MEDIATEK

everyday genius

[8788_Q] Thermal bring up SOP

Version: 1.0
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Specifications are subject to change without notice.

Document Revision History

Revision	Date	Description
0.1	2019-03-13	Initial Draft

Table of Contents

1. Introduction

This document is about MT8788 thermal software configuration.

1.1 Purpose

This document is for customer to configure and use thermal in MT8788 Project.

1.2 Definitions, Acronyms and Abbreviations

- bts: board thermal sensor
  - It is thermal sensor mount on PCB board.

1.3 References

No

1.4 Overview

Sections overview. Such as:

Section 1 is the introduction and includes a description of the project.

Section 2 provides a system overview.

Section 3 describes what case would trigger reboot/shutdown.

2. Specific Contents

Thermal zone bind cooler by Linux thermal framework. Once temperature over trip point, corresponding cooler mechanism will be activated.

2.1 Thermal architecture overflow
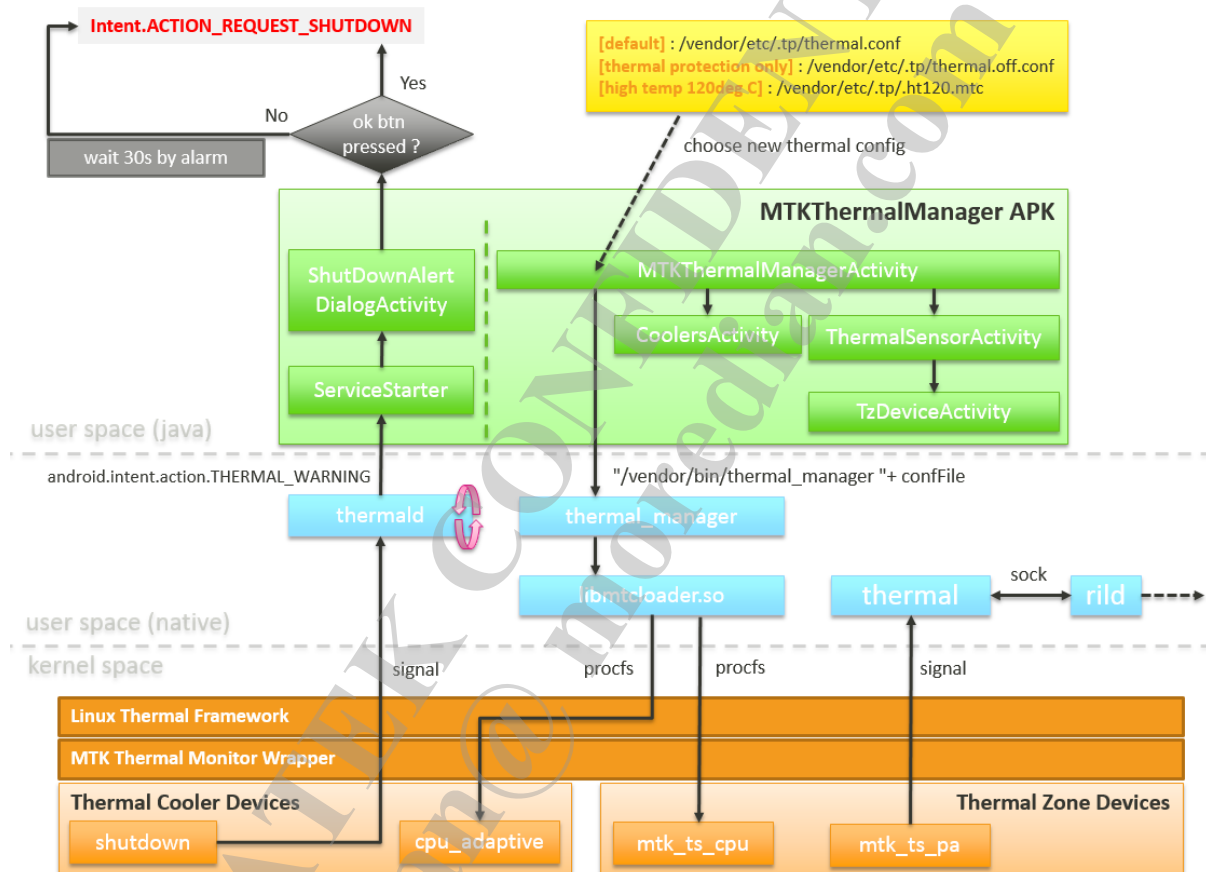
3 Notification

Thermal projecting function might trigger reboot/shutdown

3.1 What case would trigger reboot/shutdown

- NTC register table does not match with source code.
- AUXADC channel is not right one with source code.

3.2 How to avoid

- Return 0 degree of board sensor as workaround

```
diff --git a/drivers/misc/mediatek/thermal/common/thermal_zones/mtk_ts_bts.c b/d
rivers/misc/mediatek/thermal/common/thermal_zones/mtk_ts_bts.c
index ed58012..c8fb9df 100644
--- a/drivers/misc/mediatek/thermal/common/thermal_zones/mtk_ts_bts.c
+++ b/drivers/misc/mediatek/thermal/common/thermal_zones/mtk_ts_bts.c
@@ -618,6 +618,8 @@ int mtkts_bts_get_hw_temp(void)
        t_ret = get_hw_bts_temp();
        t_ret = t_ret * 1000;

+       t_ret = 0;
+
        mutex_unlock(&BTS_lock);
```