

RISC-V Days Tokyo 2022 Spring

Online Pavilion Guide

RISC-V Alliance Japan

<https://riscv.or.jp/>

Contact: yasuyuki.saito@riscv.or.jp

1. What is a Pavilion?

The Online Pavilion (Virtual Demo Booth) is a place where demonstrations are shown to the public via live streaming. It is a great opportunity for attendees to ask questions and interact directly with the demonstrators, and to receive explanations about the technology in depth. **The delivery of the Pavilion itself will be provided by the sponsor company itself. Please use a video conferencing service you are familiar with, such as Zoom.** At RISC-V Days Tokyo, we will prepare a demo introduction page that summarizes the contents of each Pavilion for attendees. The Pavilion will also be introduced during the talk sessions and at the press conference. From the demo description page, attendees will be able to connect to the live demo the sponsor has prepared, as well as download the demo description PDF and watch the demo movie. In addition, a "private message" feature will be provided to allow attendees to send individual questions privately to the demonstrator.

2. Online Pavilion Scheduling

Connection Test

Please confirm the connection test of the live demo by the organizer.

Date	Item	Scheduling Method
~ May 20th	Live demo deadline # 3 items	—
~ May 27th	Live demo Connection Test	—
Jun 1st ~ Jun 2nd	The day of the event	—

Items to Submit

Deadline	Items	Submission Method
Apr 29 (Fri) Deadline #1	Demo Title Demonstrator Name, Affiliation, Position, email address (English/Japanese)	Please fill the form shared as a shared-editable document

May 13 (Fri) Deadline #2	Introduction to the company or organization 50 words in English 200 characters in Japanese	
	Demonstrator Biography 50 words in English 200 characters in Japanese	
	Demonstrator's photo (square)	
	Speaker contact information	
May 20 (Fri) Deadline #3	Description Image for the Demo Web Portal	
	Description of the Demo 100 words in English 400 characters in Japanese	
	Demonstration Time (例: Apr xx 10:00~16:00)	
	Email Address for receiving private messages	
	URL to the Live Demo (assumes use of Zoom or other video-conf system)	
	URL to promotional demo introduction video (a URL to Youtube, etc.)	
	Promotional Demo Introduction PDF (a URL to the PDF is acceptable)	

3. Details on Online Pavilion

The Pavilion will be distributed to the public free of charge and advertised in advance. To promote commercial activities of RISC-V during the blockade period, individual conversation with potential customers, which were an important part of the physical conference, will be available online. RISC-V Day provides a portal site for online demonstration Pavilion to attract and guide visitors to the video conference where the demonstration will be held. RISC-V Day will provide a portal site for the online I demo Pavilion to attract and guide visitors to the video conference where the demo will be held. The online demo Pavilion provides two opportunities: a public show and an open Q&A opportunity. The other is a chance to have a private conversation with potential customers. An online demo Pavilion portal will be created by the organizer, and the management of the demo and demo Pavilion will be left up to each company. To see how the online demo Pavilion portal looks and behaves in a simulated way, please visit Day Tokyo 2021 Autumn Online Pavilion portal page:

Japanese

<https://riscv.or.jp/risc-v-days-tokyo-2021-autumn/#VDB>

<https://riscv.or.jp/risc-v-days-tokyo-2021-autumn/online-pavilion/#SHC>

English

<https://riscv.or.jp/en/risc-v-days-tokyo-2021-autumn-en/#VDB>

<https://riscv.or.jp/en/risc-v-days-tokyo-2021-autumn-en/online-pavilion/#SHC>

(please note that there is a possibility of slight changes in the design).

The online demo Pavilion portal includes:

- (1) a demo title at the top
- (2) a brief image showing an overview of the demo, such as a block diagram
- (3) a demo description
- (4) a "Live Demo" button that takes attendees to the sponsor's webinar window, and
- (5) a "Demo PDF" button that allows attendees to download the sponsor's PDF document explaining the demo
- (6) "Private Talk" button that allows attendees to send a private email to the RISC-V product supplier.

