# CEN

# CWA 16926-67

# WORKSHOP

August 2015

# **AGREEMENT**

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### English version

Extensions for Financial Services (XFS) interface specification Release 3.30 - Part 67: Depository Device Class Interface -Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) - 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.

The formal process followed by the Workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN-CENELEC Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

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# **European foreword**

This CWA is revision 3.30 of the XFS interface specification.

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties on March 19<sup>th</sup> 2015, the constitution of which was supported by CEN following the public call for participation made on 1998-06-24. The specification is continuously reviewed and commented in the CEN/ISSS Workshop on XFS. It is therefore expected that an update of the specification will be published in due time as a CWA, superseding this revision 3.30.

A list of the individuals and organizations which supported the technical consensus represented by the CEN Workshop Agreement is available from the CEN/XFS Secretariat. The CEN XFS Workshop gathered suppliers as well as banks and other financial service companies.

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
- Parts 19 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

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- 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
- Parts 48 60 are reserved for future use.
- Part 61: Application Programming Interface (API) Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Service Provider Interface (SPI) Programmer's Reference
- Part 62: Printer and Scanning Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 63: Identification Card Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 64: Cash Dispenser Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 65: PIN Keypad Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 66: Check Reader/Scanner Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 67: Depository Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 68: Text Terminal Unit Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 69: Sensors and Indicators Unit Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 70: Vendor Dependent Mode Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 71: Camera Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 72: Alarm Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 73: Card Embossing Unit Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 74: Cash-In Module Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 75: Card Dispenser Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 76: Barcode Reader Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (this CWA) Programmer's Reference
- Part 77: Item Processing Module Device Class Interface Migration from Version 3.20 (CWA 16374) to Version 3.30 (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="http://www.cen.eu/work/areas/ict/ebusiness/pages/ws-xfs.aspx">http://www.cen.eu/work/areas/ict/ebusiness/pages/ws-xfs.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 furnished for informational purposes only and is subject to change without notice. CEN makes no warranty, express or implied, with respect to this document.

The formal process followed by the Workshop in the development of the CEN Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN-CENELEC Management Centre can be held accountable for the technical content of the CEN Workshop Agreement or possible conflict with standards or legislation. This CEN Workshop Agreement can in no way be held as being an official standard developed by CEN and its members.

The final review/endorsement round for this CWA was started on 2015-01-16 and was successfully closed on 2015-03-19. The final text of this CWA was submitted to CEN for publication on 2015-06-19. The specification is continuously reviewed and commented in the CEN Workshop on XFS. It is therefore expected that an update of the specification will be published in due time as a CWA, superseding this revision 3.30.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Comments or suggestions from the users of the CEN Workshop Agreement are welcome and should be addressed to the CEN-CENELEC Management Centre.

# 1. Migration Information

XFS 3.30 has been designed to minimize backwards compatibility issues. This document highlights the changes made to the DEP device class between version 3.20 and 3.30, by highlighting the additions and deletions to the text.

# 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, 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.

# 3. References

1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference Revision 3.<u>2030</u>

# 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;
                           fwEnvSupply;
     WORD
     WORD
                           fwEnvDispenser;
     WORD
                           fwPrinter;
     WORD
                           fwToner;
     WORD
                           fwShutter;
     WORD
                           wNumOfDeposits;
     LPSTR
                           lpszExtra;
     DWORD
                           dwGuidLights[WFS DEP GUIDLIGHTS SIZE];
                           fwDepositLocation;
     WORD
     WORD
                           wDevicePosition;
                           usPowerSaveRecoveryTime;
     USHORT
     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 or pulling out the device).
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.

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

#### *fwPrinter*

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

Value	Meaning
WFS_DEP_PTROK	The printer is present and in a good state.
WFS_DEP_PTRINOP	The printer is inoperative.
WFS_DEP_PTRUNKNOWN	Due to a hardware error or other condition,
WFS_DEP_PTRNOTSUPP	the state of the printer cannot be determined. The physical device has no printer.

# fwToner

Specifies the state of the toner (or ink) for the printer. Specified as one of the following flags:

Value	Meaning
WFS_DEP_TONERFULL	The toner cassette is full.
WFS_DEP_TONERLOW	The toner in the printer is low.
WFS_DEP_TONEROUT	The toner in the printer is empty.
WFS_DEP_TONERUNKNOWN	Due to a hardware error or other condition,
	the state of the toner for the printer cannot be
	determined.
WFS_DEP_TONERNOTSUPP	The physical device has no toner.

#### fwShutter

Specifies the state of the shutter or door. Specified as one of the following flags:

Value	Meaning
WFS_DEP_SHTCLOSED	The shutter is closed.
WFS_DEP_SHTOPEN	The shutter is open.
WFS_DEP_SHTJAMMED	The shutter is jammed.
WFS_DEP_SHTUNKNOWN	Due to a hardware error or other condition,
	the state of the shutter cannot be determined.
WFS_DEP_SHTNOTSUPP	The physical device has no shutter.

#### wNumOfDeposits

Specifies the number of envelopes or bags in the deposit container. This value is persistent, i.e. maintained through power failures, opens, closes and system resets.

### 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.

# 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\_DEP\_GUIDLIGHTS\_MAX.

# Specifies the state of the guidance light indicator as

WFS\_DEP\_GUIDANCE\_NOT\_AVAILABLE, WFS\_DEP\_GUIDANCE\_OFF or a combination of the following flags consisting of one type B, optionally one type C and optionally one type CD.

Value	Meaning	Type
WFS_DEP_GUIDANCE_NOT_AVAILABLE	The status is not available.	A
WFS_DEP_GUIDANCE_OFF	The light is turned off.	A
WFS_DEP_GUIDANCE_SLOW_FLASH	The light is blinking slowly.	В
WFS_DEP_GUIDANCE_MEDIUM_FLASH	The light is blinking medium	В
	frequency.	
WFS_DEP_GUIDANCE_QUICK_FLASH	The light is blinking quickly.	В
WFS_DEP_GUIDANCE_CONTINUOUS	The light is turned on	В
	continuous (steady).	
WFS_DEP_GUIDANCE_RED	The light is red.	C
WFS_DEP_GUIDANCE_GREEN	The light is green.	C
WFS_DEP_GUIDANCE_YELLOW	The light is yellow.	C
WFS_DEP_GUIDANCE_BLUE	The light is blue.	C
WFS_DEP_GUIDANCE_CYAN	The light is cyan.	C
WFS_DEP_GUIDANCE_MAGENTA	The light is magenta.	C
WFS_DEP_GUIDANCE_WHITE	The light is white.	C

WFS DEP GUIDANCE ENTRY	The light is in the entry state.	D
WFS DEP GUIDANCE EXIT	The light is in the exit state.	D

dwGuidLights [WFS DEP GUIDANCE ENVDEPOSITORY]

Specifies the state of the guidance light indicator on the envelope depository unit.

dwGuidLights [WFS\_DEP\_GUIDANCE\_ENVDISPENSER]

Specifies the state of the guidance light indicator on the envelope dispenser unit.

