RZ/G Verified Linux Package V2.1.3

R01TU0271EJ0102
Rev. 1.02
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Patch application guide

Introduction

This document describes the contents of the “diff” files of RZ/G Verified Linux Package V2.1.3 (hereinafter referred to as “VLP”) and instructions to use them.

Please read the “Release Note” of VLP 2.1.3 carefully before using this document.

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1. Release Items

VLP is delivered by the files listed in **Table 1**. A develop environment of VLP 2.1.1 can be changed to that of VLP 2.1.3 by applying the patch files included in diff files without downloading basic packages.

Table 1. RZ/G Verified Linux Package

Diff files for VLP 2.1.0-RT users

File	Explanation
r01tu0271ej0102-rz-g.pdf	This document
v211-to-v213.patch.tar.gz	Diff files of Yocto recipes compared with VLP 2.1.1
v211-to-v213.oss_packages.7z	Diff files of OSS packages compared with VLP 2.1.1

Basic packages

File	Explanation
rzg_bsp_eva_v213.tar.gz (Evaluation version, 100MB) rzg_bsp_pro_v213.tar.gz (Product version, 102MB)	Yocto recipe packages (including Multimedia package)
oss_pkg.7z.001 (500MB) oss_pkg.7z.006 (500MB) oss_pkg.7z.002 (500MB) oss_pkg.7z.007 (500MB) oss_pkg.7z.003 (500MB) oss_pkg.7z.008 (500MB) oss_pkg.7z.004 (500MB) oss_pkg.7z.009 (500MB) oss_pkg.7z.005 (500MB) oss_pkg.7z.010 (490MB)	Open Source packages (Divided files)

Documents

File	Explanation
r01tu0269ej0102-rz-g.pdf	Release Note
r01tu0270ej0102-rz-g.pdf	Component list

2. Patch Application Guide

This section explains how to prepare a clean environment of VLP v2.1.1 and update it to VLP v2.1.3.

It is recommended to prepare and use a clean new environment, but if the environment prepared with VLP v2.1.1 are being used, it can also be updated with the steps (2) and (4) below. In this case, it is highly recommended to backup whole environment before updating them.

(1) Make working directory (user_work), and decompress Yocto recipe package of v2.1.1

```
$ mkdir ./user_work
$ tar xvzf ./rzg_bsp_type_v211.tar.gz -C ./user_work
```

Please replace "*type*" to "*pro*" or "*eva*". Copy compressed Yocto recipe package files (rzg_bsp_*pro*_v211.tar.gz for product version, rzg_bsp_*eva*_v211.tar.gz for evaluation version) to current directory prior to this step.

(2) Apply patch files to Yocto recipes

```
$ cd user_work
$ tar xvf v211-to-v213.patch.tar.gz
$ patch -p1 < v211-to-v213.patch
```

Copy the compressed patch file to "user_work" directory prior to this step.

(3) Decompress OSS files of v2.1.1 to "build" directory

```
$ mkdir build
$ cd build
$ 7z x ../oss_pkg.7z.001   (*1)
```

Copy compressed Yocto recipe package files (oss_pkg.7z.001 - oss_pkg.7z.012) to "user_work" directory prior to this step. All OSS packages will be decompressed at the step marked "*1". 7ziped files are not able to decompress individually. All oss_pkg.7z files must be placed at a same directory before running 7z command.

(4) Replace OSS files

Remove old files.

```
$ cd user_work/build
$ rm -rf oss_packages/git2/github.com.renesas-rz.renesas-u-boot-cip.git
```

Copy the compressed OSS diff file to "user_work" directory and decompress new files.

```
$ 7z x ../v211-to-v213.oss_packages.7z
```

Note) The directory and the file below are not used anymore and can be deleted (optional).

```
oss_packages/git2/github.com.renesas-rz.renesas-cip.git/
oss_packages/git2/github.com.renesas-rz.renesas-cip.git.done
```

(5) Build new BSP

Now it is ready to build BSP. Please build it according to the Release Note **section 3.1**. Note that the below steps in the section 3 of the Release Note is not necessary. These steps overwrite your environment.

(2) Create the working directory, and decompress Yocto recipe package

(6) Decompress OSS files to “build” directory

Note) The source code of the linux kernel is not included in oss_packages.7z from this release. The step (7) of the building procedure obtains the source code from CIP’s Git repository.

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