Khronos SCAP Guidelines v0.01

Khronos Safety Critical API Development Guidelines (Provisional)

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Documents: 1 of 3

Khronos Safety Critical Advisory Panel (SCAP)

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1. Acknowledgements

Safety Critical API Development guidelines, requirements and ??? (doc 3) is the result of the contributions of many people, representing a cross section of the safety critical software development community in a range of industries. Following is a partial list of the contributors, including the company that they represented as the time of their contribution:

Chairman

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Khronos members:

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- Steve Ramm, Imagination Technologies
- Steve Viggers, Core Avionics
- Tom Mainar, Core Avionics

Up-to-date HTML and PDF versions of this specification may be found at the https://www.khronos.org/registry/scap

2. Document Change History

List of the changes that have occurred between one or more releases.

Revision	Date	Changes
0.01	2017-01-09	Initial Asciidoc document layout
1.0	???	First revision

3. Introduction

Some introduction text.

4. Overview

Some Khronos SCAP overview text

The SCAP is an IP free zone. Information, principles, requirements and guidelines are about safety critical specifications in general. SCAP do not discuss anything that may contain intellectual property or have IP implications in the SCAP. Implementation details belong in other Khronos working groups.

4.1. Khronos SCAP document usage

An implement of a Khronos SC API standard which passes its appropriate Khronos conformant tests should not be taken that the SC implementation in question has meet all the requirements for its specific usage. The Khronos conformant tests only show the implementation has reached a specified standard of accuracy and behaviour required for Khronos approval.

4.2. Glossary

List of terms or definitions used within this document.

Term	Description
API	Application program interface
RTOS	Real time operating system
SC	Safe Critical
SCAP	Safe Critical API Panel

5. Guidelines

Some text about guidelines in general. Refer to the rider statement.

5.1. Guidelines list

The following is a list of all the SCAP guidelines when considering designing and implementing a SC API.

Guideline	Description
1	List of SC RTOS and their unique features
2	Memory management
3	Conformance testing
4	xxxxx
5	xxxxxx

1 List of SC RTOS and their unique features

Some text about RTOS

2 Memory Management

Some text about memory management in a safety critical context

3 Conformance Testing

It is not the intent for Khronos conformance tests for Safety Critical technologies to used or supplied for certification testing. The intent for the Khronos conformance tests are to test the implementations conformance with the specification in order to ensure that all implementations share the same contract with the application and thereby avoid industry fragmentation through different behavior for the same function.

Please read the guideline statement.

6. Appendices

6.1. Appendix A - Additional information in detail

Appendix A.1

Some information in more details perhaps some diagrams.

6.2. Appendix B - More additional information in detail

Appendix B.1

Some more information in more details perhaps some diagrams.