Security Classification:

Most Confidential(   ) Confidential(   ) Internal(   ) Public(√)

Rockchip Keybox Burning Guide

（Technical Department，Product 1 Team）

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Revision History

Ver. No	Author	Revised Date	Note for Revision	Remark
V1.0	LY	2017-12-12	Initial Released	
V1.1	ZW	2018-01-29	Add support for RK3328 Chip	
V1.2	ZW	2018-03-15	Add support for widevine	

Content

1 Preface

This document introduces keybox burning scheme on Rockchip platform, including how to generate keybox, Rockchip KeyboxWriter Burning Tool Usage, and common problem treatments.

1.1 Applicable Products

Chip Type
RK3126C
RK3328
RK3368
RK3399
RK3229

1.2 Applicable Readers

1. Production and Technicial personnel

2 Keybox Generation

2.1 Introduction

Rockchip rkpacker tool converts a set of keyboxes provided by Google to a ".kdb" file that can be burned:

```
rkpacker test_keybox.xml -o keybox.kdb
```

The first parameter:test_keybox.xml specifies the keybox data file to be converted;

The second parameter:-o parameter specifies directory of the ouput file after converted, if not specified, the ouput file named "result.kdb" will be generated in the current directory.

3 KeyboxWrite Tool Usage

3.1 KeyboxWrite Tool

Note:

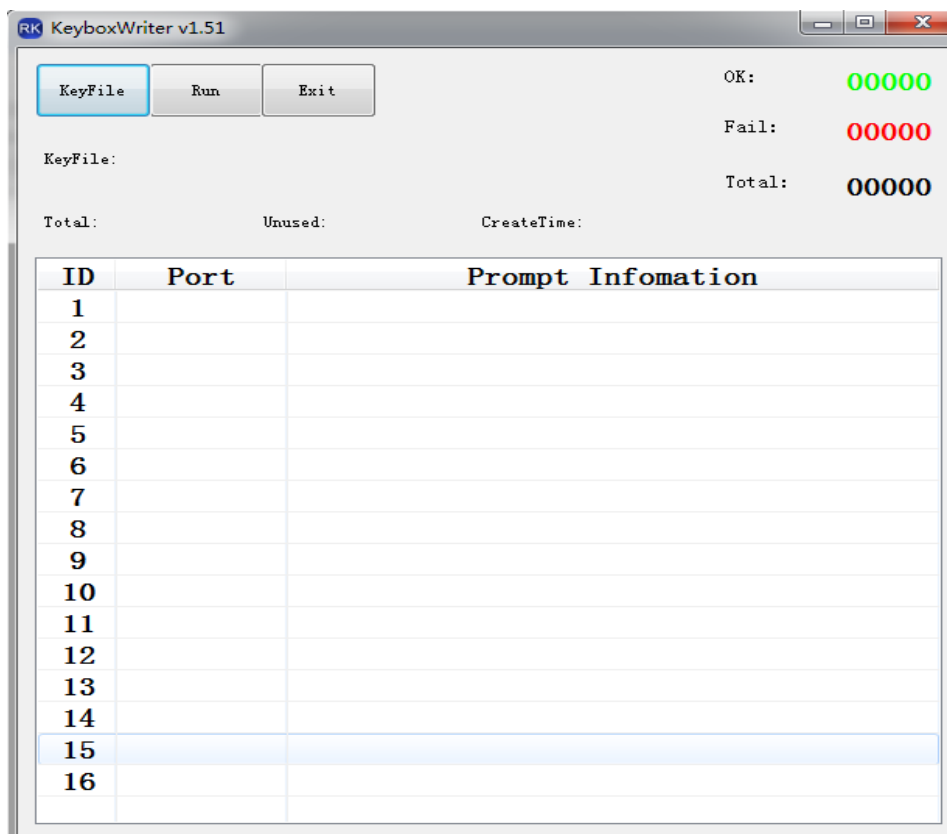Key's burning position is specified by "DestPosition" parameter of config.ini file.

