Daitron

INTREPID CONTROL SYSTEMS www.intrepidcs.com

MICROCHIP

KEYSIGHT

FREE HANDS-ON WORKSHOP

【無料ワークショップ開催のお知らせ】
皆様のご参加を心よりお待ちしております。
※本ワークショップは英語で実施いたします。

10BASE-T1Sと**MACsec**に焦点を当てた無料のハンズオンワークショップを開催いたします。10BASE-T1S、MACsecのユースケースと統合、キープロテクションメカニズム、テストソリューションについて解説します。ハンズオンラボではMicrochip、Intrepid、Keysightのデバイスを使用します。

【開催情報】

2026年7月30日(木)
10:00 -17:30

ダイトロン本社 6F
〒532-0003 大阪府大阪市淀川区宮原4丁目6-11

speakers

John Simon Intrepid Control Systems
John holds an MS in Electrical Engineering from the University of Pittsburgh and has been in the Automotive industry for over 30 years focusing on product development. He started his career at GM/Delphi where he worked in Body/Security, Driver Information, and Infotainment holding roles in product development, resident engineering, sales, and leadership. As a subject matter expert in Body Electronics, he has helped launch over a dozen platforms for OEMs and frequently played a role in Vehicle Architecture development. John is currently the Automotive Ethernet Product & Applications Manager at Intrepid Control Systems where he co-authored the second edition of “Automotive Ethernet: The Definitive Guide”. He is also an active participant in the OPEN Alliance and IEEE Standards Association.

William Stuart Microchip Technology
William Stuart is a Technical Staff Applications Engineer for Microchip Technology’s Automotive Products Group in Novi, Michigan. He received his Bachelor of Science in Computer Engineering (BSCE) from Kettering University (formerly GMI) in 2000. He has more than twenty-five years of experience in embedded systems design, specializing in firmware control algorithms and automotive communication protocols, including CAN, LIN, Ethernet, and ASA-ML. In recent years, William has increased his focus on security, with an emphasis on secure communications.

Todd Slack Microchip Technology
Todd has a Bachelor of Science degree in electrical engineering and has 30 years of experience in the semiconductor industry. During the past 20 years, he has been focused on driving leading-edge technologies and new features into hardware-based cryptographic security solutions to counter emerging security threats. He also has extensive experience in working with automotive OEMs and Tier 1 suppliers to develop and review cybersecurity specifications.

Tanuman Bhaduri Keysight Technologies CSG Wireline NTS, Product Management, Product Manager
Tanuman is working with Keysight Technologies as a Product Manager focused on AVB and TSN technologies. Tanuman holds a Master of Science degree from University of Kolkata. Tanuman is associated with Network Test industry for over 15 years and holds multiple patents on Network Verification & Validation strategies. Tanuman is based out of Keysight’s R&D Center in Kolkata, India.

Martin Gubow Keysight Technologies CSG Wireline NTS, Product Management, TSN Program Manager
Martin holds a Bachelor of Science Degree in Electrical Engineering from Lawrence Institute of Technology and a Master of Science in Engineering Science from Rensselaer Polytechnic Institute. He is currently the TSN Program Manager with the Network Test segment and is responsible for the strategy of Keysight's TSN products. He is a solution expert in high-speed digital technologies and has worked with customers on a variety of applications. Marty is an active member and participant in IEEE 802.3 and Avnu Alliance standards bodies.

Registration

申込期間：2026年4月30日(木)～7月3日(金) 18:00迄
申込人数：先着30名様
申込方法：下記URL又は右記QRコードより
https://forms.office.com/r/SCLKZTdXyX

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Agenda

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9:30 受付開始

10:00 概要説明

10:15 10BASE-T1Sとは？
John Simon - Intrepid Control Systems
・なぜ10BASE-T1Sが必要なのか？
・10BASE-T1Sの仕組みは？

11:00 10BASE-T1S – ハンズオンラボ
・10BASE-T1S セットアップと設定
・10BASE-T1S ツール：物理層とPLCAデバッグ

11:45 休憩

12:00 10BASE-T1S 物理層テスト
中山仁志 - キーサイト・テクノロジー株式会社
※日本語での講演となります

12:15 プロトコルデコード – ハンズオンラボ

12:30 MACsecとは
William Stuart - Microchip Technology

13:00 昼食(提供)

14:00 MACsec静的キー - ハンズオンラボ

14:45 MACsec MKA

15:30 10BASE-T1SおよびMACsecのテスト課題
Tanuman Bhaduri / Martin Gubow
- Keysight Technologies

16:00 休憩

16:15 MACsec/10BASE-T1Sテストハンズオンラボ
・静的キーテスト
・MACsecスループットテスト
・動的キーテスト - デモンストレーション

16:35 キープロテクションメカニズム脆弱性評価
Todd Slack - Microchip Technology
・攻撃と対策
・脆弱性評価
・セキュアプロビジョニングとX.509に関して

17:00 質疑応答