

**CEN**

**CWA 15748-35**

**WORKSHOP**

September 2011

**AGREEMENT**

---

ICS 35.240.40

English version

**Extensions for Financial Services (XFS) interface specification -  
Release 3.10 - Part 35: XFS MIB Device Specific Definitions -  
Depository Device Class MIB 3.10**

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 Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts 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.

This CEN Workshop Agreement is publicly available as a reference document from the CEN Members National Standard Bodies.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

---

© 2011 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No.:CWA 15748-35:2011 D/E/F

## Table of Contents

---

<b>FOREWORD .....</b>	<b>3</b>
<b>1. INTRODUCTION .....</b>	<b>6</b>
<b>2. XFS DEP MIB VARIABLES.....</b>	<b>9</b>
2.1 XFS DEP STATUS TABLE.....	9
2.1.1 xfsDEPStatusTable: States.....	9
2.2 XFS DEP SUB DEVICE TABLE.....	12
2.3 XFS DEP ERROR TABLE.....	12
2.4 XFS DEP RESET TABLE.....	13
2.5 XFS DEP RESET DEVICE TABLE.....	13
2.6 XFS DEP CAPABILITIES TABLE.....	14
2.6.1 xfsDEPCapabilitiesTable: Capabilities.....	15
<b>3. DEP TRAPS .....</b>	<b>18</b>
3.1 DEP DETAILED DEVICE STATUS CHANGE TRAP.....	18
3.1.1 DEP Detailed Device Status Change Trap Format.....	18
3.1.2 DEP Detailed Device Status Change Trap: an example.....	20
3.2 DEP SUB-DEVICE STATUS CHANGE TRAP.....	23
3.3 DEP RESET DEVICE COMPLETE TRAP.....	23
3.3.1 DEP Reset Device Complete Trap Format.....	23
3.3.2 DEP Reset Device Complete: an example.....	25
<b>4. APPENDIX A - DEP MIB SUB-TREE.....</b>	<b>28</b>
4.1 DEP MIB IN SMIV2 AND SMIV1 ASN-1 FORMAT.....	28
<b>5. APPENDIX B - C-HEADER FILES .....</b>	<b>42</b>
5.1 XFSMIBDEP.H.....	42

## Foreword

---

This CWA is revision 3.10 of the XFS interface specification.

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties on 2007-11-29, 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 3.10.

A list of the individuals and organizations which supported the technical consensus represented by the CEN Workshop Agreement is available to purchasers from the CEN-CENELEC Management Centre. These organizations were drawn from the banking sector. The CEN/ISSS 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 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 MIB Version 3.10

Part 30: XFS MIB Device Specific Definitions - Printer Device Class MIB 3.10

Part 31: XFS MIB Device Specific Definitions - Identification Card Device Class MIB 3.10

Part 32: XFS MIB Device Specific Definitions - Cash Dispenser Device Class MIB 3.10

Part 33: XFS MIB Device Specific Definitions - PIN Keypad Device Class MIB 3.10

Part 34: XFS MIB Device Specific Definitions - Check Reader/Scanner Device Class MIB 3.10

Part 35: XFS MIB Device Specific Definitions - Depository Device Class MIB 3.10

Part 36: XFS MIB Device Specific Definitions - Text Terminal Unit Device Class MIB 3.10

Part 37: XFS MIB Device Specific Definitions - Sensors and Indicators Unit Device Class MIB 3.10

Part 38: XFS MIB Device Specific Definitions - Camera Device Class MIB 3.10

Part 39: XFS MIB Device Specific Definitions - Alarm Device Class MIB 3.10

Part 40: XFS MIB Device Specific Definitions - Card Embossing Unit Device Class MIB 3.10

Part 41: XFS MIB Device Specific Definitions - Cash-In Module Device Class MIB 3.10

Part 42: Reserved for future use.

Part 43: XFS MIB Device Specific Definitions - Vendor Dependent Mode Class MIB 3.10

Part 44: XFS MIB Application Management MIB 3.10

Part 45: XFS MIB Device Specific Definitions - Card Dispenser Device Class MIB 3.10

Part 46: XFS MIB Device Specific Definitions - Barcode Reader Device Class MIB 3.10

Part 47: XFS MIB Device Specific Definitions - Item Processing Module Device Class MIB 3.10

Parts 48 - 60 are reserved for future use.

