PRESS RELEASE

MISRA C Chair to announce new revision and amendment at Embedded World

MISRA will announce the availability of new revision of their world-leading MISRA C guidelines as part of stream of events at the Embedded World exhibition in Germany.

The MISRA consortium will present eight events on the first day of the prestigious three day conference in Nürnberg.

Andrew Banks, Chairman of the MISRA C Working Group, will host a Situation Report from the MISRA Consortium in which he will discuss recent activities and the future road map. He will also announce the availability of two enhancements to MISRA C.

The MISRA C:2012 3rd Edition (1st Revision) will consolidate the 2012 edition with Amendment 1 (Additional Security Guidelines) that was published in 2016, and the 2017 Technical Corrigendum 1.

MISRA C:2012 Amendment 2 – C11 Core - represents the first in a series of amendments that will extend MISRA C to address issues of concern with the 2011 and 2018 editions of the C Standard.

Beyond the Amendment 2 announcement, the road map will outline a series of incremental updates to MISRA C:2012 and the start of a review of the Standard Library with a view to establishing a more focused targeting of problem areas.

Banks, who will chair the stream of MISRA events, said, "Having this stream at Embedded World highlights shows the importance of MISRA C and C++ guidelines to the wider embedded community."

"If you take the 2012 MISRA C guidelines, for example, there are some 236 pages of rules, explanations of rules, and appendices explaining underlying concepts relating to those rules – and that is before the subsequent security amendments. By consolidating the recent work, we are providing a single point of reference, while also encouraging the adoption of the MISRA Compliance guidance."

"This consolidated volume also provides a base for the new guidance for C11/C18, as these newer versions of the C language are adopted by industry."

The events follow the January announcement that the MISRA consortium would be integrating AUTOSAR C++ coding guidelines into an updated industry standard for best practice in C++.

Notes to editors

For more information, or to arrange an interview with Andrew Banks, contact Luke Harrison on luke@lhcomms.com, or (44)7792 051739.

For more information on the January announcement on C++ guidelines, view the press release dated Tuesday 29 January 2019.

About MISRA

MISRA is a collaboration between manufacturers, component suppliers and engineering consultancies which seeks to promote best practice in developing safety and security-related electronic systems and other software-intensive applications.

The MISRA consortium was conceived in the early 1990s as a project in the UK government's 'SafeIT' programme to develop guidelines for embedded software in road vehicle electronic systems. Membership now consists of members from other industries in the safety-related embedded systems world, alongside automotive companies.

MISRA C was a landmark project that has since gone on to become the de facto standard for embedded C programming in the majority of safety-related industries.

The MISRA members at present are (in alphabetical order):

- Bentley Motor Cars
- Delphi Diesel Systems
- Ford Motor Company
- Jaguar Land Rover
- HORIBA MIRA
- Protean Electric
- Ricardo UK
- University of Leeds
- Visteon Engineering Services
- ZF TRW

MISRA Stream events

Date: 26 February 2019
Location: Conference Counter NCC Ost

10:30 AM-11:00 AM
The MISRA C Coding Standard: A Key Enabler for the Development of Safety- and Security-Critical Embedded Software
Prof. Dr. Roberto Bagnara - BUGSENG & University of Parma

11:30 AM-12:00 PM
MISRA C/C++ Situation Report
Andrew Banks - LDRA Limited

12:00 PM-12:30 PM
Writing Reliable Code with MISRA C
Colin Walls - Mentor, A Siemens Business

2:30 PM-3:00 PM
Using MISRA C/C++ for Security and Reliability
Greg Davis - Green Hills Software GmbH

3:00 PM-3:30 PM
Avoiding Unsafe and Insecure Complex Software
Mark Richardson - LDRA Limited

4:00 PM-4:30 PM
Why Coding Standards and Implementing MISRA-C

Chris Hills - Phaedrus Systems

4:30 PM-5:00 PM
[How Far Can You Trust Your Compiler?](#)
Mark Pitchford - LDRA Limited

5:00 PM-5:30 PM
[Approaches for Improving Handling of Static Analysis Findings](#)
Dr. Claude Bolduc - Rogue Wave Software