



# EMBEDDED CONFERENCE SCANDINAVIA 2015

NOVEMBER 3-4, 2015  
KISTAMÄSSAN, STOCKHOLM  
SWEDEN

**A leading Embedded and Internet of Things Event**

## EXCERPTS FROM THE PROGRAM:

- **INTERNET OF THINGS:** Two full days program covering the whole scenario of IoT. From low power sensors and sensor networks to infrastructure and security aspects. We will also look at IoT in practice; Experience from real life projects.
- **SOFTWARE DEVELOPMENT:** Agile methods, Modeling and compiler technology. Software security, test and verification. Open source development with Linux and Android for embedded applications. Windows 10 for IoT.
- **IN-DEPTH TUTORIALS:** HTML5 for embedded, Bluetooth Low Energy programming and An IP fast path implementation.
- **HANDS-ON WORKSHOPS:**
  - Power Design
  - IoT running Open Source
  - ARM9/Linux trace and debug
  - Automatic Test Case Generation
  - Linked-Data and OSLC for Tool Interoperability

### KEYNOTE SPEAKER:



**The road towards autonomous transport solutions**

**Daniel Frylmark**  
Head of Driver Assistance Controls  
Scania CV AB

### KEYNOTE SPEAKER:



**The Internet of Things: Why is the promise taking so long to fulfil?**

**William Webb**  
Professor, CEO Weightless SIG and President IET

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## SOME OF THE SPEAKERS:



**DANIEL MORRIS**  
Polarion Software



**JASON MASTERS**  
Vector Software



**JONAS RUTSTRÖM**  
MathWorks



**COLLIN WALLS**  
Mentor Graphics

# CELEBRATE 10 YEARS OF SUCCESS WITH US!

**Welcome to the 10<sup>th</sup> edition of Embedded Conference Scandinavia, the internationally renowned meeting place for professionals in the field of embedded technology.**

It all started by the initiative from member companies and their customers. They wanted a special arena for sharing knowledge about embedded technology, still very unknown at the time. Together we created this conference and exhibition to meet the needs. We got it right.

With 10 years of success Embedded Conference Scandinavia has developed to be one of the most important events for the European embedded industry. Join us to celebrate the anniversary and meet 1 500 dedicated embedded specialists from all over the world.

With the same successful concept, a compact exhibition, a world-class conference and appreciated social activities, Embedded Conference Scandinavia has grown over the years and is now must-attend event for everybody in the European embedded industry. We will as always have international top ranked key-note speakers and this year we will focus especially on the Internet of Things.

And don't miss the Embedded Dinner Party, where the winners of the Swedish Embedded Award are presented. The fabulous band Lady B Goode will really get the party going!

Welcome to join us for the 2015 edition of Embedded Conference Scandinavia and to celebrate 10 years of success with us. We promise it will be memorable!



**Lena Norder**  
CEO  
Svensk Elektronik/  
The Swedish Electronics Trade Association

## Together we create the future for the electronics industry.

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Embedded Conference Scandinavia is initiated by our members - and of course members are favoured by discounts.

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IN EMBEDDED TECHNOLOGY

KEYNOTE PRESENTATIONS AT

# EMBEDDED CONFERENCE SCANDINAVIA 2015

November 3 13:20-13:50 • Keynote Presentation:

## The road towards autonomous transport solutions

In the transport industry, truck fleet owner's profitability, environmentally friendly solutions and increased safety walks hand in hand on the road towards sustainability. Major improvements are achieved by utilizing Advanced Driver Assistance Systems. These systems fill the gap between fully human-controlled vehicles and completely autonomous vehicles. They increase safety and reliability, while decreasing the CO2 footprint.

This presentation will discuss development strategies and methods to face embedded system challenges in the fascinating and quickly expanding areas of Intelligent Transport Systems and Autonomous Transport Solutions. Rapid advances in increased electrification, simulation driven software development and centralized sensor fusion play key parts. The presentation will also touch on how lean development methods and value driven leadership make the journey towards autonomy an evolution rather than a revolution.