Part 61: Application Programming Interface (API) - Service Provider Interface (SPI) - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 62: Printer and Scanning Device Class Interface - Migration from Version 3.0 (CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 63: Identification Card Device Class Interface - Migration from Version 3.02 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 64: Cash Dispenser Device Class Interface - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 65: PIN Keypad Device Class Interface - Migration from Version 3.03 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 66: Check Reader/Scanner Device Class Interface - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 67: Depository Device Class Interface - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 68: Text Terminal Unit Device Class Interface - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 69: Sensors and Indicators Unit Device Class Interface - Migration from Version 3.01 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 70: Vendor Dependent Mode Device Class Interface - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 71: Camera Device Class Interface - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 72: Alarm Device Class Interface - Migration from Version 3.0 (see CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 73: Card Embossing Unit Device Class Interface - Migration from Version 3.0 (CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

Part 74: Cash-In Module Device Class Interface - Migration from Version 3.02 (see CWA 14050) to Version 3.10 (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 <http://www.cen.eu/cen/pages/default.aspx>.

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.

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 2010-06-17 and was successfully closed on 2010-12-22. The final text of this CWA was submitted to CEN for publication on 2011-01-27.

This CEN Workshop Agreement is publicly available as a reference document from the National Members of CEN: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland 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.

Revision History:

1.0	January 20, 2004	Initial release of XFS MIB specification.
1.10	April 15, 2007	Update of the MIB to add support for a Detailed Status Trap, a Device Reset capability and the support of SMIV2.
3.10	December 14, 2010	Update of the MIB to add support for a Capabilities table and to align the MIB with XFS 3.10.

## 1. Introduction

---

This document provides the device specific MIB definition (Management Information Base) variables for the xfsDEP sub-tree version one, as foreseen by the *XFS MIB Architecture and SNMP Extensions Programmer's Reference* document. All the attributes in all the MIBs are Mandatory. In the case where a vendor's device does not support an attribute then a request for this unsupported attribute should return NULL.

The xfsDEP version one sub-tree identified by:

