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|  | <h1>Release Notes</h1>                  | Lantronix AVL Products           |
|   |   | Release date: September 11, 2025 |
|   | Firmware version: <b>avl_3.26.0_rc9</b> | Document revision: 3.26.0.0      |

## Lantronix AVL FIRMWARE RELEASE

**VERSION:** [avl\\_3.26.0\\_rc9](#)  
 BIOS version: [3.0.6](#)  
 Official release date: [11/09/2025\(D/M/Y\)](#)  
 List of firmware files: [avl\\_3.26.0\\_rc9\\_20250908.txt](#)  
[avl\\_3.26.0\\_rc9\\_20250908.frp](#)  
[avl\\_3.26.0\\_rc9-Z9f736fd2.zip](#)

Hardware compatibility:

This firmware applies to the following LANTRONIX products with Cortex processor:

| Devices         | Hardware Revisions      | Supported firmware versions | Notes   |
|-----------------|-------------------------|-----------------------------|---|
| FOX3-2G Series  | 13,15,17,19,20,21       | avl_3.x.x (only)            | <p>1) Use the PFAL command <code>\$PFAL,MSG.Version.HardwareRev</code> to get shown the hardware revision of your AVL device. The device responses with (second line shows the hardware version):</p> <pre>\$&lt;MSG.Version.HardwareRev&gt; \$11-NUCHB \$SUCCESS</pre> <p>2) The hardware revision is also printed on the product label located on the back panel of the device. In the Serial Number (S/N) field there are 3 digits in parenthesis, for example 60148(9XX)50600014, and the number “XX” is the hardware revision of the device. If the number is “11”, it means that the hardware revision is 11.</p> |
| FOX3-3G Series  | 06,11,13,15,17,19,20,21 | avl_3.x.x (only)            |   |
| FOX3-3G-BID*    |                         |                             |   |
| FOX3-4G Series  | All                     | avl_3.x.x (only)            |   |
| BOLERO40 Series | All                     | avl_3.x.x (only)            |   |

\* On request

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## IMPORTANT

- This firmware version is **ONLY** for the LANTRONIX products explicitly Mentioned above! Do not try to update other LANTRONIX products with this firmware, otherwise, you will not be able to operate your device anymore.
- Before updating the new firmware on your FOX3 or BOLERO40 series, it is strongly recommended to back up the configuration with the command **\$PFAL,CNF.Backup**
- Before upgrading the firmware on your FOX3 or BOLERO40 series, it is recommended to upload and back up all history data on your server (if needed) and finally delete this data on the device.

## NOTE

- If FOX3-3G-BLE devices with older firmware versions (e.g. 3.0.0\_xx) are upgraded to this new firmware version (3.3.0\_xx), please contact LANTRONIX to receive the BLE activation codes and continue to use this feature without additional costs.
- The latest FW 3.26.0\_rc9 is for FOX3-2G/3G/4G with the CORTEX CPU as well as BOLERO40 series.
- Sleep=Ring on BOLERO40 series works only by using SIM-SLOT2 (the upper SLOT) on BOLERO40 series

