CONFERENCE PROGRAM

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INTERNATIONAL CRYPTOGRAPHIC MODULE CONFERENCE 2018

May 8-11, 2018 ■ Ottawa, Ontario, Canada

the information security provider

Security First!

Use FIPS validated crypto modules whenever available.

Protect your data - wherever it is

USB stick, mobile device, server, network, Internet of Things and/or cloud: a validated cryptographic module provides assurance and compliance with the FIPS 140-2 standard.

Make competence your partner

atsec information security will support you through the challenges of the validation process.

Come and talk to us at our booth!

www.atsec.com

Welcome

On behalf of the conference organizers, atsec would like to welcome you all to ICMC18.

Since 2012 this community has met every year and organized itself in a spirit of cooperation, sharing and promotion of the FIPS 140-2 standard. This standard is critical not just to government agencies, but to industry as well many countries' economies and base infrastructures. In recent years the conference has also expanded to include the ISO/IEC 19790 and Common Criteria standards.

The conference continues to grow significantly. This year we have over 400 participants from over 22 countries. The agenda is compelling, with over 100 expert speakers from leading companies. There are nine different content tracks addressing certification programs, general technology, industry verticals, imbedded cryptography, post-quantum cryptography, the common criteria standard, open-source cryptography, end-user experience, advanced technology, and industry perspectives.

There are more than twenty exhibitors, please take the opportunity to learn more about their service offerings during the intermission for lunches and coffee.

ICMC18 is blessed to be held in Canada's capital. Ottawa is a city rich in culture, including architecture, museums and performing arts as well as many historical sites. Take advantage of any free time you may have by exploring Ottawa's many riches.

Security First is the theme for this year's ICMC. During the year all stakeholders: US NIST, Canada CSE, Vendors, Laboratories, Academia and End Users take on an active role in promoting, improving and applying the FIPS 140-2 standard. During this conference we will demonstrate what also comes first is the interest of this community to continue to work together.

Thanks to the conference program committee, especially the chairs, all the sponsors, and conference production management.

ICMC gives you the opportunity for both business and social contacts to enjoy. Let's make the best use of both. Enjoy the event and let's get to the work: Security First.

Sal
President & CEO atsec information security

Table of Contents

Contact Information

Program Committee

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Erin Connor, EWA Canada (Chair)
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Lachlan Turner, Ark Infosec (Chair)
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Presented by CMUF

The Cryptographic Module User Forum (CMUF) provides a voice and communications channel between the community of unclassified cryptographic module (CM) and unclassified cryptographic algorithm developers, vendors, test labs and other interested parties, and the various national, international, and multi-lateral organizational committees, schemes, and policy makers. Join the Forum at cmuf.org.

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Conference Agenda

Detailed session descriptions are online at www.ICMConference.org

ICMC18 begins with one day of pre-conference workshops, followed by conference plenary keynotes and three days of sessions in nine tracks:

Advanced Technology [A] High-level technology issues, or special-focus subject matte

Certification Programs [C] Issues related to the CMVP, government programs and global certification

Industry Perspectives [Y] Issues related to policy, economics, and ethics affecting encryption-based security

End-User Experience [U] CM products, certifications, and vulnerabilities for organizations that rely on crypto security

Industry Vertical/ Embedded Crypto [E] Embedded encryption in specific industry verticals.

General Technology [G] Tools and techniques relating to cryptographic modules

Open-Source Crypto [S] Efforts to audit, improve and certify the security of the leading OS crypto projects

Post-Quantum Crypto [Q] The quantum computing threat and efforts to transition to quantum-safe algorithms

Common Criteria [R] Issues related to Common Criteria and NIAP-compliant products

Tuesday, May 8

Pre-Conference Workshops

08:00	**Registration** (Rideau Canal Atrium)		
	Ottawa Salon 210	Ottawa Salon 212	Ottawa Salon 211
09:00	**Decrypting Crypto: An Introduction to Cryptography** (W00a) Jon Green, HPE	**Intro to FIPS 140** (W00b) Yi Mao, atsec information security	**Introduction to Blockchain** (W00c) Arthur Nicewick, SalusSec LLC
12:30	**Lunch** (Rideau Canal Atrium)		
13:30	**The Post Quantum Crypto World and the Need for Crypto Agility** (W01a) Tomislav Nad, InfoSec Global; Vladimir Soukharev, InfoSec Global	**FIPS 140-2 Validation Process: Overview and Case Study** (W01b) Tammy Green, Symantec; Ian Hall, Symantec; Brad Proffitt, Lightship Security	**Introduction to Common Criteria** (W01c) Lachlan Turner, Partner, Lightship Security
17:00	**Adjourn**		

Wednesday, May 9

Conference Plenary Session

08:00	**Registration** (Rideau Canal Atrium)	
	Plenary Keynote Session	Ottawa Salon 213-215
09:00	**Welcome Address**, Yi Mao, atsec information security [09:10] **Plenary Keynote Address: Digital Disruption and the Implications for Cybersecurity and Cryptography** (P10a) Jason Hart, CTO Data Protection, Gemalto, United Kingdom [09:50] **Plenary Keynote Address: What's Next for Cryptography? How CSE Balances Privacy and Innovation in the Public and Private Sectors** (P10b) Scott Jones, Assistant Deputy Minister, Information Technology Security, Communications Security Establishment	
10:30	**Networking Break in Exhibits** (Ottawa Salon 214)	

