



## **RISC-V Days Tokyo 2022 Autumn**

### **Prospectus**

**RISC-V Alliance Japan**

**Title : RISC-V Days Tokyo 2022 Autumn Conference, RISC-V Pavilion**

**Date : Nov. 16 (Wed.) – 18 (Fri.), 2022**

**Venue : EdgeTech+ 2022 at PACIFICO YOKOHAMA Exhibition Hall (1F, 2F Meeting Room)**

**Organizer : RISC-V Alliance Japan**

**Event Planning and Promotion : SH CONSULTING K.K.**

**Supporter : Japan Embedded Systems Technology Association (JASA)**

**EdgeTech+ 2022 : Held at the same time**

### **1. RISC-V Days Tokyo Features**

RISC-V Days Tokyo is Japan's largest live online RISC-V event, featuring presentations, virtual demo booths, and an online press conference. RISC-V Days Tokyo aims to bring together leading RISC-V technologies and products, key persons and engineers, and to provide business opportunities for product recognition, collaboration among companies, technology exchange and information gathering. Last year's Day Tokyo 2020 attracted a total of 1,053 participants from 11 countries (Japan, Sweden, the United States, Taiwan, France, China, Russia, the United Kingdom, Switzerland, Vietnam, and Denmark).

In 2022, we plan to have an hybrid event, with presentations on the first and second day at the physical venue with online broadcasting, and the third days online (the physical venue may be affected by the social situation of the COVID-19).

## 2. Dates and Time

- November 9 (Wed) 15:00~17:00 Press Conference RISC-V Alliance Japan**
- Day 1 : November 16 (Wed) 10:30 ~ 17:00 JST (Japan Standard Time·UTC+9)**  
**at Pacifico Yokohama (within the EdgeTech+ Exhibition)**  
**with live broadcasting**
- Day 2 : November 17 (Thu) 10:30 ~ 17:00 JST (Japan Standard Time·UTC+9)**  
**at Pacifico Yokohama (within the EdgeTech+ Exhibition)**  
**with live broadcasting**
- Day 3 : November 18 (Fri) 10:30 ~ 17:00 JST (Japan Standard Time·UTC+9)**  
**Online live broadcasting**

### Related Websites

- Registration: <https://peatix.com/event/3282226/view> ( peatix.com )
- Website: ( <https://riscv.or.jp> )
- Provisional program in  
 English: <http://riscv.or.jp/en/risc-v-days-tokyo-2022-autumn-en/>  
 Japanese: <http://riscv.or.jp/risc-v-days-tokyo-2022-autumn/>
- Facebook: <https://www.facebook.com/riscv.a/>
- Twitter: [https://twitter.com/riscv\\_a](https://twitter.com/riscv_a)
- Meetup: TBD ( <https://www.meetup.com/ja-JP/RISC-V-Group-Tokyo/> )

## 3. Contents of the Event

The event will be held over three days -- Day 1 and Day 2 from physical venues within the EdgeTech+ 2022 exhibition with its live broadcast, online presentations on Days 3, and demo booths within the EdgeTech+ 2022 exhibition by sponsors over the three days. The press conference will be held in the EdgeTech+ 2022 exhibition hall on the first day. Sponsor companies will be provided with the following exposure opportunities:

- **Presentations and Talk Slots (corporate sessions, Day 1 and Day 2 within the EdgeTech+ exhibition at PACIFICO Yokohama)**
- **Discount Tickets for Day 1 and Day 2 at In-Person Event at PACIFICO Yokohama**
- **Online Presentations and Talk Slots (corporate sessions, Day3)**
- **RISC-V Pavillion Physical Booth**
- **Online RISC-V Pavilion**
- **Press Conference by RISC-V Alliance Japan**

### 3.1 Presentations at PACIFICO Yokohama

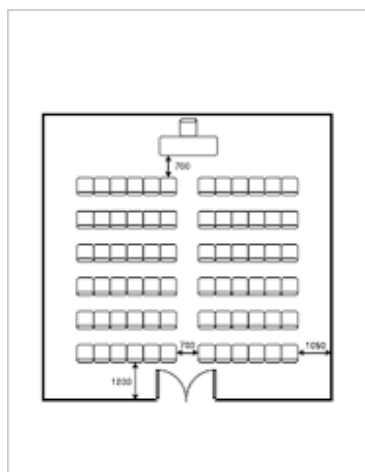
#### Days November 16th and November 17th ( Day1 and Day2 )

