CEN

CWA 16008-7

## WORKSHOP

August 2009

## **AGREEMENT**

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#### English version

## J/eXtensions for Financial Services (J/XFS) for the Java Platform - Release 2009 - Part 7: Alarm Device Class Interface -Programmer's Reference

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#### **Foreword**

This CWA contains the specifications that define the J/eXtensions for Financial Services (J/XFS) for the Java TM Platform, as developed by the J/XFS Forum and endorsed by the CEN J/XFS Workshop. J/XFS provides an API for Java applications which need to access financial devices. It is hardware independent and, by using 100% pure Java, also operating system independent.

The CEN J/XFS Workshop gathers suppliers (among others the J/XFS Forum members), service providers as well as banks and other financial service companies. A list of companies participating in this Workshop and in support of this CWA is available from the CEN Secretariat, and at

http://www.cen.eu/cenorm/sectors/sectors/isss/activity/jxfs\_membership.asp. The specification was agreed upon by the J/XFS Workshop Meeting of 2009-05-6/9 in Brussels, and the final version was sent to CEN for publication on 2009-06-12.

The specification is continuously reviewed and commented in the CEN J/XFS Workshop. The information published in this CWA is famished for informational purposes only. CEN makes no warranty expressed or implied, with respect to this document. Updates of the specification will be available from the CEN J/XFS Workshop public web pages perding their integration in a new version of the CWA (see <a href="http://www.cen.eu/cenorm/sectors/isss/activity/jxfs\_cwas.asp">http://www.cen.eu/cenorm/sectors/isss/activity/jxfs\_cwas.asp</a>).

The J/XFS specifications are now further developed in the CEN J/XFS Workshop. CEN Workshops are open to all interested parties offering to contribute. Parties interested in participating and parties wanting to submit questions and comments for the J/XFS specifications, please contact the J/XFS Workshop Secretariat hosted in CEN (jxfs-helpdesk@cen.eu).

Questions and comments can also be submittened the members of the J/XFS Forum through the J/XFS Forum web-site <a href="http://www.jxfs.net">http://www.jxfs.net</a>.

This CWA is composed of the following parts:

- Part 1: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Base Architecture Programmer's Reference
- Part 2: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Pin Keypad Device Class Interface Programmer's Reference
- Part 3: J/eXtensions for Financial Services (J/XFS) for the Yay Platform Release 2009 Magnetic Stripe & Chip Card Device Class Interface Programmer's Reference
- Part 4: J/eXtensions for Financial Services (J/XFS) for the Java Parform Release 2009 Text Input/Output Device Class Interface Programmer's Reference
- Part 5: J/eXtensions for Financial Services (J/XFS) for the Java Platford, Release 2009 Cash Dispenser, Recycler and ATM Device Class Interface Programmer's Reference
- Part 6: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Printer Device Class Interface Programmer's Reference
- Part 7: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Alarm Device Class Interface - Programmer's Reference
- Part 8: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Sensors and Indicators Unit Device Class Interface - Programmer's Reference
- Part 9: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Repository Device Class Interface - Programmer's Reference
- Part 10: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Check Reader/Scanner Device Class Interface - Programmer's Reference (deprecated in favour of Part 13)
- Part 11: J/eXtensions for Financial Services (J/XFS) for the Java Platform Camera Device Class Interface -Programmer's Reference
- Part 12: J/eXtensions for Financial Services (J/XFS) for the Java Platform Release 2009 Vendor Dependant Mode Specification - Programmer's Reference
- Part 13: J/eXtensions for Financial Services (J/XFS) for the Java Platform Scanner Device Class Interface
   Programmer's Reference (recommended replacement for Part 10)

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Comments or suggestions from the users of the CEN Workshop Agreement are welcome and should be addressed to the CEN Management Centre.

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### **History**

Main differences to CWA 14923:2004 are:

- Numerical values for constants specified.
- Property alarmStatus added to the IJxfsAlarmControl interface.
- New support classes: JxfsAlarmStatus, JxfsAlarmStatusEnum and JxfsALMStatusSelectorEnum.
- New status event: *JXFS\_S\_ALM\_ALARM*.

Main diff.
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### 2 Scope

This document describes the Alarm device classes based on the basic architecture of J/XFS which is similar to the JavaPOS architecture. It is event driven and asynchronous.

Three basic levels are defined in JavaPOS. For J/XFS this model is extended by a communication layer, which provides device communication that allows distribution of applications and devices within a network. So we have the following layers in J/XFS:

Application
Device Control and Manager
Device Communication
Inevice Service

Application developers program against control objects and the Device Manager which reside in the Device Control Layer. This is the usual interface between applications and J/XFS Devices. Device Control Objects access the Device Manager to find an associated Device Service. Device Service Objects provide the functionality to access the real device (i.e. like a device driver).

During application startup the Device Manager is responsible for locating the desired Device Service Object and attacking this to the requesting Device Control Object. Location and/or routing information for the Device Manager reside in a central repository.

For Alarm Devices the basic Pavice Control class is extended with a method specific to this device which is described on the following pages.

#### 3 Overview

The Alarm device is used to notify users, devices and other interested parties of security violations. The notification mechanism used by alarm devices to signal such events are device and manufacturer dependent.

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