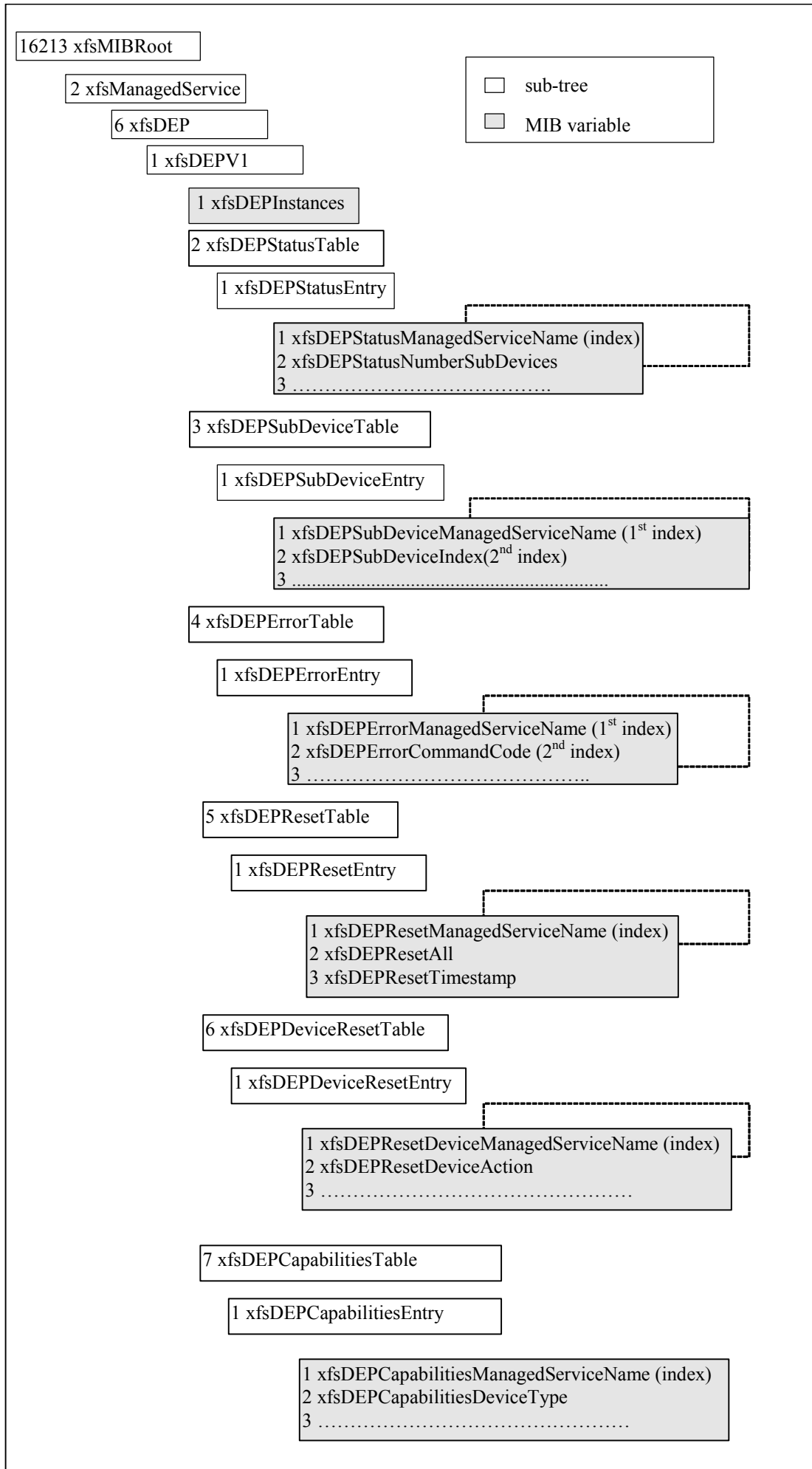
xfsMIBRoot

- xfsManagedService (2)
  - xfsDEP (6)
    - xfsDEPv1 (1)

The xfsDEPv1 sub-tree contains the following variables:

- \* *xfsDEPInstances(1)* is the number of managed services for the DEP class installed on the XFS subsystem. It is a 32 bit numerical field.
- \* *xfsDEPStatusTable(2)* identifies the table for the DEP variables.
- \* *xfsDEPSubDeviceTable(3)* not applicable to the DEP device.
- \* *xfsDEPErrorTable(4)* identifies the table for the DEP error counters.
- \* *xfsDEPResetTable(5)* identifies the table for the DEP reset variable.
- \* *xfsDEPResetDeviceTable(6)* identifies the table for the DEP reset device variables.
- \* *xfsDEPCapabilitiesTable(7)* identifies the table for the DEP device capabilities variables.

The *XFS MIB Architecture and SNMP Extensions Programmer's Reference* document provides an overview of the MIB structure. The following picture shows the structure of the *xfsDEPv1* sub-tree.



Section 2 describes how the Status, Sub-Device, Error, Reset, Reset Device and Capabilities tables apply to the DEP device class



## 2. XFS DEP MIB variables

This section describes the MIB variables for the tables of the DEP Class. The description of the variables listed below includes, where it is meaningful, a reference to relevant data structures and commands defined inside the *Depository Device Class Interface Programmer's Reference*. The following are some general notes pertaining to the MIB variables:

- All command response counters managed by the Service Provider are persistent across re-boots.
- One application command may trigger only one command-related counter to be updated.
- One application command may trigger one or multiple status variables to be updated.
- All command response counters are read-writable unless otherwise specified.
- Each managed service has a Reset table that allows all the response counters to be reset.
- Each managed service has a Reset Device table that allows the WFS\_CMD\_DEP\_RESET command to be executed from the management station.

### 2.1 XFS DEP Status Table

The *xfstDEPStatusTable(2)* groups the variables identifying device status information, statistics and additional variables. It is indexed through a single parameter, *xfstDEPStatusManagedServiceName*. All device status variables are read-only.