Venue: PACIFICO Yokohama, Theater-style seating for **72 max**. All presenters, registrants, and staff will be required to present their COVID-19 vaccination certificates. In case it is not possible to hold the conference at the venue due to COVID-19 and other unavoidable circumstances, we will switch to remote online presentation.

Contingency provision terms Covid-19.

#### 3.1.1 In-Person Presentations

##### Days November 16 and 17 ( Day1 and Day2 )



Based on the type of sponsorship, a talk slot will be offered for a delivery in person. The presenters are introduced by our MC who speaks of hers or his biographical sketches presented, title of presentation and if the presenter desires a short explanation of what the presentation is all about. Our station connects the speaker to the broadcasting system through a standard browser and sends images and audio. Vimeo's live streaming service, which is known for its high quality delivery, is used for live broadcasting of the event, together with its professional-grade broadcasting studio software. To ensure the smooth running of the program, we plan to have two moderators, two operators, two staff members to handle questions from the audience, and three staff members to monitor the live quality.

Exhibition Hall 2F Meeting Room at PACIFICO Yokohama

Meeting Room E25 88 m<sup>2</sup> , max. 72 seats (Theater )

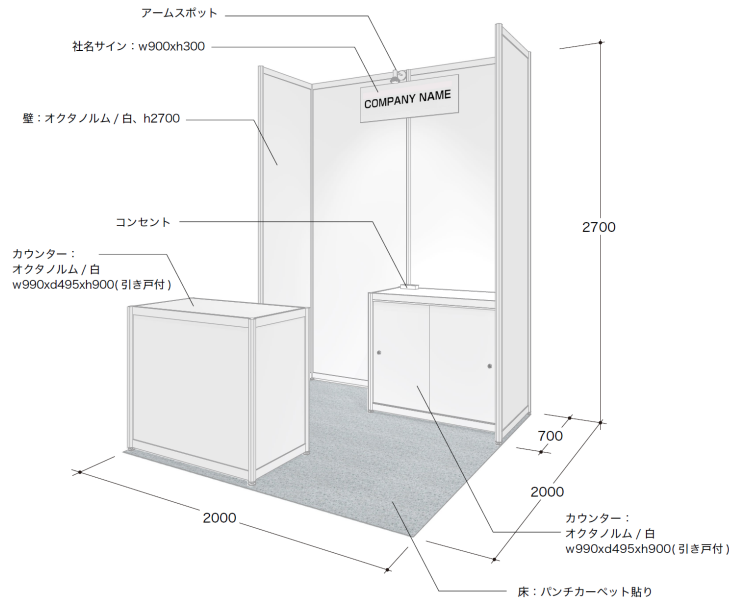
### 3.2 Remote Presentations

#### Days November 18 ( Day3 )

Based on the type of sponsorship, a talk slot will be offered for a delivery from remote. Our host connects the speaker to the broadcasting system through a standard browser and sends images and audio. Vimeo's live streaming service, which is known for its high quality delivery, is used for live broadcasting, together with its professional-grade broadcasting studio software. To ensure the smooth running of the program, we plan to have two moderators, two operators, two staff members to handle questions from the audience, and three staff members to monitor the live quality.

### 3.3. Product Exhibits Opportunities

#### 3.3.1 In-Person RISC-V Pavilion within EdgeTech+ 2022 Exhibition Floor



Booth with open stage

Exhibition space 1 booth (2m x 2m = 4m<sup>2</sup>)

Side Panel

Back Panel

Company Signage (Black Letters, Gothic Font)

Demo Space (W: 990mm x D: 495mm x H: 900mm x 2)

Power supply work (2 ports take year and (100V / 500W) x 1 place)

\* Including electricity usage

1 spotlight with arm

Punch carpet

\* )The store opening fee includes the fee for the package booth with a unified design. Special decorations cannot be made separately.