### *fwDepositLocation*

Specifies the location of the item deposited at the end of the last WFS\_CMD\_DEP\_ENTRY command. Specified as one of the following flags:

Value	Meaning
WFS_DEP_DEPLOCNOTSUPP	Reporting the location of the last deposit is
	not supported.
WFS_DEP_DEPLOCUNKNOWN	Cannot determine the location of the last
	deposited item.
WFS_DEP_DEPLOCCONTAINER	The item is in the container.
WFS_DEP_DEPLOCTRANSPORT	The item is in the transport.
WFS_DEP_DEPLOCPRINTER	The item is in the printer.
WFS_DEP_DEPLOCSHUTTER	The item is at the shutter (available for
	removal).
WFS_DEP_DEPLOCNONE	No item was entered on the last
	WFS_CMD_DEP_ENTRY.
WFS_DEP_DEPLOCREMOVED	The item was removed.

For devices capable of identifying item location, WFS\_DEP\_DEPLOCNONE is returned when the status is queried before any call to WFS\_CMD\_DEP\_ENTRY.

#### 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\_DEP\_DEVICENOTINPOSITION, *fwDevice* can have any of the values defined above (including WFS\_DEP\_DEVONLINE or WFS\_DEP\_DEVOFFLINE). If the device is not in its normal operating position (i.e. WFS\_DEP\_DEVICEINPOSITION) then media may not be presented through the normal customer interface. This value is one of the following values:

Value	Meaning
WFS_DEP_DEVICEINPOSITION	The device is in its normal operating position, or is fixed in place and cannot be moved.
WFS_DEP_DEVICENOTINPOSITION	The device has been removed from its normal operating position.
WFS_DEP_DEVICEPOSUNKNOWN	Due to a hardware error or other condition, the position of the device cannot be determined.
WFS_DEP_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. *wAntiFraudModule* 

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

Value	Meaning
WFS_DEP_AFMNOTSUPP	No anti-fraud module is available.
WFS_DEP_AFMOK	Anti-fraud module is in a good state and no
	foreign device is detected.
WFS_DEP_AFMINOP	Anti-fraud module is inoperable.
WFS_DEP_AFMDEVICEDETECTED	Anti-fraud module detected the presence of a
	foreign device.
WFS_DEP_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\_DEP\_DEVPOWEROFF when the device has been removed or WFS\_DEP\_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\_DEP\_CAPABILITIES

**Description** This command is used to retrieve the capabilities of the Depository.

Input Param None.

1

Output Param LPWFSDEPCAPS lpCaps;

```
typedef struct _wfs_dep_caps
     WORD
                           wClass;
     WORD
                           fwType;
     WORD
                           fwEnvSupply;
     BOOL
                           bDepTransport;
     BOOL
                           bPrinter;
     BOOL
                           bToner;
     BOOL
                           bShutter;
     BOOL
                           bPrintOnRetracts;
     WORD
                           fwRetractEnvelope;
     WORD
                           wMaxNumChars;
     WORD
                           fwCharSupport;
     LPSTR
                           lpszExtra;
     DWORD
                           dwGuidLights[WFS DEP GUIDLIGHTS SIZE];
     BOOL
                           bPowerSaveControl;
                           bAntiFraudModule;
     BOOL
     LPDWORD
                           lpdwSynchronizableCommands;
     } WFSDEPCAPS, *LPWFSDEPCAPS;
```

wClass

Specifies the logical service class as WFS\_SERVICE\_CLASS\_DEP.

fwType

Specifies the type of the depository device as a combination of the following flags:

Value	Meaning
WFS_DEP_TYPEENVELOPE	Depository accepts envelopes.
WFS_DEP_TYPEBAGDROP	Depository accepts bags.

*fwEnvSupply* 

Defines what type of Envelope Supply Unit exists as one of the following flags:

Value	Meaning
WFS_DEP_ENVMOTORIZED	Envelope Supply can dispense envelopes.
WFS_DEP_ENVMANUAL	Envelope Supply is manual and must be
	unlocked to allow envelopes to be taken. The
	Service Event,
	WFS_SRVE_DEP_ENVTAKEN, can not be
	sent and the Execute Command,
	WFS_CMD_DEP_RETRACT can not be
	supported.
WFS_DEP_ENVNONE	No Envelope Supply or Envelope Supply is
	manual and envelopes can be taken at any
	time. The Service Event,
	WFS_SRVE_DEP_ENVTAKEN, can not be
	sent and the Execute Command,
	WFS_CMD_DEP_RETRACT can not be
	supported.

bDepTransport

Specifies whether a deposit transport mechanism is available.

*bPrinter* 

Specifies whether a printer is available.

bToner

Specifies whether the printer has a toner (or ink) cassette.

bShutter

Specifies whether a deposit transport shutter is available.

#### bPrintOnRetracts

Specifies whether the device can print the string specified in the *lpszPrintData* or *lpszUNICODEPrintData* field of the WFS\_CMD\_DEP\_RETRACT command on retracted envelopes.

#### fwRetractEnvelope

Specifies the ability of the envelope dispenser to retract envelopes as one of the following flags:

Value	Meaning
WFS_DEP_NORETRACT	The envelope dispenser does not have the
	capability to retract envelopes.
WFS_DEP_RETRACTDEP	Retracted envelopes are put in the deposit
	container.
WFS_DEP_RETRACTDISP	Retracted envelopes are retracted back to the envelope dispenser.

#### wMaxNumChars

Specifies the maximum number of characters that can be printed on the envelope.

#### *fwCharSupport*

One or more flags specifying the Character Sets supported by the Service Provider:

Value	Meaning
WFS_DEP_ASCII	ASCII is supported for execute command
	data values.
WFS_DEP_UNICODE	UNICODE is supported for execute
	command data values.

#### 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.

#### dwGuidLights [...]

Specifies which guidance lights are available. 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\_DEP\_GUIDLIGHTS\_MAX.

In addition to supporting specific flash rates and colors, some guidance lights also have the capability to show directional movement representing "entry" and "exit". The "entry" state gives the impression of leading a user to place media into the device. The "exit" state gives the impression of ejection from a device to a user and would be used for retrieving media from the device. The elements of this array are specified as a combination of the following flags and indicate all of the possible flash rates (type B) and colors (type C) and directions (type D) that the guidance light indicator is capable of handling. If the guidance light indicator only supports one color then no value of type C is returned. If the guidance light indicator does not support direction then no value of type D is returned. A value of WFS\_DEP\_GUIDANCE\_NOT\_AVAILABLE indicates that the device has no guidance light indicator or the device controls the light directly with no application control possible.

Value	Meaning	Type
WFS_DEP_GUIDANCE_NOT_AVAILABLE	There is no guidance light	A
	control available at this position.	
WFS_DEP_GUIDANCE_OFF	The light is turned off.	A
WFS_DEP_GUIDANCE_SLOW_FLASH	The light is blinking slowly.	В
WFS_DEP_GUIDANCE_MEDIUM_FLASH	The light is blinking medium	В
	frequency.	
WFS_DEP_GUIDANCE_QUICK_FLASH	The light is blinking quickly.	В
WFS_DEP_GUIDANCE_CONTINUOUS	The light is turned on	В
	continuous (steady).	
WFS_DEP_GUIDANCE_RED	The light is red.	C
WFS_DEP_GUIDANCE_GREEN	The light is green.	C
WFS_DEP_GUIDANCE_YELLOW	The light is yellow.	C
WFS_DEP_GUIDANCE_BLUE	The light is blue.	C

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WFS_DEP_GUIDANCE_CYAN	The light is cyan.	C
WFS DEP GUIDANCE MAGENTA	The light is magenta.	C
WFS_DEP_GUIDANCE_WHITE	The light is white.	C
WFS DEP GUIDANCE ENTRY	The light can be in the entry state.	D
WFS DEP GUIDANCE EXIT	The light can be in the exit state.	D

### dwGuidLights [WFS DEP GUIDANCE ENVDEPOSITORY]

Specifies whether the guidance light indicator on the envelope depository unit is available.

