

SLOVENSKI STANDARD SIST CWA 16926-13:2023

01-marec-2023

Specifikacija vmesnika razširitev za finančne storitve (XFS), izdaja 3.50 - 13. del: Vmesnik razreda alarmnih naprav - Referenca za programerje

Extensions for Financial Services (XFS) interface specification Release 3.50 - Part 13: Alarm Device Class Interface - Programmer's Reference

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST CWA 16926-13:2023

Ta slovenski standard je istoveten z: CWA 16926-13:2022

ICS:

35.200	Vmesniška in povezovalna oprema	Interface and interconnection equipment
35.240.15	Identifikacijske kartice. Čipne kartice. Biometrija	Identification cards. Chip cards. Biometrics
35.240.40	Uporabniške rešitve IT v bančništvu	IT applications in banking

SIST CWA 16926-13:2023 en,fr,de

SIST CWA 16926-13:2023

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST CWA 16926-13:2023

https://standards.iteh.ai/catalog/standards/sist/36e8c946-08dd-4b80-9967-a42865d379d6/sist

CEN

CWA 16926-13

WORKSHOP

December 2022

AGREEMENT

ICS 35.200; 35.240.15; 35.240.40

English version

Extensions for Financial Services (XFS) interface specification Release 3.50 - Part 13: Alarm Device Class Interface - Programmer's Reference

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties, the constitution of which is indicated in the foreword of this Workshop Agreement.

The formal process followed by the Workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN-CENELEC Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

This CEN Workshop Agreement can in no way be held as being an official standard developed by CEN and its Members.

This CEN Workshop Agreement is publicly available as a reference document from the CEN Members National Standard Bodies.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Table of Contents

Euro	pean Foreword	3
1.	Introduction	7
1.	1 Background to Release 3.50	7
1.2	2 XFS Service-Specific Programming	7
2.	Alarms	9
3.	References	10
4.	Info Commands	11
4.	1 WFS_INF_ALM_STATUS	11
4.2	2 WFS_INF_ALM_CAPABILITIES	13
5.	Execute Commands	14
5.	1 WFS_CMD_ALM_SET_ALARM	14
5.2	2 WFS_CMD_ALM_RESET_ALARM	15
5.3		
5.4	4 WFS_CMD_ALM_SYNCHRONIZE_COMMAND	17
6.	Events (standards iteh ai)	18
6.	· · · · · · · · · · · · · · ·	
6.2		19
http 7.	os://standards.iteh.ai/catalog/standards/sist/36e8c946-08dd-4b80-9967-a42865d379d6/sist- C - Header file	

European Foreword

This CEN Workshop Agreement has been developed in accordance with the CEN-CENELEC Guide 29 "CEN/CENELEC Workshop Agreements – The way to rapid consensus" and with the relevant provisions of CEN/CENELEC Internal Regulations - Part 2. It was approved by a Workshop of representatives of interested parties on 2022-11-08, the constitution of which was supported by CEN following several public calls for participation, the first of which was made on 1998-06-24. However, this CEN Workshop Agreement does not necessarily include all relevant stakeholders.

The final text of this CEN Workshop Agreement was provided to CEN for publication on 2019-11-18. The following organizations and individuals developed and approved this CEN Workshop Agreement:

- AURIGA SPA
- CIMA SPA
- DIEBOLD NIXDORF SYSTEMS GMBH
- FIS BANKING SOLUTIONS UK LTD (OTS)
- FUJITSU TECHNOLOGY SOLUTIONS
- GLORY LTD
- GRG BANKING EQUIPMENT HK CO LTD
- HYOSUNG TNS INC (standards.iteh.ai)
- JIANGSU GUOGUANG ELECTRONIC INFORMATION TECHNOLOGY
- SIST CWA 16926-13:2023
- https://standards.iteh.ai/catalog/standards/sist/36e8c946-08dd-4b80-9967-a42865d379d6/sist-
- KEBA HANDOVER AUTOMATION GMBH 6926-13-2023
- NCR FSG
- NEXUS SOFTWARE
- OBERTHUR CASH PROTECTION
- OKI ELECTRIC INDUSTRY SHENZHEN
- SALZBURGER BANKEN SOFTWARE
- SECURE INNOVATION
- SIGMA SPA

It is possible that some elements of this CEN/CWA may be subject to patent rights. The CEN-CENELEC policy on patent rights is set out in CEN-CENELEC Guide 8 "Guidelines for Implementation of the Common IPR Policy on Patents (and other statutory intellectual property rights based on inventions)". CEN shall not be held responsible for identifying any or all such patent rights.

The Workshop participants have made every effort to ensure the reliability and accuracy of the technical and non-technical content of CWA 16926-13, but this does not guarantee, either explicitly or implicitly, its correctness. Users of CWA 16926-13 should be aware that neither the Workshop participants, nor CEN can be held liable for damages or losses of any kind whatsoever which may arise from its application. Users of CWA 16926-13 do so on their own responsibility and at their own risk.

