

R&S® IPGW

RelayCaster One / 200 / 1000 / Encoder Changelog



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This document describes the Changelog for RelayCaster software releases.

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1 Version: 19.1

Release: nmm3_relaycaster_20190329

Added:

- "Reboot/Poweroff" Buttons in "Settings" page
- Setup Wizard

Improved:

- RCSP stream stability after large drop in available channel bandwidth

Fixed:

- Stop all services script does also stop adaptive bitrate controller
- Status LED starts yellow after creating RCSP stream

2 Version: 19.0

Release: nmm3_relaycaster_20190115

Updated:

- Added version number starting with 19.0 in addition to release identifier.
- New apache and php versions (for new products with new Linux version).

Added:

- Default gateway can now be changed as described in installation manual or user manual.

3 Release: nmm3_relaycaster_20181121

Fixed:

- Default gateway configuration for opensuse 15.0 version working
- Fix rare encoder crash when web UI is connected
- RelayCaster One: fix downloading very large log files

Added:

- Secure Reliable Transport (SRT) input and output protocol
- NTP status shown in Info page and per stream (RCSP) if dejitter filter is enabled
- Network interface configuration via Webui

4 Release: nmm3_relaycaster_20180903

Fixed:

- RCSP input streams with different dejitter filter settings caused a problem
- start_all_services.sh script did not start all services (only on RelayCaster One)
- Correct error message if RCSP Sender address is missing (modify stream)

5 Release: nmm3_relaycaster_20180829

Added:

- ETR-290 Analysis for UDP/RTP input streams (Requires License)

6 Release: nmm3_relaycaster_20180508

Added:

- Support output multicast interface setting for RelayCaster Encoder.
- Support Muxer TS-Bitrate setting in RelayCaster Encoder.

- Support video codec profile and level configuration in RelayCaster Encoder.
- Support video GOP size configuration in RelayCaster Encoder.
- Addition of MPEG-TS continuity counter statistics to the Web UI in Status hover box to report missing packets in streams.
- New short term RCSP statistics: "Latest Received Packets" and "Latest Forwarded Packets" (NOT BACKWARD COMPATIBLE)
- Web UI switch to enable/disable Dejitter filter on a per stream basis (option under Adv. settings) • Latest Statistics parameter for RCSP-receivers if RCSP-sender version supports adaptive bitrate

Improved:

- Encoder Video Bitrate: The configured bitrate is now TS-bitrate (it was ES-bitrate)
- Adaptive Bitrate Controller: The configured min and max bitrates are now Muxer bitrate (it was Video bitrate)
- Support creating streams without input data: streams can be created even without input data being received
- The web UI will now always refresh to show the latest features after installing a new release, irrespective of browser caching

Fixed:

- Encoder Bitrate configuration: Fix upper and lower limits
- Encoder Bugfix: "Can not connect" error message when "Info"/"General Network" settings changed while no encode stream is running
- Fix relaycaster crash when destroying the decrypt stream in an encrypt-decrypt UDP loop on the same relaycaster
- Fix 'No data received on toggling Dejitter filter from enabled to disabled. The user should always toggle the filter at the sender first and then at the receiver

7 Release: nmm3_relaycaster_20171211

Added:

- Support modify encode stream for RelayCaster Encoder.

8 Release: nmm3_relaycaster_20171113

Added:

- Many feature and documentation improvements and additions for RelayCaster Encoder.

9 Release: nmm3_relaycaster_20171023

Added:

- First release supporting new product RelayCaster Encoder.

10 Release: nmm3_relaycaster_20161110

Added:

- RelayCaster One now supports optional external USB network interface.

11 Release: nmm3_relaycaster_20161026

Added:

- Extended dejitter filter.

12 Release: nmm3_relaycaster_20160826

Added:

- Added dejitter filter.
- RelayCaster Lite Software-Only now supports 25 Mbit to allow for streaming a single UHD channel.
- Added option to choose a network interface for multicast streams via webinterface.

- Improved tool to configure network devices, so it will now configure all available network devices (see Installation Manual for further details).
- Improved web interface to automatically update Streams tab in case the streams were modified by an external remote method invocation using the API of the GMIT Server-SDK.
- Improved the delay time until when a 'yellow' stream is reported.