# dwGuidLights [WFS DEP GUIDANCE ENVDISPENSER]

Specifies whether the guidance light indicator on the envelope dispenser unit is available.

#### bPowerSaveControl

Specifies whether power saving control is available. This can either be TRUE if available or FALSE if not available.

#### bAntiFraudModule

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

### <u>lpdwSynchronizableCommands</u>

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 DEP ENTRY

#### **Description**

This command starts the entry of an envelope and attempts to deposit it into the deposit container.

The WFS\_EXEE\_DEP\_INSERTDEPOSIT event will be generated when the device is ready to accept the deposit.

A deposit is considered to be successful if an envelope is inserted and the shutter closes such that the customer no longer has access to it. This includes cases where the deposited envelope reaches the deposit container, becomes jammed before reaching the container, or cannot be returned to the customer.

If a successful deposit takes place, then this command will always complete with WFS\_SUCCESS, and any errors detected during the operation will be returned by the WFS\_EXEE\_DEP\_DEPOSITERROR event.

If a successful deposit causes the deposit bin to reach a high or full threshold, a WFS USRE DEP DEPTHRESHOLD event will be sent.

A deposit is considered to be unsuccessful if an envelope is inserted, an error occurs, and the customer has the ability to access it. This includes cases where an envelope is returned to the user, or cases where it becomes jammed but the customer is still able to access it.

If an unsuccessful deposit takes place, then the command will always complete with an appropriate error code, and any errors detected during the operation will be returned by the WFS EXEE DEP DEPOSITERROR event.

If the envelope is entered and then returned to the exit slot for removal by the customer, if the deposit device is capable of this operation (either hardware capability or hardware problems such as a jam may prohibit the envelope from being returned) a WFS\_SRVE\_DEP\_ENVTAKEN will be sent when it is removed.

For example, if the envelope entered has an incorrect size and the deposit was unsuccessful, the envelope is returned to the exit slot for removal by the customer. If the envelope is returned to the customer for removal, the command will complete with WFS\_ERR\_DEP\_ENVSIZE. A WFS\_SRVE\_DEP\_ENVTAKEN is sent when the envelope is removed. But if returning the envelope is not possible and the customer cannot access the envelope, the command will complete with WFS\_SUCCESS and a WFS\_EXEE\_DEP\_DEPOSITERROR event is sent reporting a WFS\_ERR\_DEP\_ENVSIZE.

#### **Input Param**

#### LPWFSDEPENVELOPE lpEnvelope;

#### lpszPrintData

Specifies the data that will be printed on the envelope that is entered by the customer.

### lpszUNICODEPrintData

Specifies the UNICODE data that will be printed on the envelope that is entered by the customer.

The *lpszUNICODEPrintData* field should only be used if the Service Provider supports UNICODE. The *lpszPrintData* and *lpszUNICODEPrintData* fields are mutually exclusive.

#### Output Param N

INOIR

# **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_DEP_DEPFULL	The deposit container is full.
WFS_ERR_DEP_DEPJAMMED	An envelope jam occurred in the deposit
	transport between the entry slot and the
	deposit container.

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WFS_ERR_DEP_ENVSIZE WFS_ERR_DEP_PTRFAIL WFS_ERR_DEP_SHTNOTCLOSED WFS_ERR_DEP_SHTNOTOPENED	The envelope entered has an incorrect size. The printer failed. The shutter failed to close. The shutter failed to open.
WFS_ERR_DEP_CONTMISSING	The deposit container is not present.
WFS_ERR_DEP_DEPUNKNOWN	The result of the deposit is not known.
WFS_ERR_DEP_CHARSETNOTSUPP	Character set(s) supported by Service
	Provider is inconsistent with use of <i>lpszPrintData</i> or <i>lpszUNICODEPrintData</i> fields.
WFS_ERR_DEP_TONEROUT	Toner or ink supply is empty or printing contrast with ribbon is not sufficient. This error can only occur when a print string was passed in the input parameter.

### **Events**

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

Value	Meaning
WFS_SRVE_DEP_ENVTAKEN	The envelope has been taken by the user.
WFS_EXEE_DEP_ENVDEPOSITED	The envelope has been deposited in the
	deposit container.
WFS_EXEE_DEP_DEPOSITERROR	An error occurred during the deposit
	operation.
WFS_USRE_DEP_DEPTHRESHOLD	This user event is used to specify that the
	state of the deposit container reached a
	threshold.
WFS_USRE_DEP_TONERTHRESHOLD	This user event is used to specify that the
	state of the toner supply reached a threshold.
WFS_SRVE_DEP_ENVINSERTED	An envelope has been inserted by the user.
WFS_EXEE_DEP_INSERTDEPOSIT	Device is ready to accept deposit from the
	user.

### **Comments**

If the data specified in *lpszPrintData* or *lpszUNICODEPrintData* is longer than the maximum allowed characters, the error code WFS\_ERR\_INVALID\_DATA will be returned.

#### WFS\_CMD\_DEP\_DISPENSE 5.2

Description This command is used to dispense an envelope from the envelope supply. This command will

either action the dispensing of an envelope from the envelope supply or will unlock the envelope

supply for manual access.

**Input Param** None.

**Output Param** None.

**Events** 

**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_DEP_ENVEMPTY	There is no envelope in the envelope unit.
WFS_ERR_DEP_ENVJAMMED	An envelope jam occurred in the dispenser
	transport between the envelope supply and
	the output slot.
WFS ERR DEP SHTNOTOPENED	The shutter failed to open.

WFS\_ERR\_DEP\_SHTNOTOPENED The shutter failed to open.

In addition to the generic events defined in [Ref. 1], the following events can be generated by this

command:

Value	Meaning
WFS_SRVE_DEP_ENVTAKEN	The envelope has been taken by the user.
WFS_USRE_DEP_ENVTHRESHOLD	This user event is used to specify that the
	state of the envelope supply reached a
	threshold.

**Comments** None.

# 5.3 WFS\_CMD\_DEP\_RETRACT

### **Description**

This command is used to retract an envelope that was not taken by a customer after an envelope dispense operation. The given string is printed on the envelope and the envelope is retracted into the deposit container or back to the envelope dispenser, depending on the capabilities of the physical device. If a retract to the deposit bin causes the deposit bin to reach a high or full threshold, a WFS\_USRE\_DEP\_DEPTHRESHOLD event will be sent.

This command will only return with an error code if the retract has not taken place. The error code will then describe the reason for the failure.

#### **Input Param**

## LPWFSDEPENVELOPE lpEnvelope;

### lpszPrintData

Specifies the data that will be printed on the envelope that is retracted.

#### lpszUNICODEPrintData

Specifies the UNICODE data that will be printed on the envelope that is retracted.