- The CWA is published as a multi-part document, consisting of:
- Part 1: Application Programming Interface (API) Service Provider Interface (SPI) Programmer's Reference
- Part 2: Service Classes Definition Programmer's Reference
- Part 3: Printer and Scanning Device Class Interface Programmer's Reference
- Part 4: Identification Card Device Class Interface Programmer's Reference
- Part 5: Cash Dispenser Device Class Interface Programmer's Reference
- Part 6: PIN Keypad Device Class Interface Programmer's Reference
- Part 7: Check Reader/Scanner Device Class Interface Programmer's Reference
- Part 8: Depository Device Class Interface Programmer's Reference
- Part 9: Text Terminal Unit Device Class Interface Programmer's Reference
- Part 10: Sensors and Indicators Unit Device Class Interface Programmer's Reference
- Part 11: Vendor Dependent Mode Device Class Interface Programmer's Reference
- Part 12: Camera Device Class Interface Programmer's Reference
- Part 13: Alarm Device Class Interface Programmer's Reference
- Part 14: Card Embossing Unit Device Class Interface Programmer's Reference
- Part 15: Cash-In Module Device Class Interface Programmer's Reference
- Part 16: Card Dispenser Device Class Interface Programmer's Reference
- Part 17: Barcode Reader Device Class Interface Programmer's Reference
- Part 18: Item Processing Module Device Class Interface Programmer's Reference
- Part 19: Biometrics Device Class Interface Programmer's Reference
- Parts 20 28: Reserved for future use.
- Parts 29 through 47 constitute an optional addendum to this CWA. They define the integration between the SNMP standard and the set of status and statistical information exported by the Service Providers.
- Part 29: XFS MIB Architecture and SNMP Extensions Programmer's Reference
- Part 30: XFS MIB Device Specific Definitions Printer Device Class
- Part 31: XFS MIB Device Specific Definitions Identification Card Device Class
- Part 32: XFS MIB Device Specific Definitions Cash Dispenser Device Class
- Part 33: XFS MIB Device Specific Definitions PIN Keypad Device Class
- Part 34: XFS MIB Device Specific Definitions Check Reader/Scanner Device Class
- Part 35: XFS MIB Device Specific Definitions Depository Device Class
- Part 36: XFS MIB Device Specific Definitions Text Terminal Unit Device Class
- Part 37: XFS MIB Device Specific Definitions Sensors and Indicators Unit Device Class
- Part 38: XFS MIB Device Specific Definitions Camera Device Class
- Part 39: XFS MIB Device Specific Definitions Alarm Device Class
- Part 40: XFS MIB Device Specific Definitions Card Embossing Unit Class
- Part 41: XFS MIB Device Specific Definitions Cash-In Module Device Class
- Part 42: Reserved for future use.
- Part 43: XFS MIB Device Specific Definitions Vendor Dependent Mode Device Class
- Part 44: XFS MIB Application Management
- Part 45: XFS MIB Device Specific Definitions Card Dispenser Device Class
- Part 46: XFS MIB Device Specific Definitions Barcode Reader Device Class

- Part 47: XFS MIB Device Specific Definitions Item Processing Module Device Class
- Part 48: XFS MIB Device Specific Definitions Biometrics Device Class
- Parts 49 60 are reserved for future use.
- Part 61: Application Programming Interface (API) Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Service Provider Interface (SPI) Programmer's Reference
- Part 62: Printer and Scanning Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 63: Identification Card Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 64: Cash Dispenser Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 65: PIN Keypad Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 66: Check Reader/Scanner Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 67: Depository Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 68: Text Terminal Unit Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 69: Sensors and Indicators Unit Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 70: Vendor Dependent Mode Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 71: Camera Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 72: Alarm Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 73: Card Embossing Unit Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 74: Cash-In Module Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 75: Card Dispenser Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 76: Barcode Reader Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 77: Item Processing Module Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 78: Biometric Device Class Interface Migration from Version 3.40 (CWA 16296:2020) to Version 3.50 (this CWA) Programmer's Reference

In addition to these Programmer's Reference specifications, the reader of this CWA is also referred to a complementary document, called Release Notes. The Release Notes contain clarifications and explanations on the CWA specifications, which are not requiring functional changes. The current version of the Release Notes is available online from: https://www.cencenelec.eu/areas-of-work/cen-sectors/digital-society-cen/cwa-download-area/.

The information in this document represents the Workshop's current views on the issues discussed as of the date of publication. It is provided for informational purposes only and is subject to change without notice. CEN makes no warranty, express or implied, with respect to this document.

