



Project			
Lifeline Digital			
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Release notes			
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Bengt Erlandsson	Daniel Larsson		
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# Release notes

## Lifeline Digital software versions

Rev	Change	Date	By
PA1	Initial version	2022-02-01	DLN
PA2	ARM 0.6.21	2022-04-12	DLN
PA3	NEC 0.5.210 & Edith 1.2.4.1939	2022-06-14	DLN
PA4	nRF 4.1.14	2022-06-16	DLN
PA5	NEC 0.5.217	2022-08-08	DLN
PA6	Changes points to numbers for NEC 0.5.217	2022-08-11	DLN
PA7	NEC 0.5.221 & ARM 0.6.25	2022-08-23	DLN
PA8	NEC 0.5.221 (Careline 4G R1)	2022-09-02	DLN
PA9	NEC 0.5.224	2022-09-14	DLN
PA10	NEC 0.5.225 & ARM 0.6.27	2022-10-26	DLN
PA11	NEC 0.5.235	2023-02-07	DLN
PA12	NEC 0.5.236	2023-02-21	DLN
PA13	ARM 0.6.29	2023-02-28	DLN
PA14	NEC 0.5.237	2023-04-19	DLN
PA15	NEC 0.5.239	2023-05-08	DLN
PA16	NEC 0.5.240 & ARM 0.6.34	2023-06-26	DLN
PA17	NEC 0.5.243 & Edith 1.2.4.2690 Added section: "Current version targets..."	2023-08-29	DLN
PA18	NEC 0.5.244 & Edith 1.2.4.2733	2023-09-18	DLN
PA19	ARM 0.6.35	2023-10-06	DLN
PA20	NEC 0.5.248 & ARM 0.6.36 & Edith 1.2.4.2926	2023-11-16	DLN
PA21	ARM 0.6.36	2023-11-28	DLN
PA22	NEC 0.5.255, Edith 1.2.4.2943	2024-02-13	DLN
PA23	NEC 5.0.1, Edith 1.2.4.3291	2024-02-28	DLN
PA24	LLD Config v8	2024-03-01	DLN
PA25	Note added for NEC 5.0.3 ARM 07.0.2, Edith 1.2.4.3925	2024-04-22	DLN
PA26	ARM 0.6.40	2024-05-17	DLN
PA27	NEC 5.0.7, ARM 0.7.3	2024-06-26	DLN
PA28	NEC 5.0.8, ARM 0.7.4, Edith 1.2.4.4044	2024-08-08	DLN
PA29	ARM 0.7.5	2024-08-30	DLN



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## Introduction

This document is used to track changes in firmware and tools with direct impact on the Lifeline Digital / Careline devices.

## How to get firmware and Edith

The firmware can be downloaded from <https://www.tunstalldownload.com/firmware>

The Edith configuration utility can be downloaded from: <https://www.tunstalldownload.com/edith/>



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### Current version targets for specific instances

The table below holds the current target versions for the different environments.

Lifeline Digital FW	NEC	ARM	DMP	DM90
Production/Factory (UK)	0.5.240	0.6.33	-	
DMP EU	0.5.239	0.6.33	4.3.10	
DMP EU (FT)				
DMP Nordic	0.5.239	0.6.27	4.3.8	
DMP Nordic (FT)	0.5.240			
DMP APAC	0.5.225	0.6.27	4.4.3	
DMP APAC (FT)				
DMP Demo	0.5.240	0.6.33	4.4.3	
DMP US	-	-	4.4.3	
DMP US (FT)	-	-		

FT = Field trial

(last updated long ago)



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## Lifeline Digital NEC – release notes

### 5.0.8 (from 5.0.7)

1. Activation/deactivation of radio sensors event logging has inverse function from NEC 5.0.8.

### 5.0.7 (from 5.0.3)

1. Added possibility to set no mains timeout to minute resolution (1...14 minutes) by setting timeout value between 241 and 254.
2. Added support for UK and Connected Radio trigger type 16 - ROM #1.
3. Added dual APN autoselect feature.