\* )Rental equipment, MIC, internet access for video equipment, etc. will be provided as a paid option.

Discount Customer Tickets for Day 1 and Day 2 at PACIFICO Yokohama : 6 peoples/day

#### 3.3.2 Online RISC-V Pavilion

We will provide the Online RISC-V Pavilion as a paid option (the virtual booth in web page information posting, company online conference) format posted at RISC-V Days 2020 Tokyo Spring in April 2020.

### 3.4 Press Conferences

Day and time: 12:00 - 13:00 on November 9, 2022

Press Conference by RISC-V Alliance Japan where Sponsor Program summary is presented by RISC-V Alliance Japan.

#### 4. Sponsorship Types and Attendee Registration Fees

##### Sponsor Contact

Yasuyuki Saito Email: yasuyuki.saito@riscv.or.jp Phone: +81-3-3833-3717

Organizer : RISC-V Alliance Japan

Event Planning and Promotion : SH CONSULTING K.K.

Supporter : Japan Embedded Systems Technology Association (JASA)

EdgeTech+ 2022 : Held at the same time

##### Sponsorship Types

RISC-V Day Tokyo 2022 Autumn 11/16-19 Sponsorship (in U.S. Dollars)		
Sponsorship Types	Talk Time	Cost
Platinum	30 minutes	\$5,000
Silver	20 minutes	\$3,500
<b>Additional Option</b>		
RISC-V Pavilion within the EdgeTech+ 2022 Exhibition	3 days	\$3,500
Online RISC-V Pavilion	3 days + 18 months	\$500

##### Attendee Registration Fees

RISC-V Day Tokyo 2021 Autumn 11/16,17 within EdgeTech+ exhibition Registration Fees	
Type of Tickets	Registration Fee
Day 1 11/16 conference within EdgeTech+ exhibition	TBD
Day 2 11/17 conference within EdgeTech+ exhibition	TBD
RISC-V Day Tokyo 2021 Autumn 11/16-18 Online Participation Registration Fees	
Online Participation 11/16-18	TBD
Registration URL: <a href="https://peatix.com/event/3282226/view">https://peatix.com/event/3282226/view</a> ( <a href="https://peatix.com/">https://peatix.com/</a> )	

## 5. Details of Sponsorship

### Participant List Sharing

Platinum and Silver sponsors will be provided with a list of participants. However, in order to comply with the European GDPR, participants will be notified in advance that the list will be shared with Platinum and Silver sponsors, and participants may opt out of this sharing. We also ask that you keep the list of participants for your own internal use and do not share it with third parties.

### Platinum Sponsorship

1. Post the logo and company introduction on the web and press announcements
2. 30 minutes live talk delivery via VimeoLive
3. Presentation Q&A: Use Twitter and Slack
4. Share participant list
5. Maintain website for at least 18 months
6. Put the session video on Youtube and put the link on the web
7. Customer Ticket Discount (100%) for so many numbers: 12 peoples/day

### Silver Sponsorship

1. Post the logo and company introduction on the web and press announcements
2. 20 minutes live talk delivery via VimeoLive
3. Presentation Q&A: Use Twitter and Slack
4. Share participant list
5. Maintain website for at least 18 months
6. Put the session video on Youtube and put the link on the web
7. Customer Ticket Discount (100%) for so many numbers: 6 peoples/day

## 6. Details on How To Conduct the Event

### 6.1 In-Person Presentation at the Venue

On these days, presentations will be held in the physical room of the EdgeTech+ exhibition, and the content will be broadcasted online at the same time.

