
Specifikacije vmesnika za razširitev finančnih storitev (XFS), izdaja 3.50 - 7. del:
Vmesnik razreda naprav za bralnike/skenerje čekov - Referenca za programerje

Extensions for Financial Services (XFS) interface specification Release 3.50 - Part 7:
Check Reader/Scanner Device Class Interface - Programmer's Reference

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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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AGREEMENT

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Extensions for Financial Services (XFS) interface specification Release 3.50 - Part 7: Check Reader/Scanner 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.

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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
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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

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

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2. Check Readers and Scanners

This specification describes the XFS service class of check readers and scanners. Check image scanners are treated as a special case of check readers, i.e. image-enabled instances of the latter. This class includes devices with a range of features, from small hand-held read-only devices through which checks are manually swiped one at a time, to desktop units which automatically feed the check one at a time; recording the MICR data and check image, and endorse or encode the check. The specification of this service class includes definitions of the service-specific commands that can be issued, using the **WFSAsyncExecute**, **WFSExecute**, **WFSGetInfo** and **WFSAsyncGetInfo** functions.

In the U.S., checks are always encoded in magnetic ink for reading by Magnetic Ink Character Recognition (MICR), and a single font is always used. In Europe some countries use MICR and some use Optical Character Recognition (OCR) character sets, with different fonts, for their checks.

In all countries, typical fields found encoded on a check include the bank ID number and the account number. Part of the processing done by the bank is to also encode the amount on the check, usually done by having an operator enter the handwritten or typewritten face amount on a numeric keypad.

This service class is currently defined only for attended branch service.

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3. References

1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference Revision 3.50
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4. Info Commands

4.1 WFS_INF_CHK_STATUS

Description This function is used to query the status of the device and the service.

Input Param None.

Output Param LPWFSCHKSTATUS lpStatus;

```
struct _wfs_chk_status
{
    WORD          fwDevice;
    WORD          fwMedia;
    WORD          fwInk;
    LPSTR         lpszExtra;
    DWORD         dwGuidLights[WFS_CHK_GUIDLIGHTS_SIZE];
    WORD          wDevicePosition;
    USHORT        usPowerSaveRecoveryTime;
    WORD          wAntiFraudModule;
} WFSCHKSTATUS, *LPWFSCHKSTATUS;
```

fwDevice

Specifies the state of the check reader device as one of:

Value	Meaning
WFS_CHK_DEVONLINE	The device is online (i.e. powered on and operable).
WFS_CHK_DEVOFFLINE	The device is offline (e.g. the operator has taken the device offline by turning a switch).
WFS_CHK_DEVPOWEROFF	The device is powered off or physically not connected.
WFS_CHK_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_CHK_DEVHWERROR	The device is inoperable due to a hardware error.
WFS_CHK_DEVUSERERROR	The device is inoperable because a person is preventing proper device operation.
WFS_CHK_DEVBUSY	The device is busy and unable to process an execute command at this time.
WFS_CHK_DEVFRAUDATTEMPT	The device is present but is inoperable because it has detected a fraud attempt.
WFS_CHK_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.

fwMedia

Specifies the status of the media in the check reader as one of:

Value	Meaning
WFS_CHK_MEDIANOTSUPP	The capability to report the state of the check media is not supported by the device.
WFS_CHK_MEDIANOTPRESENT	No media is inserted in device.
WFS_CHK_MEDIAREQUIRED	Insertion of media required.
WFS_CHK_MEDIAPRESENT	Media inserted in device.
WFS_CHK_MEDIAJAMMED	Media jam in device.

fwInk

Specifies the status of the ink in the check reader as one of:

Value	Meaning
WFS_CHK_INKNOTSUPP	Capability not supported by the device.

WFS_CHK_INKFULL	Ink supply in device is full.
WFS_CHK_INKLOW	Ink supply in device is low.
WFS_CHK_INKOUT	Ink supply in device is empty.

lpzExtra

Pointer to a list of vendor-specific, or any other extended, information. The information is returned as a series of “key=value” strings so that it is easily extensible by Service Providers. Each string is null-terminated, with the final string terminating with two null characters. An empty list may be indicated by either a NULL pointer or a pointer to two consecutive null characters.

dwGuidLights [...]

Specifies the state of the guidance light indicators. A number of guidance light types are defined below. Vendor specific guidance lights are defined starting from the end of the array. The maximum guidance light index is WFS_CHK_GUIDLIGHTS_MAX.

Specifies the state of the guidance light indicator as

WFS_CHK_GUIDANCE_NOT_AVAILABLE, WFS_CHK_GUIDANCE_OFF or a combination of the following flags consisting of one type B, optionally one type C and optionally one type D.

Value	Meaning	Type
WFS_CHK_GUIDANCE_NOT_AVAILABLE	The status is not available.	A
WFS_CHK_GUIDANCE_OFF	The light is turned off.	A
WFS_CHK_GUIDANCE_SLOW_FLASH	The light is blinking slowly.	B
WFS_CHK_GUIDANCE_MEDIUM_FLASH	The light is blinking medium frequency.	B
WFS_CHK_GUIDANCE_QUICK_FLASH	The light is blinking quickly.	B
WFS_CHK_GUIDANCE_CONTINUOUS	The light is turned on continuous (steady).	B
WFS_CHK_GUIDANCE_RED	The light is red.	C
WFS_CHK_GUIDANCE_GREEN	The light is green.	C
WFS_CHK_GUIDANCE_YELLOW	The light is yellow.	C
WFS_CHK_GUIDANCE_BLUE	The light is blue.	C
WFS_CHK_GUIDANCE_CYAN	The light is cyan.	C
WFS_CHK_GUIDANCE_MAGENTA	The light is magenta.	C
WFS_CHK_GUIDANCE_WHITE	The light is white.	C
WFS_CHK_GUIDANCE_ENTRY	The light is in the entry state.	D
WFS_CHK_GUIDANCE_EXIT	The light is in the exit state.	D

dwGuidLights [WFS_CHK_GUIDANCE_CHECKUNIT]

Specifies the state of the guidance light indicator on the check processing unit.

wDevicePosition

Specifies the device position. The device position value is independent of the *fwDevice* value, e.g. when the device position is reported as WFS_CHK_DEVICENOTINPOSITION, *fwDevice* can have any of the values defined above (including WFS_CHK_DEVONLINE or WFS_CHK_DEVOFFLINE). If the device is not in its normal operating position (i.e. WFS_CHK_DEVICEINPOSITION) then media may not be presented through the normal customer interface. This value is one of the following values:

Value	Meaning
WFS_CHK_DEVICEINPOSITION	The device is in its normal operating position, or is fixed in place and cannot be moved.
WFS_CHK_DEVICENOTINPOSITION	The device has been removed from its normal operating position.
WFS_CHK_DEVICEPOSUNKNOWN	Due to a hardware error or other condition, the position of the device cannot be determined.
WFS_CHK_DEVICEPOSNOTSUPP	The physical device does not have the capability of detecting the position.