**Presenter:**

**Daniel Frylmark**

Head of Driver Assistance Controls  
Scania CV AB

Daniel has a Master of Science degree in Applied Physics and Electrical Engineering and has worked with development of Embedded Systems at Scania since 2003. He began as a function developer within Chassis Control Systems and was appointed Senior Engineer within automatic controls in 2007, before changing carrier to focus on leadership in 2008. Since 2011, his main responsibility is development of Advanced Driver Assistance Systems.

November 4 13:20-13:50 • Keynote Presentation:

## The Internet of Things: Why is the promise taking so long to fulfil?

The IoT promises much – to make our world work better, improve healthcare, reduce congestion and so much more.

Over 50 billion devices are predicted within a decade. And yet, little has happened to date. The talk discusses why that is and explores the lack of wireless connectivity standards in some areas and the plethora in others. It discusses why this is, how standards are formed and become widely accepted, the key drivers and motivators of the major players in the industry and predicts how we might resolve the connectivity issue and finally get to the promised 50 billion.

It finishes by describing the Weightless standard - the only open standard for wide-area IoT connectivity.



**Presenter:**

**Professor William Webb**

CEO Weightless SIG and President  
IET

William is CEO of the Weightless SIG, the standards body developing a new global M2M technology. He is a Director at Webb Search, an independent consultancy, and President of the IET – Europe's largest Professional Engineering body.

He was one of the founding directors of Neul, a company developing machine-to-machine technologies and networks, which was formed at the start of 2011 and subsequently sold to Huawei in 2014 for \$25m. Prior to this William was a Director at Ofcom where he managed a team providing technical advice and performing research across all areas of Ofcom's regulatory remit. He also led some of the major reviews conducted by Ofcom including the Spectrum Framework Review, the development of Spectrum Usage Rights and most recently cognitive or white space policy. Previously, William worked for a range of communications consultancies in the UK in the fields of hardware design, computer simulation, propagation modelling, spectrum management and strategy development. William also spent three years providing strategic management across Motorola's entire communications portfolio, based in Chicago.



**NOVEMBER 3** – For detailed program, go to [www.embeddedconference.se](http://www.embeddedconference.se)

09:15-10:15

Track 1	Track 2	Track 3	Track 4	Track 5	Track 6
<p><b>STEW</b> Program on page 6</p>	<p><b>Software Development Methods</b> 09:15 Reduce Coding Errors using Production Code Generation with Model-Based Design Presenter: Fredrik Häbring; MathWork 09:45 AUTO-CAAS: Model-Based Fault Prediction and Diagnosis of Automotive Software Presenter: Wojciech Mostowski; Halmstad University</p>	<p><b>Operating Systems</b> 09:15 Windows 10 vs. Linux for IoT Devices Presenter: Christian Eder; congatec 09:45 Microsoft Win 10 IOT Core &amp; .NET framework Front end solutions at the edge for IOT Presenter: Nick Donaldson; Avnet Embedded</p>	<p><b>IoT Development</b> 09:15 Industry 4.0 – Politics or Technology? Presenter: Andreas Rosengren; Prevas 09:45 Research and Application Trends in Machine-to-Machine Communications Presenter: James Gross; KTH</p>	<p><b>Workshop 1 Linear Technology</b> 09:15 Power design in practice, a lab session Presenter: Thomas Ginell and Mats Hellberg; Linear Technology Corporation <i>Hands-on session Limited seating.</i></p>	<p><b>Workshop 2 Acal Bfi</b> 09:15 From Idea to the Field: Industrial Open Hardware for IoT running Open Source software Presenters: Kristoffer Martinsson; Acal Bfi Nordic Hans Andersson; Acal Bfi Nordic Thibault Cantegrel; Sierra Wireless <i>Hands-on session Limited seating.</i></p>

