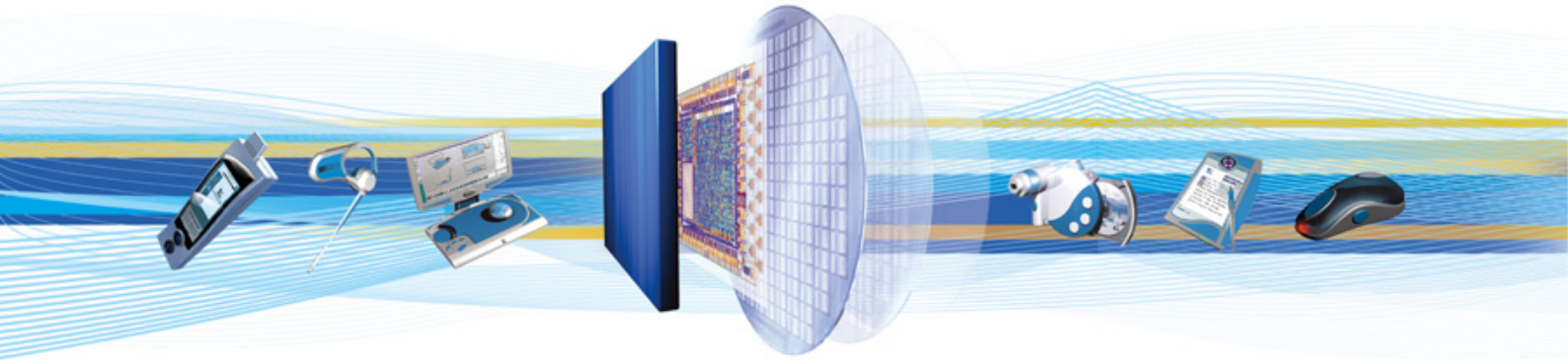
CSR Synergy Framework 3.1.0

Formatted IO

API Description

August 2011



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1 Introduction

This document describes the functionality and interface provided by the CSR Synergy Framework Formatted IO API.

The Formatted IO API consists of a single function that does formatted text string output.

2 Formatted IO

The Formatted IO API depends on the csr_util.h interface that is ported as part of a BSP.

2.1 Interface declaration

To use the API, the csr_formatted_io.h header must be included.

Synopsis

```
#include "csr_formatted_io.h"
```

2.2 CsrSnprintf

Prototype

```
#include "csr_formatted_io.h"

CsrInt32 CsrSnprintf(CsrCharString *dest,
    CsrSize n,
    const CsrCharString *fmt,
    ...);
```

Description

This function provides formatted string output into a character buffer, guaranteeing zero-termination of the target buffer.

Parameters

Type	Argument	Description
`CsrCharString *`	`dest`	The destination buffer.
`CsrSize`	`n`	The size in bytes of the destination buffer.
`const CsrCharString *`	`fmt`	The output format string.
	…	Output arguments.

Returns

If an output formatting error is encountered, -1 is returned. Otherwise, the return value is the number of characters that would have been output, assuming there was infinite buffer space. This can be used for detecting truncation by checking if the return value is larger than the buffer size given.

3 Document References

Ref	Title

Terms and Definitions

Abbreviation	Explanation
CSR	Cambridge Silicon Radio

Document History

Revision	Date	History
1	1 July 2010	Initial released version
2	OCT 2010	Ready for release 2.2.0
3	DEC 2010	Ready for release 3.0.0
4	Aug 2011	Ready for release 3.1.0

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