| Version  | Description                        | Created by | Date (M/D/Y) |
|----------|------------------------------------|------------|--------------|
| 3.26.0.0 | Firmware release “avl_3.26.0_rc9”  | Lantronix  | 11/09/2025   |
| 3.25.0.0 | Firmware release “avl_3.25.0_rc1”  | Lantronix  | 17/06/2025   |
| 3.24.0.0 | Firmware release “avl_3.24.0_rc7”  | Lantronix  | 14/03/2025   |
| 3.24.0.0 | Firmware release “avl_3.24.0_rc6”  | Lantronix  | 12/03/2025   |
| 3.24.0.0 | Firmware release “avl_3.24.0_rc5”  | Lantronix  | 05/03/2025   |
| 3.24.0.0 | Firmware release “avl_3.24.0_rc4”  | Lantronix  | 21/02/2025   |
| 3.24.0.0 | Firmware release “avl_3.24.0_rc3”  | Lantronix  | 01/02/2025   |
| 3.24.0.0 | Firmware release “avl_3.24.0_rc2”  | Lantronix  | 31/01/2025   |
| 3.24.0.0 | Firmware release “avl_3.24.0_rc1”  | Lantronix  | 29/01/2025   |
| 3.23.0.0 | Firmware release “avl_3.23.0_rc3”  | Lantronix  | 14/10/2024   |
| 3.23.0.0 | Firmware release “avl_3.23.0_rc1”  | Lantronix  | 10/09/2024   |
| 3.22.0.0 | Firmware release “avl_3.22.0_rc1”  | Lantronix  | 26/03/2024   |
| 3.21.0.0 | Firmware release “avl_3.21.0_rc3”  | Lantronix  | 05/02/2024   |
| 3.21.0.0 | Firmware release “avl_3.21.0_rc1”  | Lantronix  | 08/02/2024   |
| 3.20.0.0 | Firmware release “avl_3.20.0_rc14” | Lantronix  | 18/01/2024   |
| 3.20.0.0 | Firmware release “avl_3.20.0_rc12” | Lantronix  | 17/10/2023   |
| 3.19.0.0 | Firmware release “avl_3.19.0_rc4”  | Lantronix  | 25/07/2023   |
| 3.18.0.0 | Firmware release “avl_3.18.0_rc9”  | Lantronix  | 06/02/2023   |
| 3.18.0.0 | Firmware release “avl_3.18.0_rc8”  | Lantronix  | 01/25/2023   |
| 3.18.0.0 | Firmware release “avl_3.18.0_rc5”  | Lantronix  | 11/24/2022   |
| 3.17.0.0 | Firmware release “avl_3.17.0_rc5”  | Lantronix  | 09/16/2022   |
| 3.16.0.0 | Firmware release “avl_3.16.0_rc9”  | Lantronix  | 06/01/2022   |
| 3.16.0.0 | Firmware release “avl_3.16.0_rc3”  | Lantronix  | 12/13/2021   |
| 3.15.0.0 | Firmware release “avl_3.15.0_rc4”  | Lantronix  | 16/09/2021   |
| 3.14.0.0 | Firmware release “avl_3.14.0_rc5”  | Lantronix  | 04/19/2021   |
| 3.14.0.0 | Firmware release “avl_3.14.0_rc4”  | Lantronix  | 04/09/2021   |
| 3.14.0.0 | Firmware release “avl_3.14.0_rc1”  | Lantronix  | 02/17/2021   |
| 3.13.0.0 | Firmware release “avl_3.13.0_rc5”  | Lantronix  | 01/12/2021   |
| 3.12.0.0 | Firmware release “avl_3.12.0_rc2”  | Lantronix  | 11/17/2020   |
| 3.11.0.0 | Firmware release “avl_3.11.0_rc4”  | Lantronix  | 10/14/2020   |

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|---------|-----------------------------------|-----------|------------|
| 3.3.0.0 | Firmware release "avl_3.3.0_rc15" | Lantronix | 10/02/2019 |
| 3.2.0.3 | Firmware release "avl_3.2.0_rc39" | FALCOM    | 07/04/2019 |
| 3.1.0.2 | Firmware release "avl_3.1.0_rc33" | FALCOM    | 11/09/2018 |
| 3.1.0.1 | Firmware release "avl_3.1.0_rc20" | FALCOM    | 05/15/2018 |

## DOCUMENTATION:

The following document(s) is (are) provided on <https://www.lantronix.com/> as part of the AVL firmware release " **avl\_3.26.0\_rc9**".

| Filename                               | Description   |
|--|---|
| <a href="#">PFAL Command Reference</a> | Lists and describes all PFAL commands supported by this firmware release. |

## 1) Preface

This release note describes the new functionalities of the firmware release "**avl\_3.26.0\_rc9**" and is intended for use as a reference when updating an AVL device to version "**avl\_3.26.0\_rc9**".

## 2) Important Notes

The firmware file with extension "**\*.frp**" is for the update through the **Workbench** and for the update remotely OTA (RUpdate). The firmware file with extension "**\*.txt**" is for the update through **terminal emulators** (e.g.: Hyperterminal, PComm Pro). The firmware file with extension "**\*.zip**" is for the WebUpdate. To update the firmware with the extension "**\*.frp**", please use the **Workbench** version **10.7127.beta**. To update the firmware with the extension "**\*.txt**" you can use any **terminal emulator** (example: Hyper terminal, Pcomm Pro). To initiate a WebUpdate use the command **\$PFAL,SYS.WebUpdate.Start,"[http://url](#)",80** or **\$PFAL,SYS.WebUpdate.Start,"[http://url](#)"** or **\$PFAL,SYS.WebUpdate.Start,"[https://url](#)",443** or **\$PFAL,SYS.WebUpdate.Start,"[https://url](#)"** on the device. DON'T switch off the AVL device while it reboots after the firmware update. The duration of the reboot after the firmware update may take approx. 45 seconds.