10:15-11:00 COFFEE

11:00-12:00

<p><b>STEW</b> <i>Continued</i></p> <p>11:00 Working agile but also in a traditional way! Building bridges without loss of information Presenter: Daniel Morris; Polarion Software 11:30 Agile development – Feature stories with TDD for embedded systems Presenter: Peter Risberg; Trittech</p>	<p><b>Software Development Methods</b> <i>Continued</i></p> <p>11:00 How to Measure RTOS Performance Presenter: Colin Walls; Mentor Graphics 11:30 Benefits of Virtualization in Embedded Systems Presenter: Alexander Smirnov; ilbers GmbH</p>	<p><b>Operating Systems</b> <i>Continued</i></p> <p>11:00 Scalable IoT Simulation for Software and System Testing Presenter: Jakob Engblom; Wind River, 11:30 Processing at the edge: Why is a Reconfigurable Input/Output architecture ideal for the IoT? Presenter: Jimmie Adolph; National Instruments</p>	<p><b>Workshop 1</b> <i>Continued</i></p>	<p><b>Workshop 2</b> <i>Continued</i></p>
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12:00-13:20 LUNCH AND EXHIBITION

13:20-13:50 KEYNOTE PRESENTATION

**The road towards autonomous transport solutions**

Presenter: Daniel Frylmark; Scania CV AB, Head of Driver Assistance Controls

14:00-15:00

<p><b>STEW</b> <i>Continued</i></p> <p>14:00 Joint Analytical and Simulation-Based Design Space Exploration for Mixed-Criticality System Presenter: Ingo Sander; KTH 14:30 Continuous Delivery of Embedded Systems Presenter: Mike Long; Praqma</p>	<p><b>Software Development Tools</b></p> <p>14:00 The Future of Computer-On-Modules Presenter: Christian Eder; congatec 14:30 Make and buy - systemdesign with COTS-platforms Presenter: Patrik Björklund; Trittech Solutions AB</p>	<p><b>Small Formfactor Boards</b></p> <p>14:00 Multidimensional Hierarchical Graph Neurons (mHGN) for Real-time and Detailed (in-depth) Weather Forecast utilizing Server-less Real-time Communities Communication (SRCC) of mobile phones Presenter: Benny B. Nasution; State Polytechnic of Medan, Indonesia 14:30 Make IoT Happen - experiences from implementing IoT from chip to apps! Presenter: Joakim Eriksson, SICS Swedish ICT AB / Yanzi Networks</p>	<p><b>Workshop 3 Nohau</b> 14:00 Get started with debug and trace ARM 9/Linux Target Presenter: Björn Skånberg, Nohau Solutions AB <i>Hands-on session Limited seating.</i></p>	<p><b>Workshop 4 Quviq</b> 14:00 Automatic Test Case Generation Presenter: Hans Svensson; Quviq <i>Hands-on session Limited seating.</i></p>
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15:00-15:30 COFFEE

15:30-17:00

<p><b>STEW</b> <i>Continued</i></p> <p>15:30 Dynamic Memory Allocation &amp; Fragmentation in C &amp; C++ Presenter: Colin Walls; Mentor Graphics 16:00 Writing Secure and Reliable C/C++ Code Presenter: Marcus Nissemark; Green Hills Software 16:30 The inefficiency of C++, fact or fiction? Presenter: Andreas Wallberg; IAR Systems</p>	<p><b>Software Development Tools</b></p> <p>15:30 FPGA and SoC Design from Idea to Implementation Presenter: Jonas Rutström; MathWorks 16:00 The new Software Define "everything" tools for FPGAs will provide familiar CPU-, GPU- and ASSP-like programming environments to system and software engineers Presenter: Trygve Mathiesen; Qamcom</p>	<p><b>FPGA</b></p> <p>15:30 Component Trust - A Corner Stone for Safety in IoT Presenter: Johan Thulin; Combitech 16:00 Bringing military grade security to the Industrial Internet of Things Presenter: Mark Pitchford; Lynx Software Technologie 16:30 Security by Separation; Reliable security for IoT devices Presenter: Mehmet Özer, Sysgo</p>	<p><b>IoT Security</b></p>	<p><b>Workshop 3</b> <i>Continued</i></p>	<p><b>Workshop 4</b> <i>Continued</i></p>
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17:00-18:00 INDUSTRY RECEPTION

18:00 The Embedded Dinner Party – 10th anniversary edition! Dinner, drinks & entertainment. Don't miss the Swedish electronics industry own Oscar Awards and a pop, rock and disco extravaganza with Lady B Goode. Note: Separate registration necessary. Tickets are SEK 595 plus VAT.