The *lpszUNICODEPrintData* field should only be used if the Service Provider supports UNICODE. The *lpszPrintData* and *lpszUNICODEPrintData* fields are mutually exclusive.

#### **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_DEP_DEPFULL	The deposit container is full.
WFS_ERR_DEP_DEPJAMMED	An envelope jam occurred in the deposit
	transport between the entry slot and the
	deposit container (may only occur with
	hardware that retracts to the deposit container).
WFS ERR DEP ENVJAMMED	An envelope jam occurred between the entry
	slot and the envelope container (may only
	occur with hardware that retracts to the
	envelope container).
WFS_ERR_DEP_NOENV	No envelope to retract.
WFS_ERR_DEP_PTRFAIL	The printer failed.
WFS_ERR_DEP_SHTNOTCLOSED	The shutter failed to close.
WFS_ERR_DEP_CONTMISSING	The deposit container is not present.
WFS_ERR_DEP_CHARSETNOTSUPP	Character set(s) supported by Service
	Provider is inconsistent with use of
	lpszPrintData or lpszUNICODEPrintData
	fields.
WFS_ERR_DEP_TONEROUT	Toner or ink supply is empty or printing
	contrast with ribbon is not sufficient.

#### **Events**

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

Value	Meaning
WFS_USRE_DEP_DEPTHRESHOLD	This user event is used to specify that the
	state of the deposit container reached a
	threshold.
WFS_USRE_DEP_TONERTHRESHOLD	This user event is used to specify that the
	state of the toner supply reached a threshold.
WFS_SRVE_DEP_ENVTAKEN	The envelope has been taken by the user.

# **Comments**

If the data specified in *lpszPrintData* or *lpszUNICODEPrintData* is longer than the maximum

allowed characters, the error code WFS\_ERR\_INVALID\_DATA will be returned.

# 5.4 WFS\_CMD\_DEP\_RESET\_COUNT

**Description** This command is used to reset the present value for number of envelopes/bags in the deposit

container to zero.

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 by this

command:

Value Meaning

WFS\_USRE\_DEP\_DEPTHRESHOLD This user event is used to specify that the state of the deposit container reached a threshold.

**Comments** None.

# 5.5 WFS CMD DEP RESET

### **Description**

Sends a service reset to the Service Provider. The Service Provider may reset the deposit device and also the envelope dispenser, if possible. Any media found in the device can be either captured or completely ejected (depending on hardware). If a capture into the deposit bin causes the deposit bin to reach a high or full threshold, a WFS\_USRE\_DEP\_DEPTHRESHOLD event will be sent. If the WFS\_CMD\_DEP\_RESET command is requested to eject the media and the hardware is not capable of this operation either due to hardware capability or hardware error such as a jam, the Service Provider will retract the media in order to attempt to make the device operational. The WFS\_SRVE\_DEP\_MEDIADETECTED event will indicate the position of the detected media following completion of the command. If the input parameter to the WFS\_CMD\_DEP\_RESET command is NULL, the Service Provider will go through default actions to clear the deposit transport. The WFS\_SRVE\_DEP\_MEDIADETECTED event will indicate the position of any detected media following completion of the command. The envelope dispenser will go through the most effective means to clear any jammed media.

#### **Input Param**

LPDWORD lpdwDepMediaControl;

Specifies the action that should be done if deposited media is detected during the reset operation, as one of the following values:

Value	Meaning
WFS_DEP_CTRLEJECT	Any media detected in the device should be
	completed ejected (depending on the
	hardware).
WFS_DEP_CTRLRETRACT	Any media detected in the device should be
	deposited into the deposit container during
	the reset operation.

If *lpdwDepMediaControl* is set to NULL, the Service Provider will go through default actions to clear the deposit transport.

### **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_DEP_DEPFULL	The deposit container is full.
WFS_ERR_DEP_DEPJAMMED	An envelope jam occurred in the deposit
	transport.
WFS_ERR_DEP_ENVJAMMED	An envelope jam occurred in the dispenser
	transport between the envelope supply and
	the output slot.
WFS_ERR_DEP_SHTNOTOPENED	The shutter failed to open.
WFS_ERR_DEP_SHTNOTCLOSED	The shutter failed to close.
WFS_ERR_DEP_CONTMISSING	The deposit container is not present.

#### **Events**

In addition to the generic events defined in [Ref. 1], the following events may be generated by this command, if the appropriate situation occurs and the device service has the capability to detect the situation:

Value	Meaning
WFS_SRVE_DEP_ENVTAKEN	The envelope has been taken by the user.
WFS_USRE_DEP_DEPTHRESHOLD	This user event is used to specify that the
	state of the deposit container reached a threshold.
WFS_SRVE_DEP_MEDIADETECTED	Media is detected in the device during a reset operation.

#### **Comments**

This command is used by an application control program to cause a device to reset itself to a known good condition. Persistent values may change, but will not be reset as a result of this command (i.e. if an envelope is captured, the *wNumOfDeposits* value in the WFSDEPSTATUS structure will be incremented, but never reset to zero).

# 5.6 WFS\_CMD\_DEP\_SET\_GUIDANCE\_LIGHT

### **Description**

This command is used to set the status of the DEP guidance lights. This includes defining the flash rate, the color and the colordirection. When an application tries to use a color or direction that is not supported then the Service Provider will return the generic error WFS ERR UNSUPP DATA.

#### **Input Param**

#### LPWFSDEPSETGUIDLIGHT lpSetGuidLight;

#### wGuidLight

Specifies the index of the guidance light to set as one of the values defined within the capabilities section.

#### dwCommand

Specifies the state of the guidance light indicator as WFS\_DEP\_GUIDANCE\_OFF or a combination of the following flags consisting of one type B, <u>optionally one type C</u> and optionally one type <u>CD</u>. If no value of type C is specified then the default color is used. The Service Provider determines which color is used as the default color.

Value	Meaning	Type
WFS_DEP_GUIDANCE_OFF	The light indicator is turned off.	A
WFS_DEP_GUIDANCE_SLOW_FLASH	The light indicator is set to flash	В
	slowly.	
WFS_DEP_GUIDANCE_MEDIUM_FLASH	The light indicator is set to	В
	flash medium frequency.	
WFS_DEP_GUIDANCE_QUICK_FLASH	The light indicator is set to	В
	flash quickly.	
WFS_DEP_GUIDANCE_CONTINUOUS	The light indicator is turned	В
	on continuously (steady).	
WFS_DEP_GUIDANCE_RED	The light indicator	C
	color is set to red.	
WFS_DEP_GUIDANCE_GREEN	The light indicator	C
	color is set to green.	
WFS_DEP_GUIDANCE_YELLOW	The light indicator	C
	color is set to yellow.	
WFS_DEP_GUIDANCE_BLUE	The light indicator	C
	color is set to blue.	
WFS_DEP_GUIDANCE_CYAN	The light indicator	C
	color is set to cyan.	
WFS_DEP_GUIDANCE_MAGENTA	The light indicator	C
	color is set to magenta.	
WFS_DEP_GUIDANCE_WHITE	The light indicator	C
	color is set to white.	
WFS_DEP_GUIDANCE_ENTRY	The light indicator is set	D
	to the entry state.	
WFS_DEP_GUIDANCE_EXIT	The light indicator is set	D
	to the exit state.	

