoring algorithm has been improved in a way to remove false positive warnings related to slow reads, slow writes, and slow CPU.
- **NMOS Importer to translate Master Enable flag to HOME API**
 - Representation from the NMOS master enable flag to also be the flow enable field on a HOME Sender. This allows a system using the HOME API to be able to set/unset the flow enable field on a

HOME Sender which would then update the master enable field on the NMOS device via the IS05 patching. A user of the HOME UI would also be then able to do this via the Enable button on the senders page.

Bug Fixes

- [RNDHOME-164] - UI: Virtual Mixers not shown on standalone UHD Core device "General" tab
- [RNDHOME-528] - UI: Applying destination lock to expandable destination causes elements to overlap
- [RNDHOME-690] - The source essence labels and numbers do not appear on the stream routing page for HOME Apps
- [RNDHOME-848] - Stream routing page - Invalid warning when selecting multiple destinations
- [RNDHOME-898] - Snapshots should not be able to have duplicate labels
- [RNDHOME-947] - UI: "Virtual Mixers" table on a UHD Core device page should display useful data about mixers
- [RNDHOME-1046] - GCF Edit box does not follow back channel update
- [RNDHOME-1066] - Stream routing page needs manual refresh to update disable button status
- [RNDHOME-1093] - .edge SORD labels do not show in SDI I/O tab
- [RNDHOME-1135] - Perform Backup failing

HOME v2.2.0-271 - GA

Release Date: 09th August 2024 – General Availability (GA) version

New Features

- **HOME Support for Active/Backup MGMT interface Bonding:**
 - It is now possible to implement cable redundancy without relying on stacking, MLAG, or vPC. This feature uses a single IP address on a single subnet, ensuring seamless failover and enhanced network resilience.
- **APT Mirror Support:**
 - We now offer APT Mirror support to update the versions of Ubuntu 20.04 packages with the latest security updates in our customers' offline environments. This initiative helps us meet the EBU R143 recommendation, ensuring that our systems adhere to the highest security standards.
- **Validating Licensing for NMOS Importer/Exporter Functionality:**
 - Customers owning a perpetual license can now activate the feature by introducing the license to HOME. Alternatively, they can use credits to activate the feature on demand and for a scheduled timeframe. It is important to note that systems actively using the feature in the field can be upgraded, but an active license is required to make them operable after the upgrade. We recommend requesting a perpetual license or credits prior to the upgrade. To order a license, please ensure you have the system ID of the HOME system you are about to upgrade available.
- **C100 Proxy:**
 - We now offer the ability to use C100's senders and receivers in Stream Routing. This feature has been highly requested for many projects where a UHD Core failover mechanism was implemented.
- **Mandatory NTP Configuration in HOME:**
 - Due to the addition of licensing services in HOME, it is now mandatory to configure NTP. Additionally, in systems with numerous components and devices, having a single time source is now considered best practice, as it simplifies debugging or investigation when checking logs. If NTP is not running, the licensing service may become out of sync with the HomeApps server and .edge devices.
- **Node-Sys-Upgrade – compliance with NodeSys 3.6.0:**
 - As NodeSys 3.6.0 provides the ability for customers to change the root password, a change has been made to the Node-Sys-Upgrade tool. Engineers can now enter the password in a prompt when performing an upgrade. Important note: This method only applies if the same password has been set on all devices being upgraded using the tool
- **Update of Observability Services:**
 - Grafana has been updated from version 8.4.5 to 11.1.0. Prometheus has been upgraded from version 2.43.0 to 2.51.2.

Bug Fixes

- [RNDHOME-191] - Intermittent Issue: After installing Home with use_home_provided_ntp_server as True you cannot switch back to use an External NTP Source instead
- [RNDHOME-310] - Vertical line in device page is too short
- [RNDHOME-334] - Add missing device images
- [RNDHOME-350] - UI: Create redundancy group buttons are out of view for systems with many devices
- [RNDHOME-513] - Expanding flex licensing box can cause buttons to float outside of the dialog
- [RNDHOME-563] - Licensing UI: The colors and contents of notices in the flex credits page can change unexpectedly
- [RNDHOME-580] - Unexplained Server Shutdown
- [RNDHOME-594] - Remove checkboxes and toolbar if there are no actions available
- [RNDHOME-605] - Refactor the Home Installer to meet Ansible Lint standards

- [RNDHOME-606] - Wrong icon shown in VLAN for Unused
- [RNDHOME-678] - After Upgrading Home Devices appear with "No Stored Label"
- [RNDHOME-691] - HOME does not update c100 proxy information on re-configuration of the c100
- [RNDHOME-723] - UI: Address allocation popup is transparent, showing UI elements underneath
- [RNDHOME-728] - Similar issue to 'Active Stream Health Warning' for Merging Devices
- [RNDHOME-747] - NMOS import connection is broken on refresh page
- [RNDHOME-776] - HOME shows on PowerCore only mono outs for Headphones. Must show stereo.
- [RNDHOME-795] - Attempt to use VSM with an NMOS imported device causes the nmos-import service to crash
- [RNDHOME-806] - NMOS-Exporter update the flow resources for the different media types (as seen at IMG with GV Node)
- [RNDHOME-813] - NSU Location is incorrect
- [RNDHOME-829] - NMOS Exporter: Crossed interfaces in Cerebrum
- [RNDHOME-830] - Advanced control pages keep old value in edit box on update
- [RNDHOME-832] - Create CSS constants and bring more consistency to styling in Home UI
- [RNDHOME-833] - MV GCF - Tally bits Error dialog persists when it should not
- [RNDHOME-842] - Implement copying from GridTable cells
- [RNDHOME-860] - Tie-Line column sometimes missing in UI
- [RNDHOME-868] - HOME Apps: Hidden licensing icons
- [RNDHOME-870] - Box shadow for sticky columns in GridTable appears in the wrong place
- [RNDHOME-872] - The Home Apps MC2 DSP App device type is 'Virtual Mixer In' on the UI
- [RNDHOME-878] - Blank page after loading snapshot with console to mixer mapping for a mixer that is offline
- [RNDHOME-882] - UI design - fix border radius on top bar
- [RNDHOME-909] - NMOS Import: Changing of existing Sord name through non HOME interface -e.g Merging Web means signal name not updated
- [RNDHOME-940] - Not possible to connect a transmitter to LCU receiver
- [RNDHOME-950] - Creating New DHCP Pools causes the UI to crash
- [RNDHOME-953] - Sticky Rx Stream Health Warnings
- [RNDHOME-968] - HOME shows a second physical port 2 for a MADI SRC card
- [RNDHOME-979] - NMOS connection is flickering while connected using valid licenses.
- [RNDHOME-1003] - NMOS Import - Senders Appear and Disappear (NHK)
- [RNDHOME-1004] - Improve guardian behaviour during cold boot
- [RNDHOME-1008] - NMOS Import Update Sender Processing (Fox)
- [RNDHOME-1009] - HOME - NMOS Exporter or .edge ignoring sender change
- [RNDHOME-1026] - NMOS Import Receiver Flow incorrect displayed for metadata when no SDP present (FOX)
- [RNDHOME-1029] - HOME - NMOS Exporter receiver race
- [RNDHOME-1036] - UI: HOME Account settings + logout buttons should be hidden if authentication is disabled
- [RNDHOME-1042] - Disable sender button does not work for NodeSys devices
- [RNDHOME-1043] - NMOS Import : Update Lock handling on Device removal
- [RNDHOME-1050] - Config Service: Snapshots Update time shown to local time
- [RNDHOME-1052] - GPIO Connections not properly recreated after device or service restart
- [RNDHOME-1053] - Snapshot page time stamp doesn't sync to local time, it works only on UTC time
- [RNDHOME-1081] - NMOS page is broken and displays the server error on refreshing.
- [RNDHOME-1095] - Prometheus storing more then 20GB of metrics data
- [RNDHOME-1100] - Health status for Proxy Devices not reported correctly in MCX
- [RNDHOME-1115] - NodeSys device interfaces reject "Not in Use" or static 0.0.0.0 status

Known Limitations

- Signal Ownership table has 2 x scroll bars
- HOME "Licensing" page needs to show all licensing - including .edge perpetual
- IO Routing modal does not show existing routes from other sords: routed source it's not represented when select the I/O routing directly in the receiver or sender
- Warnings on the devices page are too fast to register
- HOME stream routing lock does not prevent from disconnect from source side
- HOMEUI - Incorrect "disable" information when UHDC sender is linked to a edge receiver
- Application Logs Filters not working

Contacting Lawo Support

Should you have any questions or concerns regarding the update of your equipment, please contact our Support team. The team will be able to provide technical assistance over the telephone and, if necessary, remote maintenance during common office hours (Monday – Friday 09:00-17:00 hrs CET).

Please send your email to: support@lawo.com

Your e-mail should include the following information:

- Name and phone number of the contact person as well as the time when this person is available
- Number and type of the system(s), including Serial Numbers
- Current software version

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