

Cello Platform FW 36p Release Notes



Cellocator Division
Pointer Telocation Ltd.

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POINTER



Release Notes

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1 Introduction

This FW 36p version is based on version 33x and is released for GA.

This release is for the following Cello platform (old MCU) Feature Packages:

- ◆ FP 30: for Fleet and CANBUS connectivity.
- ◆ FP 40: for Fleet and Driver Behavior Management (DBM) accelerometer based. Only exists for Cello-IQ HW variants.
- ◆ FP 50: for Fleet and Driver Behavior Management (DBM) + CANBUS connectivity.

This release concentrates solely on bug fixes. No new features were added. However, this release does include an update procedure for upgrading from a lower FP to a higher FP.

A full list of related documents can be found in the *Documentation* section.

This FW version is the final one generated for the old MCU, as per the *PCN 0123 - New MCU for Cello GNSS* announcement.

1.1 Cello HW variants

This FW release is based on FW 33x and includes the following HW variants (based on old MCU):

- ◆ Cello CANiQ 2G
- ◆ Cello CANiQ 3G NA
- ◆ Cello CANiQ 3G EU
- ◆ Cello-IQ 2G



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2 What's New

This release focuses only on bug fixes. No new features were added due to HW (RAM) limitations existing in the old MCU (STM32F103RDT6).



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3 Applicability Table

The following table lists the products to which this document applies.

Product Name	Catalog Number	Applicability
CELLO CANiQ 30	CT7800130-000-k090-015	YES
CELLO CANiQ 50	CT7800130-000-k090-017	YES
CELLO CANiQ 3G NA 30	CT7800140-000-k090-018	YES
CELLO CANiQ 3G NA 50	CT7800140-000-k090-020	YES
CELLO CANiQ 3G EU 30	CT7800150-000-k090-021	YES
CELLO CANiQ 3G EU 50	CT7800150-000-k090-023	YES
CELLO CANiQ IT	CT7800132-000	YES
CELLO-IQ 30	CT7800122-000-k090-014	YES
CELLO-IQ 40	CT7800122-000-k090-011	YES
CELLO-IQ 50	CT7800122-000-k090-010	YES



4 Content

The Cello platform includes the components listed in the following sections.

4.1 FW Infrastructure

- F071A_PCelloHW14_TelitGE910V3_STM32F103RDT6_S8192_36p_IQ30
- F071B_PCelloHW14_TelitGE910V3_STM32F103RDT6_S8192_36p_IQ40
- F071C_PCelloHW14_TelitGE910V3_STM32F103RDT6_S8192_36p_IQ50
- F071D_PCelloHW20_TelitGE910V3_STM32F103RDT6_S8192_36p_CANIQ30
- F071E_PCelloHW20_TelitGE910V3_STM32F103RDT6_S8192_36p_CANIQ50
- F071F_PCelloHW20_TelitUE910NAR_STM32F103RDT6_S8192_36p_CANIQ50
- F0720_PCelloHW20_TelitUE910NAR_STM32F103RDT6_S8192_36p_CANIQ30
- F0721_PCelloHW20_TelitUE910EUR_STM32F103RDT6_S8192_36p_CANIQ30
- F0722_PCelloHW20_TelitUE910EUR_STM32F103RDT6_S8192_36p_CANIQ50
- ◆ F0723_PCelloHW116_TelitGE910V3_STM32F103RDT6_S8192_36p_CANIQ_CARSHARING

4.2 PL File

- hw_14_fw_36p_Cello-IQ30_V4000.PL
- hw_14_fw_36p_Cello-IQ40_V4000.PL
- hw_14_fw_36p_Cello-IQ50_V4000.PL
- hw_20_fw_36p_CelloCANiQ_2G30_V4000.PL
- hw_20_fw_36p_CelloCANiQ_2G50_V4000.PL
- hw_20_fw_36p_CelloCANiQ_3G30_V4000.PL
- hw_20_fw_36p_CelloCANiQ_3G50_V4000.PL
- ◆ hw_116_fw_36p_CelloCANiQ_2G_V4000.PL
- ◆ CanConfig.xml

4.2.1 Driver Feedback Display (DFD)

- ◆ 715-50000 DFD

4.3 Evaluation Kit

The following versions include the complete Evaluation Kit:

- ◆ K090-002 Cello-CANiQ 3G NA
- ◆ K090-003 Cello-CANiQ 3G EU
- ◆ K090-004 Cello-CANiQ 2G



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4.4 Integration Package

- ◆ Integration package 2.5.14

4.5 Software Utilities

- ◆ Cellocator evaluation suite installer v3.20.3.3.msi

4.6 Documentation

- ◆ Cello Platform FW 36p Release Notes (this document)
- ◆ Cellocator Serial Communication Protocol
- ◆ Cellocator Wireless Communication Protocol
- ◆ Cellocator Cello Programming Manual



5 Bug Fixes

The following table lists bugs and issues that were resolved for FW 36p.