**NOVEMBER 4** – For detailed program, go to [www.embeddedconference.se](http://www.embeddedconference.se)

**09:15-10:00**

Track 1	Track 2	Track 3	Track 4	Track 5
<p><b>ARROWHEAD</b> Program on page 6</p>	<p><b>Software Quality</b> 09:15 Code coverage for embedded targets and tool qualification Presenter: Olivier Casse; Verifysoft 09:45 Coding Standards –“everything has its place” Presenter: Dr Frank van den Beuken; PRQA</p>	<p><b>Low Power Design</b> 09:15 Open 09:45 High performance power design using efficient tools Presenter: Thomas Ginell; Linear Technology Corporation</p>	<p><b>IoT Tutorials</b> 09:15 How to secure the Industrial Internet of Things Presenter: by Alan Grau; Icon Labs</p>	<p><b>Workshop 5 KTH and ICES</b> 09:15 Linked-Data and OSLC for Tool Interoperability – A hands-on tutorial Workshop leaders: Jad El-Khoury, researcher at KTH, and Frederic Loiret, researcher at KTH and at OFFIS <i>Full Day Workshop Hands-on session , Limited seating</i></p>

**10:15-11:00 COFFEE**

**11:00-12:00**

<p><b>ARROWHEAD</b> <i>Continued</i></p>	<p><b>Software Quality</b> 11:00 Test Driven Development (TDD) in an Agile-programming environment Presenter: Jason Masters; Vector Software 11:30 5 ways to protect your software supply chain from hacks, quacks, and wrecks Presenter: Steve Howard; Rogue Wave Software</p>	<p><b>Debug</b> 11:00 Debugging beyond printf Presenter: Martin Gisbert; IAR Systems 11:30 Runtime visualization on ARM Cortex-M devices Presenter: Dr. Johan Kraft; Percepio AB</p>	<p><b>IoT Tutorials</b> <i>Continued</i> 11:00 IoT that really matter Presenter: Per-Erik Svensson; ublox</p>	<p><b>Workshop 5</b> <i>Continued</i></p>
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**12:10-13:20 LUNCH AND EXHIBITION**

**13:20-13:50 KEYNOTE PRESENTATION**

**The Internet of Things: Why is the promise taking so long to fulfil?**

Professor William Webb; CEO Weightless SIG and President IET

**14:00-15:00**

<p><b>ARROWHEAD</b> <i>Continued</i></p>	<p><b>Open Source</b> 14:00 Realising Efficient Industrial Linux Development Presenter: Kim Højgaard-Hansen; Prevas 14:30 Automotive Grade Android Driving Vehicle Connectivity Presenter: Björn Rudin; Combitech</p>	<p><b>HTML5 Tutorial</b> 14:00 HTML5 - a Real Option for Embedded Software User Experience Presenter: Joakim Hedenstedt and Tommi Leino; Movial</p>	<p><b>IoT Sensors/ Networks</b> 14:00 Technologies for Securing an NFV or IoT System in Embedded Linux Presenter: Iisko Lappalainen; Monta-Vista Software 14:30 ARM mbed for Things of Internet – Boosting the Internet and the Things Presenter: Jaakko Ala-Paavola; Espotel</p>	<p><b>Workshop 5</b> <i>Continued</i> <b>KTH and ICES</b> Attendees will develop OSLC-compliant tool adaptors, based on the OSLC4J <i>Hands-on session Limited seating</i></p>	<p><b>“Smartare Elektroniksystem”</b> 14:00 Multimillion program for electronics Learn more about this national multi-million program - how to get involved and participate Presenter: Magnus Svensson, Program Manager, Smartare Elektroniksystem 14:30 Nyfiken på Branschorganisationen Svensk Elektronik? Svensk Elektronik hjälper dig. På 30 min berättar vi hur. Presentatörer: Maria Månsson, ordförande, Lena Nordner, vd, Branschorganisationen Svensk Elektronik <i>(In Swedish)</i></p>
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**15:00-15:30 COFFEE**

