

# Linux Interface Specification Wayland

Release Note: Software

R-Car H3/M3/M3N/E3 Series

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# How to Use This Manual

- **[Readers]**

This manual is intended for engineers who develop products which use the R-Car H3/M3/M3N/E3 processor.

- **[Purpose]**

This manual is intended to give users an understanding of the functions of the R-Car H3/M3/M3N/E3 processor device driver and to serve as a reference for developing hardware and software for systems that use this Renesas Wayland/Weston system.

- **[How to Read This Manual]**

It is assumed that the readers of this manual have general knowledge in the fields of electrical

— engineering, logic circuits, microcontrollers, and Linux.

→ Read this manual in the order of the CONTENTS.

— To understand the functions of a multimedia processor for R-Car H3/M3/M3N/E3

→ See the R-Car H3/M3/M3N/E3 User's Manual.

— To know the electrical specifications of the multimedia processor for R-Car H3/M3/M3N/E3

→ See the R-Car H3/M3/M3N/E3 Data Sheet.

- **[Conventions]**

The following symbols are used in this manual.

Data significance: Higher digits on the left and lower digits on the right

**Note:** Footnote for item marked with Note in the text

**Caution:** Information requiring particular attention

**Remark:** Supplementary information

Numeric representation: Binary ... xxxx, 0bxxxx, or xxxxB

Decimal ... xxxx

Hexadecimal ... 0xxxxx or xxxxH

Data type: Double word ... 64 bits

Word ... 32 bits

Half word ... 16 bits

Byte ... 8 bits

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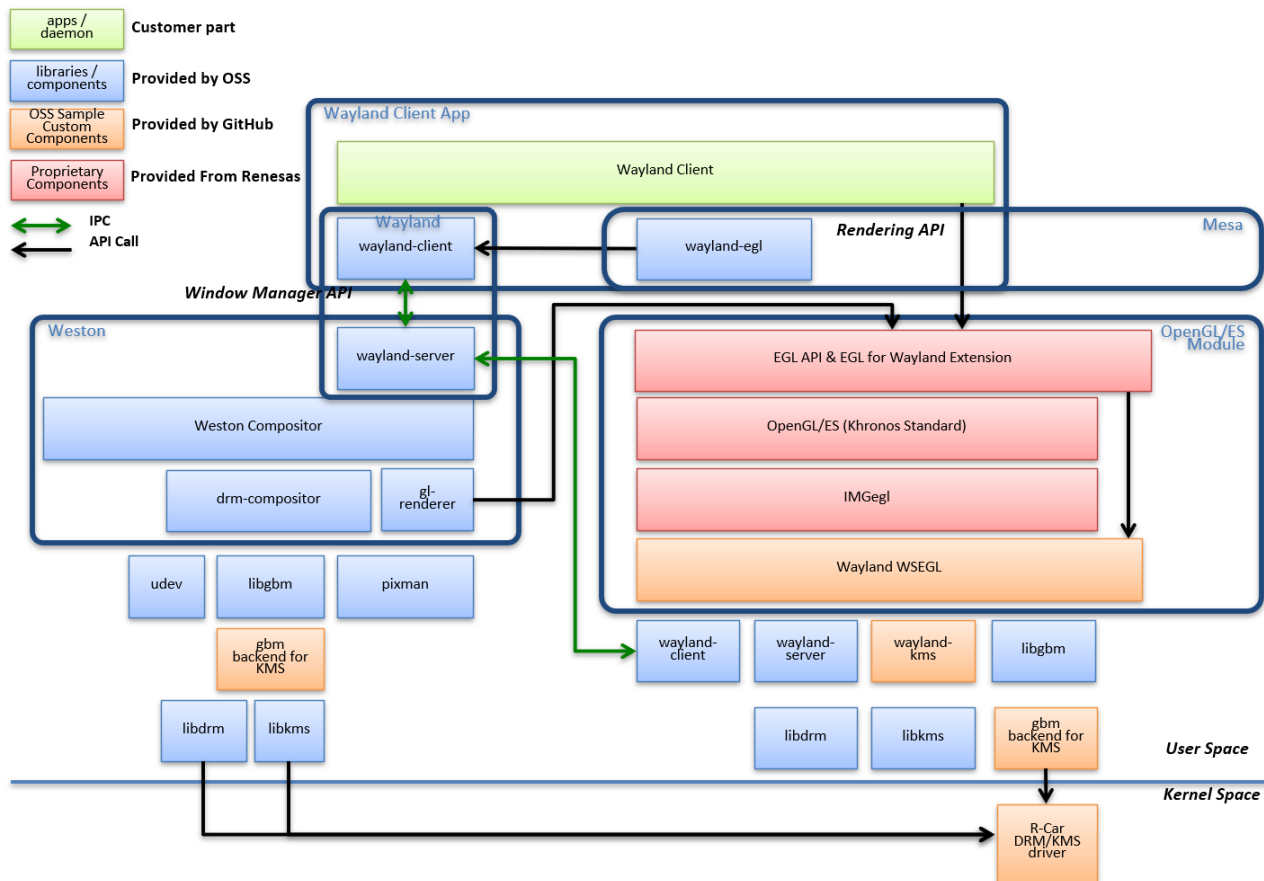
## **1. Overview**

This is a release note for Renesas Wayland Solution of the current release.