#### 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_DEP_INVALID_PORT	An attempt to set a guidance light to a new
	value was invalid because the guidance light
	does not exist.

**Events** 

Only the generic events defined in [Ref. 1] can be generated by this command.

**Comments** 

Guidance light support was added into the DEP primarily to support guidance lights for

workstations where more than one instance of a DEP is present. The original SIU guidance light mechanism was not able to manage guidance lights for workstations with multiple DEPs. This command can also be used to set the status of the DEP guidance lights when only one instance of a DEP is present.

The slow and medium flash rates must not be greater than 2.0 Hz. It should be noted that in order to comply with American Disabilities Act guidelines only a slow or medium flash rate must be used

# 5.7 WFS CMD DEP SUPPLY REPLENISH

### **Description**

After the supplies have been replenished, this command is used to indicate that the specified supplies have been replenished and are expected to be in a healthy state.

Hardware that cannot detect the level of a supply and reports on the supply's status using metrics (or some other means), must assume the supply has been fully replenished after this command is issued. The appropriate threshold event must be broadcast.

Hardware that can detect the level of a supply must update its status based on its sensors, generate a threshold event if appropriate and succeed the command even if the supply has not been replenished. If it has already detected the level and reported the threshold before this command was issued, the command must succeed and no threshold event is required.

#### **Input Param**

LPWFSDEPSUPPLYREPLEN lpSupplyReplen;

#### fwSupplyReplen

Specifies the supply that was replenished as a combination of the following values:

Value	Meaning
WFS_DEP_REPLEN_ENV	The envelope supply was replenished.
WFS_DEP_REPLEN_TONER	The toner supply was replenished.

#### 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 by this command:

Value	Meaning
WFS_USRE_DEP_ENVTHRESHOLD	This user event is used to specify that the state of the envelope supply threshold has been cleared.
WFS_USRE_DEP_TONERTHRESHOLD	This user event is used to specify that the state of the toner (or ink supply or the state of a ribbon) supply threshold has been cleared.

# Comments

If any one of the specified supplies is not supported by a Service Provider,

WFS\_ERR\_UNSUPP\_DATA should be returned, and no replenishment actions will be taken by the Service Provider.

#### 5.8 WFS\_CMD\_DEP\_POWER\_SAVE\_CONTROL

### **Description**

This command activates or deactivates the power-saving mode.

If the Service Provider receives another execute command while in power saving mode, the Service Provider automatically exits the power saving mode, and executes the requested command. If the Service Provider receives an information command while in power saving mode, the Service Provider will not exit the power saving mode.

#### **Input Param**

LPWFSDEPPOWERSAVECONTROL lpPowerSaveControl;

```
typedef struct _wfs_dep_power_save_control
                          usMaxPowerSaveRecoveryTime;
     USHORT
     } WFSDEPPOWERSAVECONTROL, *LPWFSDEPPOWERSAVECONTROL;
```

#### usMaxPowerSaveRecovervTime

Specifies the maximum number of seconds in which the device must be able to return to its normal operating state when exiting power save mode. The device will be set to the highest possible power save mode within this constraint. If usMaxPowerSaveRecoveryTime is set to zero then the device will exit the power saving mode.

### 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_DEP_POWERSAVETOOSHORT	The power saving mode has not been
	activated because the device is not able to
	resume from the power saving mode within
	the specified
	usMaxPowerSaveRecoveryTime value.
WFS_ERR_DEP_POWERSAVEMEDIAPRES	ENT
	The power saving mode has not been
	activated because media is present inside the
	device.

#### **Events**

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

Value	Meaning
WES SRVE DEP POWER SAV	E CHANGE The power save recovery time has changed.

#### **Comments**

None.

## WFS CMD DEP 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 DEP 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 DEP SYNCHRONIZE COMMAND again in order to start a synchronization.

#### LPWFSDEPSYNCHRONIZECOMMAND lpSynchronizeCommand: **Input Param**

typedef struct wfs dep synchronize command DWORD dwCommand: lpCmdData; LPVOID } WFSDEPSYNCHRONIZECOMMAND, \*LPWFSDEPSYNCHRONIZECOMMAND;

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. For example, if dwCommand is WFS CMD DEP ENTRY then lpCmdData will point to a WFSDEPENVELOPE structure. 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 DEP COMMANDUNSUPP	The command specified in the dwCommand
		field is not supported by the Service
		Provider.
	WFS_ERR_DEP_SYNCHRONIZEUNSUPP	The preparation for the command specified
		in the dwCommand with the parameter
		specified in the <i>lpCmdData</i> is not supported
		by the Service Provider.
5	Only the generic events defined in [Ref. 1] can be	generated by this command.

**Events** 

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

# 6. Events

# 6.1 WFS\_SRVE\_DEP\_ENVTAKEN

**Description** This service event is used to specify that the envelope has been taken by the customer.

**Event Param** None. **Comments** None.

# 6.2 WFS\_EXEE\_DEP\_ENVDEPOSITED

**Description** This execute event is used to specify that the envelope has been deposited in the deposit container.

**Event Param** None. **Comments** None.

# 6.3 WFS\_EXEE\_DEP\_DEPOSITERROR

**Description** This execute event is used to specify that an error occurred during the deposit operation. For every

error that occurred a single execute event is generated.

**Event Param** LPLONG lplError;

lplError

For a list of possible error conditions see the description of the WFS\_CMD\_DEP\_ENTRY

command.

Comments None.

# WFS\_USRE\_DEP\_DEPTHRESHOLD

Description This user event is used to specify that the state of the deposit container reached a threshold.

LPWORD lpwDepositThreshold; **Event Param** 

lpwDepositThreshold
Specified 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.

None. **Comments** 

# 6.5 WFS\_USRE\_DEP\_TONERTHRESHOLD

**Description** This user event is used to specify that the state of the toner (or ink supply or the state of a ribbon)

reached a threshold.

**Event Param** LPWORD lpwTonerThreshold;

lpwTonerThreshold

Specified as one of the following flags:

Value	Meaning
WFS_DEP_TONERFULL	The toner or ink supply is full or the ribbon
	is OK.
WFS_DEP_TONERLOW	The toner or ink supply is low or the print contrast with a ribbon is weak.
WFS_DEP_TONEROUT	The toner or ink supply is empty or the print contrast with a ribbon is not sufficient any more.

**Comments** None.

# 6.6 WFS\_USRE\_DEP\_ENVTHRESHOLD

**Description** This user event is used to specify that the state of the envelope supply reached a threshold.

**Event Param** LPWORD lpwEnvelopeThreshold;

lpw Envel ope Threshold

Specified as one of the following flags:

Value	Meaning
WFS_DEP_ENVOK	The envelope supply is present and in a good
	state.
WFS_DEP_ENVLOW	The envelope supply is present but low.
WFS DEP ENVEMPTY	The envelope supply is present but empty.
	No envelopes can be dispensed.

Comments None.

# 6.7 WFS\_SRVE\_DEP\_CONTINSERTED

**Description** This service event is used to specify that the deposit container has been reinserted into the device.

**Event Param** None. **Comments** None.

# 6.8 WFS\_SRVE\_DEP\_CONTREMOVED

**Description** This service event is used to specify that the deposit container has been removed from the device.

Event Param None.Comments None.