Burning attestation key

#DestPosition = 1:write key to misc;

Burning widevine key

#DestPosition = 2:write key to vendor storage;

#DestPosition = other value:write key to old vendor;

Use steps:

1. Click "KeyFile" button, select the keybox file.

2. Click "Run" button, it will automatically detect Loader device.

3. After the loader device is detected, select a key from the keybox file and burn it.

4. Multiple loader devices can be connected at the same time, and be burned parallelly

4 Q&A

4.1 Get the Random Key Failed

Reason:All keys in the Keybox file are used up.

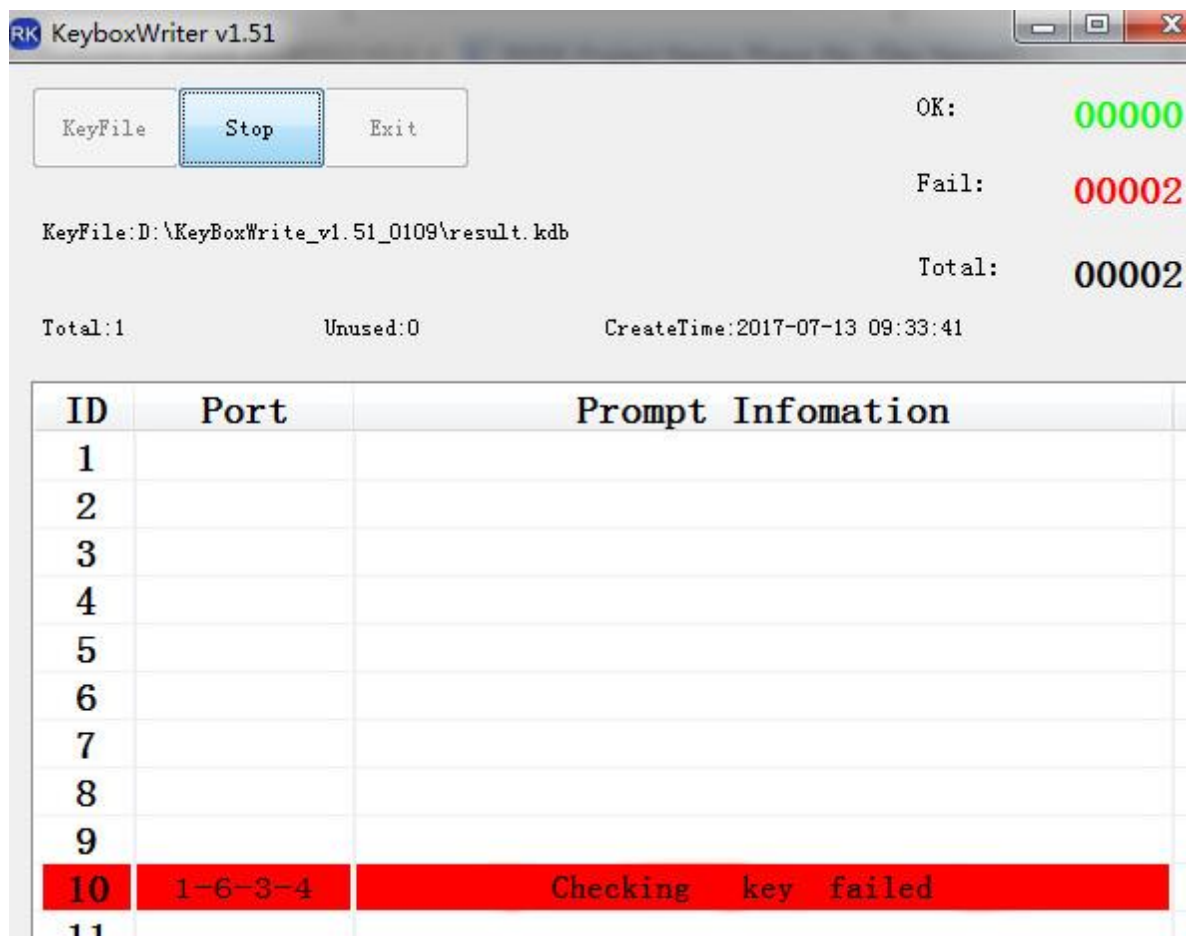## 4.2 Key Exceeds the Allocated Space

Reason:The size of the Key is over 64k.

