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WORKSHOP

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AGREEMENT

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Extensions for Financial Services (XFS) interface specification Release 3.40 - Part 72: Alarm Device Class Interface - Migration from version 3.30 (CWA 16926) to Version 3.40 (this CWA) - 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.

The final text of this CEN Workshop Agreement was provided to CEN for publication on 2019-12-12. The following organizations and individuals developed and approved this CEN Workshop Agreement:

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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

Part 66: Check Reader/Scanner Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

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

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Part 72: Alarm Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

Part 73: Card Embossing Unit Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

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: <u>https://www.cen.eu/work/Sectors/Digital_society/Pages/WSXFS.aspx</u>.

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. Migration Information

XFS 3.40 has been designed to minimize backwards compatibility issues. This document highlights the changes made to the Alarm (ALM) Specification device class between version 3.30 and 3.40, by highlighting the additions and deletions to the text.

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.

3. References

1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference Revision 3.40

4. Info Commands

4.1 WFS_INF_ALM_STATUS

Description This command is used to request the Alarm status.

Input Param None.

Output Param LPWFSALMSTATUS lpStatus;

typedef struct _wfs_alm_status		
{		
WORD	fwDevice;	
BOOL	bAlarmSet;	
LPSTR	lpszExtra;	
WORD	wAntiFraudModule;	
} WFSALMSTATUS,	*LPWFSALMSTATUS;	

fwDevice

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

Value	Meaning
WFS_ALM_DEVONLINE	The device is present, powered on and online (i.e. operational, not busy processing a
	request and not in an error state).
WFS_ALM_DEVOFFLINE	The device is offline (e.g. the operator has
	taken the device offline by turning a switch).
WFS_ALM_DEVPOWEROFF	The device is powered off or physically not connected.
WFS_ALM_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_ALM_DEVUSERERROR	The device is present but a person is
	preventing proper device 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 e.g. the error is
	removed (WFS_ALM_DEVONLINE) or a
	permanent error condition has occurred
	(WFS_ALM_DEVHWERROR).
WFS_ALM_DEVHWERROR	The device is present but inoperable due to a
	hardware fault that prevents it from being used.
WFS ALM DEVBUSY	The device is busy and unable to process an
	execute command at this time.
WFS_ALM_DEVFRAUDATTEMPT	The device is present but is inoperable
	because it has detected a fraud attempt.
WFS_ALM_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.

bAlarmSet

Specifies the state of the Alarm as either Reset (FALSE) or Set (TRUE).

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.

wAntiFraudModule

Specifies the state of the anti-fraud module as one of the following values:

Value	Meaning
WFS_ALM_AFMNOTSUPP	No anti-fraud module is available.
WFS_ALM_AFMOK	Anti-fraud module is in a good state and no
	foreign device is detected.
WFS_ALM_AFMINOP	Anti-fraud module is inoperable.
WFS_ALM_AFMDEVICEDETECTED	Anti-fraud module detected the presence of a
	foreign device.
WFS_ALM_AFMUNKNOWN	The state of the anti-fraud module cannot be
	determined.

Error Codes Only the generic error codes defined in [Ref. 1] can be generated by this command.

Comments Applications which require or expect specific information to be present in the *lpszExtra* parameter may not be device or vendor-independent.

In the case where communications with the device has been lost, the *fwDevice* field will report WFS_ALM_DEVPOWEROFF when the device has been removed or WFS_ALM_DEVHWERROR if the communications are unexpectedly lost. All other fields should contain a value based on the following rules and priority:

- 1. Report the value as unknown.
- 2. Report the value as a general h/w error.
- 3. Report the value as the last known value.

4.2 WFS_INF_ALM_CAPABILITIES

Description This command is used to retrieve the capabilities of the Alarm.

Input Param None.

Output Param LPWFSALMCAPS lpCaps;

typedef struct _wfs_alm_caps
{
 WORD wClass;
 BOOL bProgrammaticallyDeactivate;
 LPSTR lpszExtra;
 BOOL bAntiFraudModule;
 LPDWORD lpdwSynchronizableCommands;
 } WFSALMCAPS, *LPWFSALMCAPS;

wClass

Specifies the logical service class as WFS_SERVICE_CLASS_ALM.

b Programmatically Deactivate

Specifies whether the Alarm can be programmatically deactivated (TRUE) or can not be programmatically deactivated (FALSE).

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.

bAntiFraudModule

Specifies whether the anti-fraud module is available. This can either be TRUE if available or FALSE if not available.

lpdwSynchronizableCommands

Pointer to a zero-terminated list of DWORDs which contains the execute command IDs that can be synchronized. If no execute command can be synchronized then this parameter will be NULL.