Wednesday, May 9

Certification Programs

Ottawa Salon 210

General Technology

Ottawa Salon 209

	Certification Programs — Ottawa Salon 210	General Technology — Ottawa Salon 209
11:15	**Certification Track Keynote Address: Increasing the Value of Certifications to the End-User** (C11a) Jeff Blank, Technical Director, Endpoint Solutions, NSA Cybersecurity	**General Technology Track Keynote: Hardware Security Modules (HSM), Past, Present and Future** (G11a) Bruno Couillard, Crypto4A
11:45	**CMVP Programmatic Update** (C11b) Carolyn French, GoC; Beverly Trapnell, NIST	**Usability, Validation and Abuse** (G11b) Valerie Fenwick, Director of Software Engineering, Platform Security Division, Intel
12:15	**NIAP Update** (C11c) Dianne Hale, NIAP	**SP800-90B: Testing Process, Result Bounds, and Current Issues** (G11c) Joshua Hill, Information Security Scientist, UL
12:45	**Lunch in Exhibit Area** (Ottawa Salon 213-215)	
13:45	**Update on the Automated Cryptographic Validation Program (ACVP)** (C12a) Apostol Vassilev, NIST; Tim Anderson, Amazon; Harold Booth, NIST; Shawn Geddis, Apple; Barry Fussell, Cisco; Bradley Moore, NIST; Robert Relyea, Red Hat `[90 min]`	**Using FPGAs in the Cloud for Decentralized Trusted Execution** (G12a) Ahmed Ferozpuri, George Mason University
14:15		**GlobalPlatform: Cryptography Algorithm Classification and Crypto Agility** (G12b) Olivier Van Nieuwenhuyze, GlobalPlatform Board Member and Security Task Force Chair
14:45		**Deep Inside: The Benefits and Implications of Sub-Chip FIPS Modules** (G12c) Renaudt Nunez, atsec information security
15:15	**Networking Break in Exhibits** (Ottawa Salon 213-215)	
15:45	**Mandating CMVP for NIAP Evaluations Panel Presentation** (C13a) Moderator: Dianne Hale, NIAP, Panelists: Michael Cooper, IT Specialist, NIST; Terrie Diaz, Product Certification Engineer, Cisco Systems; Matt Keller, Corsec; Edward Morris, Co-founder, Gossamer Security Solutions; Nithya Rachamadugu, Director Cygnacom [60 min]	**Boundaries: Where Do You Draw the Line?** (G13a) Alan Gornall, Rycombe Consulting
16:15		**FIPS 140-2 Validations in a Secure Enclave** (G13b) Chris Conlon, wolfSSL
16:45	**FIPS 140-3 Update** (C13c) Michael Cooper, IT Specialist, NIST	**EncryptedQuery: A Practical Solution for PIR** (G13c) John Petro, Envieta Systems
17:45	**Welcome Reception in Exhibits** (Ottawa Salon 213-215)	DARKMATTER Reception Sponsor
18:45	**Dine-Around Ottawa** (See page 10)	

Conference Presentations

Presentations will be available after the conference at www.ICMConference.org
Password: **XXXX**

Join the Conversation on Twitter

#CryptoModConf

Industry Vertical/Embedded Crypto

Ottawa Salon 211

Post-Quantum Crypto

Ottawa Salon 212

11:15	**Industry Vertical/Embedded Crypto Track Keynote: Embedded Encryption and Blockchain Technologies for IoT Security** (E11a) Dr. Najwa Aaraj	**Post-Quantum Crypto Track Keynote: Progress in Post-Quantum Cryptography** (Q11a) Tanja Lange, Eindhoven University of Technology
11:45	**"FIPS 140-2 Inside"—You're (Probably) Doing It Wrong** (E11b) Mark Minnoch, KeyPair Consulting	**Quantum Update** (Q11b) Michele Mosca, Institute for Quantum Computing, University of Waterloo & evolutionQ
12:15	**IoT Security—GAME OF TRUST** (E11c) Roland Atoui, Red Alert Labs, France; Isaac Dangana, Red Alert Labs	**Chairman's Report from ETSI TC Cyber Working Group for Quantum Safe Cryptography** (Q11c) Mark Pecen, CEO, Approach Infinity & COO, ISARA
12:45	**Lunch in Exhibit Area** (Ottawa Salon 213-215)	
13:45	**FIPS, IoT Medical Devices and the DoD/VA** (E12a) Loren Shade, Allegro Software	**NIST Post-Quantum Cryptography Standardization Update** (Q12a) Lily Lidong Chen, NIST; Dustin Moody, NIST
14:15	**FIPS 140-2 Perspectives on IoT Devices in a Blockchain Setting** (E12b) William Sandberg-Maitland, SPYRUS	**The Libpqcrypto Software Library For Post-Quantum Cryptography** (Q12b) Daniel J. Bernstein, University of Illinois at Chicago
14:45	**Secrets of Crypto Technology Revealed for Enhanced ICS Cybersecurity** (E12c) Chris Guo, Ultra Electronics, 3eTI.com	**Practical Quantum-Resistant Cryptography from Supersingular Isogenies** (Q12c) Patrick Longa, Microsoft Research
15:15	**Networking Break in Exhibits** (Ottawa Salon 213-215)	
15:45	**Trusted and Localized Entropy Source for Advanced IoT Security** (E13a) Jongwon JP Park, EYL; Junghyun Francis Baik, EYL	**Recent Progress in Hardware Implementations of Post-Quantum Isogeny-Based Cryptography** (Q13a) Reza Azarderakhsh, Florida Atlantic University and PQSecure Technologies
16:15	**Blockchain Internals Made Simple** (E13b) Arthur Nicewick CTO SalusSec	**Integrating Quantum-Resistant Algorithms into Applications** (Q13b) Christian Paquin, Microsoft
16:45	**Security Certification Schemes for Smart Cars** (E13c) Jose Emilio Rico, Lab Manager, DEKRA	**Open Quantum Safe** (Q13c) Vlad Gheorghiu, University of Waterloo
17:45	**Welcome Reception in Exhibits** (Ottawa Salon 213-215)	DARKMATTER Reception Sponsor
18:45	**Dine-Around Ottawa** (See page 10)	

