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# RZ/G Verified Linux Package V2.1.8-RT

R01TU0271EJ0107

Rev. 1.07

## Patch Application Guide

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Dec. 24, 2020

### Introduction

This document describes the contents of the “diff” files of RZ/G Verified Linux Package V2.1.8-RT (hereinafter referred to as “VLP v2.1.8-RT”) and instructions to use them.

Please read the “Release Note” of VLP v2.1.8-RT carefully before using this document.

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## 1. Release Items

VLP v2.1.8-RT is delivered by the files listed in **Table 1**. A develop environment of RZ/G Verified Linux Package V2.1.6-RT (hereinafter referred to as “VLP v2.1.6-RT”) can be changed to that of VLP v2.1.8-RT by applying the patch files included in diff files without downloading basic packages.

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

For VLP v2.1.6-RT users

File	Description
r01tu0271ej0107-rz-g.pdf	This document
v216rt-to-v218rt.patch.tar.gz (1.6MB)	Diff files of Yocto recipes compared with VLP v2.1.6-RT
v216rt-to-v218rt.oss_packages.7z (152MB)	Diff files of Open source software packages compared with VLP v2.1.6-RT

### Basic packages

File	Description
rzg_bsp_eva_v218rt.tar.gz (Evaluation version) (100MB)	Yocto recipe packages
rzg_bsp_pro_v218rt.tar.gz (Product version) (101MB)	
oss_pkg_v218rt.7z (4.9GB)	Open source software packages
setup_env_script_v218rt.py (7.6KB)	Script for setting up a build environment

### Documents

File	Explanation
r01tu0269ej0107-rz-g.pdf	Release Note
r01tu0270ej0107-rz-g.pdf	Component list

## 2. Patch Application Guide

This section explains how to prepare a clean environment of VLP v2.1.6-RT and update it to VLP v2.1.8-RT. It is recommended to prepare and use a clean new environment, but if the environment prepared with VLP v2.1.6-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.

**Copy all files obtained from Renesas into your home directory prior to the steps below.**

### (1) Make a working directory (user\_work), and decompress Yocto recipe package of VLP v2.1.6-RT

Run the commands below. Please replace “*type*” to “*pro*” or “*eva*”. Copy compressed Yocto recipe package files (rzg\_bsp\_*pro*\_v216rt.tar.gz for product version, rzg\_bsp\_*eva*\_v216rt.tar.gz for evaluation version) to current directory prior to this step.

```
$ mkdir ~/user_work
$ tar xvzf ~/rzg_bsp_type_v216rt.tar.gz -C ~/user_work
```

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

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

```
$ cd ~/user_work
$ tar xvzf ~/v216rt-to-v218rt.patch.tar.gz
$ patch -p1 < ./v216rt-to-v218rt.patch
```

### (3) Decompress OSS files of VLP v2.1.6-RT to “build” directory

Copy the compressed OSS package files (oss\_pkg\_v216rt.7z.001 - oss\_pkg\_v216rt.7z.010) into the “user\_work” directory prior to these steps. All OSS packages will be decompressed at the step marked (\*1). 7zipped files are not able to decompress individually. All 7z files must be placed at the same directory before running 7z command.

Run the commands below.

```
$ cd ~/user_work
$ mkdir build
$ cd build
$ 7z x ~/oss_pkg_v216rt.7z.001 (*1)
```

### (4) Add OSS files

Remove old files.

```
$ cd ~/user_work/build/oss_packages
$ rm -rf git2/github.com.ystk.debian-busybox.git \
git2/github.com.ystk.debian-openssl.git \
git2/github.com.renesas-rz.renesas-u-boot-cip.git \
git2/anonscm.debian.org.collab-maint.ca-certificates.git \
git2/anonscm.debian.org.collab-maint.ca-certificates.git.done
```

Add new OSS files of VLP v2.1.8-RT. Copy the compressed OSS diff file to “user\_work” directory and decompress new files.

```
$ cd ~/user_work/build
$ 7z x ~/v216rt-to-v218rt.oss_packages.7z
```

### (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 3.1 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`. The step (7) of the building procedure obtains the source code from CIP’s Git repository.

## Website and Support

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