4.3 Write key to Misc Partition Failed
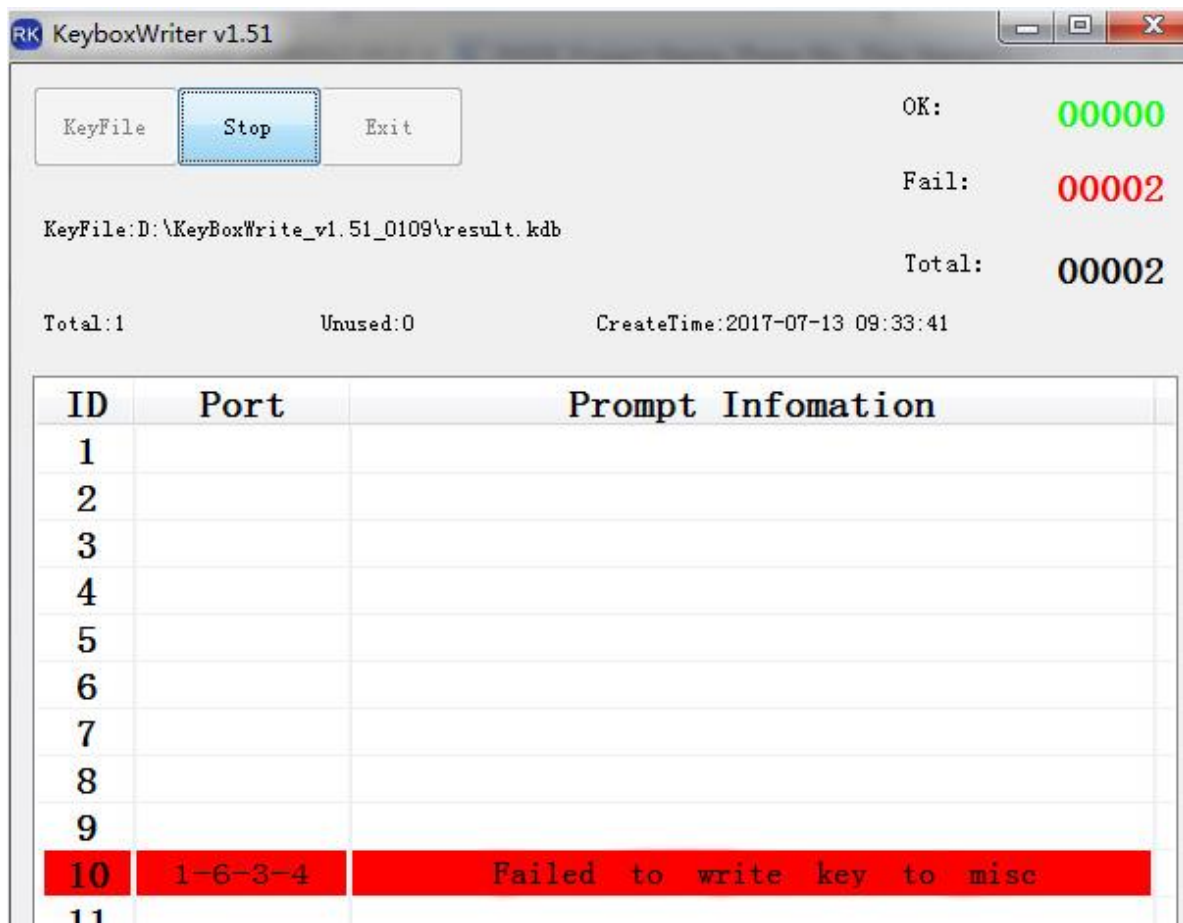
Reason:The device does not answer, check whether the loader supports key burning.

4.4 Verify Key Failed

Reason:Read key data back from the loader device and check key failed, confirm whether the loader of the device supports keybox burning.