

OpenClovis Software Development Kit (SDK) Service Description and API Reference for CheckSum Management Service

For OpenClovis SDK Release 2.3 V0.4 Document Revision Date: March 08, 2007

Copyright © 2007 OpenClovis Inc.

All rights reserved

This document contains proprietary and confidential information of OpenClovis Inc., and may not be used, modified, copied, reproduced, disclosed or distributed in whole or in part except as authorized by OpenClovis Inc. This document is intended for informational use and planning purposes only. All planned features, specifications, and content are subject to change without notice.

Third-Party Trademarks

Sun, Sun Microsystems, and Java are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries. UNIX is a registered trademark of The Open Group. Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries. CLEI is a trademark of Telcordia Technologies, Inc. Adobe, Acrobat, and Acrobat Reader are registered trademarks of Adobe Systems, Inc. All other trademarks, service marks, product names, or brand names mentioned in this document are the property of their respective owners.

Government Use

Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in FAR 12.212 (Commercial Computer Software-Restricted Rights) and DFAR 227.7202 (Rights in Technical Data and Computer Software), as applicable.

Note: This document is not subject of the GPL license, even if you have obtained this document as a part of the GPL-ed version of OpenClovis SDK.

Contents

| 1 | Functional Overview 1.1 Interaction with other components | | | | |
|---|--|----------------|-----|--|---|
| | | | | | 2 |
| 3 | Service APIs | | | | |
| | 3.0.1 clCk | sm16bitCompute | . 5 | | |
| | 3.0.2 clCk | sm32bitCompute | . 6 | | |
| 4 | Service Management Information Model | | | | |
| 5 | Service Notifications | | | | |
| 6 | Debug CLIs | | | | |

Functional Overview

The OpenClovis CheckSum library provides a set of APIs for computing the CheckSum on the input byte stream. The computation can be done for a 16-bit or a 32-bit number, depending on the need of the application.

1.1 Interaction with other components

This component is used by all the components of ASP, as well as the application that needs the CheckSum of some data.

Service Model

Service APIs

3.0.1 clCksm16bitCompute

clCksm16bitCompute

Synopsis:

Computes a 16-bit CheckSum.

Header File:

clCksmApi.h

Syntax:

Parameters:

pData: (in) Data for which CheckSum is being computed. This must be a valid pointer and cannot be NULL.

length: (in) Length of the data for which the CheckSum is to be computed.

pCheckSum: (out) Location where the computed CheckSum is stored. This must be a valid pointer and cannot be NULL.

Return values:

CL_OK: The function executed successfully.

CL_ERR_NULL_POINTER: pData or pCheckSum contains a NULL pointer.

Description:

This function is used to compute a 16-bit CheckSum.

Library File:

libClUtils

Related Function(s):

clCksm32bitCompute

3.0.2 clCksm32bitCompute

clCksm32bitCompute

Synopsis:

Computes a 32-bit CheckSum.

Header File:

clCksmApi.h

Syntax:

Parameters:

pData: (in) Data for which CheckSum is being computed. This must be a valid pointer and cannot be NULL.

length: (in) Length of the data for which the checksum is to be computed.

pCheckSum: (out) Location where the computed CheckSum is stored. This must be a valid pointer and cannot be NULL.

Return values:

CL_OK: The function executed successfully.

CL_ERR_NULL_POINTER: pData or pCheckSum contains a NULL pointer.

Description:

This function is used to compute a 32-bit CheckSum.

Library File:

libClUtils

Related Function(s):

clCksm16bitCompute

Service Management Information Model

CHAPTER 4. SERVICE MANAGEMENT INFORMATION MODEL

Service Notifications

Debug CLIs

Index

clCksm16bitCompute, 5 clCksm32bitCompute, 6