# 6.9 WFS\_SRVE\_DEP\_ENVINSERTED

**Description** This service event is used to specify that an envelope has been inserted by the customer.

**Event Param** None. **Comments** None.

# 6.10 WFS\_SRVE\_DEP\_MEDIADETECTED

# **Description**

This event is generated when media is detected in the device during a reset operation. The media may be detected as a result of the reset operation on the envelope dispenser, the envelope depositor, or both.

#### **Event Param**

LPWFSDEPMEDIADETECTED lpMediaDetected;

### wDispenseMedia

Specifies the dispensed envelope position after the reset operation, as one of the following values:

Value	Meaning
WFS_DEP_NOMEDIA	No dispensed media was detected during the
	reset operation.
WFS_DEP_MEDIARETRACTED	The media was retracted into the deposit
	container during the reset operation.
WFS_DEP_MEDIADISPENSER	The media was retracted into the envelope
	dispenser during the reset operation.
WFS_DEP_MEDIAEJECTED	The media is in the exit slot.
WFS DEP MEDIAJAMMED	The media is jammed in the device.
WFS_DEP_MEDIAUNKNOWN	The media is in an unknown position.

### wDepositMedia

Specifies the deposited media position after the reset operation, as one of the following values:

Value	Meaning
WFS_DEP_NOMEDIA	No deposited media was detected during the reset operation.
WFS_DEP_MEDIARETRACTED	The media was retracted into the deposit container during the reset operation.
WFS_DEP_MEDIAEJECTED	The media is in the exit slot.
WFS_DEP_MEDIAJAMMED	The media is jammed in the device.
WFS_DEP_MEDIAUNKNOWN	The media is in an unknown position.

### **Comments**

None.

# 6.11 WFS\_EXEE\_DEP\_INSERTDEPOSIT

**Description** This event notifies the application when the device is ready for the user to make the deposit. This

event is mandatory.

**Event Param** None. **Comments** None.

# 6.12 WFS\_SRVE\_DEP\_DEVICEPOSITION

**Description** This service event reports that the device has changed its position status.

**Event Param** LPWFSDEPDEVICEPOSITION lpDevicePosition;

wPosition

Position of the device as one of the following values:

Value	Meaning
WFS_DEP_DEVICEINPOSITION	The device is in its normal operating
	position.
WFS_DEP_DEVICENOTINPOSITION	The device has been removed from its
	normal operating position.
WFS_DEP_DEVICEPOSUNKNOWN	The position of the device cannot be
	determined.

**Comments** None.

# 6.13 WFS\_SRVE\_DEP\_POWER\_SAVE\_CHANGE

**Description** This service event specifies that the power save recovery time has changed.

**Event Param** LPWFSDEPPOWERSAVECHANGE lpPowerSaveChange;

*usPowerSaveRecoveryTime* 

Specifies the actual number of seconds required by the device to resume its normal operational state. This value is zero if the device exited the power saving mode.

Comments

If another device class compounded with this device enters into a power saving mode, this device will automatically enter into the same power saving mode and this event will be generated.

# 7. C - Header file

```
*****************
   * xfsdep.h XFS - Depository (DEP) definitions
                         Version 3.<del>20</del>30 (March <del>02 2011</del>19 2015)
   *****************************
   #ifndef __INC_XFSDEP__H
   #define INC XFSDEP H
  #ifdef __cplu
extern "C" {
                cplusplus
   #endif
  #include <xfsapi.h>
   /* be aware of alignment */
   #pragma pack(push,1)
   /* values of WFSDEPCAPS.wClass */
                     WFS SERVICE CLASS DEP
   #define
 #define WFS SERVICE CLASS VERSION DEP
                                                                                       (0x14030x1E03) /* Version 3.2030 */
   #define
                     WFS SERVICE CLASS NAME DEP
                                                                                       (WFS SERVICE CLASS DEP * 100)
   #define DEP SERVICE OFFSET
   /* DEP Info Commands */
   #define
                     WFS INF DEP STATUS
                                                                                     (DEP SERVICE OFFSET + 1)
                     WFS INF DEP CAPABILITIES
                                                                                      (DEP SERVICE OFFSET + 2)
   #define
   /* DEP Execute Commands */
  #define WFS_CMD_DEP_ENTRY (DEP_SERVICE_OFFSET + 1)
#define WFS_CMD_DEP_DISPENSE (DEP_SERVICE_OFFSET + 2)
#define WFS_CMD_DEP_RETRACT (DEP_SERVICE_OFFSET + 3)
#define WFS_CMD_DEP_RESET_COUNT (DEP_SERVICE_OFFSET + 5)
#define WFS_CMD_DEP_RESET (DEP_SERVICE_OFFSET + 6)
#define WFS_CMD_DEP_SET_GUIDANCE_LIGHT (DEP_SERVICE_OFFSET + 7)
#define WFS_CMD_DEP_SUPPLY_REPLENISH (DEP_SERVICE_OFFSET + 8)
#define WFS_CMD_DEP_POWER_SAVE_CONTROL (DEP_SERVICE_OFFSET + 9)
#define WFS_CMD_DEP_SYNCHRONIZE_COMMAND (DEP_SERVICE_OFFSET + 10)
#define
                                                                                       (DEP SERVICE OFFSET + 10)
   /* DEP Messages */
  #define WFS_SRVE_DEP_ENVTAKEN
#define WFS_EXEE_DEP_ENVDEPOSITED
#define WFS_EXEE_DEP_DEPOSITEROR
#define WFS_USRE_DEP_DEPTHRESHOLD
#define WFS_USRE_DEP_TONERTHRESHOLD
                                                                                  (DEP_SERVICE_OFFSET + 1)
(DEP_SERVICE_OFFSET + 2)
(DEP_SERVICE_OFFSET + 3)
(DEP_SERVICE_OFFSET + 4)
                                                                                 (DEP_SERVICE_OFFSET + 5)
(DEP_SERVICE_OFFSET + 6)
(DEP_SERVICE_OFFSET + 7)
(DEP_SERVICE_OFFSET + 8)
(DEP_SERVICE_OFFSET + 9)
  #define WFS_USRE_DEP_TONERTHRESHOLD
#define WFS_USRE_DEP_ENVTHRESHOLD
#define WFS_SRVE_DEP_CONTINSERTED
#define WFS_SRVE_DEP_CONTREMOVED
#define WFS_SRVE_DEP_ENVINSERTED
  #define WFS_SRVE_DEP_DEVICEPOSITION (DEP_SERVICE_OFFSET + 12)
#define WFS_SRVE_DEP_DEVICEPOSITION (DEP_SERVICE_OFFSET + 12)
#define WFS_SRVE_DEP_DEVICEPOSITION (DEP_SERVICE_OFFSET + 12)
#define WFS_SRVE_DEP_POWER_SAVE_CHANGE (DEP_SERVICE_OFFSET + 12)
  /* values of WFSDEPSTATUS.fwDevice */
                                                                                  WFS_STAT_DEVONLINE WFS_STAT_DEVOFFLINE
   #define
                     WFS DEP DEVONLINE
   #define
                     WFS_DEP_DEVOFFLINE
                     WFS DEP DEVPOWEROFF
                                                                                       WFS STAT DEVPOWEROFF
   #define
```

```
#define WFS_DEP_DEVBUSY WFS_DEP_DEVNODEVICE
          ____DUSY
wrs_DEP_DEVNODEVICE
WFS_DEP_DEVHWERROR
WFS_DEP_DEVUSEDET
WFS_DEP_DEVUSEDET
                                                             WFS STAT DEVBUSY
                                                           WFS_STAT_DEVNODEVICE
                                                           WFS_STAT_DEVHWERROR
WFS_STAT_DEVUSERERROR
WFS_STAT_DEVFRAUDATTEMPT
#define
#define
               WFS DEP DEVUSERERROR
#define
              WFS DEP DEVFRAUDATTEMPT
                                                          WFS STAT DEVPOTENTIALFRAUD
#define
             WFS DEP DEVPOTENTIALFRAUD
/* values of WFSDEPSTATUS.fwDepContainer, fwDepTransport */
#define WFS_DEP_DEPOK
#define WFS_DEP_DEPHIGH
#define WFS_DEP_DEPFULL
                                                              (0)
                                                              (1)
                                                              (2)
#define
             WFS_DEP_DEPINOP
                                                              (3)
#define WFS_DEP_DEPMISSING
#define WFS_DEP_DEPUNKNOWN
#define WFS_DEP_DEPNOTSUPP
                                                              (4)
                                                              (5)
                                                              (6)
/* values of WFSDEPSTATUS.fwEnvSupply, fwEnvDispenser */
#define WFS_DEP_ENVOK
#define WFS_DEP_ENVLOW
#define WFS_DEP_ENVEMPTY
                                                              (1)
                                                              (2)
#define WFS DEP ENVINOP
                                                              (3)
#define WFS_DEP_ENVMISSING
#define WFS_DEP_ENVUNKNOWN
#define WFS_DEP_ENVNOTSUPP
#define WFS_DEP_ENVUNLOCKED
                                                              (4)
                                                             (5)
                                                              (6)
                                                             (7)
/* values of WFSDEPSTATUS.fwPrinter */
#define WFS_DEP_PTROK
#define WFS_DEP_PTRINOP
#define WFS_DEP_PTRUNKNOWN
                                                              (0)
                                                              (1)
                                                              (2)
#define WFS DEP PTRNOTSUPP
                                                              (3)
/* values of WFSDEPSTATUS.fwToner */
             WFS DEP TONERFULL
                                                              (0)
#define
#define WFS DEP TONERLOW
                                                             (1)
#define WFS_DEP_TONEROUT
                                                              (2)
#define WFS_DEP_TONERUNKNOWN #define WFS_DEP_TONERNOTSUPP
                                                              (3)
                                                              (4)
/* values of WFSDEPSTATUS.fwShutter */
#define WFS_DEP SHTCLOSED
                                                              (0)
              WFS_DEP_SHTOPEN
WFS_DEP_SHTJAMMED
#define
                                                              (1)
#define
                                                              (2)
               WFS DEP SHTUNKNOWN
#define
                                                              (3)
             WFS DEP SHTNOTSUPP
#define
                                                              (4)
/* Size and max index of dwGuidLights array */
#define
               WFS DEP GUIDLIGHTS SIZE
                                                              (32)
             WFS DEP GUIDLIGHTS MAX
#define
                                                              (WFS DEP GUIDLIGHTS SIZE - 1)
/* Indices of WFSDEPSTATUS.dwGuidLights [...]
                WFSDEPCAPS.dwGuidLights [...]
#define
             WFS DEP GUIDANCE ENVDEPOSITORY
                                                              (0)
#define
             WFS DEP GUIDANCE ENVDISPENSER
                                                              (1)
/* Values of WFSDEPSTATUS.dwGuidLights [...]
                WFSDEPCAPS.dwGuidLights [...] */
#define WFS_DEP_GUIDANCE_NOT_AVAILABLE #define WFS_DEP_GUIDANCE_OFF
                                                             (0x00000000)
                                                             (0x00000001)
             WFS_DEP_GUIDANCE_SLOW_FLASH
WFS_DEP_GUIDANCE_MEDIUM_FLASH
#define
                                                             (0x00000004)
#define
                                                             (0x00000008)
```

