

# WORKSHOP AGREEMENT

CWA 14050-8

November 2000

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Extensions for Financial Services (XFS) interface specification - Release 3.0 - Part 8: Depository Device Class Interface

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#### **Foreword**

This CWA is revision 3.0 of the XFS interface specification.

The move from an XFS 2.0 specification (CWA 13449) to a 3.0 specification has been prompted by a series of factors.

Initially, there has been a technical imperative to extend the scope of the existing specification of the XFS Manager to include new devices, such as the Card Embossing Unit.

Similarly, there has also been pressure, through implementation experience and the advance of the Microsoft technology, to extend the functionality and capabilities of the existing devices covered by the specification.

Finally, it is also clear that our customers and the market are asking for an update to a specification, which is now over 2 years old. Increasing market acceptance and the need to meet this demand is driving the Workshop towards this release.

The clear direction of the CEN/ISSS XFS Workshop, therefore, is the delivery of a new Release 3.0 specification based on a C API. It will be delivered with the promise of the protection of technical investment for existing applications and the design to safeguard future developments.

The CEN/ISSS XFS Workshop gathers suppliers as well as banks and other financial service companies. A list of companies participating in this Workshop and in support of this CWA is available from the CEN/ISSS Secretariat.

This CWA was formally approved by the XFS Workshop meeting on 2000-10-18. 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 3.0.

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 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 Class Interface Programmer's Reference
- Part 15: Cash In Module Device Class Interface- Programmer's Reference
- Part 16: Application Programming Interface (API) Service Provider Interface (SPI) Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) Programmer's Reference
- Part 17: Printer Device Class Interface Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) Programmer's Reference

Part 18: Identification Card Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 19: Cash Dispenser Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 20: PIN Keypad Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 21: Depository Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 22: Text Terminal Unit Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 23: Sensors and Indicators Unit Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 24: Camera Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 25: Identification Card Device Class Interface - PC/SC Integration Guidelines

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 http://www.cenorm.be/isss/Workshop/XFS.

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/ISSS makes no warranty, express or implied, with respect to this document.

Revision	History:

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1.0	May 24, 1993	Initial release of API and SPI specification
1.11	February 3, 1995	Separation of specification into separate documents for API/SPI and service class definitions
2.00	November 11, 1996	Update release encompassing the self-service environment
3.00	October 18, 2000	Addition of Reset command which replaces the CLEAR_TRANSPORT command.
		Addition of Threshold Event to ENTRY and RETRACT commands and new status values for container and envelope supply status.
		UNICODE support
		Addition of the events WFS_SRVE_DEP_ENVINSERTED and WFS_SRVE_DEP_MEDIADETECTED.
		Created a References chapter.
		For a detailed description see CWA 14050-21 Depository Migration from Version 2.00 to Version 3.00 Programmer's Reference Revision 1.00, October 18, 2000

#### 1. Introduction

### 1.1 Background to Release 3.0

The CEN XFS Workshop is a continuation of the Banking Solution Vendors Council workshop and maintains a technical commitment to the Win 32 API. However, the XFS Workshop has extended the franchise of multi vendor software by encouraging the participation of both banks and vendors to take part in the deliberations of the creation of an industry standard. This move towards opening the participation beyond the BSVC's original membership has been very successful with a current membership level of more than 20 companies.

The fundamental aims of the XFS Workshop are to promote a clear and unambiguous specification for both service providers and application developers. This has been achieved to date by sub groups working electronically and quarterly meetings.

The move from an XFS 2.0 specification to a 3.0 specification has been prompted by a series of factors. Initially, there has been a technical imperative to extend the scope of the existing specification of the XFS Manager to include new devices, such as the Card Embossing Unit.

Similarly, there has also been pressure, through implementation experience and the advance of the Microsoft technology, to extend the functionality and capabilities of the existing devices covered by the specification.

Finally, it is also clear that our customers and the market are asking for an update to a specification, which is now over 2 years old. Increasing market acceptance and the need to meet this demand is driving the Workshop towards this release.

The clear direction of the XFS Workshop, therefore, is the delivery of a new Release 3.0 specification based on a C API. It will be delivered with the promise of the protection of technical investment for existing applications and the design to safeguard future developments.