**15:30-17:00**

<p><b>ARROWHEAD</b> <i>Continued</i></p>	<p><b>Open Source</b> <i>Continued</i> 15:30 The future of embedded networking nodes - an open approach to Network Function Virtualization Presenter: Daniel Forsgren; Enea 16:00 Axiom 4K open filmmaking camera - a success story of collaboration around open source Presenter: Michael Gielda; Antmicro 16:30 Tips and tricks for making the MinnowBoard an outstanding Embedded Platform Presenter: Berth-Olof Bergman; WinZent Technologies</p>	<p><b>Internet of Things</b> <i>Continued</i> 15:30 Edge to Enterprise – without the wires Presenter: Alastair Worth; Avnet Embedded 16:00 Testing and Tuning your Appcessories Presenter: Tom O Raghallaigh; Frontline 16:30 Bluetooth Low Energy Programming and the standard API Presenter: Lars Hamren; Svensk Datorutveckling</p>	<p><b>Workshop 5</b> <i>Continued</i></p>
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**17:00 END**

## SWEDSOFT STEW – NOVEMBER 3

Time	Activity
9:15	<b>Swedsoft – introduction and information</b>
09:35	<b>Visual GUI Testning – A new technology for a new SW Industry</b> Presenter: Emil Alégroth, Chalmers University
10:15	<b>COFFEE</b>
11:00	<b>Open Innovation through the Lens of Open Source Tools</b> Presenter: Hassan Munir / Johan Linåker, Lund University
11:30	<b>Value - Engineering it!</b> Presenter: Tony Gorschek, Blekinge Institute of Technology
12:00	<b>LUNCH</b>
13:20	<b>KEYNOTE</b>
14:00	<b>Emergent Configurations of Connected Systems</b> Presenter: Romina Spalazzese, Malmö University
14:30	<b>From Partial Evaluation to Symbolic Algebra</b> Presenter: Walid Taha , Halmstad University
15:00	<b>COFFEE</b>
15:30	<b>Intelligent Homes</b> Presenter: Wagner de Morais, Halmstad University
16:00-17:00	<b>Swedsoft Members Meeting</b>
17:00	<b>ECS INDUSTRY RECEPTION</b>
18:00	<b>THE EMBEDDED DINNER PARTY</b> – Note: Separate registration necessary. Tickets are SEK 595 plus VAT.

## ARROWHEAD – NOVEMBER 4

Time	Activity
9:15	<b>Arrowhead Framework: concepts and basic architecture</b> Presenter: Prof. Jerker Delsing; Lulea University of Technology
09:45	<b>Core services enabling local and global IoT clouds</b> Presenter: Pal Varga; AITIA International Inc
09:55	<b>Core services supporting smooth application creation</b> Presenter: Fredrik Blomstedt, BnearIT AB
10:15	<b>COFFEE</b>
11:00	<b>Arrowhead documentation system</b> Presenter: Prof. Luis Lino Ferreira; Polytechnic Institute of Porto
11:20	<b>SOA protocol transparency technology</b> Presenters: Iker Martinez De Soria Sanchez; TECNALIA and Hasan Derhamy; Lulea University of Technology
11:40	<b>Test tools ensuring application functionality and compliancy</b> Presenter: Per Olofsson, BnearIT AB
12:00	<b>LUNCH</b>
13:20-13:50	<b>KEYNOTE</b>
14:00	<b>Common architecture and services for energy cost optimization in multiple domains: manufacturing, lift/hoisting, and water distribution</b> Presenters: Chloé Desdouits and Claude Le Pape; Schneider Electric
14:20	<b>End to end security automotive test applications</b> Presenters: Andreas Aldrian; AVL and Thomas Rupprechter; Infineon Technologies Austria AG
14:40	<b>Automating the process of creating Arrowhead and IEC61850 compliant Adapters</b> Presenter: Aitor Urbietta; IK4-IKERLAN
15:00	<b>COFFEE</b>
15:30	<b>Arrowhead communication framework in electromobility domain</b> Presenters: Michele Ornato; CRF and Federico Montori; University of Bologna
15:50	<b>Dynamic operation and maintenance system</b> Presenter: Mika Karaila; Valmet Automation
16:10	<b>Integration of energy usage and energy production to an virtual market of energy</b> Presenters: Arne Skou; Aalborg University and Per D Pedersen; Neogrid
17:00-	<b>END</b>