Additional variables can be used to contain vendor-dependent variables. These variables do not start immediately after the standard variables in order to allow for expansion of the standard variables, the first additional variable can be added at position 1000.

*xfstDEPStatusManagedServiceName* is the instance identifier of the managed service and uniquely identifies one instance of the DEP class.

As an example, the identifier for the device status value of *xfstDEPStatusDevice(3)* for a device with managed service name equal to "Depository1" is as follows:

Character	D	e	p	o	s	i	t	o	r	y	1
ASCII Hex	44	65	70	6F	73	69	74	6F	72	79	31
ASCII Dec	68	101	112	111	115	105	116	111	114	121	49

NOTE SNMP OID representation of strings consists of a length field specifying the number of characters in the string followed by the ASCII code in decimal for each character in the string. Therefore the OID of the above example is:

*xfstMIBRoot.2.6.1.2.1.3.11.68.101.112.111.115.105.116.111.114.121.49*

#### 2.1.1 xfstDEPStatusTable: States

The first three status variables are common across all device classes, the other variables are device class specific.

*xfstDEPStatusManagedServiceName* (1)

Uniquely identifies the managed service.

*xfstDEPStatusNumberSubDevices* (2)

Defines how many sub-devices the service has. This is always 0 (zero) in the DEP.

*xfstDEPStatusDevice* (3)

It contains the state of the deposit device. It is a numeric type field. Allowed values are:

Value	Meaning
<i>xfstDevOnline</i> (1)	The device is online (i.e. powered on and operable).
<i>xfstDevOffline</i> (2)	The device is offline (e.g., the operator has taken the device offline by turning a switch or pulling out the device).
<i>xfstDevPowerOff</i> (3)	The device is powered off or physically not connected.
<i>xfstDevNoDevice</i> (4)	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.

xfsDevHWError(5)	The device is present but inoperable due to a hardware fault that prevents it from being used.
xfsDevUserError(6)	The device is present but a person is preventing proper device operation. The application should suspend the device operation or remove the device from service until the Service Provider generates a device state change event indicating the condition of the device has changed e.g. the error is removed (WFS_DEP_DEVONLINE) or a permanent error condition has occurred (WFS_DEP_DEVHWERROR).
xfsDevBusy(7)	The device is busy and unable to process an execute command at this time.
xfsDevFraudAttempt(8)	The device is present but has detected a fraud attempt.

**xfsDEPStatusContainer (4)**

It contains the depository container state. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPContainerOK(1)	The deposit container is in a good state.
xfsDEPContainerHigh(2)	The deposit container is almost full (threshold).
xfsDEPContainerFull(3)	The deposit container is full.
xfsDEPContainerInop(4)	The deposit container is inoperable.
xfsDEPContainerMissing(5)	The deposit container is missing.
xfsDEPContainerUnknown(6)	Due to a hardware error or other condition, the state of the deposit container cannot be determined.
xfsDEPContainerNotSupported(7)	The physical device is not able to determine the status of the deposit container.

**xfsDEPStatusTransport (5)**

It contains the state of the depository transport mechanism. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPTransportOK(1)	The deposit transport is in a good state.
xfsDEPTransportInop(4)	The deposit transport is inoperative due to a hardware failure or media jam.
xfsDEPTransportUnknown(6)	Due to a hardware error or other condition, the state of the deposit transport cannot be determined.
xfsDEPTransportNotSupported(7)	The physical device has no deposit transport.

**xfsDEPStatusEnvSupply (6)**

It contains the state of the envelope supply unit. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPEnvSupplyOK(1)	The envelope supply unit is in a good state (and locked).
xfsDEPEnvSupplyLow(2)	The envelope supply unit is present but low.
xfsDEPEnvSupplyEmpty(3)	The envelope supply unit is present but empty. No envelopes can be dispensed.
xfsDEPEnvSupplyInop(4)	The envelope supply unit is in an inoperable state. No envelopes can be dispensed.
xfsDEPEnvSupplyMissing(5)	The envelope supply unit is missing.
xfsDEPEnvSupplyUnknown(6)	Due to a hardware error or other condition, the state of the envelope supply cannot be determined.
xfsDEPEnvSupplyNotSupported(7)	The physical device has no envelope supply.
xfsDEPEnvSupplyUnlocked(8)	The envelope supply unit is unlocked

**xfsDEPStatusEnvDispenser (7)**

It contains the state of the envelope dispenser. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPEnvDispenserOK(1)	The envelope dispenser is present and in a good state.
xfsDEPEnvDispenserInop(4)	The envelope dispenser is present but in an inoperable state. No envelopes can be dispensed.