#### 1.2 XFS Service-Specific Programming

The service classes are defined by their service-specific commands and the associated data structures, error codes, messages, etc. These commands are used to request functions that are specific to one or more classes of service providers, but not all of them, and therefore are not included in the common API for basic or administration functions.

When a service-specific command is common among two or more classes of service providers, the syntax of the command is as similar as possible across all services, since a major objective of the Extensions for Financial Services is to standardize command codes and structures for the broadest variety of services. For example, using the **WFSExecute** function, the commands to read data from various services are as similar as possible to each other in their syntax and data structures.

In general, the specific command set for a service class is defined as the union of the sets of specific capabilities likely to be provided by the developers of the services of that class; thus any particular device will normally support only a subset of the command set defined for the class.

There are three cases in which a service provider may receive a service-specific command that it does not support:

• The requested capability is defined for the class of service providers by the XFS specification, the particular vendor implementation of that service does not support it, and the unsupported capability is *not* considered to be fundamental to the service. In this case, the service provider returns a successful completion, but does no operation. An example would be a request from an application to turn on a control indicator on a passbook printer; the service provider recognizes the command, but since the passbook printer it is managing does not include that indicator, the service provider does no operation and returns a successful completion to the application.

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- The requested capability is defined for the class of service providers by the XFS specification, the particular vendor implementation of that service does not support it, and the unsupported capability *is* considered to be fundamental to the service. In this case, a WFS\_ERR\_UNSUPP\_COMMAND error is returned to the calling application. An example would be a request from an application to a cash dispenser to dispense coins; the service provider recognizes the command but, since the cash dispenser it is managing dispenses only notes, returns this error.
- The requested capability is *not* defined for the class of service providers by the XFS specification. In this case, a WFS\_ERR\_INVALID\_COMMAND error is returned to the calling application.

This design allows implementation of applications that can be used with a range of services that provide differing subsets of the functionalities that are defined for their service class. Applications may use the **WFSGetInfo** and **WFSAsyncGetInfo** commands to inquire about the capabilities of the service they are about to use, and modify their behavior accordingly, or they may use functions and then deal with WFS\_ERR\_UNSUPP\_COMMAND error returns to make decisions as to how to use the service.

### 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 3.00, October 18, 2000

### 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;
   WORD
                 fwEnvSupply;
   WORD
                 fwEnvDispenser;
   WORD
                 fwPrinter;
   WORD
                 fwToner;
   WORD
                 fwShutter;
   WORD
                 wNumOfDeposits;
   LPSTR
                 lpszExtra;
   } 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
WEG DED DEVELOPED OF	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
	(WFS_DEP_DEVONLINE) or a permanent error
	condition has occurred
	(WFS_DEP_DEVHWERROR).
WFS_DEP_DEVBUSY	The device is busy and not able to process an Execute
11 5_DEI _DE 1 DOS I	command at this time.

