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Solution Toolkit
AI Navigator V2.0.0: IDE for AI Applications

Outline

AI Navigator, an IDE for AI 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.

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

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® 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^2 studio with user projects that include desired AI models.

Left: Selecting a sample AI application ("Select Sample AI Application")
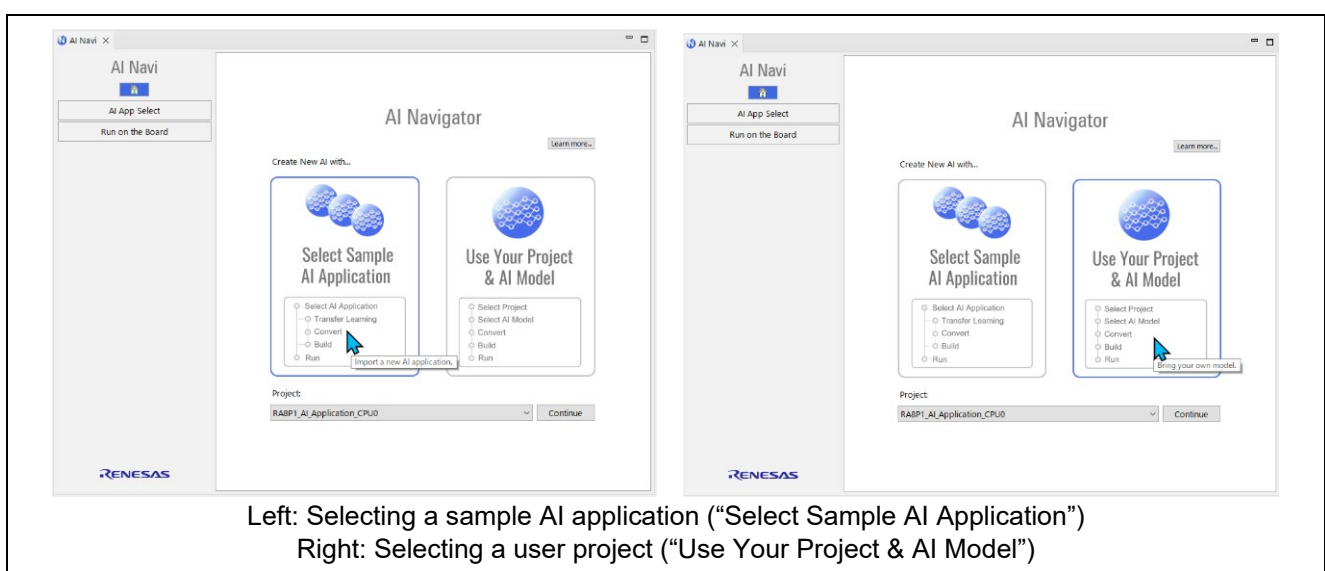Right: Selecting a user project ("Use Your Project & AI Model")

Figure 1   Main View of AI Navigator

> ➢ AI 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: Renesas RUHMI Framework[1] Quick Start Guide

[1] powered by EdgeCortix® MERA™ 2.0

Revision History

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

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