

N2073



MISRA C – WG14 Liaison Report

WG14 Meeting, Pittsburg

17th-21st October 2016

Andrew Banks

BSc IEng MIET FBCS CITP

Frazer-Nash Research Limited, and
Chairman, MISRA C Working Group



MISRA C Chairman's Comments



MISRA C Chairman's Comments

- A quick “Thank You” for the warm welcome I received at the London meeting, and to be able to put faces to names.
- My apologies for not getting back later in the week
- And my apologies for not making it across the Pond this time

Andrew
MISRA C Chairman



MISRA C

Where are we now?



■ ISO/IEC 17961:2013 – C Secure

- MISRA C:2012 Addendum 2 (Matrix against ISO/IEC 17691:2013)
 - Issued (in April 2016) as a standalone PDF report ([click here to download](#))
 - Feedback and comments welcome
 - Will be up-issued shortly to reflect Amendment 1

- MISRA C:2012 Amendment 1
 - Adds 14 number new targetted Guidelines to cover gaps in coverage.
 - Mostly these are in areas of the *hosted* Standard Library that MISRA C has traditionally not considered.
 - Issued (in April 2016) as a standalone PDF ([click here to download](#))

MISRA C SitRep (2)



■ MISRA Compliance 2016

- Provides enhanced guidance on the *process* of complying with the MISRA language guidelines, especially in the documentation of *deviations*.
- Issued (in April 2016) as a standalone PDF ([click here to download](#))

■ Bulletin Board Questions (and other feedback)

- MISRA C:2012 Technical Corrigendum 1
 - To be issued as a standalone PDF
 - At final committee review – publication expected October 2016 (TBC)

MISRA C SitRep (3)



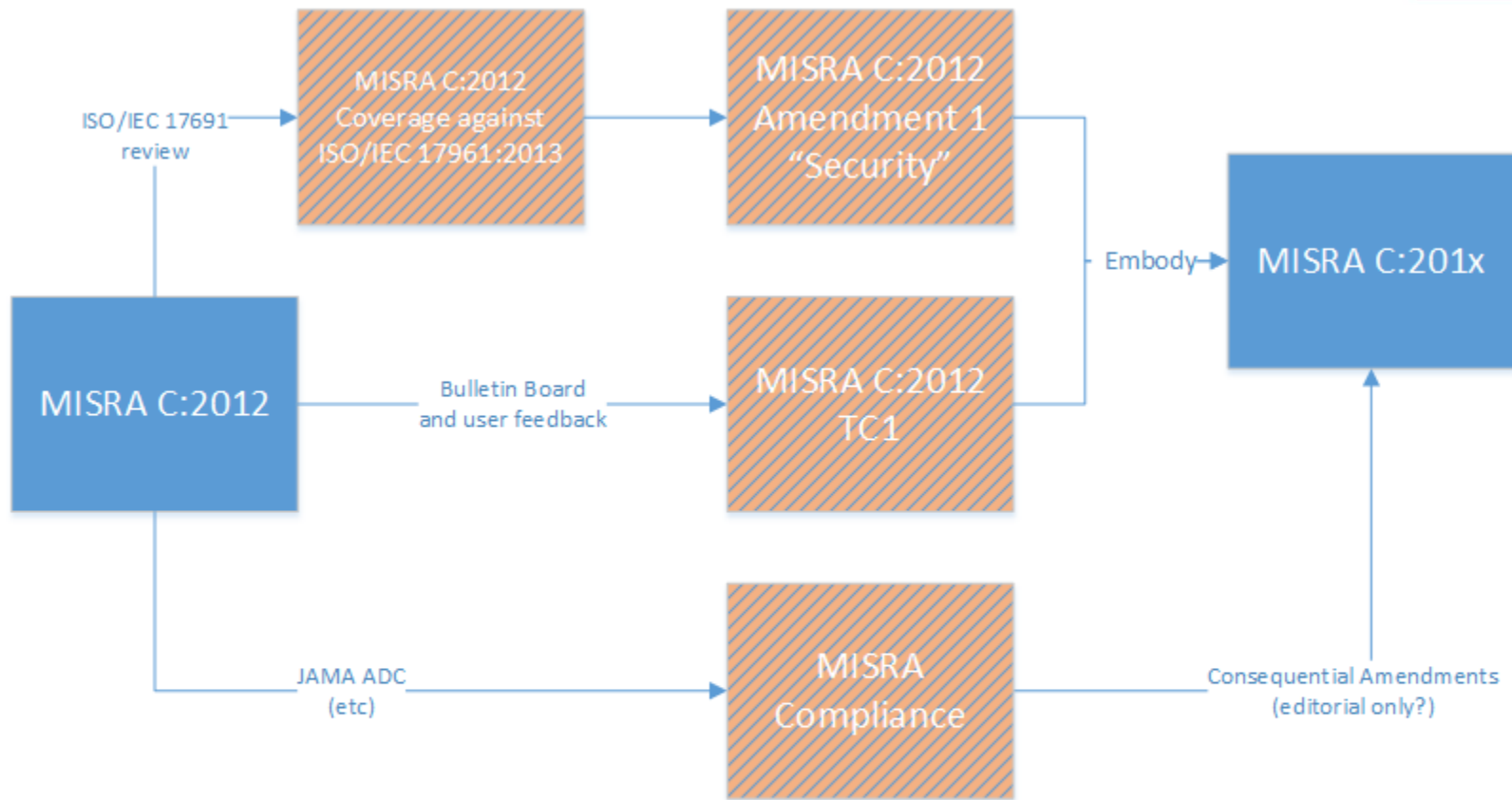
■ CERT-C

- MISRA C:2012 Addendum 3 (Matrix against CERT-C)
 - Work in progress...
 - Will be shared with WG14 (and CERT) when appropriate
 - No plans to directly incorporate CERT-C into MISRA C

MISRA C – Next Steps



- **Proposal: To publish consolidated Core Document as MISRA C:201x**
- To consolidate:
 - MISRA C:2012
 - Technical Corrigendum 1
 - Amendment 1 (Security)
- To reference:
 - MISRA Compliance 2016
- Expected: 2017 (TBC)



Published

**To publish
(as PDF only?)**

Consolidate?

MISRA C – What Next?



■ Review of C99

- Review of the C99 rules, in particular where a more targeted approach is possible, and appropriate.

■ C11 new features

- Review of new features for undesirable behaviours
 - Undefined
 - Unspecified
 - Implementation Defined
 - etc
- Propose a series of Focussed Amendments
- Timeline TBC