#### 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	
	nsport mechanism that transports the envelope into the 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 so Value	upply unit as one of the following flags:  Meaning
WFS_DEP_ENVOK	The envelope supply unit is in a good state (and
W1 2_2 21 _22 ( V 0 11	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
WIS_DEI_ERVIROI	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 d	ispenser. Specified as one of the following flags.
Value	Meaning
WFS_DEP_ENVOK	The envelope dispenser is present and in a good state.
WFS_DEP_ENVINOP	The envelope dispenser is present but in an inoperable
	state. No envelopes can be dispensed.
WFS_DEP_ENVUNKNOWN	Due to a hardware error or other condition, the state
	of the envelope dispenser cannot be determined.
WFS_DEP_ENVNOTSUPP	The physical device has no envelope dispenser.
fwPrinter	
	ecified 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.
	The printer is inoperative.  Due to a hardware error or other condition, the state
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP	The printer is inoperative.  Due to a hardware error or other condition, the state
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP fwToner	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP  fwToner Specifies the state of the toner (or in	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP fwToner Specifies the state of the toner (or in flags:	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  ak) for the printer. Specified as one of the following
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP  fwToner Specifies the state of the toner (or in	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  ak) for the printer. Specified as one of the following  Meaning
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP fwToner Specifies the state of the toner (or in flags: Value WFS_DEP_TONERFULL	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  ak) for the printer. Specified as one of the following  Meaning  The toner cassette is full.
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP fwToner Specifies the state of the toner (or in flags: Value WFS_DEP_TONERFULL WFS_DEP_TONERLOW	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  ak) for the printer. Specified as one of the following  Meaning  The toner cassette is full.  The toner in the printer is low.
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP fwToner Specifies the state of the toner (or in flags: Value WFS_DEP_TONERFULL WFS_DEP_TONERLOW WFS_DEP_TONEROUT	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  ak) for the printer. Specified as one of the following  Meaning  The toner cassette is full.  The toner in the printer is low.  The toner in the printer is empty.
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP fwToner Specifies the state of the toner (or in flags: Value WFS_DEP_TONERFULL WFS_DEP_TONERLOW	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  Ak) for the printer. Specified as one of the following  Meaning  The toner cassette is full.  The toner in the printer is low.  The toner in the printer is empty.  Due to a hardware error or other condition, the state
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN  WFS_DEP_PTRNOTSUPP  fwToner Specifies the state of the toner (or in flags: Value  WFS_DEP_TONERFULL WFS_DEP_TONERLOW WFS_DEP_TONERLOW WFS_DEP_TONEROUT WFS_DEP_TONERUNKNOWN	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  Ak) for the printer. Specified as one of the following  Meaning  The toner cassette is full.  The toner in the printer is low.  The toner in the printer is empty.  Due to a hardware error or other condition, the state of the toner for the printer cannot be determined.
WFS_DEP_PTRINOP WFS_DEP_PTRUNKNOWN WFS_DEP_PTRNOTSUPP  fwToner Specifies the state of the toner (or in flags: Value WFS_DEP_TONERFULL WFS_DEP_TONERLOW WFS_DEP_TONEROUT	The printer is inoperative.  Due to a hardware error or other condition, the state of the printer cannot be determined.  The physical device has no printer.  Ak) for the printer. Specified as one of the following  Meaning  The toner cassette is full.  The toner in the printer is low.  The toner in the printer is empty.  Due to a hardware error or other condition, the state

#### 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

Specifies 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 will be null-terminated, with the final string terminating with two null characters.

#### **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.

### 4.2 WFS\_INF\_DEP\_CAPABILITIES

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

Input Param None.

**Output Param** 

BOOL bPrinter;
BOOL bToner;
BOOL bShutter;
BOOL bPrintOnRetracts;
WORD fwRetractEnvelope;

WORD wMaxNumChars;
WORD fwCharSupport;
LPSTR lpszExtra;
WFSDEPCAPS, \* LPWFSDEPCAPS;

wClass

Specifies the logical service class, value is:

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.

Defines what type of	Envelope Supply	Unit exists as one	e 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 and is either TRUE or FALSE.

#### *bPrinter*

Specifies whether a printer is available and is either TRUE or FALSE.

#### **bToner**

Specifies whether the printer has a toner (or ink) cassette and is either TRUE or FALSE.

#### **bShutter**

Specifies whether a deposit transport shutter is available and is either TRUE or FALSE.

#### **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 and is either TRUE or FALSE.

#### .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

Specifies 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 will be null-terminated, with the final string terminating with two null characters.

#### **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 deposits it into the deposit container. If the envelope entered has an incorrect size and the deposit was not completed, the envelope is 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 is sent when the envelope is removed.

If a deposit takes place then this command will report a successful operation and any errors detected during the operation will be returned by the WFS\_EXEE\_DEP\_DEPOSITERROR event. If the successful deposit causes the deposit bin to reach a high or full threshold, a WFS USRE DEP DEPTHRESHOLD event will be sent.

#### **Input Param**

```
LPWFSDEPENVELOPE
                    lpEnvelope;
typedef struct _wfs_dep_envelope
   LPSTR
                 lpszPrintData;
   LPWSTR
                 lpszUNICODEPrintData;
   } WFSDEPENVELOPE, * LPWFSDEPENVELOPE;
```

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 None.

#### **Error Codes**

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

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.
WFS_ERR_DEP_ENVSIZE	The envelope entered has an incorrect size.
WFS_ERR_DEP_PTRFAIL	The printer failed.
WFS_ERR_DEP_SHTNOTCLOSED	The shutter failed to close.
WFS_ERR_DEP_SHTNOTOPENED	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 lpszPrintData or
	lpszUNICODEPrintData 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.

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..