- xfsDEPEnvDispenserUnknown(6) Due to a hardware error or other condition, the state of the envelope dispenser cannot be determined.
- xfsDEPEnvDispenserNotSupported(7) The physical device has no envelope dispenser.

## xfsDEPStatusPrinter (8)

It contains the state of the printer. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPPrinterOK(1)	The printer is present and in a good state.
xfsDEPPrinterInop(2)	The printer is inoperative.
xfsDEPPrinterUnknown(3)	Due to a hardware error or other condition, the state of the printer cannot be determined.
xfsDEPPrinterNotSupported(4)	The physical device has no printer.

## xfsDEPStatusToner (9)

It contains the state of the toner (or ink) of the printer. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPTonerFull(1)	The toner cassette is full.
xfsDEPTonerLow(2)	The toner in the printer is low.
xfsDEPTonerOut(3)	The toner in the printer is empty.
xfsDEPTonerUnknown(4)	Due to a hardware error or other condition, the state of the toner for the printer cannot be determined.
xfsDEPTonerNotSupported(5)	The physical device has no toner.

## xfsDEPStatusShutter (10)

It contains the state of the shutter or door. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPShutterClosed(1)	The shutter is closed.
xfsDEPShutterOpen(2)	The shutter is open.
xfsDEPShutterJammed(3)	The shutter is jammed.
xfsDEPShutterUnknown(4)	Due to a hardware error or other condition, the state of the shutter cannot be determined.
xfsDEPShutterNotSupported(5)	The physical device has no shutter.

## xfsDEPNumberOfDeposits (11)

It contains the number of envelopes or bags in the deposit container. It is a numeric type field.

## xfsDEPStatusGuidanceEnvDepository (12)

It contains the state of the envelope depository guidance light. It is a numeric type field.

Value	XFS Name	Meaning
0x00000000	WFS_DEP_GUIDANCE_NOT_AVAILABLE	The status is not available.
0x00000001	WFS_DEP_GUIDANCE_OFF	The light is turned off.
0x00000004	WFS_DEP_GUIDANCE_SLOW_FLASH	The light is blinking slowly.
0x00000008	WFS_DEP_GUIDANCE_MEDIUM_FLASH	The light is blinking medium frequency.
0x00000010	WFS_DEP_GUIDANCE_QUICK_FLASH	The light is blinking quickly.
0x00000080	WFS_DEP_GUIDANCE_CONTINUOUS	The light is turned on continuous (steady).
0x00000100	WFS_DEP_GUIDANCE_RED	The light is red.
0x00000200	WFS_DEP_GUIDANCE_GREEN	The light is green.
0x00000400	WFS_DEP_GUIDANCE_YELLOW	The light is yellow.
0x00000800	WFS_DEP_GUIDANCE_BLUE	The light is blue.
0x00001000	WFS_DEP_GUIDANCE_CYAN	The light is cyan.
0x00002000	WFS_DEP_GUIDANCE_MAGENTA	The light is magenta.
0x00004000	WFS_DEP_GUIDANCE_WHITE	The light is white.

## xfsDEPStatusGuidanceEnvDispenser (13)

It contains the state of the envelope dispenser guidance light. It is a numeric type field. Allowed values are the same as variable *xfsDEPStatusGuidanceEnvDepository (12)*.

## xfsDEPStatusDepositLocation (14)

It contains the location of the item deposited at the end of the last WFS\_CMD\_DEP\_ENTRY command. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPLocationNotSupported(1)	Reporting the location of the last deposit is not supported.
xfsDEPLocationUnknown(2)	Cannot determine the location of the last deposited item.
xfsDEPLocationContainer(3)	The item is in the container.
xfsDEPLocationTransport(4)	The item is in the transport.
xfsDEPLocationPrinter(5)	The item is in the printer.
xfsDEPLocationShutter(6)	The item is at the shutter (available for removal).
xfsDEPLocationNone(7)	No item was entered on the last WFS_CMD_DEP_ENTRY.
xfsDEPLocationRemoved(8)	The item was removed.

