Software Release Notes
LD900

What's New in LD900 5.2.0

This is a general release.

New Features

- **Precision Time Protocol (PTP)**
  - The LD900 can now use its GPS time to synchronise the clocks on other network equipment.
  - Status and configuration are shown under receiver > network.

- **INHDT message**
  - NMEA heading message added for INS solutions.

- **External Logger output**
  - ICOM ports can now be set as external logger output format to allow connection to a data logger application.

- **Position Vertical SD added to positioning status.**

- **LBAND off option added for GNSS1 and LBAND corrections.**

Changes

- LAN2 IP address maintained after factory reset.

- Upgrade time reduced.

- LAN1 default DNS changed to 1.1.1.1.

What's New in LD900 5.1.0

This is a maintenance release.

New Features

No new features

Changes

- Current Version number added to Web UI

- Warning splash screen added for disabling GNSS signal tracking

What's New in LD900 5.0.0

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New Features

- **Secondary Positioning**
  - A position can now be calculated, and output based on the GNSS2 antenna and output from COM4 and COM5. All output messages will be output at 1Hz.
  - PPP mode can be selected between auto, ultra and apex independently from GNSS1.
  - The secondary position can be activated by means of the FDNRZNTVEA authcode on GNSS2.

- **Corrections Input**
  - Correctional inputs (RTK, IOLAN, UHF) can be input via COM6. These are limited to baud rate 38400 only.

- **Remote Upgrade**
  - Remote Upgrade is available via WebUI for versions > 5.0.0.

- **Heave Filter**
  - Heave Filter period can be configured.

- **INS User Reference Point**
  - User can now offset the INS solution to a user defined location on the vessel.

- **50, 100, 200 Hz INS Outputs**
  - INS messages can now be output at up to 200Hz rates.

- **RAIM Mode Configuration**
  - Receiver Autonomous Integrity Monitoring (RAIM) mode can be configured.

- **BESTPOS Output now available**
  - BESTPOS is now a configurable output.

Changes

- Primary and secondary LBAND corrections have been renamed to LBAND and GNSS1 respectively. This is to match the ports on the LD900.

- NTRIP Status now triggered by IOLAN input.

- ICOM ports with UDP protocol only need an endpoint when an output is being configured.

- Internal data logger includes secondary positioning logs when authorised.

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New Features

- **Retention of Configuration**
  - The LD900 retains configured settings when upgraded, so the customer does not need to reapply them.

- **GNSS Signal Control**
  - Some GNSS signals and constellations can be disabled if they are causing issues due to signal disturbances.

Changes

- UHF and MF are no longer exclusive and may be enabled at the same time.

- Default Com Port baud rate now 9600 (except for LD900 Com 4, which remains 115200.)

What's New in LD900 4.1.0

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New Features

- **APEX PRO Service – Quad Frequency**
  - This is the new fast converging PPP service. Units can be enabled for either Apex 5 or Apex PRO.

- **Dual Lband Antenna**
  - The LD900 can now track/use Lband corrections from both the combined GNSS/Lband antenna and dedicated Lband antenna simultaneously.

- **AUTO PPP Mode**
  - The LD900 can be set to AUTO PPP mode to allow automatic fallback from APEX to ULTRA

- **AUX COM4 Outputs**
  - The auxiliary COM4 port is now available for output of some messages

- **Interference detection configuration**
  - Interference detection can now be turned on/off

- **New INS messages**
  - BESTGPSPOS, INSSTDDEV, SYNCHEAVE and DELAYEDHEAVE have been added

Changes

- Internal logger message changes
  - RANGECMP replaced with RANGECMP4.

- o IONUTC added.

- o PPPPOS_2 added.

- Default elevation mask set to 10 degrees.

- Tracking of Beidou GEO/IGSO satellites disabled.

- Tracking of QZSS and NAVIC disabled.

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New Features

- **ITK**

  - o Ability to configure Interference detection added.

- **SID NTRIP via IOLAN added.**

- **Data input via ICOM ports added.**

- **ICOM socket configuration supported.**

- **UDP support for ICOM ports.**

- **NOVATELX input correction format now supported.**

- **DNS configuration supported.**

- **UKCA marking added.**

- **NMEA talker configuration supported.**

- **ITK and spoofing data added to internal logging.**

Changes

- Tracking elevation mask set to 5 degrees by default.

- LD900 to MOXA connection changed to UDP.