For more details, please refer to the following sample image and the system diagram:

SHC RISC-V Demo: Securely Connect Andes N22 RISC-V to Amazon AWS IoT Cloud with Root of Trust Chip

Secure Element
ATECC608A Trust Development Board

Corvette F1 Board

AWS IoT Core

RISC-V

FreeRTOS

Controlled devices
On-board LED

Android App

Actions:
[Demo PDF](#)
[Demo Video](#)
[Go the Demo](#)

Callout 1:
 • Download of the demo reference PDF
 • Playback of the demo movie
 • Join the demo via a live streaming

Callout 2:
 Send a private message to the presenter

Booth Information:
Booth Opens:
 November 5th-6th
 2pm-4pm
Booth Attendant:
 Hoan Huynh
 SH Consulting
 Vietnam
[Contact SH Consulting](#)

Description:
 This demo shows a Secure IoT solution using a Corvette-F1 board, evaluation kit with full support for the 32-bit AndesCore N25 and the AndeShape AE250 Platform, runs Amazon FreeRTOS, which is an open source operating system for microcontrollers from Amazon Web Services (AWS). It uses an ESP32-WROOM board as an external Wi-fi module. ATECC608A-MAHDA chip is integrated such as Trusted Platform Module (TPM) to provide hardware-based endpoint device security. This integration ensures the private key used to establish device identity can be securely stored in tamper-proof hardware devices to prevent it from being taken out of the devices for impersonation and other malicious activities.
 In IoT solution deployments, it is important to check the identity of the device that is communicating with the messaging gateway. For the first time running demo, TPM will generate key pairs for the devices, which are then used to authenticate and encrypt the traffic. The keys are generated inside the TPM itself and are the... programs. In fact, even without harnessing the... boot, the TPM is also valuable just as a hardware key... are and offer far better protection than a software key. This... interface to the TPM.
 Also... FreeRTOS MQTT library to connect to the AWS Cloud and... publish messages to an MQTT topic hosted by the AWS IoT MQTT broker. A specific... Android application developed by SHC also uses this topic to communicate with Corvette-F1 board to control its on-board LEDs.

Fig. 1 An Example of Online Demo Pavilion Portal Page

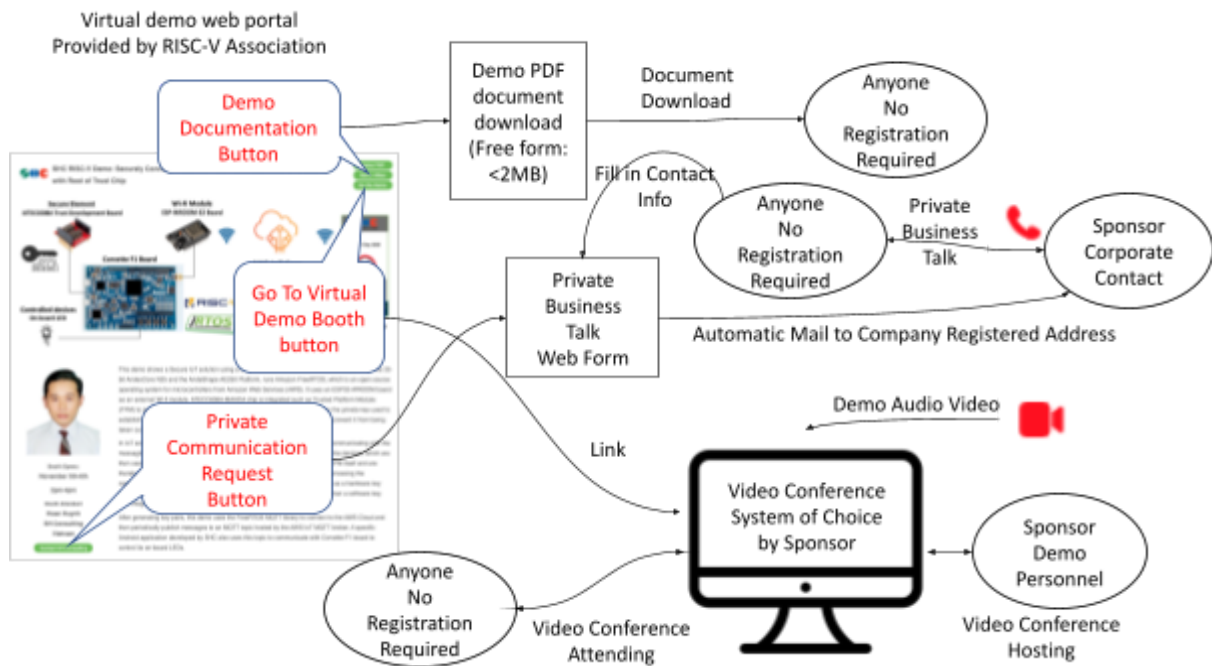


Fig. 2 Virtual Demo Pavilion System Diagram

Please refer to the Sponsor Guide for information on how to submit the information to put on the page and deadlines. We ask for your cooperation in meeting the deadlines for the submission to ensure the smooth running of the conference.

Thank you for your contribution to RISC-V Days Tokyo.

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