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Specifikacija vmesnika razširitev za finančne storitve (XFS), izdaja 3.50 - 67. del: Razred vmesnika depozitne naprave - Referenca za programerje - Prehod z različice 3.40 (CWA 16926:2020) na različico 3.50 (ta CWA)

Extensions for Financial Services (XFS) interface specification Release 3.50 - Part 67: Depository Device Class Interface - Programmer's Reference - Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA)

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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

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CEN**CWA 16926-67****WORKSHOP**

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AGREEMENT

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English version

**Extensions for Financial Services (XFS) interface
specification Release 3.50 - Part 67: Depository Device
Class Interface - Programmer's Reference - Migration from
Version 3.40 (CWA 16926:2020) to Version 3.50 (this
CWA)**

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.

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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 2022-11-18.

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
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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.

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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 DEP 3.10 Migration document.
3.20	March 2, 2011	For a description of changes from version 3.10 to version 3.20 see the DEP 3.20 Migration document.
3.30	March 19, 2015	For a description of changes from version 3.20 to version 3.30 see the DEP 3.30 Migration document.
3.40	December 06, 2019	For a description of changes from version 3.30 to version 3.40 see the DEP 3.40 Migration document.
3.50	November 18, 2022	For a description of changes from version 3.40 to version 3.50 see the DEP 3.50 Migration document.

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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.

2. Depository Unit

This specification describes the functionality of the services provided by the Depository (DEP) services under XFS, by defining the service-specific commands that can be issued, using the **WFSGetInfo**, **WFSAsyncGetInfo**, **WFSExecute** and **WFSAsyncExecute** functions.

A Depository is used for the acceptance and deposit of media into the device or terminal. There are two main types of depository: an envelope depository for the deposit of media in envelopes and a night safe depository for the deposit of bags containing bulk media.

An envelope depository accepts media, prints on the media and deposits the media into a holding container or bin. Some envelope depositories offer the capability to dispense an envelope to the customer at the start of a transaction. The customer takes this envelope, fills in the deposit media, possibly inscribes it and puts it into the deposit slot. The envelope is then accepted, printed and transported into a deposit container.

The envelope dispense mechanism may be part of the envelope depository device mechanism with the same entry/exit slot or it may be a separate mechanism with separate entry/exit slot.

Envelopes dispensed and not taken by the customer can be retracted back into the device. When the dispenser is a separate mechanism the envelope is retracted back into the dispenser container. When the dispenser is a common mechanism the envelope is retracted into the depository container.

A night safe depository normally only logs the deposit of a bag and does not print on the media.

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3. References

- | |
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| 1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference
Revision 3.4050 |
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4. Info Commands

4.1 WFS_INF_DEP_STATUS

Description This command reports the full range of information available, including the information that is provided by the Service Provider.

Input Param None.

Output Param LPWFSDEPSTATUS lpStatus;

```
typedef struct _wfs_dep_status
{
    WORD                fwDevice;
    WORD                fwDepContainer;
    WORD                fwDepTransport;
    WORD                fwEnvSupply;
    WORD                fwEnvDispenser;
    WORD                fwPrinter;
    WORD                fwToner;
    WORD                fwShutter;
    WORD                wNumOfDeposits;
    LPSTR               lpSzExtra;
    DWORD               dwGuidLights[WFS_DEP_GUIDLIGHTS_SIZE];
    WORD                fwDepositLocation;
    WORD                wDevicePosition;
    USHORT              usPowerSaveRecoveryTime;
    WORD                wAntiFraudModule;
} WFSDEPSTATUS, *LPWFSDEPSTATUS;
```

fwDevice

Specifies the state of the Depository device as one of the following flags:

Value	Meaning
WFS_DEP_DEVONLINE	The device is online (i.e. powered on and operable).
WFS_DEP_DEVOFFLINE	The device is off-line (e.g. the operator has taken the device offline by turning a switch).
WFS_DEP_DEVPOWEROFF	The device is powered off or physically not connected.
WFS_DEP_DEVNODEVICE	There is no device intended to be there; e.g. this type of self service machine does not contain such a device or it is internally not configured.
WFS_DEP_DEVHWERROR	The device is inoperable due to a hardware error. The device is present but a hardware fault prevents it from being used.
WFS_DEP_DEVUSERERROR	The device is present but a person is preventing proper operation. The application should suspend the device operation or remove the device from service until the Service Provider generates a device state change event indicating the condition of the device has changed, i.e. the error is removed or a permanent error condition has occurred.
WFS_DEP_DEVBUSY	The device is busy and not able to process an Execute command at this time.
WFS_DEP_DEVFRAUDATTEMPT	The device is present but is inoperable because it has detected a fraud attempt.
WFS_DEP_DEVPOTENTIALFRAUD	The device has detected a potential fraud attempt and is capable of remaining in service. In this case the application should make the decision as to whether to take the device offline.

fwDepContainer

Specifies the state of the deposit container that contains the deposited envelopes or bags as one of the following flags:

Value	Meaning
WFS_DEP_DEPOK	The deposit container is in a good state.
WFS_DEP_DEPHIGH	The deposit container is almost full (threshold).
WFS_DEP_DEPFULL	The deposit container is full.
WFS_DEP_DEPINOP	The deposit container is inoperable.
WFS_DEP_DEPMISSING	The deposit container is missing.
WFS_DEP_DEPUNKNOWN	Due to a hardware error or other condition, the state of the deposit container cannot be determined.
WFS_DEP_DEPNOTSUPP	The physical device is not able to determine the status of the deposit container.

fwDepTransport

Specifies the state of the deposit transport mechanism that transports the envelope into the deposit container. Specified as one of the following flags:

Value	Meaning
WFS_DEP_DEPOK	The deposit transport is in a good state.
WFS_DEP_DEPINOP	The deposit transport is inoperative due to a hardware failure or media jam.
WFS_DEP_DEPUNKNOWN	Due to a hardware error or other condition, the state of the deposit transport cannot be determined.
WFS_DEP_DEPNOTSUPP	The physical device has no deposit transport.

fwEnvSupply

Specifies the state of the envelope supply unit as one of the following flags:

Value	Meaning
WFS_DEP_ENVOK	The envelope supply unit is in a good state (and locked).
WFS_DEP_ENVLOW	The envelope supply unit is present but low.
WFS_DEP_ENVEMPTY	The envelope supply unit is present but empty. No envelopes can be dispensed.
WFS_DEP_ENVINOP	The envelope supply unit is in an inoperable state. No envelopes can be dispensed.
WFS_DEP_ENVMISSING	The envelope supply unit is missing.
WFS_DEP_ENVNOTSUPP	The physical device has no envelope supply.
WFS_DEP_ENVUNLOCKED	The envelope supply unit is unlocked.
WFS_DEP_ENVUNKNOWN	Due to a hardware error or other condition, the state of the envelope supply cannot be determined.

fwEnvDispenser

Specifies the state of the envelope dispenser. Specified as one of the following flags:

Value	Meaning
WFS_DEP_ENVOK	The envelope dispenser is present and in a good state.
WFS_DEP_ENVINOP	The envelope dispenser is present but in an inoperable state. No envelopes can be dispensed.
WFS_DEP_ENVUNKNOWN	Due to a hardware error or other condition, the state of the envelope dispenser cannot be determined.
WFS_DEP_ENVNOTSUPP	The physical device has no envelope dispenser.

fwPrinter

Specifies the state of the printer. Specified as one of the following flags: