

Lawo AG  
Am Oberwald 8  
D-76437 Rastatt

Telefon +49 (0) 7222 1002-0  
Telefax +49 (0) 7222 1002-7101  
Internet [www.lawo.com](http://www.lawo.com)



# HOME Product Release

**Product Release: V2.4.0-109**

Release Date: 13<sup>th</sup> November 2024

## 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.

## HOME v2.4.0-109

Release Date:

13<sup>th</sup> November 2024

## 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

Release Date:

09<sup>th</sup> October 2024

## 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**

Release Date:

09<sup>th</sup> August 2024

### **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-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](mailto: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

## Copyright

All rights reserved. No part of this document may be reprinted without the express permission of the Lawo AG.

All trademarks and registered trademarks are owned by their respective holders. We cannot warrant that all brand names, products, trademarks, claims, regulations, directives, specifications and standards contained in this document are free from being subject to the property rights of a third person.

In spite of our careful examination we cannot warrant that the contents are free from errors. The Lawo AG is not responsible for misleading or incorrect information which may possibly be contained in this document.

The Lawo AG may make changes to specifications at any time and without prior notification.