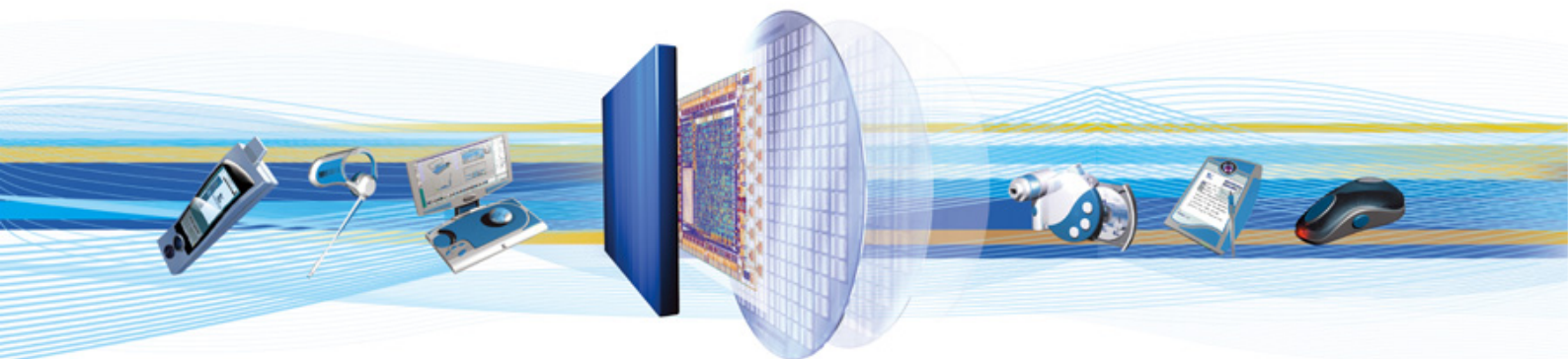# CSR Synergy Framework 3.1.0

Exception

API Description

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Cambridge Silicon Radio Limited

Churchill House
Cambridge Business Park
Cowley Road
Cambridge   CB4 0WZ
United Kingdom

Registered in England and Wales 3665875

Tel: +44 (0)1223 692000
Fax: +44 (0)1223 692001
www.csr.com

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1   Introduction

The exception handling mechanism may be seen as a debugging facility for trapping unexpected behaviour. As opposed to the panic handling mechanism intended for handling of unexpected behaviours in running production code. Use of the exception handling interface can be compiled away from all Synergy code by defining the `EXCLUDE_CSR_EXCEPTION_HANDLER_MODULE` symbol. Thus, the exception handling interface is not mandatory to port.

The exception handling API must be contained in the file `csr_exceptionhandler.h`.

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2 Exception API

2.1 CsrStateEventExceptionWithInfo

Prototype

```
void CsrStateEventExceptionWithInfo(char *theTask,
                                    CsrUint16 theEventClass,
                                    CsrUint16 theType,
                                    CsrUint16 theState,
                                    const char *theFile,
                                    CsrUint32 theLine);
```

Description

Generate a state event type exception.

Parameters

Type	Argument	Description
char*	theTask	Task info.
CsrUint16	theEventClass	Event class in state event handler.
CsrUint16	theType	Type of event.
CsrUint16	theState	State in state event handler.
const char*	theFile	__FILE__
CsrUint32	theLine	__LINE__

Returns

None.

2.2 CsrGeneralExceptionWithInfo

Prototype

```
void CsrGeneralExceptionWithInfo(char *theTask,
                                 CsrUint16 theState,
                                 CsrPrim thePrimType,
                                 const char *theText,
                                 const char *theFile,
                                 CsrUint32 theLine);
```

Description

Generate a general type exception.

Parameters

Type	Argument	Description
char*	theTask	Task info.
CsrUint16	theState	State info.
CsrUint16	thePrimType	Primitive type.

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Type	Argument	Description
CsrUint16	theText	Exception text.
const char*	theFile	__FILE__
CsrUint32	theLine	__LINE__

Returns

None.

2.3   CsrGeneralWarningWithInfo

Prototype

```
void CsrGeneralWarningWithInfo(char *theTask,
                              CsrUint16 theState,
                              CsrPrim theprimType,
                              const char *theText,
                              const char *theFile,
                              CsrUint32 theLine);
```

Description

Generate a general type warning.

Parameters

Type	Argument	Description
char*	theTask	Task info.
CsrUint16	theState	State info.
CsrUint16	thePrimType	Primitive type.
CsrUint16	theText	Exception text.
const char*	theFile	__FILE__
CsrUint32	theLine	__LINE__

Returns

None.

3 Document References

Ref	Title

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Terms and Definitions

Abbreviation	Explanation
CSR	Cambridge Silicon Radio

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Document History

Revision	Date	History
1	19 OCT 08	First draft version
2	30 NOV 09	Ready for release 2.0.0
3	20 APR 10	Ready for release 2.1.0
4	OCT 10	Ready for release 2.2.0
5	DEC 10	Ready for release 3.0.0
6	Aug 11	Ready for release 3.1.0

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