Error Codes Only the generic error codes defined in [Ref. 1] can be generated by this command.

Comments Applications which require or expect specific information to be present in the *lpszExtra* parameter may not be device or vendor-independent.

5. Execute Commands

5.1 WFS_CMD_ALM_SET_ALARM

Description	This command is used to trigger an Alarm.	
Input Param	None.	
Output Param	None.	
Error Codes Only the generic error codes defined in [Ref. 1] can be generated by this		be generated by this command.
Events	Events In addition to the generic events defined in [Ref. 1], the following events can be generat result of this command:	
	Value	Meaning
	WFS_SRVE_ALM_DEVICE_SET	The alarm device has been triggered.

Comments None.

5.2 WFS_CMD_ALM_RESET_ALARM

Description	This command is used to reset an Alarm.	
Input Param	None.	
Output Param	None.	
Error Codes	Only the generic error codes defined in [Ref. 1] can be generated by this command.	
Events In addition to the generic events defined in [Ref. 1], the following events can be generated to f this command:], the following events can be generated as a
	Value	Meaning
	WFS_SRVE_ALM_DEVICE_RESET	The alarm device has been reset.
Comments	None.	

5.3 WFS_CMD_ALM_RESET

Description	Sends a service reset to the Service Provider.
Input Param	None.
Output Param	None.
Error Codes	Only the generic error codes defined in [Ref. 1] can be generated by this command.
Events	Only the generic events defined in [Ref. 1] can be generated by this command.
Comments	This command is used by an application control program to cause a device to reset itself to a known good condition.

5.4 WFS_CMD_ALM_SYNCHRONIZE_COMMAND

Description This command is used to reduce response time of a command (e.g. for synchronization with display) as well as to synchronize actions of the different device classes. This command is intended to be used only on hardware which is capable of synchronizing functionality within a single device class or with other device classes.

The list of execute commands which this command supports for synchronization is retrieved in the *lpdwSynchronizableCommands* parameter of the WFS_INF_ALM_CAPABILITIES.

This command is optional, i.e. any other command can be called without having to call it in advance. Any preparation that occurs by calling this command will not affect any other subsequent command. However, any subsequent execute command other than the one that was specified in the *dwCommand* input parameter will execute normally and may invalidate the pending synchronization. In this case the application should call the WFS CMD ALM SYNCHRONIZE COMMAND again in order to start a synchronization.

Input Param LPWFSALMSYNCHRONIZECOMMAND lpSynchronizeCommand;

typedef struct _wfs_alm_synchronize_command

t	
DWORD	dwCommand;
LPVOID	lpCmdData;
} WFSALMSYNCHRONIZECOMMAND	<pre>, *LPWFSALMSYNCHRONIZECOMMAND;</pre>

dwCommand

The command ID of the command to be synchronized and executed next.

lpCmdData

Pointer to data or a data structure that represents the parameter that is normally associated with the command that is specified in *dwCommand*. This parameter can be NULL if no command input parameter is needed or if this detail is not needed to synchronize for the command.

It will be device-dependent whether the synchronization is effective or not in the case where the application synchronizes for a command with this command specifying a parameter but subsequently executes the synchronized command with a different parameter. This case should not result in an error; however, the preparation effect could be different from what the application expects. The application should, therefore, make sure to use the same parameter between *lpCmdData* of this command and the subsequent corresponding execute command.

Output Param None.

Error Codes In addition to the generic error codes defined in [Ref. 1], the following error codes can be generated by this command:

	Value	Meaning
	WFS_ERR_ALM_COMMANDUNSUPP	The command specified in the <i>dwCommand</i> field is not supported by the Service Provider.
	WFS_ERR_ALM_SYNCHRONIZEUNSUPP	The preparation for the command specified in the <i>dwCommand</i> with the parameter specified in the <i>lpCmdData</i> is not supported by the Service Provider.
Events	Only the generic events defined in [Ref. 1] can be g	generated by this command.

Comments For sample flows of this synchronization see the [Ref 1] Appendix C.

6.1 WFS_SRVE_ALM_DEVICE_SET

Description The Alarm has been set (triggered) by an external event or a programmatic request to set (trigger) the Alarm.

Event Param None.

Comments None.

6.2 WFS_SRVE_ALM_DEVICE_RESET

Description The Alarm has been manually or programmatically reset.

Event Param None.

Comments None.