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## 3) Firmware Installation Notes

The installation package consists of firmware in three different formats \*.frp and \*.zip. and \*.txt. You can choose whether you want to update the firmware via following interfaces:

| Interfaces                    | File  | Description  | References |
|-------------------------------|-------|--|------------|
| <b>RS-232 PORT</b>            | *.frp | This is primarily intended for updating one device first, to ensure the process completes properly before rolling the update to a group of other devices. Use " <b>Workbench</b> " and update the "*.frp"-file via the serial port.                |            |
| <b>WEB-SERVER</b>             | *.zip | This is a perfect solution when multiple deployed AVL devices need updating. The firmware file is located in your webserver and you send to the AVL device the URL of a web server you have set up for downloading over-the-air the firmware file. |            |
| <b>Remote with Workbench</b>  | *.frp | This solution lets you update the firmware remotely on several AVL devices. More details can be found in the online help in the Workbench software.  |            |
| <b>TCP-SERVER</b>             | *.frp | This solution lets you update the firmware remotely on several AVL devices.  |            |
| <b>Remote with Perception</b> | *.zip | This solution lets you update the firmware remotely on several AVL devices. More details can be found in the online help in the Perception software.   |            |
| <b>Terminal SW</b>            | *.txt | You can upload the firmware with the extension *.txt serially over a terminal SW such as PComm Lite, Tera Term, etc.   |            |

## 4) Prerequisites concerning the PC

A 32/64-bit-WINDOWS operating system (Windows XP, Vista, 7) or Linux is running on your PC and about 50 MByte free space on your hard disk is required. The RS-232 interface must be configured

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with the following parameters:

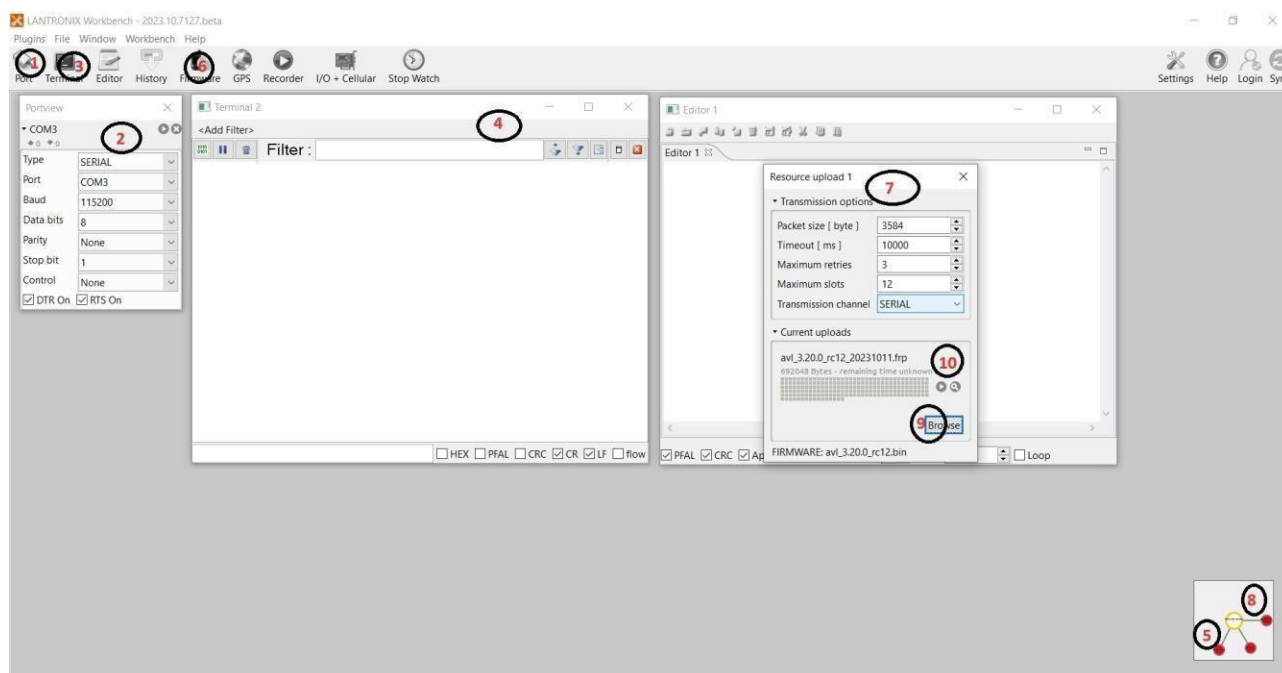
- Baud rate: 115200
- Data Bits: 8
- Parity: None
- Stopbits: 1
- Flow Control: None

## 5) Firmware Update Process

These instructions are specific to updating your LANTRONIX AVL device via COM interface (Serial Port).