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

**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.

Error Codes

In addition to the generic error codes defined in [Ref. 1], the following error codes can be

generated by this command:

Value

WES\_ERR\_DEP\_ENVEMPTY

WFS\_ERR\_DEP\_ENVJAMMED

There is no envelope in the envelope unit.

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.

**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\_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;

typedef struct _wfs_dep_envelope
    {
    LPSTR lpszPrintData;
    LPSTR lpszUNICODEPrintData;
    } WFSDEPENVELOPE; * LPWFSDEPENVELOPE;
```

lpszPrintData

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

lpsz UNICODEPrintData

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:

	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
	WIB_ERRE_BER_TONERROOT	with ribbon is not sufficient.
<b>Events</b>	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_TONERTHRESHOL	D This user event is used to specify that the
		state of the toner supply reached a threshold.
-		** *
Comments		UNICODEPrintData is longer than the maximum
	allowed characters, the error code WFS_ER	R_INVALID_DATA will be returned.

#### 5.4 WFS\_CMD\_DEP\_RESET\_COUNT

Description	This command is used to reset the present vaccontainer to zero.	llue for number of envelopes/bags in the deposit
Input Param	None.	
Output Param	None.	
<b>Error Codes</b>	Only the generic error codes defined in [Ref.	1] can be generated by this command.
Events	In addition to the generic events defined in [ this command:	Ref. 1], the following events can be generated by
	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 0).

### 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;

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

command.

**Comments** None.

#### 6.4 WFS\_USRE\_DEP\_DEPTHRESHOLD

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

Event Param LPWORD lpwDepositThreshold;

Specified as one of the following flags:

ValueMeaningWFS\_DEP\_DEPOKThe deposit container is in a good state.WFS\_DEP\_DEPHIGHThe deposit container is almost full (threshold).WFS\_DEP\_DEPFULLThe deposit container is full.

**Comments** None.

#### 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;

Specified as one of the following flags:

Specified as one of the following mag	59.
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;

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;

} WFSDEPMEDIADETECTED, \* LPWFSDEPMEDIADETECTED;

wDispenseMedia

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

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:
Specifies the deposited media position Value	after the reset operation, as one of the following values:  Meaning
Value	Meaning
Value	Meaning No deposited media was detected during the reset
Value WFS_DEP_NOMEDIA	Meaning  No deposited media was detected during the reset operation.
Value WFS_DEP_NOMEDIA	Meaning  No deposited media was detected during the reset operation.  The media was retracted into the deposit container
Value WFS_DEP_NOMEDIA WFS_DEP_MEDIARETRACTED	Meaning  No deposited media was detected during the reset operation.  The media was retracted into the deposit container during the reset operation.

Comments None.

#### 7. C-Header file

