Product Name	DAVEApps_MotorControl_Library_001
Release Version	V1.0.28
Type Of Release*	Beta
Name of the Supplier	Infineon Technologies AG
Mode of Release	Infineon Security Server, Update Sites and IShare
Date of Release	09.05.2014
Previous Version	V1.0.26

Contents

1 Released Items 2

2 Support Packages 4

3 Tool Information 5

4 Changes from Previous Version 6

5 Installation Requirements 8

6 List of known Issues 9

7 List of Limitations and Deviations 10

8 DAVE Apps Revision History 11

* All types of releases named as Alpha, Beta, Release Candidate and Patch are not intended to be used for production code.

1 Released Items

1.1 DAVEApps_MotorControl_Library_001

This DAVE Apps library contains DAVE Apps that cover use cases for the Motor control applications. The DAVEApps_MotorControl_Library_001 Library contains the following 25 DAVE Apps.

Sl.no	DAVE App name	Version	XMC45	XMC44	XMC42	XMC41	XMC13
1	ACIMVF01	1.0.6;1.0.8	Yes	Yes	Yes	Yes	Yes
2	BLDCBCH02	1.0.6;1.0.10	Yes	Yes	Yes	Yes	Yes
3	BLDCBCH03	1.0.8;1.0.12	Yes	Yes	Yes	Yes	Yes
4	BLDCBCSL01	1.0.2;1.0.4	Yes	Yes	Yes	Yes	Yes
5	DSDRV001	1.0.6; 1.0.10	Yes	Yes			
6	MOTORLIBS	1.0.18;1.0.20	Yes	Yes	Yes	Yes	Yes
7	PMSMFOCH02	1.0.4;1.0.8	Yes	Yes	Yes	Yes	Yes
8	PMSMFOCH03	1.0.4;1.0.6	Yes	Yes	Yes	Yes	Yes
9	PMSMFOCH04	1.0.4;1.0.8	Yes	Yes	Yes	Yes	Yes
10	PMSMFOCH05	1.0.4;1.0.8	Yes	Yes	Yes	Yes	Yes
11	PMSMFOCIE01	1.0.2; 1.0.6	Yes	Yes	Yes	Yes	Yes
12	PMSMFOCIE02	1.0.2; 1.0.6	Yes	Yes	Yes	Yes	Yes
13	PMSMFOCSL01	1.0.10; 1.0.12	Yes	Yes	Yes	Yes	Yes
14	PMSMFOCSL02	1.0.4; 1.0.6	Yes	Yes	Yes	Yes	Yes
15	PMSMSINH02	1.0.6; 1.0.10	Yes	Yes	Yes	Yes	Yes
16	PMSMSINH03	1.0.8; 1.0.12	Yes	Yes	Yes	Yes	Yes
17	POSHL001	1.0.8; 1.0.12	Yes	Yes	Yes	Yes	Yes
18	POSIFH01	1.0.8;1.0.12	Yes	Yes	Yes	Yes	Yes
19	POSIFIE01	1.0.2;1.0.4	Yes	Yes	Yes	Yes	Yes
20	POSIFMC01	1.0.2;1.0.4	Yes	Yes	Yes	Yes	Yes
21	POSQE001	1.0.12; 1.0.14	Yes	Yes	Yes	Yes	
22	PWMBC01	1.0.6; 1.0.8	Yes	Yes	Yes	Yes	Yes
23	PWMSVM01	1.0.30; 1.0.36	Yes	Yes	Yes	Yes	Yes

1.2 DAVE Apps Test conditions

- DAVE Apps for the XMC4500 series are verified on all supported derivatives, fully functional test is applied with XMC4500-F144x1024.
- DAVE Apps for the XMC4400 series are verified on all supported derivatives, fully functional test is applied with XMC4400-F100x512.
- DAVE Apps for the XMC4200 series are verified on all supported derivatives, fully functional test is applied with XMC4200-Q48x256.
- DAVE Apps for the XMC1300 series are verified on all supported derivatives, fully functional test is applied with XMC1302-T038F0200.

2 Support Packages

None

3 Tool Information

DAVE3	DAVE_v3.1.8 or higher version
JAVA	jre6 & product version 1.6.0_24

Important Note:

The DAVE Apps Library Update site v1.0.64 works only with DAVE-3.1.8 or higher version. This update site should not be used with older versions of the DAVE.

4 Changes from Previous Version

4.1 Changes from previous version v1.0.26

Sl.no	Description of change
1	1 App updated – POSQE001.