(a) Download the firmware file and Workbench software needed from the following hyperlinks.

1. <https://www.lantronix.com/products/workbench/#tab-docs-downloads>
2. <https://www.lantronix.com/products/fox3-series/#tab-docs-downloads>
3. Download " **avl\_3.26.0\_rc9**" and extract the file you downloaded into a temporary folder on your PC.
4. Run the "workbench" software. If this software is still not installed on your PC, download it first and start the installation.



(b) Begin the firmware update process (refer to the fig. above).

1. Connect the AVL device to your PC either directly using the programming cable or the corresponding evaluation board.
2. Do **NOT** update the firmware version 3.x.x on FOX3-2G/3G/4G devices with an older processor. The firmware version 3.x.x is **ONLY** for FOX3-2G/3G/4G and BOLERO40 devices with the **CORTEX (CT)** processor. Please verify the hardware revision from the table "Hardware compatibility" above and make sure you are upgrading a FOX3-2G/3G/4G device with CORTEX processor. LANTRONIX takes no

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liability and no responsibility for any cases, firmware versions have been flashed wrongly nor will LANTRONIX cover any costs associated with this happening.

- Click **Port** (1) icon, select the COM port settings from the **PortView1** (2) and click the **Play** button next to the text "COM.." to open the selected COM port.
- Click **Terminal** (3) icon, select the **TerminalView 1** (4) and go to the **ConnectionView** (5) and connect it to the **Serial Port COM1**.
- Click **Firmware** (6) icon, select "SERIAL" from the **Transmission Options** (7), go to **ConnectionView** (8) and connect it to the **Serial Port COM1**.
- Click **Browse** (9) button and select the firmware file as "\*.frp" from the temporary folder where the firmware was expanded.
- Click **Play** (10) button to start the firmware update. This button appears only if the firmware file has already been selected.
- Wait until the update process completes. While the update is running, do not send any command to the device and do not manually reboot it until the device restarts itself.
- After the update process successfully completes, a success message will appear. Click "OK" button to restart the AVL device.
- After device restarts and configuring the unit, you can execute the command **\$PFAL,Cnf.Backup** to save the user configuration as factory settings. If the AVL device was already configured, you can execute the same command after the firmware update to save the user configuration as factory settings.
- LANTRONIX recommends that you update one device first, to ensure the process completes properly before rolling the update to a group of other devices.

## 6) New and Modified Functions

### IMPROVEMENTS and BUGS FIXED:

- Added Percepixon client to project
  - Support for SARA-R500
  - Support for Serial1 RS485 option
  - Activate support for LARA-R2XX
  - Use a temp file for LUA script RUpdate
  - Fixed invalid values for elevation/azimuth when parsing UBX
  - Fixed TLS initialisation without secrets for TCP.MQTT client
  - Added subscription support to MQTT client - Removed filename restrictions for WebUpdate
  - Enable batmode DEVICE.BAT.MODE=always
  - Implemented FOTA procedure for TOBY devices
  - Fixes GPS.Geofence.sID
- PFAL commands: - GSM.StartFOTA,""[,]

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-- Set the FOTA resource and start update. The update resource is encoded as [ftp://\[user:pwd@\]ftp.server.com/path/file.zip](ftp://[user:pwd@]ftp.server.com/path/file.zip)

- GSM.StopFOTA -- Stop a pending update procedure
- Added support of using optional certificate, priv.key to connect PercepXion server.
- Fixes Capability Exchange failure caused by dynamic(user feeded).
- Added user notifications for PercepXion client.
- Fixed SOFTWARE\_VERSION.
- Implemented User Audit feature
- Refresh IMSI, ICCID after cellular restart.
- Support multiple updates in content check.
- Publish Telemetry over REST, if size exceeds max MQTT length.
- Migration from ConsoleFlow to PercepXion related changes.