```
/*****************************
* xfsdep.h XFS - Depository (DEP) definitions
             Version 3.00 (10/18/00)
*************************
#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 */
#define
           WFS_SERVICE_CLASS_DEP
                                               (6)
           WFS_SERVICE_CLASS_VERSION_DEP
#define WFS_SERVICE_CLASS_VERSION_DEP
#define WFS_SERVICE_CLASS_NAME_DEP
                                                (0x0003) / * Version 3.00 * /
                                                 "DEP"
#define DEP_SERVICE_OFFSET
                                          (WFS_SERVICE_CLASS_DEP * 100)
/* 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_CLEAR_TRANSPORT (DEP_SERVICE_OFFSET + 4)
#define WFS_CMD_DEP_RESET_COUNT (DEP_SERVICE_OFFSET + 5)
#define WFS_CMD_DEP_RESET_COUNT (DEP_SERVICE_OFFSET + 5)
#define WFS_CMD_DEP_RESET
                                           (DEP_SERVICE_OFFSET + 6)
/* DEP Messages */
         WFS_SRVE_DEP_ENVTAKEN
                                           (DEP_SERVICE_OFFSET + 1)
#define
#define WFS_EXEE_DEP_ENVDEPOSITED
                                           (DEP_SERVICE_OFFSET + 2)
#define WFS_EXEE_DEP_DEPOSITEROR #define WFS_USRE_DEP_DEPTHRESHOLD
                                           (DEP_SERVICE_OFFSET + 3)
                                           (DEP_SERVICE_OFFSET + 4)
#define WFS_USRE_DEP_TONERTHRESHOLD (DEP_SERVICE_OFFSET + 5)
#define WFS_USRE_DEP_ENVTHRESHOLD
                                           (DEP_SERVICE_OFFSET + 6)
#define WFS_SRVE_DEP_CONTINSERTED #define WFS_SRVE_DEP_CONTREMOVED
           WFS_SRVE_DEP_CONTINSERTED
                                           (DEP_SERVICE_OFFSET + 7)
                                           (DEP_SERVICE_OFFSET + 8)
#define WFS_SRVE_DEP_ENVINSERTED
                                           (DEP_SERVICE_OFFSET + 9)
#define WFS_SRVE_DEP_MEDIADETECTED
                                           (DEP_SERVICE_OFFSET + 10)
/* values of WFSDEPSTATUS.fwDevice */
#define WFS_DEP_DEVONLINE
                                           WFS_STAT_DEVONLINE
#define
           WFS_DEP_DEVOFFLINE
                                           WFS_STAT_DEVOFFLINE
#define WFS_DEP_DEVPOWEROFF
                                          WFS_STAT_DEVPOWEROFF
#define WFS_DEP_DEVBUSY
                                         WFS_STAT_DEVBUSY
#define WFS_DEP_DEVNODEVICE #define WFS_DEP_DEVHWERROR
                                         WFS_STAT_DEVNODEVICE
WFS_STAT_DEVHWERROR
#define WFS_DEP_DEVUSERERROR
                                          WFS_STAT_DEVUSERERROR
/* values of WFSDEPSTATUS.fwDepContainer, fwDepTransport */
                                           (0)
#define
           WFS_DEP_DEPOK
#define WFS_DEP_DEPHIGH #define WFS_DEP_DEPFULL
           WFS_DEP_DEPHIGH
                                           (1)
                                           (2)
```

