

## RAy3 - Release notes

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### Release 1.0.19.0

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2020-01-23

- New features:
  - Ethernet switch - Port Based Ingress Rate Limiting (new page PIRL in menu 'Switch settings' / Interface)
- Fixed bugs:
  - Occasional reboots
  - Improved accuracy of RSS measurement on narrow channels
  - Minor internal SW fixes and improvements
  - Minor web interface fixes and improvements (including known issue with 'Link mode Eth2' value in FW 1.0.17.0)
- Known issues:
  - The differential external configuration backup (Backup to external file / Difference) does not work correctly. The full external configuration backup (Backup to external file / Full) works perfectly.
  - After FW upgrade from FW versions 1.0.16.0 and older it is recommended to set 'RX FlowControl' for port 'Air (p9)' to value 'on' (Show Defaults + Apply in menu Switch settings / Interface / Port). It improves utilisation of Ethernet switch buffers and allows higher throughput of the link for real traffic.

### Release 1.0.17.0

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2019-11-29

- New features:
  - Ethernet switch - full set of VLAN features (new page 'VLAN' in menu Switch settings / Advanced)
  - Ethernet switch - output queues (new page 'Egress queue' in menu Switch settings / Interface)
  - Web interface 'RX FlowControl' for port 'Air (p9)' is limited to value 'on' (no limit in CLI)
  - FailSafe mode no more activated after recovery reboots
- Fixed bugs:
  - Minor internal SW fixes and improvements
  - Minor web interface fixes and improvements
- Known issues:
  - The differential external configuration backup (Backup to external file / Difference) does not work correctly. The full external configuration backup (Backup to external file / Full) works perfectly
  - After FW upgrade it is recommended to set 'RX FlowControl' for port 'Air (p9)' to value 'on' (Show Defaults + Apply in menu Switch settings / Interface / Port). It improves utilisation of Ethernet switch buffers and allows higher throughput of the link for real traffic
  - Item 'Switch interface' / 'Link mode Eth2' on page 'Status' presents values from 'Link mode Eth1'

### Release 1.0.16.0

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2019-11-04

- New features:
  - RC-info improved (easier channels positioning, more frequencies, improved versioning)
  - Prevention of configuration corruption by a backup file from different type of the unit
  - Status info for asymmetric bandwidths improved
  - Rx bandwidth not limited by SW key
  - Timezones improvement, extension of NTP for non-standard timezones (like GMT +3:30)
- Fixed bugs:
  - X-type and S-type interoperability (X can act as S)
  - Antenna alignment page (both in web interface and in RAYTools mobile application)
  - SFP module errors reporting
  - SNMP and MIB table (snmpTrapOID, FlowControl definition, new RAY3 MIB table filename on RACOM web)
  - RSTP daemon
  - 'RX FlowControl' default value for port 'Air (p9)' changed to 'on'
  - Minor web interface fixes and improvements
- Known issues:
  - The differential external configuration backup (Backup to external file / Difference) does not work correctly. The full external configuration backup (Backup to external file / Full) works perfectly.
  - After FW upgrade it is recommended to set RX FlowControl for port 'Air (p9)' to value 'on' (menu Switch settings / Interface / Port). It improves utilisation of Ethernet switch buffers and allows higher throughput of the link for real traffic (valid also for units with activated 'Unit S mode' for backward compatibility with RAY3-24S units).

### Release 1.0.14.0

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2019-07-18

Notice: Switching to this release is strongly recommended to eliminate security issues.

- New features:
  - New event "Air capacity changed" (including SNMP trap)
  - Value rxBandwidthKhz added to SNMP
  - Warning message if polarization of Local and Peer unit does not match
  - Backup files check (including refusal to restore configuration from RAY2 backup)

- New pages ATU, STU and VTU in menu Switch settings / Advanced
- X-type and S-type interoperability (X can act as S)
- Security libraries update
- Fixed bugs:
  - Frequency selection for asymmetric line
  - The "ACM max TX modulation" parameter can be set differently for each unit
  - The "ACM min TX modulation" parameter is logically linked to the other unit (the same value is required on both sides of the link)
  - Modification of port order and names on Eth switch
  - Measurement of Eth2 Throughput
  - SNMP non-table items OID defined in accordance with RFC (ending '.0') - improved SolarWinds compatibility
  - Minor web interface fixes and improvements
- Known issues:
  - The differential external configuration backup (Backup to external file / Difference) does not work correctly. The full external configuration backup (Backup to external file / Full) works perfectly.
  - The page "Antenna alignment" is not working correctly (both in web interface and in RAYTools application). Using it causes blocking of the management web interface.
  - For optimal utilisation of Ethernet switch buffers and maximal operational speed of the link for real traffic it is recommended to set RX FlowControl for port 'Air (p9)' to value 'on' (menu Switch settings / Interface / Port).
  - X-type and S-type units interoperability requires TX and RX FlowControl parameters for port 'Air (p9)' on unit X to be set to value 'auto' (menu Switch settings / Interface / Port) for this FW version. NOTE: For optimal utilisation of Ethernet switch buffers during active 'Unit S mode' (backward compatibility with RAY3-24S units) it is necessary to upgrade unit to FW version 1.0.16.0 or higher.

## Release 1.0.11.0

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2019-04-08

Notice: RAY units originally deployed with this FW version can not be downgraded to previous FW version.

- New features:
  - CPU without HW encryption unit supported
  - Several new rc.info files added (limited output power, FCC regions etc.)
- Fixed bugs:
  - Ethernet switch buffers are better utilised now (see known issues to activate this feature).
- Known issues:
  - The "ACM max TX modulation" and "ACM min TX modulation" parameters needs to be set to the same value for both units within the link.
  - The differential external configuration backup (menu Backup to external file / Difference) does not work correctly. The full external configuration backup (menu Backup to external file / Full) works perfectly.
  - For optimal utilisation of Ethernet switch buffers and maximal operational speed of the link for real traffic it is recommended to set RX FlowControl for port 'Air (p9)' to value 'on' (menu Switch settings / Interface / Port).

## Release 1.0.8.0

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2019-02-22

Notice: RAY units originally deployed with this FW version can not be downgraded to previous FW version.

- New features:
  - SFP port Autonegotiation is enabled by default
- Fixed bugs:
  - Minor web interface fixes and improvements
  - Minor fixes and accuracy improvement of RSS measurement

## Release 1.0.5.0

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2019-01-09

- New features:
  - Security libraries update
  - HW version RAY3-24 (MTU=10240 B) support
- Fixed bugs:
  - Minor web interface fixes and improvements

## Release 1.0.4.0

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2018-12-01

First official FW release