### 5.0.3 (from 5.0.1)

1. Corrected default event type group for Home/Away (was 14, Call Reporting - changed to 17, Home/Away).
2. Added further protection against invalid configuration file.
3. Added option for allowing reset during Pre-call Signal even if reset of alarm is generally disabled. (option 3, bit 4)

### 5.0.1 (from 0.5.255)

1. Corrected so that TT protocols and STMF is included for IPLEX\_4G\_R3 and IPLEX\_4G\_R4 (was missing)
2. Stepped version indicator from 0.y.z to 5.y.z

*Please note the version number change.*

### 0.5.255 (from 0.5.248)

1. Added support for spin4 Quectel EC21EUX modem



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2. Finalised SSM (Scheduled Speech Messaging)
3. Added secondary Online Update (Online Update 2)
4. Added so that the BIA alerting interval optionally can be set to minute resolution. (requested by France)

#### **0.5.248 (from 0.5.247)**

1. Added so that TX4 915 and TX4 Fall can be used for TX control of external actuators.

#### **0.5.247 (from 0.5.246)**

1. Added support for remote configuration of TX4 Fall detector parameters.

#### **0.5.246 (from 0.5.245)**

1. Changed default value for EE\_TX4\_Falldet\_Level from 0x56 to 0xA6.
2. Renamed Scheduled Notification Processing to Scheduled Speech Messaging (SSM).

#### **0.5.245 (from 0.5.244)**

1. Added new sensor TX4 Fall (trigger type 76).

#### **0.5.244 (from 0.5.243)**

1. Added functionality for Virtual Dual SIM. (VDSIM)
2. Changed so that toggling between ARM boot areas is only carried out for Online Poll/Update/Startup (i.e. when trying to reach the Online server)
3. Added so that VDSIM state (primary/secondary path) is input to TASSP and feature activation functionality.
4. Added functionality in IPACS to query currently active callback number.



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### 0.5.243 (from 0.5.240)

1. Added possibility to use Dial Out Session parameters (DOS) generally for Homephone.
2. Changed so that SIP callback (using registration to default CM) uses the connection type that was used during the session that initiated the actual callback.
3. Added functionality for duress mode.
4. Added so that radio sensor position can be used as input for the TASSP alarm redirection capability.
5. Added functionality for sensor event logging to application log.
6. Added possibility to use time control of activation for Basic Inactivity Monitoring (BIA).
7. Added so that short press of alarm button in programming mode enter "auto pairing mode" direct.

### 0.5.240 (from 0.5.239)

1. Changed default APN from trygghetsalarm.tele2.m2m to apn.tunstall.com.

### 0.5.239 (from 0.5.237)

1. Moved TAPS light options from address 0x07B2 to 0x07BC to avoid conflict with EE\_GrnYlwBtnClassicModeActivation.

2. For TT21:

Changed event type for Bogus Caller ALB from D8 to E0

Changed event type for Bogus Caller Link Test fail from D9 to E1

Changed event type for Bogus Caller Link Test return from CT to CV

changed event type for Assistance from DQ to BQ

3. For TT92

Changed event type for Bogus Caller ALB from 8,0x10,0x10 to 8,0x10,0x06

Changed event type for Assistance from 6,0x00,0x04 to 8,0x00,0x78



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### 0.5.237 (from 0.5.236)

1. Changed default main event code for Trigger type 15 (Carer Trigger) to ALARMTYPE\_ASSISTANCE instead of User Alarm.
2. Changed default main event code for Trigger type 13 (fall detector) to ALARMTYPE\_FALLDET\_BUTTON instead of User Alarm.
3. Changed External Actuator control for Alarm Session so that Post Call Callback is not considered being part of the alarm session.

### 0.5.236 (from 0.5.235)

1. Corrected TT21 mapping for ALARMTYPE\_PMAT\_BATT\_FAIL (Pressure mat AP LB) from "Au" to "B2".
2. Also changed from SCAIP\_TAG\_DTY\_0001\_UNDEFINED to SCAIP\_TAG\_DTY\_0901\_GENERIC1 for ALARMTYPE\_GSENS\_BATT\_FAIL, ALARMTYPE\_GSENS\_LT\_FAIL and ALARMTYPE\_GSENS\_LT\_RETURN.
3. Changed priority in getSrvAdr() so that night mode and temporary redirection got higher priority than the Online Server redirection to avoid ping-ponging between servers if temporary redirection enabled from a server connected to after an Online Redirection has been carried out.