## EXHIBITOR LIST

AAEON Europe	Halmstad University / CERES	Realtime Embedded
ACAL BFi Nordic	Hectronic	rt-labs
Accurate Nordic	IAR Systems	Rutronik Nordic
ACTE Solutions	Innodisk Corporation	S.E.E., Scandinavian Electronics Event
Antmicro	IT Centrum Väst	SICS
Arrowhead*	KTH ICES	SP Tekniska Forskningsinstitut
Avnet Memec-Silica/Avnet Embedded	Linear Technology	STMicroelectronics
BraMässor	Lynx Software Technologies	Swedsoft
Broadband Technology	M2M Summit Scandinavia	Svensk Elektronik
Combitech	Martinsson Elektronik	T2 Data
congatec	MathWorks	Testhouse Nordic
Data Modul	MontaVista Software	Tingco
Data Respons	More Electronics	Toshiba Electronics
Digi-Key Electronics	Mälardalens Real-Time Research Centre	Triacon Scientific
Elektronik i Norden	Nexus	Tritech Solutions
Elektronikkonsult	Nohau Solutions	Vector
Elektroniktidningen	Nortelco Electronics	Vector Software
Emenda Nordic AB	Option Wireless Technology	Verifysoft Technology
ENEA	Orcam Systems	Würth Elektronik
Farnell element14	ublox	Xelmo
Freescale Semiconductor	Umeå universitet	ÅF Technology
Garz & Fricke	Prevas	
Green Hills Software	Qamcom	



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<b>*Arrowhead – represented companies:</b>	AVL List GmbH	Ford Motor Company	Infineon Technologies Austria	Mondragon University	SKF
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ACCIONA Infraestructuras	BnearIT AB	High Speed Sustainable Manufacturing Institute	Luleå University of Techn.	PS-Tech B.V.	Teknologian tutkimuskeskus VTT
Aktiebolaget Elektronik-Konstruktion Innovation (Abelko)	CRF	Ikerlan S. Coop	Lyse Energi A/S	Schneider Electric industries SAS	THT Control OY
	EUROTECH SPA	INDRA Sistemas S.A.	Midroc Electro AB	SINTEF	University of Bologna
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*Exhibitor list as per September 4th, 2015. The list may be subject to change. We accept no responsibility for possible changes or printing errors. The organizers have reserved the right to abbreviate company names when deemed necessary.*

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## INFORMATION

**DATE** November 3-4, 2015

**VENUE** Kistamässan, Stockholm, Sweden

**ABOUT THE CONFERENCE** All sessions are free of charge, but pre-registration on [www.embeddedconference.se](http://www.embeddedconference.se) is mandatory. Please register and print out your badge in advance to save time onsite. Coffee and light lunch is free of charge to all visitors. The conference language is English. Please check signage onsite for the location of the different sessions.

**ABOUT THE EXHIBITION** Around 80 exhibitors from the embedded industry will showcase the latest news and products. They include top international suppliers, universities and the nominated companies and students of the Swedish Embedded Award. The exhibition is free of charge and no further registration than to the conference sessions is needed (please see above).

**STEW** – Software Technology Exchange Workshop – The fourth edition of STEW, organized by Swedsoft, will be held in parallel with ECS on November 3. For further information please visit [www.swedsoft.se](http://www.swedsoft.se)

**ARROWHEAD** – The Arrowhead track will be presented on November 4. For further information please visit [www.arrowhead.eu](http://www.arrowhead.eu)

### EXHIBITION OPENING TIMES

Tuesday, November 3: 09:00-17:00  
 Industry Reception: 17:00-18:00  
 Embedded Dinner Party: 18:00-22:00 (SEK 595 plus VAT)  
 Wednesday, November 4: 09:00-16:00

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