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```
#define WFS_DEP_GUIDANCE_QUICK_FLASH
#define WFS_DEP_GUIDANCE_CONTINUOUS
#define WFS_DEP_GUIDANCE_RED
#define WFS_DEP_GUIDANCE_GREEN
#define WFS_DEP_GUIDANCE_YELLOW
#define WFS_DEP_GUIDANCE_BLUE
#define WFS_DEP_GUIDANCE_CYAN
#define WFS_DEP_GUIDANCE_MAGENTA
#define WFS_DEP_GUIDANCE_WHITE
#define WFS_DEP_GUIDANCE_ENTRY
#define WFS_DEP_GUIDANCE_ENTRY
#define WFS_DEP_GUIDANCE_ENTRY
                                                                   (0x0000010)
(0x00000080)
                                                                       (0x00000100)
                                                                       (0x00000200)
                                                                    (0x00000200)
(0x00000400)
(0x00000800)
                                                                     (0x00001000)
                                                                     (0x00002000)
                                                                       (0x00004000)
                                                                       (0x00100000)
  #define WFS DEP GUIDANCE EXIT
                                                                       (0 \times 0.0200000)
  /* values of WFSDEPSTATUS.fwDepositLocation */
  #define WFS DEP DEPLOCNOTSUPP
                                                                        (0)
  #define WFS DEP DEPLOCUNKNOWN
                                                                        (1)
  #define WFS DEP DEPLOCCONTAINER
                                                                        (2)
  #define WFS DEP DEPLOCTRANSPORT
                                                                        (3)
  #define WFS_DEP_DEPLOCPRINTER
#define WFS_DEP_DEPLOCSHUTTER
                                                                        (4)
                                                                        (5)
  #define WFS DEP DEPLOCNONE
                                                                        (6)
  #define WFS DEP DEPLOCREMOVED
                                                                        (7)
  /* values of WFSDEPSTATUS.wDevicePosition
                    WFSDEPDEVICEPOSITION.wPosition */
  #define WFS_DEP_DEVICEINPOSITION
#define WFS_DEP_DEVICENOTINPOSITION
#define WFS_DEP_DEVICEPOSUNKNOWN
#define WFS_DEP_DEVICEPOSNOTSUPP
                                                                       (0)
                                                                       (1)
                                                                       (2)
                                                                        (3)
  /* values of WFSDEPCAPS.fwType */
                                                                       (0x0001)
  #define WFS_DEP_TYPEENVELOPE
  #define
                  WFS DEP TYPEBAGDROP
                                                                        (0x0002)
  /* values of WFSDEPCAPS.fwEnvSupply */
  #define
                 WFS DEP ENVMOTORIZED
                                                                        (1)
  #define WFS_DEP_ENVMANUAL #define WFS_DEP_ENVNONE
                                                                        (2)
                                                                        (3)
  /* values of WFSDEPCAPS.fwRetractEnvelope */
  #define
                 WFS DEP NORETRACT
                                                                        (1)
  #define
                   WFS_DEP_RETRACTDEP
                                                                        (2)
                   WFS DEP RETRACTDISP
  #define
                                                                        (3)
  /* values of WFSDEPCAPS.fwCharSupport, WFSDEPENVELOPE.fwCharSupport */
  #define
                 WFS_DEP_ASCII
WFS_DEP_UNICODE
                                                                        (0x0001)
  #define
                                                                        (0x0002)
  /* values of dwDepMediaControl */
  #define
                 WFS DEP CTRLEJECT
                                                                        (0x0001)
  #define
                   WFS DEP CTRLRETRACT
                                                                        (0x0002)
  /* values of WFSDEPMEDIADETECTED.wDispenseMedia, wDepositMedia */
  #define WFS_DEP_NOMEDIA
#define WFS_DEP_MEDIARETRACTED
#define WFS_DEP_MEDIADISPENSER
#define WFS_DEP_MEDIAEJECTED
                                                                        (1)
                                                                        (2)
                                                                       (3)
                                                                       (4)
  #define
                 WFS DEP MEDIAJAMMED
                                                                        (5)
  #define
                 WFS DEP MEDIAUNKNOWN
                                                                        (6)
  /* values of WFSDEPSUPPLYREPLEN.fwSupplyReplen */
```