Thursday, May 10

08:00	**Coffee in Exhibits** (Ottawa Salon 213-215)	
	 **Certification Programs** Ottawa Salon 210	 **General Technology** Ottawa Salon 209
09:00	**NIST and NIAP Working Together** (C20a) Mary Baish, NIAP; Michael Cooper, NIST	**Tamper Labels Examined** (G20a) Steve Weingart, Aruba, a Hewlett Packard Enterprise company
09:30	**"Revalidation in Response to CVE" Working Group** (C20b) Fabien Deboyser, Thales eSecurity; Carolyn French, CSE; Ryan Thomas, Acumen Security	**GPU-Accelerated High-Performance Hardware Security Module** (G20b) Fangyu Zheng, Institute of Information Engineering, CAS
10:00	**Touch the Cloud: Closing the FIPS Validation Gap** (C20c) Yi Mao, atsec information security	**Meeting FIPS 140 Requirements—An RSA Story** (G20c) Steven Schmalz, RSA
10:30	**Networking Break in Exhibits** (Ottawa Salon 213-215)	
11:00	**Comments on NIST Standards for Random Number Testing** (C21a) Yuan Ma, Institute of Information Engineering, Chinese Academy of Sciences	**10 Years of FIPS 140-2 Certifications at Red Hat** (G21a) Tomas Mraz, Red Hat
11:30	**Structured Entropy Assessment and Practical Evaluation Considerations** (C21b) Greg McLearn, Lightship Security	**Panel Discussion: Technology Challenges in CM Validation** (G21b) Moderator: Nithya Rachamadugu, CygnaCom Panelists: Tomas Mraz, Red Hat; Steven Schmalz, RSA—the Security Division of EMC; Fangyu Zheng, Institute of Information Engineering, CAS `[60 min]`
12:00	**Automation of CAVS Testing: Bringing CAVP and Vendor Together** (C21c) Stephan Mueller, atsec information security	
12:30	**Lunch in Exhibits** (Ottawa Salon 213-215)	
13:30	**State of CAVP** (C22a) Harold Booth, NIST	**Analyzing Block Device Timing Events as a Source of Entropy** (G22a) Kirill Sinitski, CygnaCom; Mike Ounsworth, EntrustDatacard
14:00	**Panel Discussion: ACVP—How It Will Change the Way You Work** (C22b) Moderator: Harold Booth, NIST; Panelists: Shawn Geddis, Apple; Stephan Mueller, atsec; Dayanandini Pathmanathan, Cygnacom Solutions; Alicia Squires, Cisco Systems `[60 min]`	**The Use of /dev/urandom as the Entropy Source in the Real World** (G22b) Rumman Mahmud, Cisco Systems; Zhiqiang Wang, Gossamer Security Solutions
14:30		**Abstractions To Help Developers Write Good Crypto** (G22c) Isaac Potoczny-Jones, CEO, Tozny
15:00	**Networking Break in Exhibits** (Ottawa Salon 213-215)	
15:30	**ACVP Client Integration for FIPS Algorithm Testing and Runtime Crypto Assessment** (C23a) Barry Fussell, Cisco Systems; Ellie Daw, Cisco Systems	**Traditional Hardware Security Modules vs Real World Requirements. Is There a Gap?** (G23a) Martin Oczko, PrimeKey Labs
16:00	**Realigning (Not Re-inventing!) the Wheel: Applying a Composition Model to FIPS 140-2 Validation** (C23b) Steve Weymann, KeyPair Consulting	**The Details of an Ongoing Transition to the Stronger Key Establishment Methods** (G23b) Allen Roginsky, NIST
16:30	**In FIPS 140-2 Validations, Why So Much Redundant Data Redundancy in FIPS 140-2 Validations?** (C23c) Quentin Gouchet, atsec information security	**KMIP 2.0 vs Crypto in a Cybersecurity Context** (G23c) Tony Cox, Cryptsoft; Chuck White, Fornetix
17:00	**Cryptographic Module Game Program** (Ottawa Salon 213, 215)	

08:00	**Coffee in Exhibits** (Ottawa Salon 213-215)	
	 **Common Criteria** Ottawa Salon 211	 **Post-Quantum Crypto** Ottawa Salon 212
09:00	**Common Criteria Track Keynote** (R20a) Michael Grimm, CCUF	**Advances in Quantum Key Distribution: Standardization, Networking, and Space Applications** (Q20a) Bruno Huttner, ID Quantique
09:30	**Is 2018 a Make or Break Year for CC?** (R20b) John Boggie, NXP Semiconductors, United Kingdom	**A Session Key Service for Post-Quantum Security in Standard Protocols** (Q20b) David McGrew, Cisco Systems
10:00	**Making Objectivity Work Harder: Text, Tools and Fuzzing** (R20c) Tony Boswell, DNV GL Technical Assurance Laboratory	**Isogeny-Based Quantum-Resistant Group Key Agreement** (Q20c) Vladimir Soukharev, InfoSec Global
10:30	**Networking Break in Exhibits** (Ottawa Salon 213-215)	
11:00	**Identifying Cryptographic Implementations in Common Criteria** (R21a) Cory Clark, Government of Canada	**A Brief Introduction to Quantum Random Number Generation Technologies** (Q21a) Jeong Woon Choi, Quantum Technology Lab, SK Telecom
11:30	**A Survey of Common Criteria Certification Scheme Cryptographic Algorithm Requirements** (R21b) King Ables, atsec information security corporation	**Panel Discussion: QRNG Outlook** (Q21b) Moderator: Michele Mosca, Institute for Quantum Computing, University of Waterloo, evolutionQ; Panelists: David Sabourin, CSE; Sae Woo Nam, NIST; Bruno Huttner, ID Quantique SA; Bertrand Reulet, Université de Sherbrooke `[60 min]`
12:00	**Smart Application of CC: CC Can Actually Be Efficient, Lean and Useful!** (R21c) Wouter Slegers, Your Creative Solutions	
12:30	**Lunch in Exhibits** (Ottawa Salon 213-215)	
13:30	**CC and Crypto Evaluations in Turkey** (R22a) İbrahim Halil Kirimizi, Turkish Standards Institution	**OS Crypto Track Keynote: Challenges in Implementing Usable Advanced Crypto** (S22a) Shai Halevi, IBM T. J. Watson Research Center
14:00	**Completeness in High Assurance Common Criteria Evaluation for eIDAS in Europe** (R22b) Leo Kool, Brightsight	**Avoiding Burning at Sunset – Future Certification Planning in Bouncy Castle** (S22b) David Hook, Crypto Workshop
14:30	**Spanish Catalogue of Qualified Products: A New Way of Using CC for Procurement** (R22c) Jose Ruiz Gualda, jtsec	**OpenSSL Project Overview** (S22c) Rich Salz, OpenSSL Dev Team
15:00	**Networking Break in Exhibits** (Ottawa Salon 213-215 Exhibits Close at 15:30)	
15:30	**Flaw Remediation Begins Where Product Certification Finishes** (R23a) Malcolm Levy, Check Point Software Technologies	**OpenSSL FIPS Module Validation Project** (S23a) Tim Hudson, CTO and Technical Director, Cryptsoft Pty, Australia; Ashit Vora, Acumen Security
16:00	**Panel Discussion: FIPS and Common Criteria– How They Play Together** (R23b) Moderator: Steve Weingart, Aruba, a Hewlett Packard Enterprise company, Panelists: Joshua Brickman, Security Evaluations Oracle; Erin Connor, EWA-Canada; Alan Kaye, Fortinet; Laurie Mack, Gemalto `[60 min]`	**China and Crypto Open Source Projects** (S23b) Paul Yang, Architect, BaishanCloud
16:30		**LibreSSL** (S23c) Brent Cook, OpenBSD
17:00	**Cryptographic Module Game Program** (Ottawa Salon 213, 215)	