### 0.5.235 (from 0.5.228)

1. Corrected a bug in conversion between Tunstall Legacy one-way and Connected Radio for UK\_TTYPE\_14\_PIR\_STD. Entry/Exit activation and Tamper were swapped.
2. Corrected TT21/TT92 event types Intruder-batt fail, Intruder-linktest-fail, Intruder-linktest-return and Enuresis.
3. Corrected timing issue in TT handler where the voice switching command 702/701 could be misinterpreted as a "long" single digit voice command.





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4. Added muting of tone generator output while tones are not emitted. This avoids a constant hiss that could occur otherwise.
5. Changed so that full duplex is entered immediately following the ACK in TT92/TT21. Then PNC anticipates that and doesn't always send any duplex commands.
6. Corrected TT21 mapping for ALARMTYPE\_PMAT\_BATT\_FAIL (Pressure mat AP LB) from "Au" to "B2". Also changed from SCAIP\_TAG\_DTY\_0001\_UNDEFINED to SCAIP\_TAG\_DTY\_0901\_GENERIC1 for ALARMTYPE\_GSENS\_BATT\_FAIL, ALARMTYPE\_GSENS\_LT\_FAIL and ALARMTYPE\_GSENS\_LT\_RETURN.

#### **0.5.228 (from 0.5.225)**

1. Changed External Actuator Control for Alarm Session so that the actuator is deactivated immediately after the alarm distribution if there is no succeeding callback session.
2. Added legacy protocols TT21 and TT92 for STMF and DTMF

#### **0.5.225 (from 0.5.224)**

1. Added Mic Activation as output control for External Actuator mode.
2. Changed so that link activity is reported also when periodic link test is disabled for a radio sensor.
3. Added red LED indication as alternative for the actuator channels.

#### **0.5.224 (from 0.5.223)**

1. Added probing of WiFi chip calibration during DSP startup.
2. Added so that periodic link test is initially disabled for all Tunstall Legacy ALB sensors, not only for the personal ALB trigger.

#### **0.5.223 (from 0.5.221)**



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Added so that cell modem is also started in prepareToConnect() even when the calltype is wired IP and call is audible. The call can result in a callback which means the cell modem needs to be prepared and registered to the network to be ready for such call.

### 0.5.221 (from 0.5.217)

1. Added second deactivation flags for post call callback and DTMF remapping to avoid problem with invalid parameters if user uses an old favorite config.
3. Added support for Connected Radio trigger type 95 - Panasonic smoke sensor.
4. Added support for IPACS resource level 3.
5. Changed so that alarm button illumination status is visible in programming mode when toggling on/off.

### 0.5.217 (from 0.5.210)

1. Changed so that WLR RSSI is only sampled for the actual alarm transmission and not for any reply frames from surrounding nodes.
2. Added radio link test status reporting to frequent monitoring.
3. Added so that currently selected auto connection type is cleared following a settings update. The user might have disabled a connection type that was previously selected.
4. Added Online server redirection.
5. Changed so that "Communication with DMP completed" is not played if the call sequence fails and has ended.
6. Added support for CR trigger type 94 - Basic personal trigger ALB.
7. Added mapping for UK legacy personal trigger type 1. This trigger will not send AP -> no link test enabled.
8. Changed so that link test is automatically disabled for ALB only triggers.
9. Added possibility to use SCAIP\_TAG\_DTY\_0003\_PERSONAL\_TRIGGER\_PENDANT for alarms originating from integral button in SCAIP.
10. Changed so that whitelisting is disabled if the list of whitelist numbers is empty.
11. Added Trigger 4 to TASSP BCC sensor and changed so that Trigger 3 is used for resetting the activation timer.