4.2 Changes from previous version v1.0.24

Sl.no	Description of change
1	22 Apps are updated – DSDRV001, POSHL001, PMSMFOCSL01, PMSMFOCSL02, PMSMFOCH02, PMSMFOCH03, PMSMFOCH04, PMSMFOCH05, PMSMFOCIE01, PMSMFOCIE02,BLDCBCSL01,PWMSVM01, POSIFMC01, POSIFIE01, PMSMSINH03, PMSMSINH02, BLDCBCH03, BLDCBCH02, ACIMVF01, MOTORLIBS, PWMBC01 and POSIFH01

4.3 Changes from previous version v1.0.22

Sl.no	Description of change
1	14 Apps are updated – PMSMFOCSL01, PMSMFOCSL02, PMSMFOCH02, PMSMFOCH03, PMSMFOCH04, PMSMFOCH05, PMSMFOCIE01, PMSMFOCIE02, BLDCBCSL01, PWMSVM01, POSIFMC01, POSIFIE01,PMSMSINH03 and PMSMSINH02.

4.4 Changes from previous version v1.0.20

Sl.no	Description of change
1	3 New Apps are added – PMSMFOCIE01, PMSMFOCIE02 and POSIFIE01.

4.5 Changes from previous version v1.0.18

Sl.no	Description of change
1	2 New Apps are added – BLDCBCSL01 and POSIFMC01.
2	13 App are updated – ACIMVF01, BLDCBCH02, BLDCBCH03, PMSMFOCH02, PMSMFOCH03, PMSMFOCH04, PMSMFOCH05, PMSMFOCSL01, PMSMFOCSL02, PMSMSINH02, PMSMSINH03, PWMBC01 and PWMSVM01.

4.6 Changes from previous version v1.0.16

Sl.no	Description of change
1	4 New Apps are added – PMSMFOCH02, PMSMFOCH03, PMSMFOCH04 and PMSMFOCH05.
2	1 App is updated – DSDRV001.

4.7 Changes from previous version v1.0.14

Sl.no	Description of change
1	1 New App is added – PMSMFOCH02, PMSMFOCH03, PMSMFOCH04 and PMSMFOCH05.
2	3 Apps are updated – MOTORLIBS, PMSMFOCSL01 and PWMSVM01.

4.8 Changes from previous version v1.0.12

Sl.no	Description of change
1	1 App is updated – MOTORLIBS.

4.9 Changes from previous version v1.0.10

Sl.no	Description of change

1	9 Apps are updated – ACIMVF01, BLDCBCH03, BLDCBCH02, MOTORLIBS, POSIFH01, PWMBC01, PMSMSINH02, PMSMSINH03 and PWMSVM01.

4.10 Changes from previous version v1.0.8

Sl.no	Description of change
1	1 New Apps added – PMSMFOCSL01
2	5 Apps are updated – BLDCBCH03, BLDCBCH02, MOTORLIBS, POSIFH01 and PWMSVM01.

4.11 Changes from previous version v1.0.6

Sl.no	Description of change
1	2 New Apps added – BLDCBCH02, PMSMSINH02.
2	8 Apps are updated – ACIMVF01, BLDCBCH03, MOTORLIBS, PMSMSINH03, POSHL001, POSIFH01, PWMBC01 and PWMSVM01.

4.12 Changes from previous version v1.0.4

Sl.no	Description of change
1	6 New Apps added – ACIMVF01, BLDCBCH03, POSIFH01, PWMBC01, PMSMSINH03 and MOTORLIBS.
2	1 App is updated – PWMSVM01

4.13 Changes from previous version v1.0.2

Sl.no	Description of change
1	2 Apps updated – POSQE001, PWMSVM01.

4.14 Changes from previous version v1.0.0

Sl.no	Description of change
1	1 New App is added - DSDRSV001
2	1 App is updated – PWMSVM01

5 Installation Requirements

- DAVE v3.1.8 or higher version should be available.
- DAVEApps_Library_001 should be installed.

Important Note:

The DAVE Apps Library Update site v1.0.64 works only with DAVE-3.1.8 or higher version. This update site should not be used with older versions of the DAVE.

6 List of known Issues

Please refer section 8.

7 List of Limitations and Deviations

Module	Limitation / Deviation

Important Note:

The DAVE Apps Library Update site v1.0.64 works only with DAVE-3.1.8 or higher version. This update site should not be used with older versions of the DAVE.