Friday, May 11

Conference Track Sessions

08:00	**Coffee** (Rideau Canal Atrium)	
	 **Certification Programs** Ottawa Salon 210	 **Advanced Technology** Ottawa Salon 209
		DARKMATTER Track Sponsor
09:00	**A Look Back to a Decade of Security Certification, and a Look Forward the New Landscape in Europe** (C30a) Miguel Banon, DEKRA	**Advanced Technology Track Keynote: Lightweight Post-Quantum Crypto: An Oxymoron** (A30a) Victor Mateu, Crypto Developer, DarkMatter
09:30	**Building Certification Bodies** (C30b) Wouter Slegers, Your Creative Solutions	**Permutation-Based Cryptography** (A30b) Guido Bertoni, Security Pattern
10:00	**O-TTPS Certification as a Companion to CMVP and Common Criteria** (C30c) Teresa MacArthur, EWA-Canada	**Sizing Up the Threshold: Challenges and Opportunities in the Standardization of Threshold Schemes for Cryptographic Primitives** (A30c) Apostol Vassilev, NIST
10:30	**Networking Break** (Rideau Canal Atrium)	
10:45	**CAVP/CMVP Requirements from 800-90B** (C31a) Mary Baish, NIAP; Michael Cooper, IT Specialist, NIST; Allen Roginsky NIST	**Panel Discussion: The Future of HSMs and New Technology for Hardware Based Security Solutions** (A31a) Tony Cox, Cryptsoft; Thorsten Groetker CTO, Utimaco; Tim Hudson, Cryptsoft; Todd Moore, Gemalto; Robert Burns, Thales `[60 min]`
11:15	**TOO MANY CERTIFICATIONS!** (C31b) Ken Fuchs, Motorola Solutions	
11:45	**IG Updates: Chasing the Moving Target** (C31c) Swapneela Unkule, atsec information security	**The Role of Product Platforms in Information Security: Building on the Success of Cryptographic Modules** (A31c) Lawrence Dobranski, Catalone IT Security
12:15	**CMUF Monthly Meeting – May** (Ottawa Salon 210) Open to all.	
12:45	**Lunch** (Rideau Canal Atrium)	
	 **Industry Perspectives** Ottawa Salon 210	 **Advanced Technology** `[Cont'd]` Ottawa Salon 209
13:30	**Reducing Conflict of Interest in Third Party Security Testing Validations/Certifications** (Y32a) Carol Cantlon, EWA-Canada	**Efficient Side-Channel Testing Using TVLA** (A32a) Gilbert Goodwill, Rambus – Cryptography Research; Gary Kenworthy, Rambus – Cryptography Research
14:00	**Brexit, and What It Means for Product Evaluations in the UK and Europe** (Y32b) Simon Milford, DNV GL	**Breaking Symmetric White-Box Algorithms Using CPA and DFA** (A32b) Gabriel Goller, R&D Specialist Cryptology, G+D Mobile Security
14:30	**The EU Cybersecurity Act: Is This the First Tangible Evidence of the Balkanization of Common Criteria?** (Y32c) Joshua Brickman, Oracle; Elaine Newton, Oracle	**Campfire Stories: Test to Break or Test to Verify?** (A32c) Bart Jan Koning, Riscure; Erwin in 't Veld, Product Manager, Riscure
15:00	**Networking Break** (Rideau Canal Atrium)	

(See next page for Closing Remarks, Summary Panel Discussion)