```
(0x0001)
#define WFS_DEP_REPLEN_ENV
                                                       (0x0002)
#define
            WFS DEP REPLEN TONER
/* values of WFSDEPSTATUS.wAntiFraudModule */
#define WFS_DEP_AFMNOTSUPP
#define WFS_DEP_AFMOK
#define WFS_DEP_AFMINOP
#define WFS_DEP_AFMDEVICEDETECTED
#define WFS_DEP_AFMUNKNOWN
                                                       (0)
                                                      (1)
                                                       (2)
                                                      (3)
                                                       (4)
#define WFS ERR DEP DEPFULL
                                                      (-(DEP SERVICE OFFSET + 0))
                                                     (-(DEP_SERVICE_OFFSET + 1))
(-(DEP_SERVICE_OFFSET + 2))
#define WFS_ERR_DEP_DEPJAMMED
#define WFS ERR DEP ENVEMPTY
                                                      (-(DEP SERVICE OFFSET + 3))
#define WFS ERR DEP ENVJAMMED
#define WFS ERR DEP ENVSIZE
                                                     (-(DEP SERVICE OFFSET + 4))
#define WFS ERR DEP NOENV
                                                     (-(DEP SERVICE OFFSET + 5))
#define WFS ERR DEP PTRFAIL
                                                      (-(DEP_SERVICE_OFFSET + 6))
#define WFS_ERR_DEP_SHTNOTCLOSED
#define WFS_ERR_DEP_SHTNOTOPENED
                                                      (-(DEP_SERVICE_OFFSET + 7))
(-(DEP_SERVICE_OFFSET + 8))
                                                     (-(DEP SERVICE OFFSET + 9))
#define WFS ERR DEP CONTMISSING
#define WFS ERR DEP DEPUNKNOWN
                                                     (-(DEP SERVICE OFFSET + 10))
#define WFS ERR DEP CHARSETNOTSUPP
                                                     (-(DEP SERVICE OFFSET + 11))
                                                     (-(DEP_SERVICE_OFFSET + 12))
(-(DEP_SERVICE_OFFSET + 13))
(-(DEP_SERVICE_OFFSET + 14))
#define WFS_ERR_DEP_TONEROUT
#define WFS_ERR_DEP_INVALID_PORT
#define WFS_ERR_DEP_POWERSAVETOOSHORT
#define WFS_ERR_DEP_POWERSAVETOOSHORT (-(DEP_SERVICE_OFFSET + 14))
#define WFS_ERR_DEP_POWERSAVEMEDIAPRESENT (-(DEP_SERVICE_OFFSET + 15))
#define WFS ERR DEP COMMANDUNSUPP
                                                      (-(DEP SERVICE OFFSET + 16))
#define WFS ERR DEP SYNCHRONIZEUNSUPP
                                                      (-(DEP SERVICE OFFSET + 17))
/*_____*/
/* DEP Info Command Structures and variables */
/*=======*/
typedef struct _wfs_dep_status
     WORD
                       fwDevice:
     WORD
                      fwDepContainer;
     WORD
                     fwDepTransport;
                     fwEnvSupply;
fwEnvDispenser;
fwPrinter;
     WORD
     WORD
     WORD
                     fwToner;
     WORD
     WORD
                     fwShutter;
                     wNumOfDeposits;
     WORD
                    lpszExtra;
dwGuidLights[WFS_DEP_GUIDLIGHTS_SIZE];
fwDepositLocation;
      LPSTR
      DWORD
     WORD
                     wDevicePosition;
      WORD
     USHORT usPowerSaveRecoveryTime;
      WORD
                       wAntiFraudModule;
} WFSDEPSTATUS, *LPWFSDEPSTATUS;
typedef struct _wfs_dep_caps
     WORD
                       wClass:
     WORD
                       fwType;
     WORD
                       fwEnvSupply;
                      bDepTransport;
     BOOT
      BOOL
                      bPrinter;
     BOOL
                      bToner;
                    bShutter;
bPrintOnRetracts;
fwRetractEnvelope;
      BOOL
     BOOL
     WORD
                     wMaxNumChars;
      WORD
      WORD
                      fwCharSupport;
                    lpszExtra;
dwGuidLights[WFS_DEP_GUIDLIGHTS_SIZE];
bPowerSaveControl;
     LPSTR
     DWORD
      BOOT
```

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```
bAntiFraudModule;
    LPDWORD
                lpdwSynchronizableCommands;
} WFSDEPCAPS, *LPWFSDEPCAPS;
/*============*/
/* DEP Execute Command Structures */
typedef struct _wfs_dep_envelope
                lpszPrintData;
                lpszUNICODEPrintData;
} WFSDEPENVELOPE, *LPWFSDEPENVELOPE;
typedef struct _wfs_dep_set_guidlight
    WORD
                wGuidLight;
    DWORD
                dwCommand;
} WFSDEPSETGUIDLIGHT, *LPWFSDEPSETGUIDLIGHT;
typedef struct wfs dep supply replen
                fwSupplyReplen;
} WFSDEPSUPPLYREPLEN, *LPWFSDEPSUPPLYREPLEN;
typedef struct wfs dep power save control
                 usMaxPowerSaveRecoveryTime;
} WFSDEPPOWERSAVECONTROL, *LPWFSDEPPOWERSAVECONTROL;
typedef struct wfs dep synchronize command
{
   DWORD
                 dwCommand;
                lpCmdData;
} WFSDEPSYNCHRONIZECOMMAND, *LPWFSDEPSYNCHRONIZECOMMAND;
/* DEP Message Structures */
/*----*/
typedef struct wfs dep media detected
    WORD
                wDispenseMedia;
    WORD
                wDepositMedia;
} WFSDEPMEDIADETECTED, *LPWFSDEPMEDIADETECTED;
typedef struct _wfs_dep_device_position
                wPosition:
} WFSDEPDEVICEPOSITION, *LPWFSDEPDEVICEPOSITION;
typedef struct _wfs_dep_power_save_change
    TISHORT
                usPowerSaveRecoveryTime;
} WFSDEPPOWERSAVECHANGE, *LPWFSDEPPOWERSAVECHANGE;
/* restore alignment */
#pragma pack(pop)
#ifdef cplusplus
} /*extern "C"*/
#endif
#endif /* INC XFSDEP H */
```