All PFAL commands which have 'CF' will have to be replaced with 'PX'.

- Fenced 'device' certificate download, 'control\_device\_access' option in supported commands.
- Certificates/Key name used by PercepXion client changed as below.

"/sys/pxclient-rootca.crt"

"/sys/pxclient-private.key"

"/sys/pxclient-client.crt"

- Added PFAL command to set Azure mqtt & Device certificate version
- Added additional events to the PX client


PFAL events:

- TCP.PX.eRegistered
- TCP.PX.eCapabilityNegStarted
- TCP.PX.eCapabilityNegCompleted
- TCP.PX.eReceivedMessage
- TCP.PX.eMQTTConnected
- TCP.PX.eMQTTDisconnected
- TCP.PX.eStarted
- TCP.PX.eStopped
- TCP.PX.ePublished
- TCP.PX.eUpdatesAvailable

LUA Types:


- ALARM\_PX\_CLIENT\_STARTED
- ALARM\_PX\_CLIENT\_STOPPED
- ALARM\_PX\_CLIENT\_CAP\_NEG\_STARTED
- ALARM\_PX\_CLIENT\_CAP\_NEG\_COMPLETED
- ALARM\_PX\_CLIENT\_MQTT\_RECEIVED,



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- ALARM\_PX\_CLIENT\_MQTT\_CONNECTED
- ALARM\_PX\_CLIENT\_MQTT\_DISCONNECTED
- ALARM\_PX\_CLIENT\_REGISTERED
- ALARM\_PX\_CLIENT\_PUBLISHED
- ALARM\_PX\_CLIENT\_UPDATES\_AVAILABLE

- Added device and azure certificate version to status update.
- Added support for on-premise in PX client.
- Avoiding delays for quicker execution of Telemetry update iterations
- Log the watchdog condition to DEVICE.WDG
- Merged function to use/build a signed FW
- Merged CF changes from avl\_3.20.6\_rc12\_no\_secureboot\_debug
- Merged PX changes from b\_avl\_3.20.0 - Prefer PX configuration and fallback to CF values
- Fixed content firmware version check flag
- Increase DNS timeout to 30 seconds
- Fixed timeout for TLS handshake
- Fixed parsing MBEDTLS\_SSL\_TLS1\_3\_NEW\_SESSION\_TICKET state
- Change telemetry minimum supported refresh rate to 1 second
- Remove metadata from telemetry data
  - Config settings:
    - PX.CLIENT.CERT\_VERIFICATION=<0|1> - Set the certificate verification mode
    - CNF.SET,CF.CLIENT.AUDITLOGS=<0|1> - Set the Audit Log enable/Disable mode
    - CNF.Set,PX.CLIENT.ONPREMISE=<0|1> -0 Set the Configuration to On-premise enable/Disable mode.
- More detailed error answer for SYS.LUA.Start,SYS.LUA.Stop,SYS.LUA.Info
- Added SMS configuration AT+USVCDOMAIN
- Set TCP.MQTT.SEND as ACTION\_FLAG\_VALUE\_HIGH\_PRIO to help with synchronizing nvCounter used for messageSequenceNumber
- PX certificate files differ between PFAL and PX Client
- Device key is exposed in TCP \$<MSG.Info.ServerLogin> Message
- fixed buffer handling
- CSV Format to send with TCP.MQTT.Send,"<topic>@[<message>]"
- Added subscribe command. More than one per command and in alarm possible to use.
- Added variable for the received MQTT data

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- Added event if a mqtt publishing error occurs while sending a topic PFAL commands:  
TCP.MQTT.SUBSCRIBE,"<topic>"
- PFAL dyn. variables: &(MQTTtext)
- PFAL events: TCP.MQTT.ePublishingError
- 
- Increased timeout for I2C communication
- Fixed printing of Modbus register values in S16 format
- New featurePercepXion: send custom telemetry data as per refresh rate interval
- \* PX.CLIENT.GROUPS\_SENDELEMENTRY=<ON|1/OFF|0>

automatically send custom telemetry data at the telemetry refresh interval

Warn user that commands sent from Console may result in lost connection to PercepXion

Disable processing of Sys.Device.FactoryReset from PercepXion, rest TBD

- New feature: dynamic variable for the current value of a CAN variable, displayed in hexadecimal
- Raise the required PDOP value for SaveLastPosition