08:00	**Coffee** (Rideau Canal Atrium)	
	 **End-User Experience** Ottawa Salon 211	 **Open-Source Crypto** Ottawa Salon 212
09:00	**End-User Experience Track Keynote: Building Composed Security Solutions for Multinational and Interagency Operations** (U30a) Alex MacPherson, National Defense/Government of Canada	**TLS 1.3 and NSS** (S30a) Robert Relyea, Red Hat
09:30	**The FIPS 140-2 CM Overall Rating: What's (Not) in It For Me?** (U30b) Sridhar Balasubramanian, NetApp; Mike Scanlin, NetApp `[60 min]`	**TLS Panel Discussion** (S30b) Moderator: Tim Hudson, Cryptsoft Pty; Panelists: Brent Cook, OpenBSD; David Hook, Crypto Workshop; Rich Salz, Akamai Technologies & Member, OpenSSL Dev Team `[60 min]`
10:30	**Networking Break** (Rideau Canal Atrium)	
10:45	**A Quantum of Safety—Rooting Trust in a Quantum World** (U31a) Mike Brown, ISARA	**A Case Study on Certification and Audit of Open Source Security Software** (S31a) Tomas Gustavsson, CTO, PrimeKey Solutions AB
11:45	**Towards A Crowd-Sourced Cryptographic Knowledge Base** (U31b) Debra Baker, Cisco; Seth Nielson, Johns Hopkins University	**Proving the Correctness of Amazon's s2n TLS Library** (S31b) Aaron Tomb, Galois
11:45	**Keys, Hollywood, and History: The Truth About ICANN and the DNSSEC Root Key** (U31c) Richard Lamb, Self-Employed	**Do You Really Know Where Your Crypto is Executing?** (S31c) Kelvin Desplanque, Cisco Systems; Barry Fussell, Cisco Systems
12:15	**CMUF Monthly Meeting – May** (Ottawa Salon 210) Open to all.	
12:45	**Lunch** (Rideau Canal Atrium)	
13:30	**Update from the "Security Policy" Working Group** (U32a) Ryan Thomas, Acumen Security	**The Linux Kernel Self-Protection Project** (S32a) Gustavo A. R. Silva, Linux Foundation's Core Infrastructure Initiative
14:00	**We Feel Your Pain! Getting Ready for Certification** (U32b) Alan Kaye, Fortinet; Brad Proffitt, Lightship Security	**Reproducible Builds on NetBSD** (S32b) Christos Zoulas, NetBSD
14:30	**Planning Ahead: Certificate Maintenance** (U32c) Abdullah Abubshait, Cygnacom Solutions	**Security in the Zephyr Project** (S32c) David Brown, Linaro
15:00	**Networking Break** (Rideau Canal Atrium)	
15:15	**Closing Remarks, Summary Panel Discussion** (Ottawa Salon 210) **Can Certification Keep Up With the Pace of Modern Development?** (P33) Moderator: Steve Weingart, Aruba, a Hewlett Packard Enterprise company, Panelists: Mary Baish, NIAP; Tony Busciglio, Acumen Security; Michael Cooper, NIST; Shawn Geddis, Inc.; Brian Wood, Samsung Research America	
16:15	**Adjourn**	

Take a Break Thursday Evening

17:00-17:45 (Ottawa 213, 215)

Cryptographic Module Game Program

Your Host: Nick Goble

Come watch three experienced contestants test their FIPS knowledge at the Cryptographic Module Game Program (CMGP). The CMGP covers FIPS validation trivia related to algorithms, derived testing requirements, entropy, implementation guidance and more. A few members from the audience will be selected to assist the contestants on specific questions and be eligible to win prizes.

WiFi Access

WiFi service is available to conference registrants in the public areas of the facility.

Instructions:

1. Search the available wireless networks with your device and connect to the "FREEMAN AV WIFI" network
2. Once connected, open your preferred web browser. You will automatically be re-directed to a login page
3. Select the "Access code" as the method of payment. The access code changes daily: Tuesday: ICMC18TU, Wednesday: ICMC18WE, Thursday: ICMC18TH, Friday: ICMC18FR
4. Please be sure to use ALL CAPS

Thanks to our student volunteers.

Join Your Colleagues: Dine-Around Ottawa

Sign up at the registration desk. Depart Wed, May 9 at 18:45.

On the evening of Wednesday, May 9, you can enjoy an informal, on-your-own group dinner at one of Arlington's best restaurants with your ICMC colleagues. Select a restaurant, reserve your seat and enjoy a prix-fixe dinner at a group table in the company of other professionals. Reserve early—seating is limited.

Restaurant	Price	Type of Food
Blue Cactus Bar & Grill	US$38	Contemporary cuisine with an upscale casual ambiance
Lowertown Brewery Ottawa	US$35	Enjoy a 3 course Brew Masters Dinner with beer tasting.
Cornerstone	US$25	Eclectic, casual restaurant with a nice outdoor dining area

All restaurants are within walking distance. Meet Wednesday at 18:20 at the registration desk and depart from there.

Speakers

Speaker biographies are online at www.ICMConference.org

Dr. Najwa Aaraj

Independent Consultant

E11a

King Ables

Senior Consultant, atsec information security corporation

R21b

Abdullah Abubshait

Cygnacom Solutions

U32c

Tim Anderson

Program Manager, WWPS Security & Compliance Business Acceleration Team, Amazon

C12a

Roland Atoui

Red Alert Labs

E11c

Reza Azarderakhsh

Assistant Professor, Florida Atlantic University and PQSecure Technologies

Q13a

Junghyum Francis Baik

EYL Inc.

E13a

Mary Baish

Deputy Director, NIAP

C20a, C31a, P33

Debra Baker

Cybersecurity Evangelist, Cisco

U31b

Sridhar Balasubramanian

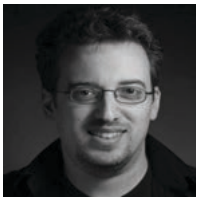
Principal Product Security Architect, NetApp

U30b

Miguel Bañón

Global Technology Leader for Cyber Security DEKRA

C30a



Daniel J. Bernstein

Research Professor, University of Illinois at Chicago

Q12b

Guido Bertoni

Co-Founder and CEO, Security Pattern

A30b

Jeffrey Blank

Technical Director, Endpoint Solutions, NSA Cybersecurity

C11a

John Boggie

Director, Head of Product Certification, NXP Semiconductors

R20b

Harold Booth

Computer Scientist, NIST

C12a, C22a, C22b

Tony Boswell

Senior Principal Consultant, DNV GL

R20c

Joshua Brickman

Director, Security Evaluations, Oracle

R23b, Y32c & Program Committee

David Brown

Senior SW Engineer, Linaro

S32c

Mike Brown

CTO, ISARA Corporation

U31a

Robert Burns

CSO, Thales e-Security

A31a

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P33

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Y32a

Lily Chen

Mathematician NIST

Q12a

Jeong Woon Choi

Quantum Technology Lab, SK Telecom

Q21a

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G13b

Erin Connor

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Brent Cook

Open BSD

S23c, S30b

Michael Cooper

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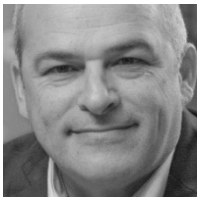
C13a, C13c



