UFE412 Rel. 4.2.1 1875 Release Notes

Issue No. 1: July 2013

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Revision History

Issue No.	Issue Date	Details of Change
1	July 2013	Changes made for 4.2.1 1875 release

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1 About this Release

This UFE412 Rel. 4.2.1 1875 Release Notes is intended for use with the folowing devices:

- WinPATH-3 Rev-B2
- UFE412 version 4.2.1 from Mon Jul 15 09:33:50 IDT 2013

2 Included in this Release

2.1 Release Components

This release of the UFE SW/FW consists of the following components:

Component Name
Documentation
Software Packages (listed below), Build Number: 1875
Reference Applications

2.2 Documentation

2.2.1 Product Brief

UFE412 Product Brief	(PMC-2110545)

2.2.2 Data Sheet

UFE412 Hardware Manual	(PMC-2110181)
UFE412 Datasheet	(PMC-2110183)

2.2.3 Errata

UFE412 Known Issues	(PMC-2132157)

2.2.4 Software Documentation

UFE4 Programmer's Manual	(PMC-2110182)
UFE4 Rel. 4.2.1 1875 Rel. Notes	(PMC-2132156)
UFE4 PWE3 CR User Guide (Std)	(PMC-2111594)

2.2.5 Application Note

UFE3 Application Note	(PMC-2111136)
UFE3 Configuration Guide App Note	(PMC-2111143)
UFE3 Board Support App Note	(PMC-2111140)
PWE3 Clock Recovery UG for UFE3 and TDI	(PMC-2110456)
PWE3 Clock Recovery UG for UFE4	(PMC-2112001)
PWE3 CR Calculator for WDDI 4.2	(PMC-2112166)
CESOP/SATOP over MPLS/UDP TDM UFE4	(PMC-2113216)
HDLC/PPP over UFE4 Application Note	(PMC-2114555)
UFE4 APS App note (***)	
UFE412 Diagnostic Test	-
UFE3 to UFE4 Migration Guide	(PMC-2110190)

2.2.6 Models

UFE412 IBIS (PMC-2112225)

2.2.7 BSDL Files

UFE412 BSDL (PMC-2112226)

2.2.8 Reference Design

UFE4 Board Schematic -

2.3 Software Packages

2.3.1 UFE and Clock Recovery Add-On Modules 1

Software Package and Distribution File Name	Description	Supported WinPath Device
UFE 1875_ufe_4.2.1.tgz	UFE sources for UFE3 and UFE412 core	WinPath 3 Rev-B2
UFE4 Framer 1875_ufe_framer_ufe412_4.2.1.tgz	Driver for UFE412 framer driver	WinPath 3 Rev-B2

2.4 WDDS/UFE Reference Applications (Software Examples on myPMC)

This release of the WDDS/UFE SW comes with the following reference applications:

PWE3-CES Demo for WDDS 4.2.1

[1] UFE and Clock Recovery modules are available to UFE/licensed customers only. Please contact PMC-Sierra WIN for more information about available options.

3 Installation Instructions

- No special setup is required.
- Please refer the WDDS and UFE documentation for compilation and build instructions.

4 Testing Status of this Release

4.1 Testing Environment

WinPATH Device			VCORE	Number of WinGines	IO	MIPS Freq	PLL/Busses
Type	ID	Rev					
WinPATH 3	2C2	B1 & B2	1.1 V	12	3.3V	600 MHZ	400/533 MHZ host 100

4.2 Testing Platforms

WDS Board	BSP	BSP Version / Build
WDS3 revB2	WINMON	v4.2.5
	LINUX	Timesys ver. 2.6.29.4 for WDS3 build N 20111030

4.3 UFE HW Version

UFE	Version
UFE412	Timestamp: 1373870030 Mon Jul 15 09:33:50 IDT 2013

4.4 Developments Tool Chains

Tool	Platform	Version
WDDI Tool Chain		
C Compiler	MIPS/WinMon	mips-sde-elf-gcc – gcc version 4.4.1 (Sourcery G++ Lite 4.4-87)

C Compiler	MIPS/Linux	mipsisa32r2-timesys-linux-uclibc-gcc – gcc version 4.4.2 (GCC)
DPS Tool Chain		
WinDPL	Linux MS-Windows	114
WInELF	Linux MS-Windows	114
WInLNK	Linux MS-Windows	114
WinCom Simulator		
WinSIM WinPATH 2	Linux MS-Windows	112
WinSIM WinPATH 3	Linux MS-Windows	114

5 What is New?

The following section lists what is new in this release.

This Section refer to the things that changed from 4.2.1 1865 release

5.1 In this Release

5.1.1 Backhaul Market Applications

The given release adds support for the following Backhaul functionality:

- TU-LOP/TU-AIS alarms may get stuck if the port optical signal is toggling in high frequency bug fix (bug number 7529)
- DS3\E3 with T1\E1 connection on the same optical port bug fix (bug number 7610)

6 Limitations & Restrictions

Please refer the UFE412 Known Issues document for detailed information about all known limitations and restrictions.

7 Compatibility with Previous Releases

7.1 Software Compatibility

UFE4 4.2.1 1875 release is compatible with previous release.

7.2 Hardware Compatibility

The 4.2.1 1875 release supports the following WP devices:

WinPath 3 Rev-B2