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12. Changed so that the BCC sensor does not switch off any connected NEXA actuator by default at startup. (Could interfere with generic actuator output if a NEXA channel is defined for the BCC sensor even when the BCC sensor is not activated)
13. Added so that guard timer is re-initialized upon Trigger 2 during guard state for Extended PES variant.
14. Changed default sensor event 4 for CR\_TTYPE\_30\_TX4\_IR from Medical/User alarm to ALARMTYPE\_MOVEMENT.
15. Added periodic refresh of Nexa actuators.
16. Added possibility to disable automatic storing of sensor event codes during pairing mode.
17. Added possibility to automatically disable event distribution from sensors configured as input to TASSP during pairing mode.
18. Added possibility to omit a sensor position from being used by the auto store mode.
19. Added possibility to swap behaviour of green and yellow buttons longpush for Careline 4G R2 (Classic vs Normal mode)
20. Increased heartbeat backoff time from 15 to 30 minutes to avoid swamping the receiver(s) if there are connectivity issues.
21. Changed so that WiFi is omitted as connection type when WiFi IP sharing is enabled.
22. Changed so that Online Poll interval cannot be set lower than 1 hour unless Online Poll parameter change activation code has been set.
23. Added so that IPACS voice capability flags are set based on selected speech method. Auto = all available voice capabilities are flagged up.
24. Added adjustment for battery low level for Careline 4G R2 since the production test equipment entered a too low value.
25. Added possibility to show charge status on red LED via selection in the service menu.
26. Changed pendant alerting so that it can be used with all audible event types, not only user alarm.
27. Added support for cell modem location reset via service menu and IPACS command from SMP/DMP.
28. Added post call callback feature.
29. Added so system warning announcements are also made during distribution of silent alarms.
30. Improved Ethernet failure detection routine.
31. Enabled feature for using user defined DTMF settings for voice session control.
32. Added so that dial out session parameters can be controlled by configuration.



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- 33. Added feature to dial out session so that the sequence can be continued in case of completely failing dial out session, etc.
- 34. Added possibility to use SIP dial-out address from SIP account instead of sequence address.

### 0.5.210 (from 0.5.207)

- Improved WLR RSSI sampling for RSSI positioning. (deferred sampling for reply messages)
- Added so that currently selected auto connection type is cleared following a settings update. The user might have disabled a connection type that was previously selected.
- Added Online server redirection.
- Changed so that "Communication with DMP completed" is not played if the call sequence fails and has ended.
- Added support for CR trigger type 94 - Basic personal trigger ALB. Also added corresponding mapping from UK legacy personal trigger type 1. This trigger will not send AP -> no link test enabled.
- Added so that link test is automatically disabled for ALB only triggers.
- Added possibility to use SCAIP\_TAG\_DTY\_0003\_PERSONAL\_TRIGGER\_PENDANT for alarms originating from integral button in SCAIP.
- Changed so that whitelisting is disabled if the list of whitelist numbers is empty.

### 0.5.207 (from 0.5.203)

- Changed modem version handling in modemIdent() so that main modem version > 255 could be handled.
- Changed so that Cellular Backup is not used for Auto Connection Type until the sequence has been executed once.
- Added periodic reset (every 11th hour) of media processor.
- Corrected priority issue with Assistance event type where Assistance could basically be interrupted by itself in checkPrioAlarmQueue().



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- Changed so that Connectivity Reporting reports "255 = Error has occurred, reporting has failed" if reporting cannot be done. Changed modem version presentation in modemIdent() for better readability in syslog.

### 0.5.203 (from 0.5.200)

- Changed modem version presentation in modemIdent() for better readability in syslog.

### 0.5.200 (from 0.5.194)

- Added possibility to use inverted output polarity for External Actuator control.
- Changed so that production week is included in MAC address for 4G.
- Enabled more callback log info for general syslogging.
- Added support for cell modem firmware update.
- Changed Tunstall Legacy radio address decoding from EEPROM to avoid problem if config didn't clear the upper bits.
- Added support for reading out USIM ICCID.
- Added support for Cell modem firmware update.

### 0.5.194

- Added so that PDP context/APN is checked and set prior to checking for network connection to solve issue with LTE networks not presenting a default APN (like Telstra in Australia)
- Increased syslogging for General Callback.
- Added whitelisting feature for incoming calls.