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G11a

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Tanja Lange

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Malcolm Levy

Certification Manager, Check Point Software Technologies

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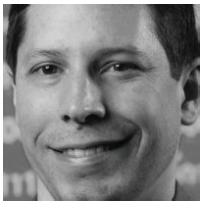

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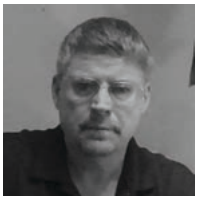

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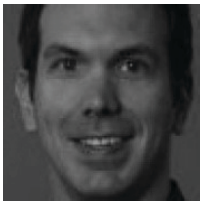

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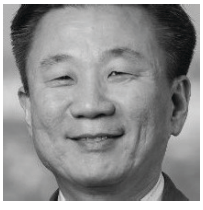
Principal Program Manager, Microsoft

Q13b



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Dayanandini Pathmanathan

Common Criteria Evaluator, CygnaCom Solutions

C22b

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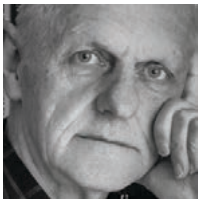
CEO, Approach Infinity & COO, ISARA

Q11c, Program Committee



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G13c

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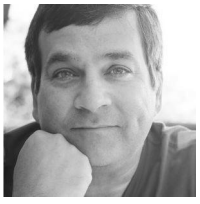

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Christos Zoulas

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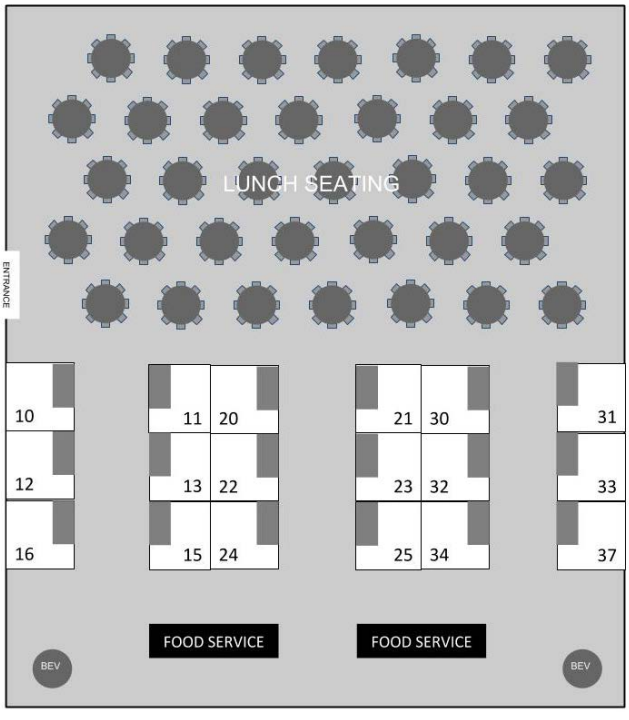

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10. atsec information security
11. Cryptsoft
12. Rhode & Schwarz, Cybersecurity GmbH
13. WolfSSL
15. ISARA
16. DNV-GL
20. Allegro Software
21. PrimeKey Solutions
22. EYL
23. InfoSec Global
24. Ultra Electronics, 3eTI
25. NewAE Technology
30. Red Alert Labs
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33. Riscure
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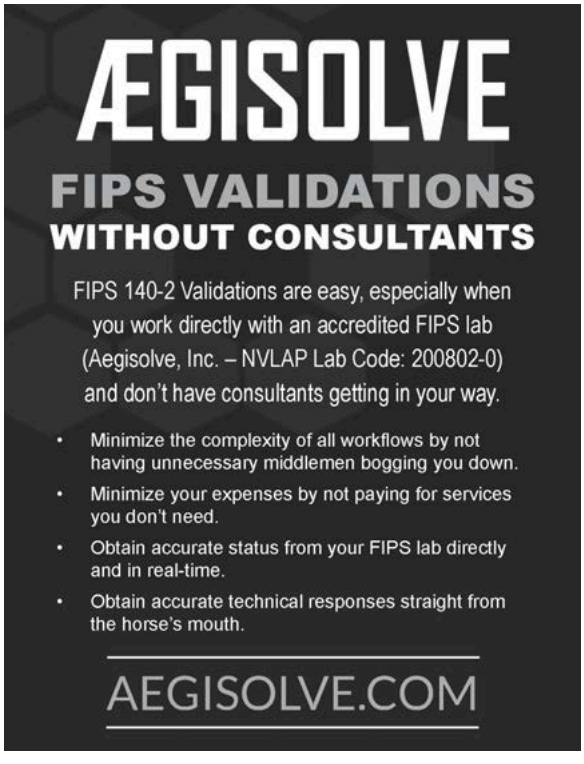
AEGISOLVE Cyber Security Laboratories accelerates your time to market with proven security analysis and testing processes. Headquartered in Silicon Valley, California, AEGISOLVE is an accredited industry leader, providing FIPS 140-2 validations for nearly a decade.



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Secure Software for the Internet of Things – Allegro Software is a leading provider of embedded Internet software toolkits to product developers