#### xfsDEPStatusDevicePosition (15)

It contains the device position. It is a numeric type field. Allowed values are as follows:

Value	Meaning
xfsDEPDeviceInPosition (1)	The device is in its normal operating position, or is fixed in place and cannot be moved.
xfsDEPDeviceNotInPosition (2)	The device has been removed from its normal operating position.
xfsDEPDevicePosUnknown (3)	Due to a hardware error or other condition, the position of the device cannot be determined.
xfsDEPDevicePosNotSupported (4)	The physical device does not have the capability of detecting the position.

#### xfsDEPStatusPowerSaveRecoveryTime (16)

It contains 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. It is a numeric type field.

#### xfsDEPStatusExtraStatus (100)

It contains vendor dependent additional device status information as an OCTET STRING. The information is returned as a series of “key=value” strings. Each string is null-terminated, with the final string terminating with two null characters. An empty list is indicated by two consecutive null characters.

## 2.2 XFS DEP Sub Device Table

The DEP service class does not support any sub-devices, therefore the *xfsDEPStatusNumberSubDevices* will be reported as zero. Sub-device tables are usually used to report sub-device status for Cash Units within a CDM or CIM device class.

## 2.3 XFS DEP Error Table

The *xfsDEPErrorTable(4)* provides access to all command response counters supported by a device class. The error table contains the set of counters for every combination of executable command and associated response that the Service Provider supports. The counters report the number of times that a response has been returned from a particular command since the counts were last reset. Selection of the required counter is made by specifying the managed service name, command code and response code through the following parameters

*xfsDEPErrorManagedServiceName*  
*xfsDEPErrorCommandCode*  
*xfsDEPErrorResponseCode*

The *xfsDEPErrorTable* is defined as:

- *xfsDEPErrorManagedServiceName(1)* which provides the primary index to the service in question. It is Display String field. The *xfsDEPErrorManagedServiceName* parameter corresponds to the value of

*xfsmIBRoot.xfsGeneral.xfmIBV1.xfsManagedServiceTable.xfsManagedServiceEntry.xfsManagedServiceName* in the general table, e.g. “Depository1”.

- *xfxDEPErrorCommandCode(2)* is an index which identifies the command code that that response code is related to, e.g. WFS\_CMD\_DEP\_ENTRY (601). It is a 32 bit numerical field.
- *xfxDEPErrorResponseCode(3)* is an index which identifies the response code that the count is required for. It is the absolute value of the error code e.g. WFS\_ERR\_DEP\_JAMMED (-602) is represented by 602. It is a 32 bit numerical field.
- *xfxDEPErrorCount(4)* is the count of the number of times that a particular response code has been generated while executing a specific command, since they were last reset. It is a 32 bit numerical field.

All counter variables are read-write. Issue of a Set command on a specific counter with value *x* will result in the individual counter being set to value *x*.

As an example, the identifier for the error count value for WFS\_ERR\_DEP\_JAMMED (-602) error returned from the WFS\_CMD\_DEP\_ENTRY (601) command for a device with managed service name equal to “Depository1” is as follows:

*xfsmIBRoot.2.6.1.4.1.4.11.68.101.112.111.115.105.116.111.114.121.49.601.602*

## 2.4 XFS DEP Reset Table

---

The *xfxDEPResetTable(5)* contains the *xfxDEPResetAll* and *xfxDEPResetTimestamp* variables and is indexed by the single variable, *xfxDEPResetManagedServiceName*. When the *xfxDEPResetAll* variable is set to 0 (zero), all the counters in the error table for the managed service are reset to 0 (zero), all other values are ignored.