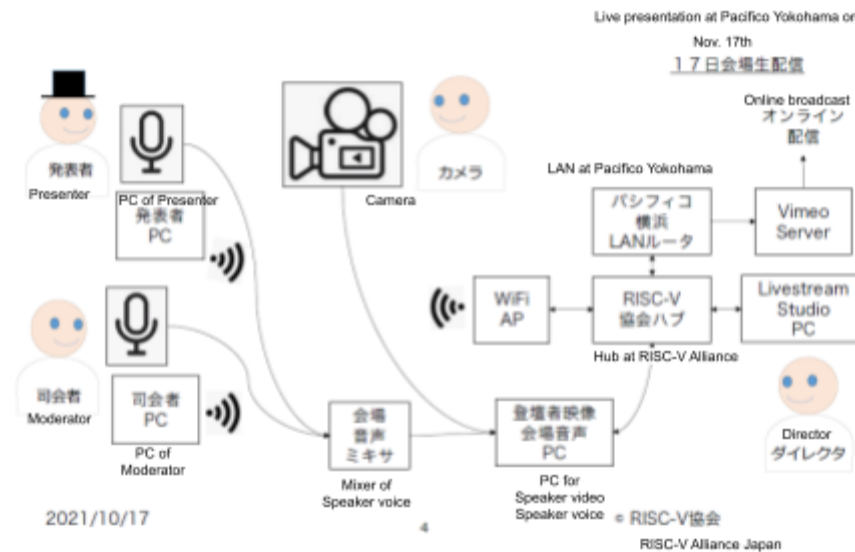


Fig.1.1 Online Live Operation Diagram

## 6.2 Online Presentation

According to feedback from RISC-V International corporate members who are already doing online conferences, physical conferences (meetings and sessions in real conference rooms and venues) can be expected to be successful because of the presenter's and audiences' direct interactions, but online conferences require more specificity in the content and the usefulness of the content information. Usefulness of the content information is essential. Questions about the presentation can be asked via Slack and Twitter, with a Hashtag assigned to each talk. Alternatively, the speaker can set up a Twitter account and ask questions to that account via @.

1. Live streaming using Vimeo Live (scale: 1,000 people)
2. For each presentation, we will provide a moderator, on-screen voice control, and a live Q&A monitoring staff.
3. We arbitrate questions from the audiences.
4. The moderator will invite the presenter as a guest and will facilitate the introduction, presentation and Q&A.

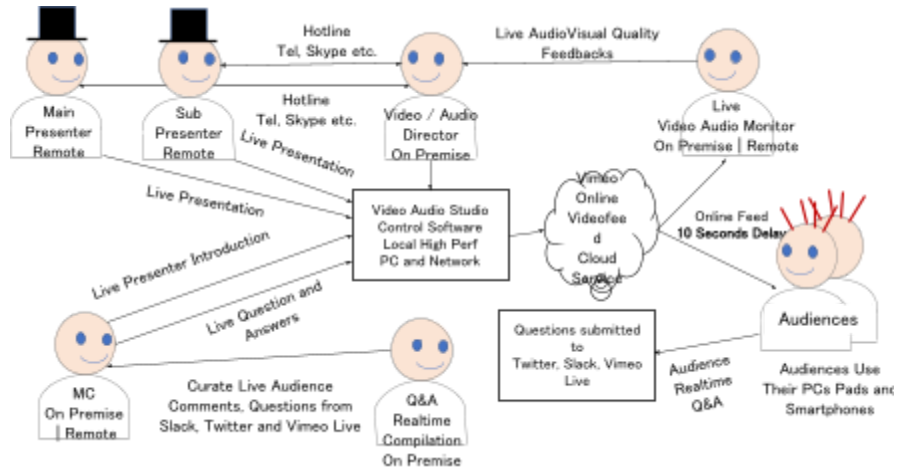


Fig.1.2 Online Live Operation Diagram



Fig. 2 Online Studio Views (RISC-V Days Tokyo 2020 11/5-6)

### 6.3 Booth at the venue (Pacifico Yokohama)

See Above



## 6.4 Online RISC-V Pavilion (Virtual Demo Booth)

### Online RISC-V Pavilion

We will provide the Online RISC-V Pavilion as a paid option (the virtual booth in web page information posting, company online conference) format posted at RISC-V Day 2020 Tokyo Spring.