### 0.5.191



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- Changed so that TASSP PE sensor can be re-activated from ACTIVATED\_1 state by door open/close and not only the movement sensor. (request from Addsecure, Finland)
- Added push buttons as generic input for TASSP. (request from Addsecure, Finland)
- Added generic location codes Location 1..10 for STT, IPACS and SCAIP/EN50134-9 protocols. (Request from Tunstall ES)
- Changed return to normal state for CR\_TTYPE\_11\_BED\_OCCUPANCY, CR\_TTYPE\_36\_CHAIR\_OCCUPANCY and CR\_TTYPE\_85\_915\_S\_BED\_IN\_OUT in TASSP so that the "normal" state is when the user is out of bed/chair to be compatible with the return to normal state used by T-Box2/3. (Bug reported by Wayne Moate)
- Added possibility to enable/disable VoLTE. (Request from Tunstall DK)
- Added voice messages "New device settings applied" and "Communication with DMP completed" (Feedback from Field Trials)



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## ARM – release notes

### 0.7.5 (from 0.7.4)

- Reverts codec tuning to the version used in 0.6.35

### 0.7.4 (from 0.7.3)

- Reintroduces SIP DNS resolver with addition to enable/disable SRV requests through URI port assignment.
- Adds redundant NTP pools.

### 0.7.3 (from 0.7.2)

- Prioritizes to always have the static resources manifest available.
- Optimized the SPI-memory partition used for static resources.

### 0.7.2 (from 0.6.36)

- Added support for scheduled speech messages (SSM)
- Added support for Quectel
- Deactivated SIP specific DNS resolver (SRV requests)
- Improved codec tuning / DSP configuration

### 0.6.40 (from 0.6.36)

- Deactivated SIP specific DNS resolver (SRV requests)

### 0.6.36 (from 0.6.35)

- Substitutes microphone mute with a comfort noise to avoid restart of codec during ongoing phone calls.

### 0.6.35 (from 0.6.34)

- Improved tuning of codec CS47L15 and CS47L35.



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### 0.6.34 (from 0.6.33)

- Support for audio codec CS47L35.

### 0.6.33 (from 0.6.32)

- DNS caching with dnsmasq (replacing 0.6.30 SIP caching).

### 0.6.32 (from 0.6.31)

- Minor updates to remote file synch.

### 0.6.31 (from 0.6.30)

- VoIP TLS cert handling, remote file synch.

### 0.6.30 (from 0.6.29)

- Adds DNS resolver with cache capability to SIP/VoIP application.

### 0.6.29 (from 0.6.28)

- Fixed simplex echo suppression bug.

### 0.6.28 (from 0.6.27)

- Fixed WLAN calibration bug introduced in 0.6.26.

### 0.6.27 (from 0.6.25)

- Added possibility to detect invalid WiFi chip calibration.

### 0.6.25 (from 0.6.21)

- Removed xml NULL termination in SCAIP messages.
- Increased buffer size for IPACS communication.





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- Fix for issue with sudden impact simplex-only communication (as identified by Tunstall Finland).

#### 0.6.21

- Add modem firmware upgrade capability.

#### 0.6.20

- Pruned list of suggested CODECs to avoid issues with TSP being deployed in MS Azure environments that can't handle jumbo frames.

#### 0.6.19

- Added Voice message #619, "Communication with DMP completed".
- Added support for external hearing aid loop.
- Improved I2S audio startup synchronization.

#### 0.6.17

- Initial release



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## nRF – release notes

### 4.1.14 (2021-09-16)

- Implement dynamic setting for switch to 915MHz band, set by host interface upon configuration.

### 4.1.13 (2021-09-14)

- 915Mhz band radio support (Australian market).
- BLE Continuous wave test command.
- Leave after session after alarm is acked.



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## Edith – release notes

### 1.2.4.4044

- Activation/deactivation of radio sensors event logging has inverse function from NEC 5.0.8. In Edith the label for first setting in radio option 2 changed from “Disable event logging from this sensor” to “Enable event logging from this sensor” to reflect this change.

