

Irish Standard Recommendation S.R. CWA 16926-15:2020

Extensions for Financial Services (XFS) interface specification Release 3.40 - Part 15: Cash-In Module Device Class Interface - Programmer's Reference

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NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

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National Foreword

S.R. CWA 16926-15:2020 is the adopted Irish version of the European Document CWA 16926-15:2020, Extensions for Financial Services (XFS) interface specification Release 3.40 - Part 15: Cash-In Module Device Class Interface - Programmer's Reference

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CWA 16926-15

WORKSHOP

February 2020

AGREEMENT

ICS 35.200; 35.240.15; 35.240.40

English version

Extensions for Financial Services (XFS) interface specification Release 3.40 - Part 15: Cash-In Module Device Class Interface - Programmer's Reference

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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 2019-10-08, 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.

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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 3.30 (CWA 16926) to Version 3.40 (this CWA) Service Provider Interface (SPI) Programmer's Reference
- Part 62: Printer and Scanning Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 63: Identification Card Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 64: Cash Dispenser Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 65: PIN Keypad Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
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- Part 67: Depository Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 68: Text Terminal Unit Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 69: Sensors and Indicators Unit Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 70: Vendor Dependent Mode Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
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- Part 74: Cash-In Module Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 75: Card Dispenser Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference

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Part 76: Barcode Reader Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

Part 77: Item Processing Module Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (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.cen.eu/work/Sectors/Digital society/Pages/WSXFS.aspx.

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.

1. Introduction

1.1 Background to Release 3.40

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 3.40 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:

- 1. Common API level based 'Service Information' command to report Service Provider information, data and versioning.
- 2. Common API level based events to report changes in status and invalid parameters.
- 3. Support for Advanced Encryption Standard (AES) in PIN.
- 4. VDM Entry Without Closing XFS Service Providers.
- Addition of a Biometrics device class.
- 6. CDM/CIM Note Classification List handling.
- 7. Support for Derived Unique Key Per Transaction (DUKPT) in PIN.
- 8. Addition of Transaction Start/End commands.
- 9. Addition of explicit CIM Prepare/Present commands.

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



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