

### SLOVENSKI STANDARD SIST CWA 16926-9:2023

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Specifikacija vmesnika razširitev za finančne storitve (XFS), izdaja 3.50 - 9. del: Vmesnik razreda naprave tekstovne terminalne enote - Referenca za programerje

Extensions for Financial Services (XFS) interface specification Release 3.50 - Part 9: Text Terminal Unit Device Class Interface - Programmer's Reference

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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

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**CEN** 

CWA 16926-9

WORKSHOP

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#### **AGREEMENT**

ICS 35.200; 35.240.15; 35.240.40

#### **English version**

# Extensions for Financial Services (XFS) interface specification Release 3.50 - Part 9: Text Terminal Unit 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
- FIS BANKING SOLUTIONS UK LTD (OTS)
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The Workshop participants have made every effort to ensure the reliability and accuracy of the technical and non-technical content of CWA 16926-9, but this does not guarantee, either explicitly or implicitly, its correctness. Users of CWA 16926-9 should be aware that neither the Workshop participants, nor CEN can be held liable for damages

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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. standards/sist/72016504-d9e2-4068-8204-64fb3b45a4d5/sist-
- 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 16926:2020) 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 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 63: Identification Card Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 64: Cash Dispenser Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 65: PIN Keypad Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 66: Check Reader/Scanner Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 67: Depository Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 68: Text Terminal Unit Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 69: Sensors and Indicators Unit Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 70: Vendor Dependent Mode Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference A 16026-202023
- Part 71: Camera Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 72: Alarm Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 73: Card Embossing Unit Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 74: Cash-In Module Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 75: Card Dispenser Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 76: Barcode Reader Device Class Interface Migration from Version 3.40 (CWA 16926:2020) to Version 3.50 (this CWA) Programmer's Reference
- Part 77: Item Processing Module Device Class Interface Migration from Version 3.40 (CWA 16926:2020) 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: <a href="https://www.cen.eu/work/Sectors/Digital\_society/Pages/WSXFS.aspx">https://www.cen.eu/work/Sectors/Digital\_society/Pages/WSXFS.aspx</a>.

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:

b3.10	November 29, 2007	Initial Release.
3.20	March 2, 2011	For a description of changes from version 3.10 to version 3.20 see the TTU 3.20 Migration document.
3.30	March 19, 2015	For a description of changes from version 3.20 to version 3.30 see the TTU 3.30 Migration document.
3.40	December 06, 2019	For a description of changes from version 3.30 to version 3.40 see the TTU 3.40 Migration document.
3.50	November 18, 2022	For a description of changes from version 3.40 to version 3.50 see the TTU 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. Notable enhancements include:

- Addition of E2E security
- PIN Password Entry

#### 1.2XFS 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 the 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. Text Terminal Units

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

This section describes the functions provided by a generic Text Terminal Unit (TTU) service. A Text Terminal Unit is a text i/o device, which applies both to ATM operator panels and to displays incorporated in devices such as PIN pads and printers. This service allows for the following categories of functions:

- Forms oriented input and output
- Direct display output
- Keyboard input
- LED settings and control

All position indexes are zero based, where column zero, row zero is the top-leftmost position.

If the device has no shift key, the WFS\_CMD\_TTU\_READ\_FORM and WFS\_CMD\_TTU\_READ commands will return only upper case letters. If the device has a shift key, these commands return upper and lower case letters as governed by the user's use of the shift key.

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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

#### 4.1WFS\_INF\_TTU\_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 LPWFSTTUSTATUS lpStatus;

```
typedef struct _wfs_ttu_status
WORD
                      fwDevice;
WORD
                      wKeyboard;
WORD
                      wKeylock;
                      wLEDs [WFS TTU LEDS MAX];
WORD
WORD
                      wDisplaySizeX;
                      wDisplaySizeY;
WORD
LPSTR
                      lpszExtra;
WORD
                      wDevicePosition;
USHORT
                      usPowerSaveRecoveryTime;
LPWFSTTULEDEX
                      lpLEDEx;
                      wAntiFraudModule;
} WFSTTUSTATUS, *LPWFSTTUSTATUS;
```

*fwDevice* 

Specifies the state of the text terminal unit as one of the following flags:

Value CTA NA R	Meaning
WFS_TTU_DEVONLINE	The device is online (i.e. powered on and
	operable).
WFS_TTU_DEVOFFLINE	The device is offline (e.g. the operator has
	taken the device offline by turning a switch).
WFS_TTU_DEVPOWEROFF	The device is powered off or physically not
1 // . 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	connected.
https://standards.WFS_TTU_DEVBUSY.ds/sist/72016504-0	The device is busy and unable to process an
cwa-16926-9-2023	execute command at this time.
WFS_TTU_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_TTU_DEVHWERROR	The device is inoperable due to a hardware error.
WEG TTH DEVILOPDED OF	
WFS_TTU_DEVUSERERROR	The device is inoperable because a person is preventing proper device operation.
WFS_TTU_DEVFRAUDATTEMPT	The device is present but is inoperable
	because it has detected a fraud attempt.
WFS_TTU_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.

wKeyboard

Specifies the state of the keyboard in the text terminal unit as one of the following flags:

Value	Meaning
WFS_TTU_KBDON	The keyboard is activated.
WFS_TTU_KBDOFF	The keyboard is not activated.
WFS_TTU_KBDNA	The keyboard is not available.

wKeylock

Specifies the state of the keyboard lock of the text terminal unit as one of the following flags:

Meaning
The keyboard lock switch is activated.
The keyboard lock switch is not activated.
The keyboard lock switch is not available.

#### wLEDs [WFS TTU LEDS MAX]

Specifies the state of the LEDs. The maximum LED index is WFS\_TTU\_LEDS\_MAX -1. The number of available LEDs can be retrieved with the WFS\_INF\_TTU\_CAPABILITIES info command. This field is only provided for backwards compatibility; the *lpLEDEx* parameter should instead be used to retrieve the LED status. All member elements in this array are specified as one of the following flags:

Value	Meaning
WFS_TTU_LEDNA	The status is not available.
WFS_TTU_LEDOFF	The LED is turned off.
WFS_TTU_LEDSLOWFLASH	The LED is blinking slowly.
WFS_TTU_LEDMEDIUMFLASH	The LED is blinking medium frequency.
WFS_TTU_LEDQUICKFLASH	The LED is blinking quickly.
WFS TTU LEDCONTINUOUS	The light is turned on continuous (steady).

#### wDisplaySizeX

Specifies the horizontal size of the display of the text terminal unit (the number of columns that can be displayed).

#### wDisplaySizeY

Specifies the vertical size of the display of the text terminal unit (the number of rows that can be displayed).

#### lpszExtra

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.

#### 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\_TTU\_DEVICENOTINPOSITION, *fwDevice* can have any of the values defined above (including WFS\_TTU\_DEVONLINE or WFS\_TTU\_DEVOFFLINE). This value is one of the following values:

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

#### *usPowerSaveRecoveryTime*

Specifies the actual number of seconds required by the device to resume its normal operational state from the current power saving mode. This value is zero if either the power saving mode has not been activated or no power save control is supported.

#### *lpLEDEx*

Pointer to a WFSTTULEDEX structure that specifies the states of the LEDs. If there is no LED available this will be a NULL pointer.