# [Upgrade to Version] Solution Toolkit Al Navigator V2.0.0: IDE for Al Applications

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# Outline

Al Navigator, an IDE for Al applications, has been updated from V1.3.0 to V2.0.0.

### 1. Applicable Product

V1.3.0 of AI Navigator, an IDE for AI applications

#### 2. Description

The main changes are as follows.

For details of the product and methods of installation, refer to the release note at the link below.

Al Navigator V2.0.0 Release Note
 <u>https://www.renesas.com/document/rln/ai-navigator-v200-release-note</u>

#### 2.1 New features

• Support for the RA8P1 Group

As the first device group of the RA Family including an AI accelerator, RA8P1 devices incorporate ARM<sup>®</sup> Ethos ™-U55.

For the execution of AI inference processing, RA8P1 devices are used with the RUHMI Framework\*1.

Sample AI applications

You can easily start development by selecting an AI application from AI Application Zoo and downloading an  $e^2$  studio project. You can instantly try an AI application (face detection or image classification) which is available with this device.

User projects

You can develop AI applications in e<sup>2</sup> studio with user projects that include desired AI models.

Al Navi		Al Navi	
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Al App Select	AI Navigator	AI App Select	AI Navigator
Run on the Board	Learn more	Run on the Board	Learn more
	Create New Al with		Create New Al with
	Select Sample Application Switch Al-Application Switch Al-Applicat		Select Sample Al Application Baket Al Application Select A Application Convert Convert Baket B
RENESAS		RENESAS	
	Left: Selecting a sample AI application		mplo Al Application")

Figure 1 Main View of Al Navigator



### Al model conversion

Convert the AI model into code that can be executed by the MCU's on-board AI accelerator. The code thus converted can be embedded in the application.

For RA8P1 devices, individual functions are available in a Windows 10 or Windows 11 environment.

- Support for RZ/V AI Application v5.20
  Four applications for RZ/V2N and RZ/V2H devices have been added, so the total number of applications for those devices is now 55.
- 2.2 Addition of supported devices

RA Family: RA8P1 Group

3. Installing and Using AI Navigator

Read the AI Navigator Quick Start Guide at the link below to learn how to install and use AI Navigator.

- RZ/V: https://renesas-rz.github.io/rzv\_ai\_sdk/latest/ainavi\_quick\_start\_guide (GitHub)
- RA8P1: <u>Renesas RUHMI Framework<sup>\*1</sup> Quick Start Guide</u>

<sup>\*1</sup> powered by EdgeCortix<sup>®</sup> MERA<sup>™</sup> 2.0



# **Revision History**

		Description	
Rev.	Date	Page	Summary
1.00	Jul.05.25	-	First edition issued

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