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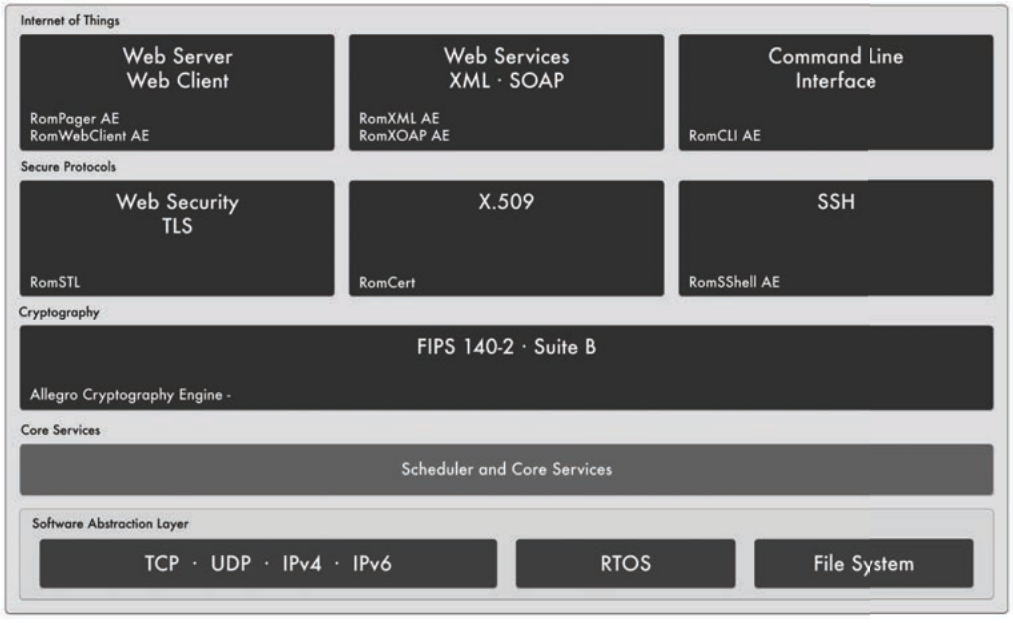

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Common Criteria User Forum

www.ccusersforum.org

The Common Criteria Users Forum's mission is to provide a voice and communications channel amongst the CC community. The CCUF promotes the CC and provides an open forum for various CC topics to be discussed without favoring anyone group and supports international Technical Communities and technical working groups in a number of ways. The CCUF is independent of any government or certification body and membership is open to all interested in the CC.

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The Cryptographic Module User Forum (CMUF) provides a voice and communications channel between the community of unclassified cryptographic module (CM) and unclassified cryptographic algorithm developers, vendors, test labs and other interested parties, and the various national, international, and multi-lateral organizational committees, schemes, and policy makers. Join the Forum at cmuf.org.

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Booth 37

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EWA-Canada was incorporated and has been in operation since June 1988. We are recognized as Canada's premiere provider of information and communications technology (ICT) security and assurance services and a global centre of excellence in security engineering and test and evaluation innovation. Our solutions are based on the vast expertise of our personnel, a structured system engineering approach, and vendor-neutral selection and implementation of appropriate technologies. Our commitment is to provide excellence to our clients. EWA-Canada provides experienced, qualified resources, and company expertise in all facets of security program development and assessments, product test, evaluation and certification, security architecture design and development, identification token and credential issuance, security incident response, computer forensics and training.

Booth 22

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www.eylpartners.com

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Booth 15

ISARA

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NewAE Technologies

newae.com

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Booth 31

Rambus Cryptography Research

www.rambus.com/security

The Rambus Cryptography Research division specializes in embedded security solutions to combat the worldwide threat to data integrity. Our innovative technologies span areas including tamper resistance, content protection, network security, media and payment and transaction services. Nearly nine billion security products are made annually with our security technology, and systems designed by our scientists and engineers protect billions of dollars in revenue every year. Additional information is available at rambus.com/security.

Booth 30

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www.riscure.com

Riscure is an international and independent security test laboratory founded in 2001 by Marc Witteman, with labs in the USA and in The Netherlands. Riscure is an accredited lab for EMVco security testing, DPA lock testing and various Pay TV schemes. Riscure specializes in evaluating and testing the security of embedded devices that are designed to operate securely in any environment and under all circumstances. Besides offering these services, Riscure develops and maintains security test tools for organizations and companies that want to perform in-house security testing, such as side channel analysis or fault injection.

Booth 12

Rohde & Schwarz Cybersecurity GmbH

www.cybersecurity.rohde-schwarz.com

Rohde & Schwarz Cybersecurity is an European IT security company that protects companies and public institutions around the world against cyberattacks. The company develops and produces technologically leading solutions for information and network security, including highly secure encryption solutions, cloud security, next generation firewalls and endpoint security. The portfolio also includes vulnerability scanners and firewalls for business-critical web applications and web services.The award-winning and certified IT security solutions range from compact, all-in-one products to customized solutions for critical infrastructures. To prevent cyberattacks proactively, rather than reactively, our trusted IT solutions are developed according to the security-by-design approach. More than 500 people are employed at locations in Germany, France and Spain.

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www.SafeLogic.com

SafeLogic's product line is focused on standards-based cryptographic engines designed for use in mobile, Cloud, server, wearable, IoT, workstation, and appliance environments. SafeLogic modules

include RapidCert, the industry's only FIPS 140-2 validation service that provides a certificate in the customer's name, while drastically accelerating the timeline, requiring no additional engineering effort, zero interaction with testing labs, and at a fixed cost. SafeLogic was established in 2012, is privately held, and is headquartered in Palo Alto, California..

Booth 24

Ultra 3eTI

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www.wolfssl.com

The wolfSSL embedded SSL library is a lightweight, portable, C-language-based SSL/TLS library targeted at IoT, embedded, and RTOS environments primarily because of its size, speed, and feature set. It works seamlessly in desktop, enterprise, and cloud environments as well. wolfSSL supports industry standards up to the current TLS 1.3 and DTLS 1.2, is up to 20 times smaller than OpenSSL, offers a simple API, an OpenSSL compatibility layer, OCSP and CRL support, is backed by the robust wolfCrypt cryptography library, and much more. The CMVP has issued FIPS 140-2 Certificate #2425 for the wolfCrypt Module.

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Certified InfoSec CONFERENCE

The Global Forum for Professionals in Certified Enterprise IT Security

October 9-10, 2018 ★ Washington, DC ★ www.CertInfoSec.org

The year's leading event for professionals focused on certified IT security

Connect with colleagues at networking events and a special showcase exhibition

Located in Washington, DC, with easy local and international access

Join Your Colleagues at the Global Forum for Certified ISMS

This year's Certified InfoSec Conference will be held October 9-10 at the Westin Tyson's Corner in the Washington DC area. Now in its fourth year, the Certified InfoSec Conference will bring together professionals focused on the most widely-implemented enterprise security standards: ISO 27001, ISO 22301, CSA STAR, FISMA/FedRAMP, SOC, and PCI. It's the leading forum for the global certified enterprise security community, including those who develop, assess, specify, support, and implement these standards. In the face of multiplying security threats, organizations are increasingly required to maintain audited proof of management control over cyber security. Whether you're focused on one standard or several, the Certified InfoSec Conference is the place to learn about the current standards and future path for these standards.