Revision History:

3.00	October 18, 2000	Initial Release.
3.10	November 29, 2007	For a description of changes from version 3.00 to version 3.10 see the ALM 3.10 Migration document.
3.20	March 2, 2011	For a description of changes from version 3.10 to version 3.20 see the ALM 3.20 Migration document.
3.30	March 19, 2015	For a description of changes from version 3.20 to version 3.30 see the ALM 3.30 Migration document.
3.40	December 06, 2019	For a description of changes from version 3.30 to version 3.40 see the ALM 3.40 Migration document.
3.50	November 18, 2022	For a description of changes from version 3.40 to version 3.50 see the ALM 3.50 Migration document.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST CWA 16926-13:2023

https://standards.iteh.ai/catalog/standards/sist/36e8c946-08dd-4b80-9967-a42865d379d6/sist-cwa-16926-13-2023

1. Introduction

1.1 Background to Release 3.50

The CEN/XFS Workshop aims to promote a clear and unambiguous specification defining a multi-vendor software interface to financial peripheral devices. The XFS (eXtensions for Financial Services) specifications are developed within the CEN (European Committee for Standardization/Information Society Standardization System) Workshop environment. CEN Workshops aim to arrive at a European consensus on an issue that can be published as a CEN Workshop Agreement (CWA).

The CEN/XFS Workshop encourages the participation of both banks and vendors in the deliberations required to create an industry standard. The CEN/XFS Workshop achieves its goals by focused sub-groups working electronically and meeting quarterly.

Release 3.50 of the XFS specification is based on a C API and is delivered with the continued promise for the protection of technical investment for existing applications. This release of the specification extends the functionality and capabilities of the existing devices covered by the specification:

- Addition of E2E security
- PIN Password Entry.

1.2 XFS Service-Specific Programming

The service classes are defined by their service-specific commands and the associated data structures, error codes, messages, etc. These commands are used to request functions that are specific to one or more classes of Service Providers, but not all of them, and therefore are not included in the common API for basic or administration functions.

When a service-specific command is common among two or more classes of Service Providers, the syntax of the command is as similar as possible across all services, since a major objective of XFS is to standardize function codes and structures for the broadest variety of services. For example, using the **WFSExecute** function, the commands to read data from various services are as similar as possible to each other in their syntax and data structures.

In general, the specific command set for a service class is defined as a superset of the specific capabilities likely to be provided by the developers of the services of that class; thus any particular device will normally support only a subset of the defined command set.

There are three cases in which a Service Provider may receive a service-specific command that it does not support:

The requested capability is defined for the class of Service Providers by the XFS specification, the particular vendor implementation of that service does not support it, and the unsupported capability is *not* considered to be fundamental to the service. In this case, the Service Provider returns a successful completion, but does no operation. An example would be a request from an application to turn on a control indicator on a passbook printer; the Service Provider recognizes the command, but since the passbook printer it is managing does not include that indicator, the Service Provider does no operation and returns a successful completion to the application.

The requested capability is defined for the class of Service Providers by the XFS specification, the particular vendor implementation of that service does not support it, and the unsupported capability *is* considered to be fundamental to the service. In this case, a WFS_ERR_UNSUPP_COMMAND error for Execute commands or WFS_ERR_UNSUPP_CATEGORY error for Info commands is returned to the calling application. An example would be a request from an application to a cash dispenser to retract items where the dispenser hardware does not have that capability; the Service Provider recognizes the command but, since the cash dispenser it is managing is unable to fulfil the request, returns this error.

The requested capability is *not* defined for the class of Service Providers by the XFS specification. In this case, a WFS_ERR_INVALID_COMMAND error for Execute commands or WFS_ERR_INVALID_CATEGORY error for Info commands is returned to the calling application.

This design allows implementation of applications that can be used with a range of services that provide differing subsets of the functionalities that are defined for their service class. Applications may use the **WFSGetInfo** and **WFSAsyncGetInfo** commands to inquire about the capabilities of the service they are about to use, and modify their behavior accordingly, or they may use functions and then deal with error returns to make decisions as to how

to use the service.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST CWA 16926-13:2023

https://standards.iteh.ai/catalog/standards/sist/36e8c946-08dd-4b80-9967-a42865d379d6/sist

2. Alarms

This specification describes the functionality of the services provided by Alarms (ALM) under XFS, by defining the service-specific commands that can be issued, using the **WFSGetInfo**, **WFSAsyncGetInfo**, **WFSExecute** and **WFSAsyncExecute** functions. This section describes the functionality of an Alarm (ALM) service that applies to both attended and unattended (self-service) devices.

The Alarm device class is provided as a separate service due to the need to set or reset an Alarm when one or more logical services associated with an attended CDM or unattended (self-service) device are locked. Because logical services can be locked by the application the Alarm is implemented in a separate device class to ensure that a set (trigger) or reset operation can be performed at any time.

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST CWA 16926-13:2023

https://standards.iteh.ai/catalog/standards/sist/36e8c946-08dd-4b80-9967-a42865d379d6/sist-cwa-16926-13-2023