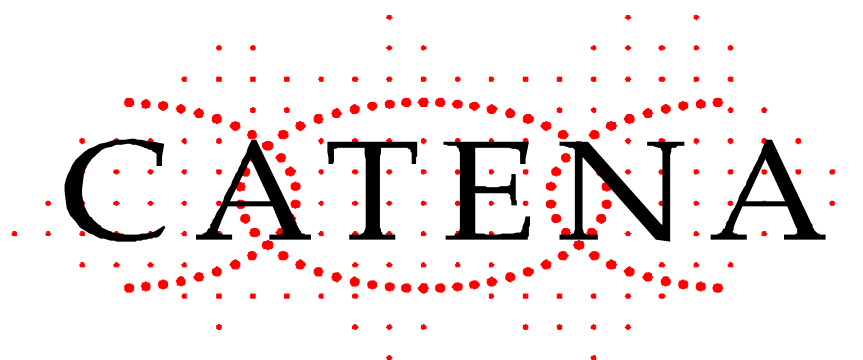


PROJECT: WFAC2X2

FIRMWARE RELEASE NOTE



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Revision Control

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1 INTRODUCTION

1.1 Document Purpose and Scope

This document describes the content of the firmware releases for the WFAC2x2 project, variant Begonia.

1.2 References

Table 1-1 References

Doc #	Reference	Name	Date
19CAIN01_C06S017	[UM]	User Manual v1.1	Dec 10, 2019
17CAIN09_C06S009	[AMG]	API Migration Guide v1.0	Sept 25, 2019

1.3 Abbreviations and Definitions

Table 1-2 Abbreviations

Abbreviation	Meaning

Table 1-3 Definitions

Definitions	Meaning

2 RELEASE PACKAGE

2.1 Version Identification

Identifier	Value
target	BE
firmware version	R1.7.001

For this release, the GetVersion command will reply with the following information:

Identifier	Value
hw_major	50
hw_minor	C0
target_ver	2
fw_major	1
fw_minor	7
Build_nr	1
Test_nr	0

2.2 Package Content

The release package contains the following files:

File	Description
WFAC22_50C0_prog.mem	Program memory file, to be loaded by the host
WFAC22_50C0_init.mem	Initialization file, to be loaded by the host

Please follow the load and boot instructions as explained in the [UM].

3 RELEASE CONTENT

3.1 Goal

This firmware may be used for the Begonia target.

This firmware introduces a property (*api_version*) that can switch the API version of the *TRX_Transmit* command to accommodate backwards compatibility.

<i>api_version</i> (property number 48)	TRX_Transmit API
0	(trxId: dw1[3:0], disable_path1: dw1[4], disable_path2: dw1[5], pwr: dw1[12:8]) -> (rtc: dw1[15:0])
1	(trxId: dw1[3:0], pwr_delta_magn: dw1[4:5], pwr: dw1[11:8], pwr_delta_sign: dw1[12]) -> (rtc: dw1[15:0])

3.2 Supported Functionality

The table below shows which commands are part of this release, and if there are limitations for the command in this release.

Table 3-1 command overview

Command	Status
GEN_GetVersion	Functional
GEN_SetProperty	Functional
GEN_GetProperty	Functional
APP_GetStatus	Functional
APP_Activate	Functional
APP_Deactivate	Functional
APP_GetTemperature	Functional
APP_Calibrate	Functional
APP_CalResistor	Functional
APP_SetResistor	Functional
APP_ConfigTrx	Functional
APP_ConfigFemCtrl	Functional
CLK_SetXo	Functional
TRX_Receive	Functional
TRX_Transmit	Functional
TRX_Stop	Functional
TRX_Park	Functional
TRX_Prepare	Functional
TRX_GetStatus	Functional
TRX_SetDsmLoopDeltaLo	Functional
TRX_SetTestDc	Functional

4 KNOWN PROBLEMS & LIMITATIONS

None.