

MediaTek Inc.

RALINK APSoC SDK CHANGE LOG

Copyright © 2012 MediaTek Inc.

All Rights Reserved.

This document is property of Ralink Technology Corporation. Transmittal, receipt, or possession of this document does not express, license, or imply any rights to use, sell, design, or manufacture from this information or the software documented herein. No reproduction, publication, or disclosure of this information, in whole or in part, shall be allowed, unless the prior written consent of Ralink Technology Corporation is obtained.

Note: THIS DOCUMENT CONTAINS SENSITIVE INFORMATION AND HAS RESTRICTED DISTRIBUTION.

Proprietary Notice and Liability Disclaimer

The confidential Information, technology or any Intellectual Property embodied therein, including without limitation, specifications, product features, data, source code, object code, computer programs, drawings, schematics, know-how, notes, models, reports, contracts, schedules and samples, constitute the Proprietary Information of Ralink (hereinafter "Proprietary Information")

All the Proprietary Information is provided "AS IS". No Warranty of any kind, whether express or implied, is given hereunder with regards to any Proprietary Information or the use, performance or function thereof. Ralink hereby disclaims any warranties, including but not limited warranties of non-infringement, merchantability, completeness, accuracy, fitness for any particular purpose, functionality and any warranty related to course of performance or dealing of Proprietary Information. In no event shall Ralink be liable for any special, indirect or consequential damages associated with or arising from use of the Proprietary Information in any way, including any loss of use, data or profits.

Ralink retains all right, title or interest in any Proprietary Information or any Intellectual Property embodied therein. The Proprietary Information shall not in whole or in part be reversed, decompiled or disassembled, nor reproduced or sublicensed or disclosed to any third party without Ralink's prior written consent.

Ralink reserves the right, at its own discretion, to update or revise the Proprietary Information from time to time, of which Ralink is not obligated to inform or send notice. Please check back if you have any question. Information or items marked as "not yet supported" shall not be relied on, nor taken as any warranty or permission of use.

MediaTek Inc. (Taiwan)

5F, No.5, Tai-Yuen 1st Street,

Chupei City

HsinChu Hsien 302, Taiwan, ROC

Tel +886-3-560-0868

Fax +886-3-560-0818

Sales Taiwan: Sales@ralinktech.com.tw

Technical Support Taiwan: FAE@ralinktech.com.tw

<http://www.ralinktech.com/>

Content

1. Introduction	4
-----------------------	---

1. Introduction

Due to increase SDK's quality, we fix bugs and improve functions constantly. The following shows you updated history of this version:

Ralink AP SDK - History Version 4.0.0.0

PLATFORM:

- support RT3052/RT3883/RT3352/RT5350 (linux-2.6.21.x)
- support RT6855/RT6856 (linux-2.6.36MT.x)

NEW FUNCTIONS:

- [IPv6 ready logo Phase II] RT6855/RT6856
- [IPv6] support IPv6 Rapid Deployment
- [IPv6] support IPv6 DS-Lite
- [GUI] support two giga phy port
- [GUI] display AP Client site_survey

IMPROVEMENT:

- [IPv6] support ipv6 tftp server
- [PPTP/L2TP] performace tuning at Linux 2.6.21 (PPTP improve 25%, L2TP improve 10% compare to SDK 3.6)
- [SAMBA] significant performance fine tune on full loading scenario (dual-band concurrent AP with USB access)
- [NAND Flash] config page size and address cycle based on chip mode

- [I2S] Add MMAP for user/kernel

- [GUI] support WPS 2.0

Bug fixed:

- [Kernel NVRAM] memory leakage / initiate failed / free cache / write data exceed 1024

- [RAETH] fix STP drop issue on RT3052 chipst ONLY

- [RAETH] fix switch abnormal after ifconfig down&up

- [RAETH] fix PDMA hang issue under heavy load test

- [RAETH] fix TSO bug if USB storage is enabled

- [USB device] system will hang whiling loading gadget driver. Turning off power-saving on both port0 and port1

- [USB device] force host to do re-enumeration to solve "unrecognize device" when re-plug-in in windows platform.

- [IPv6] kernel panic bug if enable ipv6 privacy extension or router prreference

- [IPv6] fix NS packet loss for ipv6 DAD

- [GUI] flush conntrack table while restart/deleting rules

- [NAND Flash] fix nand flash not work for MTD_ANY mode

- [IGMPPROXY] fixed the overflow FATAL bug while handling bit47=1 mac address

- [GPIO] fixed RT3352/RT5350 extended GPIO pins mapping