This document explains the Renesas providing components for Renesas Wayland Solution and the information of Restrictions.

## 2. Components of Renesas Wayland Solution

Following block figure shows the components which constitute the Renesas Wayland Solution. Yocto System downloads their components and build Renesas Wayland/ Weston environment.



## 2.1 Component List

Following list shows the components which Renesas provides via Github for Renesas Wayland Solution.

No.	Module	Repository	Notes
1	wayland-kms	<a href="https://github.com/renesas-rcar/wayland-kms.git">git://github.com/renesas-rcar/wayland-kms.git</a>	wl_kms for KMS BO
2	libgbm	<a href="https://github.com/renesas-rcar/libgbm.git">git://github.com/renesas-rcar/libgbm.git</a>	libgbm with gbm backend for KMS
3	wayland-wsegl	<a href="https://github.com/renesas-rcar/wayland-wsegl.git">git://github.com/renesas-rcar/wayland-wsegl.git</a>	RGX WSEGL for Wayland

Notes: About drivers of kernel side, please refer to document of Linux Interface Specification Device Driver.

## 2.2 Documentation Related Renesas Wayland/Weston

Please refer to following documentation for more detail of Renesas Wayland/Weston information

No.	Contents	File name
1	Wayland/Weston User's Manual	RENESAS_RCH3M3M3NE3_Wayland_UME_vX.XX.pdf



## **3. Restriction**

The scope of Restriction is the components shown by 2.1 component list. The issues of OSS, OpenGL ES Module and kernel drivers are not included.

### **3.1 Known issues**

None.

### **3.2 Workaround**

None.

### **3.3 Closed issues**

None.

### **3.4 Known functional limitations of delivered functions**

None.

### **3.5 Non-validated function**

None.

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REVISION HISTORY	Linux Interface Specification Wayland Release Note: Software
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Rev.	Date	Description	
		Page	Summary
1.0.0	Oct 26,2015	-	Publication of the first edition
2.0.0	Mar 25, 2016	2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
		3	3.1 Restrictions Delete a resolved restriction.
3.0.0	Apr 15, 2016	2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
4.0.0	May 20.2016	2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
5.0.0	Aug 24.2016	All	Add section of 'Restriction'
5.1.0	Nov 11.2016	All	Wayland version up (v1.9.0 -> v1.11.0)
5.2.0	Nov 25.2016	2	2. Components of Renesas Wayland Solution Delete libmediactl-v4l2 (v4l2-renderer controls V4L2 driver directly).
		2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
6.0.0	Dec 22.2016	2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
		4	3.3 Closed issues Update closed issue information
7.0.0	Feb 15.2017	2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
		4	3.3 Closed issues Update closed issue information
8.0.0	Apr 14.2017	2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
		4	3.3 Closed issues Update closed issue information
1.00	Aug 8.2017	All	Added "CONFIDENTIAL" marks
		2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
		4	3.3 Closed issues Update closed issue information

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Rev.	Date	Description	
		Page	Summary
1.01	Sep 13.2017	2	2.2 Documentation Related Renesas Wayland/Weston Update the version of Wayland/Weston User's Manual.
		4	3.3 Closed issues Update closed issue information
1.05	Nov 7.2017	All	Wayland version up (v1.11.0 -> v1.13.0), Weston version up (v1.11.0 -> 2.0.0)
		All	Add R-Car M3N support.
1.10	Dec 22.2017	All	Correction of Typo
1.2.0	Feb 22, 2018	All	Add R-Car E3 support.
1.3.0	Jun 11, 2018	4	3.1 Known issues Update known issue information
1.4.0	Oct 12, 2018	4	3.3 Closed issues Update closed issue information
2.0.0	Oct 30, 2018	All	Correction of Typo
3.0.0	Apr 06, 2021	All	Wayland version up (v1.13.0 -> v1.18.0), Weston version up (v2.0.0 -> 8.0.0)
3.1	Aug 16, 2021	2, 3	2 Components of Renesas Wayland Solution Update wayland-wsegl to be OSS and update the note for wayland-kms.
3.1.1	Nov 02, 2021	All	Update the version of Wayland/Weston User's Manual.

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