The Online RISC-V 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 conversations with potential customers, which were an important part of the physical conference, will be available online. RISC-V Day provides a portal site for virtual demonstration booths 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 virtual demo booth to attract and guide visitors to the video conference where the demo will be held. The virtual demo booth 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. Online RISC-V Pavilion portal will be created by the organizer, and the management of the demo and demo booth will be left up to each company. To see how the Online RISC-V Pavilion portal looks and behaves in a simulated way, please visit Day Tokyo 2020 virtual demo booth portal page:

<https://riscv.or.jp/en/riscv-day-tokyo-2020-en/virtual-booths-details/#SHC> (please note that there is a possibility of slight changes in the design).

The Online RISC-V 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.

**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
- Android App
- Controlled devices: On-board LED

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

- Download of the demo reference PDF
- Playback of the demo movie
- Join the demo via a live streaming

**Send a private message to the presenter**

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

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 only keys used in the demo programs. In fact, even without harnessing the TPM, the TPM is also valuable just as a hardware key. The TPM provides a secure interface to the TPM.

The demo uses the FreeRTOS MQTT library to connect to the AWS Cloud and the demo application publishes 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. 3 An Example of Online RISC-V Pavilion PortalPage

## 7. Background Information

### RISC-V Days Tokyo 2021 Autumn Sponsor Companies and Organizations



### Attendee Fee History

Attendee Registration Fee per Person			
Year	Place	Attendees	Cost
2017 Tokyo	Ito Hall, Central Tokyo	218	4,500 JPY
2018 Tokyo	Fujiwara Hall, Kanagawa	180	4,000 JPY
2018 Fukuoka	IEEE, Westin Hotel, Fukuoka	140	IEEE Fee
2019 Tokyo	Hitachi Baba Hall	360 (sold out)	4,000 JPY
2020 Vietnam	Online	140	100,000 Dong
2020 Tokyo	Online	1,053	Free
2021 Tokyo Autumn	Hybrid	50 + 1,500	1,500 JPY + Free
RISC-V Day Vietnam 2022	Online	120	Free
2022 Tokyo Spring	Online	1500	Free

## RISC-V Conference Publication History

RISC-V Related Conference Collaterals RISC-V Tokyo			
Year	Translated Materials	Author	Price
2018 Tokyo	RISC-V Reader Japanese Translation (distributed free for paid attendee)	Waterman, Patterson	3,240 JPY
2019 Tokyo	Quantitative Approach RISC-V Version Japanese Translation (70 copies sold out at conference)	Hennessey Patterson	8,000 JPY
2020 Vietnam	Digital Design with Chisel English Edition PDF distribution via Web・Related Talk in the conference	Martin Schoeberl	Free
2020 Tokyo Autumn	Digital Design with Chisel PDF distribution via Web	Martin Schoeberl	Free
2021 Tokyo Autumn	Digital Design with Chisel Publication in Book	Martin Schoeberl	Free
2022 TBD	TBD	TBD	TBD



## RISC-V Days Past Results

RISC-V Days is an opportunity for RISC-V suppliers to promote their technologies and present their RISC-V research. The purpose of RISC-V Days Tokyo is to bring together excellent technologies and products related to RISC-V, as well as key persons and engineers.

RISC-V Days Tokyo was held at the Itoh Gratitude Hall of the University of Tokyo at the request of RISC-V International (then RISC-V Foundation) in 2017, at the Hiroshi Fujiwara Memorial Hall in Hiyoshi, Keio University and IEEE Fukuoka in 2018, and at the Hitachi Baba Memorial Hall in Hitachi, Ltd. The 2020 conference was the first to be held online, with a total of 1,053 participants from 11 countries attending the two-day event.

### **RISC-V Days 2021 Priorities**

In just five years since 2014, RISC-V has been adopted in several 5G mobile baseband chips, conquered wearables in Taiwan, Korea, and China, and is making inroads into the automotive, server, and HPC fields. The theme of the 2021 RISC-V Days is "RISC-V in 5G Mobile, Wearable, Automotive and Server HPC -- Expanding Research Areas and Applications in the Post-5G Era." APAC engineers who promote RISC-V will contribute to RISC-V locally. In Year 2021, we will continue to hold conferences in cooperation with a local engineering organization in Vietnam, incorporating new approaches.

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