### 1.2.4.3925

- Auto update function, located in the About box.
- Settings search function ‘SearchGPT’.

### 1.2.4.3291

- Configuration settings transfer time reduced by optimizing data size.

### 1.2.4.3174

- Changed VDSIM labels
- Added detection of spin 4 and spin 5 LLDs

### 1.2.4.2943

- Changed VDSIM Autoselect APN to correct mapping

### 1.2.4.2926

- Added TX4 Fall detector settings
- Up to date with NEC 0.5.248

### 1.2.4.2733

- Added Virtual DUAL SIM parameters



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- Added possibility to use Dial Out Session parameters (DOS) generally for Homephone.
- Added parameters for duress mode.
- Added so that radio sensor position can be used as input for the TASSP alarm redirection capability.
- Added functionality for sensor event logging to application log.
- Added possibility to use time control of activation for Basic Inactivity Monitoring (BIA).

#### 1.2.4.2535

- File folder amnesia bug fixed
- Added silent installer

#### 1.2.4.2384

- Added TT21 & TT92 to analog protocols

#### 1.2.4.1939

- Default config connects to production environment, not field trial.

#### 1.2.4.1803

- D2XX device driver updated from FTDI CDM21228\_Setup.exe to CDM212364\_Setup.exe.
- Whitelist callback added
- TenancyID added for SIP accounts 1-10.
- Alarm session and Inverted actuator features added.
- Enable VoLTE added in Advanced/Other/GSM setting.
- Changed Tunstall Legacy radio address decoding from EEPROM to clear the upper bits.

#### 1.2.4.1701

- Next and Previous buttons added for radio sensors tab.
- Undefined values are not zero anymore. The actual undefined value is saved.



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#### 1.2.4.1611

- Ordinary and alternative online ping interval added for IP GSM.

#### 1.2.4.1574

- Removed Auto from ipconnectiontypesExpert for 4GR1.

#### 1.2.4.2641

- Updated to include the same auto answer functions as Careline 4GR1
- Changed lowest limit to 1 from 0 on setting "signals before answer"

#### 1.2.4.2690

1. Added possibility to use Dial Out Session parameters (DOS) generally for Homephone. (Calls/Dial out)
2. Added functionality for duress mode. (LED & Warnings)
3. Added so that radio sensor position can be used as input for the TASSP alarm redirection capability.
4. Added functionality for sensor event logging to application log.
5. Added possibility to use time control of activation for Basic Inactivity Monitoring (BIA).
6. Moved radio options.



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## Careline 4G R1 NEC – release notes

### 0.5.221 (from 0.5.188)

1. Changed so that generic push button input for TASSP is not processed until all buttons are released (to allow for combination of buttons).
2. Added generic location codes Location 1..10 for STT, IPACS and SCAIP/EN50134-9 protocols.
3. Changed so that RSSI/QoS is not probed in Callrec when callback is active. This could lead to problems with a superfast PNC that called immediately after disconnecting the IPACS session.
4. Added possibility to use inverted output polarity for External Actuator control.
5. Added support for reading out USIM ICCID.
6. Corrected priority issue with Assistance event type where Assistance could basically be interrupted by itself in checkPrioAlarmQueue().
7. Added 250ms delay in Flashbios for 78K-based HW to avoid problem with slow SEPIC startup after an unfortunate addition of massive amounts of microfarads to the SEPIC output net.
8. Added Trigger 4 to TASSP BCC sensor and changed so that Trigger 3 is used for resetting the activation timer. Also changed so that the BCC sensor does not switch off any connected NEXA actuator by default at startup. (Could interfere with generic actuator output if a NEXA channel is defined for the BCC sensor even when the BCC sensor is not activated)
9. Added so that guard timer is re-initialized upon Trigger 2 during guard state for Extended PES variant.
10. Increased heartbeat backoff time from 15 to 30 minutes to avoid swamping the receiver(s) if there are connectivity issues.
11. Changed so that Online Poll interval cannot be set lower than 1 hour unless Online Poll parameter change activation code has been set.



Project			
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## Config

LLD – v8