8 DAVE Apps Revision History

8.1 ACIMVF01

8.1.1 ACIMVF01_v1_0_8

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated ACIMVF01.C and ACIMVF01.h files as static files). 2. Bootstrap function added. 3. DBG002 app related MACRO has been updated. 4. XMC1000 device support extended for XMC1302 VQFN package. 5. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.1.2 ACIMVF01_v1_0_6

List of changes to previous version

Reference number	Description of change
	Current Amplifier offset voltage measurement feature is added.

8.1.3 ACIMVF01_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.1.4 ACIMVF01_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC1302 Device supported

8.2 BLDCBCH02

8.2.1 BLDCBCH02_v1_0_10

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated BLDCBCH02.C and BLDCBCH02.h files as static files). 2. Bootstrap function added. 3. DBG002 app related MACRO has been updated. 4. XMC1000 device support extended for XMC1302 VQFN package and XMC1301 device. 5. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.2.2 BLDCBCH02_v1_0_6

List of changes to previous version

Reference number	Description of change
	Current Amplifier offset voltage measurement feature is added.

8.2.3 BLDCBCH02_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.2.4 BLDCBCH02_v1_0_2

List of changes to previous version

Reference number	Description of change
	Debug Log Macro updated

8.3 BLDCBCH03

8.3.1 BLDCBCH03_v1_0_12

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated BLDCBCH03.C and BLDCBCH03.h files as static files) 2. Bootstrap function added 3. DBG002 app related MACRO has been updated 4. XMC1000 device support extended for XMC1302 VQFN package and XMC1301 device 5. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.3.2 BLDCBCH03_v1_0_8

List of changes to previous version

Reference number	Description of change
	Current Amplifier offset voltage measurement feature is added.

8.3.3 BLDCBCH03_v1_0_6

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.3.4 BLDCBCH03_v1_0_4

List of changes to previous version

Reference number	Description of change
	Debug Log Macro updated

8.3.5 BLDCBCH03_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC1302 Device supported

8.4 DSDRV001

8.4.1 DSDRV001_v1_0_10

Reference number	Description of change
	C++ header Support.
	Device support extended for XMC4500-AC step, XMC4400-AB step.

8.4.2 DSDRV001_v1_0_6

List of changes to previous version

Reference number	Description of change
	1. Implementation of DSDRV001_GetAngleTS( ) function 2. Implementation of DSDRV001_GetPositionRawTS( ) function 3. Removal of DSDRV001_GetPositionRaw( ) function 4. Fixing of Maximum Output Value calculation 5. Addition of ENOB, Is Channels Synchronized, Response Time UI elements. 6. Changes of defaults settings in Pin Configuration Tab 7. Fix for reentrancy of DSDRV001_ProcessCalibration( ) 8. Fix for Internal Clock generation settings in CSRC bit filed. 9. New API - DSDRV001_SetOffset( ) 10. Additional inputs and pictures in help documentation

List of Known Issues

Reference number	Description of Issue
MCS00000463	Known Issue: In GUI configuration parameter “External Modulator Needs Clock” option shall configure the CSRC bit filed in the DICFG register.

8.5 MOTORLIBS

8.5.1 MOTORLIBS_v1_0_20

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package and XMC1301 device. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.5.2 MOTORLIBS_v1_0_18

List of changes to previous version

Reference number	Description of change
	Help content has been modified.

8.5.3 MOTORLIBS_v1_0_16

List of changes to previous version

Reference number	Description of change
	A file called MOTORLIBS.h is added as a place holder to avoid the backward compatibility.

	In LIBS Apps, the MOTORLIB files are renamed to MOTORLIB.c & MOTORLIB.h from MOTORLIBS.c & MOTORLIBS.h

8.5.4 MOTORLIBS_v1_0_14

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.
	Motor Libs files are moved to LIBS Apps.

8.5.5 MOTORLIBS_v1_0_12

List of changes to previous version

Reference number	Description of change
	FOC related APIs are added for XMC1302 Device

8.5.6 MOTORLIBS_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC1302 Device supported

8.6 PMSMFOCSL01

8.6.1 PMSMFOCSL01_v1_0_12

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated PMSMFOCSL01.C and PMSMFOCSL01.h files as static files). 2. Bootstrap function added. 3. DBG002 app related MACRO has been updated. 4. Set and Get Speed related API has been modified to handle negative value. 5. XMC1000 device support extended for XMC1302 VQFN package. 6. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.6.2 PMSMFOCSL01_v1_0_10

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.6.3 PMSMFOCSL01_v1_0_8

List of changes to previous version

Reference number	Description of change
	Debug Log Macros are updated

8.6.4 PMSMFOCSL01_v1_0_6

List of changes to previous version

Reference number	Description of change
	XMC4400 series supported.

