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# RZ/G Verified Linux Package V2.1.4-RT

R01TU0271EJ0103

Rev. 1.03

## Patch application guide

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Dec. 23, 2019

### Introduction

This document describes the contents of the “diff” files of RZ/G Verified Linux Package V2.1.4-RT (hereinafter referred to as “VLP”) and instructions to use them.

Please read the “Release Note” of VLP 2.1.4-RT 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 2.1.2-RT can be changed to that of VLP 2.1.4-RT by applying the patch files included in diff files without downloading basic packages.

**Table 1. RZ/G Verified Linux Package**

### Diff files for VLP 2.1.2-RT users

File	Explanation
r01tu0271ej0103-rz-g.pdf	This document
v212rt-to-v214rt.patch.tar.gz	Diff files of Yocto recipes compared with VLP 2.1.2-RT
v212rt-to-v214rt.oss_packages.7z	Diff files of OSS packages compared with VLP 2.1.2-RT

### Basic packages

File	Explanation
rzg_bsp_eva_v214rt.tar.gz (Evaluation version) rzg_bsp_pro_v214rt.tar.gz (Product version)	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 (495MB)	Open Source packages (Divided files)

### Documents

File	Explanation
r01tu0269ej0103-rz-g.pdf	Release Note
r01tu0270ej0103-rz-g.pdf	Component list

## 2. Patch Application Guide

This section explains how to prepare a clean environment of VLP v2.1.2-RT and update it to VLP v2.1.4-RT.

It is recommended to prepare and use a clean new environment, but if the environment prepared with VLP v2.1.2-RT 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 v2.1.2-RT

```
$ mkdir ./user_work
$ tar xvf ./rzg_bsp_type_v212rt.tar.gz -C ./user_work
```

Please replace “*type*” to “*pro*” or “*eva*”. Copy compressed Yocto recipe package files (rzg\_bsp\_*pro*\_v212rt.tar.gz for product version, rzg\_bsp\_*eva*\_v212rt.tar.gz for evaluation version) to current directory prior to this step.

### (2) Apply patch files to Yocto recipes

```
$ cd user_work
$ tar xvf v212rt-to-v214rt.patch.tar.gz
$ patch -p1 < v212rt-to-v214rt.patch
```

Copy the compressed patch file to “user\_work” directory prior to this step.

### (3) Decompress OSS files of v2.1.2-RT 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.010) to “user\_work” directory prior to this step. All OSS packages will be decompressed at the step marked “\*1”. 7zipped 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

Copy the compressed OSS diff file to “build” directory and decompress new files.

```
$ 7z x ../v212rt-to-v214rt.oss_packages.7z
```

Note) The directory below is not used anymore and can be deleted (optional).

oss\_packages/git.anongit.freedesktop.org.git.gstreamer/

**(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 in this release. The step (7) of the building procedure obtains the source code from CIP’s Git repository.

## Website and Support

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