```
#define WFS_DEP_DEPINOP
                                          (3)
#define
           WFS DEP DEPMISSING
                                          (4)
         WFS_DEP_DEPUNKNOWN
#define
                                          (5)
#define WFS_DEP_DEPNOTSUPP
                                          (6)
/* values of WFSDEPSTATUS.fwEnvSupply, fwEnvDispenser */
#define WFS_DEP_ENVOK
                                          (0)
#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
                                          (4)
                                          (5)
                                          (6)
#define WFS_DEP_ENVUNLOCKED
                                          (7)
/* values of WFSDEPSTATUS.fwPrinter */
#define
           WFS_DEP_PTROK
                                          (0)
           WFS_DEP_PTRINOP
#define
                                          (1)
#define WFS_DEP_PTRUNKNOWN
                                          (2)
#define WFS_DEP_PTRNOTSUPP
                                          (3)
/* values of WFSDEPSTATUS.fwToner */
           WFS_DEP_TONERFULL
WFS_DEP_TONERLOW
                                          (0)
#define
#define
                                          (1)
#define WFS_DEP_TONEROUT
                                          (2)
#define WFS_DEP_TONERUNKNOWN #define WFS_DEP_TONERNOTSUPP
                                          (3)
                                          (4)
/* values of WFSDEPSTATUS.fwShutter */
         WFS_DEP_SHTCLOSED
#define
                                          (0)
#define WFS_DEP_SHTOPEN
                                         (1)
#define WFS_DEP_SHTJAMMED
                                         (2)
#define
           WFS_DEP_SHTUNKNOWN
                                          (3)
#define WFS_DEP_SHTNOTSUPP
                                          (4)
/* values of WFSDEPCAPS.fwType */
#define WFS_DEP_TYPEENVELOPE
#define WFS_DEP_TYPEBAGDROP
                                          (0x0001)
                                          (0x0002)
/* values of WFSDEPCAPS.fwEnvSupply */
           WFS_DEP_ENVMOTORIZED
#define
                                          (1)
#define WFS_DEP_ENVMANUAL
                                          (2)
#define WFS_DEP_ENVNONE
                                          (3)
/* values of WFSDEPCAPS.fwRetractEnvelope */
#define
           WFS_DEP_NORETRACT
                                          (1)
#define
           WFS_DEP_RETRACTDEP
                                          (2)
#define WFS_DEP_RETRACTDISP
                                          (3)
/* values of WFSDEPCAPS.fwCharSupport, WFSDEPENVELOPE.fwCharSupport */
#define WFS_DEP_ASCII
                                          (0x0001)
#define
           WFS_DEP_UNICODE
                                          (0x0002)
/* values of dwDepMediaControl */
            WFS_DEP_CTRLEJECT
                                          (0x0001)
 #define
            WFS_DEP_CTRLRETRACT
 #define
                                         (0x0002)
/* values of WFSDEPMEDIADETECTED.wDispenseMedia, wDepositMedia */
 #define
            WFS_DEP_NOMEDIA
                                          (1)
           WFS_DEP_MEDIARETRACTED
 #define
                                          (2)
 #define
             WFS_DEP_MEDIADISPENSER
                                          (3)
 #define
            WFS_DEP_MEDIAEJECTED
                                          (4)
```

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```
(5)
#define
         WFS_DEP_MEDIAJAMMED
         WFS DEP MEDIAUNKNOWN
#define
#define WFS_ERR_DEP_DEPFULL
                                 (-(DEP_SERVICE_OFFSET + 0))
#define WFS_ERR_DEP_DEPJAMMED
                                (-(DEP_SERVICE_OFFSET + 1))
#define
        WFS_ERR_DEP_ENVEMPTY
                                 (-(DEP_SERVICE_OFFSET + 2))
#define WFS_ERR_DEP_ENVIAMMED
                                (-(DEP_SERVICE_OFFSET + 3))
#define WFS_ERR_DEP_ENVSIZE
                                (-(DEP_SERVICE_OFFSET + 4))
#define WFS_ERR_DEP_NOENV
#define WFS_ERR_DEP_PTRFAIL
                                 (-(DEP_SERVICE_OFFSET + 5))
                                 (-(DEP_SERVICE_OFFSET + 6))
#define WFS_ERR_DEP_SHTNOTCLOSED
                                (-(DEP_SERVICE_OFFSET + 7))
#define WFS_ERR_DEP_SHTNOTOPENED
                                (-(DEP_SERVICE_OFFSET + 8))
#define
        WFS_ERR_DEP_CONTMISSING
                                 (-(DEP_SERVICE_OFFSET + 9))
#define WFS_ERR_DEP_CONTMISSING
#define WFS_ERR_DEP_DEPUNKNOWN
                                (-(DEP_SERVICE_OFFSET + 10))
#define WFS_ERR_DEP_CHARSETNOTSUPP #define WFS_ERR_DEP_TONEROUT
                                (-(DEP_SERVICE_OFFSET + 11))
                                 (-(DEP_SERVICE_OFFSET + 12))
/*=============*/
/* DEP Info Command Structures and variables
/*----*/
typedef struct _wfs_dep_status
   WORD
            fwDevice;
   WORD
            fwDepContainer;
   WORD
            fwDepTransport;
   WORD
            fwEnvSupply;
            fwEnvDispenser;
   WORD
   WORD
            fwPrinter;
            fwToner;
   WORD
            fwShutter;
   WORD
   WORD wNumOfDeposits;
LPSTR lncsP:
} WFSDEPSTATUS, * LPWFSDEPSTATUS;
typedef struct _wfs_dep_caps
   WORD
            wClass;
   WORD
            fwType;
   WORD
            fwEnvSupply;
            bDepTransport;
bPrinter;
   BOOL
   BOOL
            bToner;
   BOOL
            bShutter;
   BOOL
   BOOL
            bPrintOnRetracts;
   WORD
            fwRetractEnvelope;
   WORD
            wMaxNumChars;
            fwCharSupport;
   WORD
   LPSTR
             lpszExtra;
} WFSDEPCAPS, * LPWFSDEPCAPS;
/* DEP Execute Command Structures
                                            * /
/*----*/
typedef struct _wfs_dep_envelope
   LPSTR
             lpszPrintData;
             lpszUNICODEPrintData;
   LPWSTR
} WFSDEPENVELOPE, * LPWFSDEPENVELOPE;
/* DEP Message Structures
/*----*/
typedef struct _wfs_dep_media_detected
   WORD
            wDispenseMedia;
   WORD
             wDepositMedia;
} WFSDEPMEDIADETECTED, * LPWFSDEPMEDIADETECTED;
```

```
/* restore alignment */
#pragma pack(pop)

#ifdef __cplusplus
} /*extern "C"*/
#endif
#endif /* __INC_XFSDEP__H */
```