* *

*

7. C - Header file

```
* xfsalm.h
                  XFS - Alarm (ALM) definitions
*
                    Version 3.40 (December 6 2019)
*****
#ifndef __INC_XFSALM_ H
#define INC XFSALM H
#ifdef __cplu
extern "C" {
          cplusplus
#endif
#include <xfsapi.h>
/* be aware of alignment */
#pragma pack (push, 1)
/* values of WFSALMCAPS.wClass */
             WFS_SERVICE_CLASS_ALM
WFS_SERVICE_CLASS_VERSION_ALM
#define
                                                              (11)
                                                              (0x2803) /*Version 3.40 */
#define
#define
             WFS SERVICE CLASS NAME ALM
                                                              "ALM"
                                                              (WFS SERVICE CLASS ALM * 100)
#define
             ALM SERVICE OFFSET
/* ALM Info Commands */
                                                          (ALM_SERVICE_OFFSET + 1)
(ALM_SERVICE_OFFSET + 2)
             WFS INF ALM STATUS
#define
             WFS_INF_ALM_STATUS
WFS_INF_ALM_CAPABILITIES
#define
/* ALM Execute Commands */
#define
             WFS CMD ALM SET ALARM
                                                             (ALM SERVICE OFFSET + 1)

      #define
      WFS_CMD_ALM_SET_ALARM
      (ALM_SERVICE_OFFSET + 1)

      #define
      WFS_CMD_ALM_RESET_ALARM
      (ALM_SERVICE_OFFSET + 2)

      #define
      WFS_CMD_ALM_RESET
      (ALM_SERVICE_OFFSET + 3)

      #define
      WFS_CMD_ALM_SYNCHRONIZE_COMMAND
      (ALM_SERVICE_OFFSET + 4)

/* ALM Messages */
             WFS SRVE ALM DEVICE SET
#define
                                                            (ALM SERVICE OFFSET + 1)
#define
             WFS SRVE ALM DEVICE RESET
                                                             (ALM SERVICE OFFSET + 2)
/* values of WFSALMSTATUS.fwDevice */
#define WFS_ALM_DEVONLINE
#define WFS_ALM_DEVOFFLINE
#define WFS_ALM_DEVPOWEROFF
#define WFS_ALM_DEVNODEVICE
#define WFS_ALM_DEVHWERROR
                                                             WFS STAT DEVONLINE
                                                            WFS_STAT_DEVOFFLINE
                                                            WFS_STAT_DEVPOWEROFF
WFS_STAT_DEVNODEVICE
WFS_STAT_DEVHWERROR
#define
             WFS ALM DEVUSERERROR
                                                            WFS STAT DEVUSERERROR
             wFS_ALM_DEVOSERERRORwFS_STAT_DEVOSERERRORWFS_ALM_DEVBUSYWFS_STAT_DEVBUSYWFS_ALM_DEVFRAUDATTEMPTWFS_STAT_DEVFRAUDATTEMPTWFS_ALM_DEVPOTENTIALFRAUDWFS_STAT_DEVPOTENTIALFRAUD
             WFS ALM DEVBUSY
#define
#deine
#define
/* values of WFSALMSTATUS.wAntiFraudModule */
#define WFS_ALM_AFMNOTSUPP
#define WFS_ALM_AFMOK
#define WFS_ALM_AFMINOP
#define WFS_ALM_AFMDEVICEDETECTED
                                                              (0)
                                                              (1)
                                                              (2)
                                                              (3)
                                                              (4)
#define
             WFS ALM AFMUNKNOWN
```

/* XFS ALM Errors */

```
#define WFS_ERR_ALM_COMMANDUNSUPP (-(ALM_SERVICE_OFFSET + 0))
#define WFS_ERR_ALM_SYNCHRONIZEUNSUPP (-(ALM_SERVICE_OFFSET + 1))
/* ALM Info Command Structures */
/*_____*/
typedef struct _wfs_alm_status
{
   WORD
                        fwDevice;
   BOOL
                       bAlarmSet;
   LPSTR
                        lpszExtra;
   WORD
                        wAntiFraudModule;
} WFSALMSTATUS, *LPWFSALMSTATUS;
typedef struct _wfs_alm_caps
{
   WORD
                        wClass;
                        bProgrammaticallyDeactivate;
   BOOL
   LPSTR
                        lpszExtra;
   BOOL
                        bAntiFraudModule;
   LPDWORD
                       lpdwSynchronizableCommands;
} WFSALMCAPS, *LPWFSALMCAPS;
typedef struct wfs alm synchronize command
{
   DWORD
                        dwCommand;
   LPVOID
                       lpCmdData;
} WFSALMSYNCHRONIZECOMMAND, *LPWFSALMSYNCHRONIZECOMMAND;
/* restore alignment
                     */
#pragma pack(pop)
#ifdef __cplusplus
} /*extern "C"*/
#endif
      /* __INC_XFSALM__H */
#endif
```