ALM #	Description
2111	The unit sent an idle speed starting at 11h10 UTC but did not send the idle speed end, even if the speed was over 18kmh according to the PL file.
2168	Long Garmin messages (Max length FF) were not fully captured by the unit.
2176	Cello AR – TXRESON 201.
2218	HW 14 PSP KEYPAD Undefined Failure.
2398	Fuel probe issue.
2362	1-wire Temp temperature issue after reset (-127°C instead of 0°C after reset).
2715	Cello CANiQ Car Sharing - Siren output was not triggered when CAN configured as RPM source.
1641	Empty Heavy Truck, Large Van and Light Truck_Bus preset data by default (FF).
2044	Immobilizer bug (immobilizer disarmed without Dallas ID during trip).
1866	Outgoing SMS message with illegal/corrupted number froze the unit (Passive or Active SMS).
2437	Repeated SMS message from units (up to several thousand).
2428	Frequency Counter value was not updated for some delta, when frequency falling.
2329	If Shock of Door inputs (as well as other inputs) were configured in wet mode, and the Input was considered as inverted, the inversion did not work.
2434	Dallas ID sometimes read incorrectly.
2484	Over speed feedback did not stop when reducing speed suddenly in Geo fence.
1993	The delta between GPS and dashboard speed was not used in CSA.
2344	Stop event lost on AHR restart.
2576	Release of outputs activated after jamming did not work if there was a mistake in the first applied Dallas.
640	Odometer advanced during Towing Mode.
2584	Odometer Redundancy to GPS when not available in CAN or when CAN_Odometer Data was Zero (in 'Enable CAN as Speed Source' parameter).



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ALM #	Description
2610	Differences between trip distance and odometer advance.
2425	Programming command was not executed.
2398	Unit sometimes stopped querying Frequency Input.
2634	Cello Car Sharing: OTA lock was not functioning.
2699	Cello Car-Sharing: Reservation Issue - No show of up event to Historical commands.
2717	Wrong CAN alerts from the unit, while configured correctly in CAN Editor.
2721	Fuel consumption calculation was not accurate in CANiQ.
2731	Co-driver feedback when random (unknown) card was presented (needed to be ignored).
2823	Cello Car-Sharing: Reservations were no longer valid after firmware update.
2813	Huge Trip distance value: No Stop event reported in Fleet, but reported in Safety - CAN from odometer.
2770	End of trip missing in CSA: the trip numerator changed but the end of trip was not sent. As a result, the trip statistics were incorrect.
2727	Idle session event went to the next trip if the trip was closed by Dallas.
2674	Trip distance and Trip duration were incorrect because of missing stop event or false start event.
2755 / 2728	Frequent CSA and GPRS disconnections when working with 2G modem.
2764	DS1971 1-wire protocol was not functioning correctly.
2760	1-Wire Temperature Sensor value was reported as "0", when communication was cut.
1963	When speed lower than 1 km/h, output was activated immediately instead of after 10 seconds.
1968	2 Geo fences configured with the same boundary and "No modem zone": when entering the second Geo fence the unit woke up modem and left it activated.
1928	Incorrect value of "Program memory" in Serial Platform Manifest.
1918	After JTAG, the unit contained garbage in the Numerator of Type 11.
2150	In Modular Platform Manifest (for new MCU) by serial and OTA, "Version Information" field set as IQ30 instead of IQ40.



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ALM #	Description
2237	Incorrect version identification in Platform Manifest when MCU was STM32F103RFT6.
1756	Incorrect default values in PLs of Product Tree variants.
2234	AHR was postponed in 3G modems.
1420	Unit stuck on maintenance server if attempted to re-flash with wrong FW.
2427	Reading from CFE Frequency Input zeroed upon Ignition On.
2802	Unit detected wrong speed while ignition off.
2950	ABC maneuvers were not transmitted after a period of time.
2994	GPS peeking (in Full Hib) resulted in higher current consumption.
3020	The unit did not report pulse counter periodic messages (module 20).
3027	Wrong measurement units of the assigned function - Fuel Consumption Direct.
3040	End of Trip was with wrong Fuel Used value (Ignition Filter as the reason).
2824	Hard-reset was required for Cello-IQ device when configured for PWM immobilizer.
2890	Garbage in EDR files – fixed but not verified.
3011/ 3169	events with temperatures of -128 ° are being frequently generated (based on test of RC21640
3132	Cello CANiQ 3G did not report to Cellocator+ when roaming.
3169	Events with temperatures of -128° were being frequently generated.



6 Known Issues

The following table summarizes the known issues which have been encountered during applications and system tests.

ALM #	Description
2978	System limitation: Concurrent Voice + Data feature does not work with 2G modem.
2981	System limitation: Unit uses default network in cases where configured APN is not accessible.
2642	LOCK input does not activate the alternative over speed threshold.
2687	Unit reports a CSA maneuver before its finished with a future time-stamp.
2725	1-wire Temperature Sensor value in the type 0 event does not follow the Analog sensor protocol.
3095	Sharp noise before the ringing tone, and loud beep when hanging up a conversation with Hands free kits.