8.7 PMSMSINH02

8.7.1 PMSMSINH02_v1_0_10

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated PMSMSINH02.C and PMSMSINH02.h files as static files). 2. Bootstrap function added. 3. DBG002 app related MACRO has been updated. 4. XMC1000 device support extended for XMC1302 VQFN package 5. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.7.2 PMSMSINH02_v1_0_6

List of changes to previous version

Reference number	Description of change
	Angle compensation value update for XMC4 devices

8.7.3 PMSMSINH02_v1_0_4

List of changes to previous version

Reference number	Description of change
	Current Amplifier offset voltage measurement feature is added.

8.7.4 PMSMSINH02_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.8 PMSMSINH03

8.8.1 PMSMSINH03_v1_0_12

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated PMSMSINH03.C and PMSMSINH03.h files as static files). 2. Bootstrap function added. 3. DBG002 app related MACRO has been updated. 4. XMC1000 device support extended for XMC1302 VQFN package 5. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.8.2 PMSMSINH03_v1_0_8

List of changes to previous version

Reference number	Description of change
	Angle compensation value update for XMC4 devices

8.8.3 PMSMSINH03_v1_0_6

List of changes to previous version

Reference number	Description of change
	Current Amplifier offset voltage measurement feature is added.

8.8.4 PMSMSINH03_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.8.5 PMSMSINH03_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC1302 Device supported

8.9 POSHL001

8.9.1 POSHL001_v1_0_10

List of changes to previous version

Reference number	Description of change
	1. Error codes are added in various functions, that can be logged with DBG002 App. 2. C++ support added in header files
	Device support extended for XMC4500-AC step, XMC4400-AB step, XMC4200-AB step and XMC1000 VQFN devices.

8.9.2 POSHL001_v1_0_6

List of changes to previous version

Reference number	Description of change
	XMC4400 series and XMC4200 series supported XMC4500 series AB step supported

8.10 POSIFH01

8.10.1 POSIFH01_v1_0_12

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated POSIFH01.C and POSIFH01.h files as static files). 2. DBG002 app related MACRO has been updated.

	3. XMC1000 device support extended for XMC1302 VQFN package and XMC1301 device. 4. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.10.2 POSIFH01_v1_0_8

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.10.3 POSIFH01_v1_0_6

List of changes to previous version

Reference number	Description of change
	Debug Log Macro updated

8.10.4 POSIFH01_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC1302 Device supported

8.11 POSQE001

8.11.1 POSQE001_v1_0_14

List of changes to previous version

Reference number	Description of change
	XMC4000 family device support extended for, • XMC4500 Series AB step & AC step • XMC4400 Series AA step & AB step • XMC4200 Series AA step & AB step

8.11.2 POSQE001_v1_0_12

List of changes to previous version

Reference number	Description of change
	Added support for 4 more profiles

8.12 PWMBC01

8.12.1 PWMBC01_v1_0_8

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated PWMBC01.C and PWMBC01.h files as static files). 2. DBG002 app related MACRO has been updated. 3. XMC1000 device support extended for XMC1302 VQFN package and XMC1301 device. 4. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.12.2 PWMBC01_v1_0_6

List of changes to previous version

Reference number	Description of change
	Debug Log Macros are updated

8.12.3 PWMBC01_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.12.4 PWMBC01_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC1302 Device supported

8.13 PWMSVM01

8.13.1 PWMSVM01_v1_0_36

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated PWMSVM01.C and PWMSVM01.h files as static files). 2. DBG002 app related MACRO has been updated. 3. XMC1000 device support extended for XMC1302 VQFN package. 4. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.13.2 PWMSVM01_v1_0_30

List of changes to previous version

Reference number	Description of change
	Pseudo Null vector support for XMC4 devices is added

8.13.3 PWMSVM01_v1_0_28

List of changes to previous version

Reference number	Description of change
	CCU8 Slice linear constrain is removed.

8.13.4 PWMSVM01_v1_0_26

List of changes to previous version

Reference number	Description of change
	Phase current measurement support has been added

8.13.5 PWMSVM01_v1_0_24

List of changes to previous version

Reference number	Description of change
	XMC4500 series AB step supported; XMC4400 series, XMC4200 series supported.