13 Release: nmm3_relaycaster_20151203

Improved:

- Bugfix in web interface when showing CPU load.

14 Release: nmm3_relaycaster_20151110

Added:

- Added AES support for encrypting and decrypting streams.
- Completely updated web interface using responsive web design and interaction; automatic update of status in Streams tab; context-sensitive advanced options dialog; separate Help tab.
- Changed build from 32bit to 64bit for improved performance.
- Various fixes and performance improvements.

15 Release: nmm3_relaycaster_20140827

Added:

- RelayCaster Lite (Software-Only) is a special version of RelayCaster that allows to create only one stream with up to 15 Mbps.
- Updated configuration for accessing RelayCaster behind a Firewall/Router. See Installation Manual Section 3.1 for more information.

16 Release: nmm3_relaycaster_20140512

Improved:

- Improved error handling of invalid settings via web interface.
- Extended network configuration to setup different gateways for network devices. See Installation Manual Section 2.2 for more information.
- Improved description for network configuration See Installation Manual Section 2.1 for more information.

17 Release: nmm3_relaycaster_20130513

New Features:

- In order to provide better differentiation to other abbreviations, we changed the abbreviation of GMIT's RelayCaster Streaming Protocol from 'RSP' to 'RCSP'
- Added possibility to change network configuration via console or remote login. See Installation Manual Section 2.2 for more information.

Improved:

- Improved error handling of invalid settings via web interface.

Important changes:

- Updating RelayCaster without Internet connection is currently not supported. (See user manual for further details)

18 Release: nmm3_relaycaster_20120724

New Features:

- Added possibility to specify ttl (time to live) for each stream. Modification of this feature is possible via web interface. (See user manual for further details)

Improved:

- Improved error handling of invalid settings via web interface.

- Updating RelayCaster without Internet connection. (See user manual for further details)

19 Release: nmm3_relaycaster_20110714

Resolved issues:

- Resolved issue with parameters and statistics that are sometimes not correctly presented in webinterface
- Resolved issue with reconfiguration of stopped streams

Improved:

- Added download button to download all log files

20 Release: nmm3_relaycaster_20110517

Resolved issues:

- Corrected parsing of the net mask configuration after (re-)starting the system.

21 Release: nmm3_relaycaster_20110408

Resolved issues:

- Internet Explorer shows web interface correctly.

Improved:

- Improved error handling so that invalid stream configuration like looping a stream to same input address again is no longer possible.

22 Release: nmm3_relaycaster_20110328

Resolved issues:

- After reboot, RelayCaster configuration is correctly loaded and streams are correctly recreated.
- Resolved issues with stopping incoming UDP or RTP streams in situations where no more data is received
- Resolved memory issues only related to RCSP statistics
- Resolved an issue in RCSP protocol to handle high packet loss correctly over Internet connection.

Improved:

- Support for UDP and RTP streams with packet payload sizes which are not multiples of 1316 bytes
- Improved handling of streams with a lot of TS discontinuities
- Log messages start with exact date and time information
- Improved performance of UDP, RTP, and RCSP streaming
- Improved statistics for RCSP protocol: Statistics now reflect the status of an RCSP stream for the last 5 minutes

New Features:

- Stream monitoring, please refer to Section 6.1 of user manual

23 Release: nmm3_relaycaster_20110301

Resolved issues:

- Resolved an issue in RCSP protocol if sender is restarted.

Improved:

- Improved performance for all protocols
- Log messages start with exact date and time information

New Features:

- Web interface also shows the received bandwidth for the GbE and the Mgmt device that is also provided in the web interface.

24 Release: nmm3_relaycaster_20110127

Resolved issues:

- Resolved an issue in RCSP protocol if sender is restarted.

Improved:

- Improved statistics of RCSP protocol

New Features:

- New convenience features in the web interface. See Section 3 of User Manual - RelayCaster for more information.

25 Release: nmm3_relaycaster_20110120

Resolved issues:

- Resolved issue with start/stopping streams

26 Release: nmm3_relaycaster_20110113

Improved:

- Improved error handling of RCSP protocol

27 Release: nmm3_relaycaster_20101113

Initial Version