- Fixed DNS resolution in UDP.Client
- Fixed reset during SYS.Device.Doze
- Unescape results for SYS.ModBus.Scan
- Set correct date/time in SetCurrentTime()
- Make Counter and nvCounter alarms more flexible

- new bios 3.0.6 with changed threshold to 10.667V if Vin falls under the specified voltage range

- CLI Debug commands device is not sending results to PX server
- Merged changes for PX from FOX4
- Fixed fota update support for SARA-R500S

- Ported changes from Fox4 to Fox3.
- - Fixed event creation for Counter and nvCounter, see alarm.cxx
- - Fix udp data buffered in RAM should only be send in case of ready gsm or connected gprs/ppp/net interface
- FixesPX Client is not connecting to server.


- Fixes FOX3 Modems getting stuck (4G and M1). Only sending AT+COPS=0 manually recovers the issue.

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- Fixes CANx Variable Support for Floating Point and Signed Format.  
Use "CAN.F" for floating point, and "CAN.S" for signed values.
- Updated mbedTLS to 3.6.2 (15-Oct-2024), see folder lib\_TLS
- Security fixes for LUA, see avlsupport.cxx (#AVL3-777, AVL3-769)
- Implements CAN.MSG.CLEAR.
- Write flash RDP fuse to disable JTAG, see start.cxx
- implement ACK mechanism for can\_write in LUA.
- Removing CAN debug messages.
- Clearing CAN.Msg also clears its associated can.variables values.
- Consistent display after CAN.msg.clear in can.var.info command output.
- UDP packet is not buffered.
- While reading F32 bit value device gets freeze and resets with watchdog1.
- Fixes Seen some unwanted data in debug logs.
- Fixes F32 freeze in BE.
- Fixed CAN float issue found in field test.
- PercepXion Support AT&T debugging location inaccuracy.
- PX- Able to Update the .cfg file in place of ca certificate in Update Certificate from the Explore tab.
- Fixed crash in code path for power switch mode, see makefile
- error scanning SMS list shows continuously every 2 seconds in debug logs
- SMS READ/UNREAD loop
- TLS Handshake timeout with 4096 length certificate
- Add Retarder parameters
- IMSI switch AT+CRSM, ATURATSCAN=5, AT+URATCONF=1
- Fix calculation for mcc (3 digits)
- FMS ERC1: fix formatting
- MSG\_INFO\_SERVERLOGIN: variable initialization
- Ble.List causes reset with watchdog1
- Issue with TCP Client Getting Stuck
- Fixes uninitialized ptr usage and memsets.
- More fixes for PX client hangup, added metrics for PX connection,  
fallback to reboot from mqtt client if PX client is deadlocked.
- Added DisableClient() to bring to TCP client to idle and setup the reconnect timeout.
- Check network disconnects during TLS handshake.
- Various improvements in PX client, potential deadlock/race condition fix.
- CAN bus, PX, MQTT, TCP client improvements.
- PercepXion: checking for available content should check for all types and retry on failure
- PercepXion: client connection is blocked after running for several hours
- Fixed the TCP disconnect loop
- TCP Connect/Disconnect and sending the same TCP packet
- Changed PercepXion watchdog enum for backward compatibility
- PXMQTT: reconnect if subscribe fails
- PXMQTT: retry the connection if subscribing fails
- Protected subscription topic changes, updated client description text, firmware download retries
- with 3.26.0\_rc7 PFAL,sys.can.send,..... flags RTR in Peakview tool.
- Sending a wrong config file which is 57 kb showing config file too big and then resetting  
device with watchdog7 and then going into loop.
- After FW upgrade complete GPSSTATE event shows error as cancel download.

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- Intermittent-Sometimes connect to server failed is showing but next retry works.
- Detailed Config file error message.
- Firmware update intermittently fails (1/10 times) with Watchdog 7 error after reboot retry also failed.

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| Section   | Commands  |   |                                 |
| Config settings:  | <b>CNF.Set,PX.CLIENT.CONNECT=1,&lt;URL&gt;</b><br><b>CNF.Set,PX.CLIENT.CONTENT_CHECK_INTERVAL</b><br><b>CNF.Set,PX.CLIENT.DEVICE_DESCRIPTION</b><br><b>CNF.Set,PX.CLIENT.DEVICE_NAME</b><br><b>CNF.Set,PX.CLIENT.STATUS_UPDATE_INTERVAL</b> |   |                                 |

#### KNOWN ISSUES:

None