8.13.6 PWMSVM01_v1_0_22

List of changes to previous version

Reference number	Description of change
	Pseudo Zero Vector SVM supported for XMC1302 Device

8.13.7 PWMSVM01_v1_0_12

List of changes to previous version

Reference number	Description of change
	XMC1302 Device supported

8.13.8 PWMSVM01_v1_0_8

List of changes to previous version

Reference number	Description of change
1.	Sine lookup table size has been increased from 256 to 1024.

8.13.9 PWMSVM01_v1_0_6

List of changes to previous version

Reference number	Description of change
1.	External trigger for current measurement is added.
2.	IO004 App is used for inverter enable pin instead of IO002.

8.13.10 PWMSVM01_v1_0_4

List of changes to previous version

Reference number	Description of change
	IO App handle instance number for inverter enable pin has been modified

8.14 PMSMFOCSL02

8.14.1 PMSMFOCSL02_v1_0_6

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated. 4. Set and Get Speed related API has been modified to handle negative value.

8.14.2 PMSMFOCSL02_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.14.3 PMSMFOCSL02_v1_0_2

List of changes to previous version

Reference number	Description of change
	Debug Log Macros are updated

8.15 PMSMFOCH02

8.15.1 PMSMFOCH02_v1_0_8

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated. 4. Handler modified for multiple instances 5. Set and Get Speed related API has been modified to handle negative value

8.15.2 PMSMFOCH02_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.15.3 PMSMFOCH02_v1_0_2

List of changes to previous version

Reference number	Description of change
	Debug Log Macros are updated

8.16 PMSMFOCH03

8.16.1 PMSMFOCH03_v1_0_6

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated PMSMFOCH03.C and PMSMFOCH03.h files as static files). 2. Bootstrap function added. 3. DBG002 app related MACRO has been updated. 4. Set and Get Speed related API has been modified to handle negative value 5. XMC1000 device support extended for XMC1302 VQFN package. 6. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step.

8.16.2 PMSMFOCH03_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.16.3 PMSMFOCH03_v1_0_2

List of changes to previous version

Reference number	Description of change
	Debug Log Macros are updated

8.17 PMSMFOCH04

8.17.1 PMSMFOCH04_v1_0_8

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated. 4. Handler modified for multiple instances 5. Set and Get Speed related API has been modified to handle negative value.

8.17.2 PMSMFOCH04_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.17.3 PMSMFOCH04_v1_0_2

List of changes to previous version

Reference number	Description of change
	Debug Log Macros are updated

8.18 PMSMFOCH05

8.18.1 PMSMFOCH05_v1_0_8

List of changes to previous version

Reference number	Description of change
	1. Updated the app for template changes (updated PMSMFOCH05.C and PMSMFOCH05.h files as static files). 2. Bootstrap function added. 3. DBG002 app related MACRO has been updated. 4. Set and Get Speed related API has been modified to handle negative value 5. XMC1000 device support extended for XMC1302 VQFN package. 6. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 7. Handler modified for multiple instances

8.18.2 PMSMFOCH05_v1_0_4

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.18.3 PMSMFOCH05_v1_0_2

List of changes to previous version

Reference number	Description of change
	Debug Log Macros are updated

8.19 PMSMFOCIE01

8.19.1 PMSMFOCIE01_v1_0_6

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated. 4. Handler modified for multiple instances 5. Set and Get Speed related API has been modified to handle negative value

8.19.2 PMSMFOCIE01_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.20 PMSMFOCIE02

8.20.1 PMSMFOCIE02_v1_0_6

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated. 4. Handler modified for multiple instances 5. Set and Get Speed related API has been modified to handle negative value

8.20.2 PMSMFOCIE02_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.21 POSIFMC01

8.21.1 POSIFMC_v1_0_4

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated.

8.21.2 POSIFMC_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.22 POSIFIE01

8.22.1 POSIFIE01_v1_0_4

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated.

8.22.2 POSIFIE01_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.

8.23 BLDCBCSL01

8.23.1 BLDCBCSL01_v1_0_4

List of changes to previous version

Reference number	Description of change
	1. XMC1000 device support extended for XMC1302 VQFN package. 2. XMC4000 device support extended for XMC4500 AC step, XMC44 AB step and XMC42 AB step. 3. DBG002 app related MACRO has been updated.

8.23.2 BLDCBCSL01_v1_0_2

List of changes to previous version

Reference number	Description of change
	XMC4x devices support added.