Who Should Attend

CISC is a learning forum for ISMS professionals who develop, assess, specify, support, and implement certified information security, including Security Professionals, Network and Computer Systems Administrators, Penetration Testers, Incident Handlers, System Analysts, Security Auditors, Risk Assurance Personnel, Vulnerability Assessment Personnel, Security Operations Center (SOC) Personnel, or Chief Information Security Officers.

Presented by Industry Leaders Lead Sponsors

The Certified InfoSec Conference is presented by Cnxtd Event Media Services with program development support from Emagine IT, BSI Group, and DNV-GL.

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Conference exhibit and sponsorship marketing opportunities are available. Contact Bill Rutledge, +1 212-866-2169, bill@CertInfoSec.org

30 October-1 November 2018 | Hilton Amsterdam | www.iccconference.org

The year's leading event for professionals focused on common criteria

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Setting the Global Agenda for Common Criteria

Reserve your seat at the 17th ICCC, the leading forum for the community of professionals involved in Common Criteria (CC), the widest available mutual recognition of secure IT products. ICCC is a high-level technical conference, a forum for discussion on the policy and application of CC, and a professional networking opportunity for those in charge of specification, development, evaluation, certification and approval with regard to the IT security of products and systems. The three day conference program will feature government and industry experts from across the international Common Criteria community.

Who Should Attend

This important event brings together hundreds of participants from around the globe: Certification Bodies, Evaluation Laboratories, Researchers, Evaluators, Policy Makers, Product Developers, Sellers and Buyers interested in the specification, development, evaluation, and certification of IT security.

Conference Tracks Include

Advances in the Use of Common Criteria; Meeting Customer Requirements; Updates from Schemes and ITCs.

Presented by Industry Leaders

The International Common Criteria Conference is produced by Cnxtd Inc. Event Media Services and presented with the support of the Common Criteria Users' Forum. The CCUF provides a voice and communications channel between the CC community and the Common Criteria organizational committees, CCRA member organizations (national schemes), and policy makers.

Conference exhibit and sponsorship marketing opportunities are available.
Contact Bill Rutledge, +1 212-866-2169, bill.rutledge@iccconference.org

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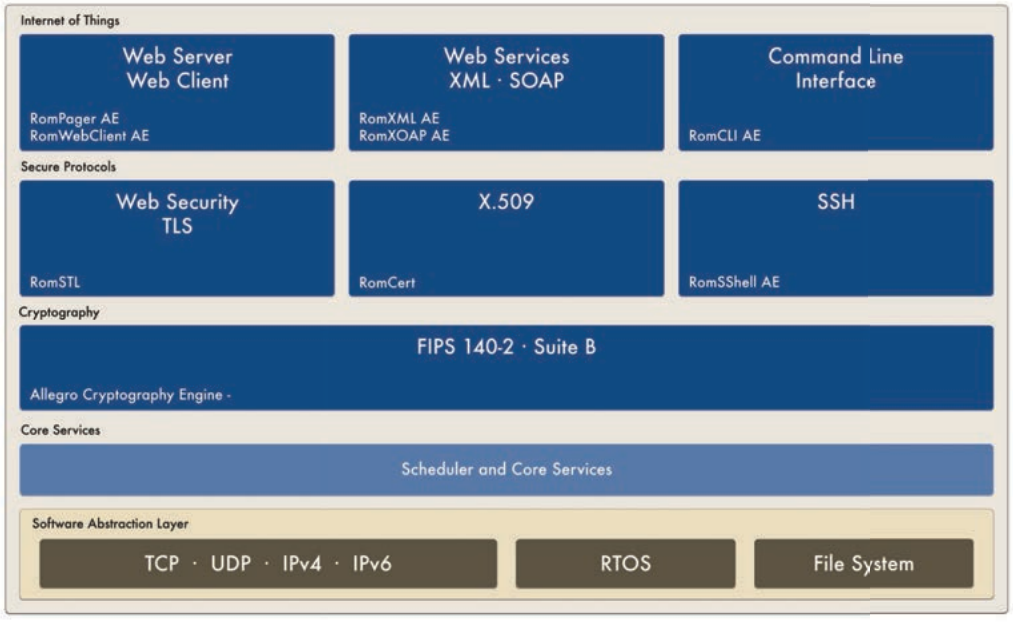

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Cryptsoft's solutions have been selected by prominent global companies for interoperable enterprise key management and encryption technology in their storage, infrastructure & security and cloud products. Cryptsoft is committed to the development of standards based security software and is an OASIS Foundational Sponsor.

Products

Cryptsoft produces a wide range of Server and Client based SDKs which provide OEM vendors worldwide to quickly and cost effectively implement OASIS KMIP and PKCS#11 compliant applications.

Server SDK Products

- KMIP C & Java Server SDKs
- KMIP C & Java Server SDKs SGX Module
- KMIP Server Administration Interface - C & Java
- KMIP C Server Integration Modules (PKCS11, HSM, RNG)
- KMIP C Server Integration Modules (HSM, RNG) SGX Module
- KMIP C Server OTP Server Module
- PKCS#11 C Provider SDK SGX Module
- PKCS#11 C Consumer SDK SGX Module
- SQLite3 SDK SGX Module
- Object Store SDK SGX Module

Client SDK Products

- KMIP C, C++, C#, Java & Python Client SDKs
- KMIP C, C++ Client SDKs SGX Module
- KMIP C Client Layered Protocol SDKs for Proprietary Protocols
- KMIP C Client PKCS11 Adapter
- KMIP RKM/DPM C Client SDK
- KMIP C Client Oracle TDE & Microsoft BitLocker
- KMIP C Client Layered Protocol SDK
- KMIP C Interoperability Test Suite
- KMIP Java Interoperability Test Suite
- Online Test Service (XML/JSON)

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