The *xfxDEPResetTable* is defined as:

- *xfxDEPResetManagedServiceName(1)* which provides the primary index to the service in question. It is Display String field. The *xfxDEPResetManagedServiceName* parameter corresponds to the value of *xfsmIBRoot.xfsGeneral.xfmIBV1.xfsManagedServiceTable.xfsManagedServiceEntry.xfsManagedServiceName* in the general table, e.g. “Depository1”.
- *xfxDEPResetAll(2)* is a read-write variable. Issue of a Set command on the *xfxDEPResetAll* variable with value 0 (zero) will result in all counters for the managed service being reset to value 0 (zero). Any other value will be ignored. A query of the *xfxDEPResetAll* variable will return 0 (zero).
- *xfxDEPResetTimestamp(3)* is a read-only variable which represents the UTC date and time when the counters in the error table was reset, it is a Display String field. The data is formatted in the following way: “DD/MM/YYYY HH:MM:SS +ZZZ” where DD/MM/YYYY HH:MM:SS is the local date and time. ZZZ is the bias, which is the difference, in minutes, between Coordinated Universal Time (UTC) and local time.

As an example, all the error counts can be reset for a device with managed service name equal to “Depository1” by setting the value zero in the *xfxDEPResetAll* variable represented by:

*xfsmIBRoot.2.6.1.5.1.2.11.68.101.112.111.115.105.116.111.114.121.49*

## 2.5 XFS DEP Reset Device Table

---

The *xfxDEPResetDeviceTable(6)* is indexed by the single variable, *xfxDEPResetDeviceManagedServiceName*. This table contains variables which monitor and control the execution of the reset request.

The *xfxDEPResetDeviceAction* variable is used to initiate a reset. Setting this variable will cause the following to happen:

1. The SNMP agent will determine if a Device Reset is allowed by checking the *RemoteDeviceResetAllowed* configuration flag (see XFS Common Management Configuration section, within the *XFS MIB Architecture and SNMP Extensions Programmer’s Reference* document). If it is not allowed then the flow continues with step 5, otherwise the flow continues with step 2.
2. Exclusive access to the device will be obtained.

3. A WFS\_CMD\_DEP\_RESET command will be issued.
4. Exclusive access to the device will be relinquished when the WFS\_CMD\_DEP\_RESET command completes.

NOTE Exclusive access must be relinquished as soon as possible and implemented in such a way that deadlocks are avoided.

5. A *xfsDEPResetDeviceCompleteTrap* trap will be generated to report the result of the Device Reset request.

The *xfsDEPResetDeviceTable* is defined as:

- *xfsDEPResetDeviceManagedServiceName(1)* which provides the index to the service in question. It is a Display String field. The *xfsDEPResetDeviceManagedServiceName* parameter corresponds to the value of *xfsMIBRoot.xfsGeneral.xfsMIBV1.xfsManagedServiceTable.xfsManagedServiceEntry.xfsManagedServiceName* in the general table, e.g. “Depository1”.
- *xfsDEPResetDeviceAction(2)* is a read-write variable. Issue of a Set command on the *xfsDEPResetDeviceAction* variable with value *executeReset(1)* will result in the device being reset as described above.
- *xfsDEPResetDeviceMediaControl(3)* is a read-only variable. This variable reports how any media found within the device is handled. The value of the *xfsDEPResetDeviceMediaControl* variable is configured through the *ResetDeviceMediaControl* configuration setting (see Managed Service Configuration section, within the *XFS MIB Architecture and SNMP Extensions Programmer’s Reference* document). If this value is not configured then the variable defaults to the *mediaDefault* value that indicates that the Service Provider is responsible for media control.
- *xfsDEPResetDeviceStatus(4)* is a read only variable This variable can be used to check if a reset operation is still in progress. It is set when the reset is initiated and cleared when the reset command completes.

As an example, the device with managed service name equal to “Depository1” is reset by setting the *xfsDEPResetDeviceAction* variable represented by:

*xfsMIBRoot.2.6.1.6.1.2.11.68.101.112.111.115.105.116.111.114.121.49*

## 2.6 XFS DEP Capabilities Table

The *xfsDEPCapabilitiesTable(7)* groups the variables identifying device capabilities information. It is indexed through a single parameter, *xfsDEPCapabilitiesManagedServiceName*. All device capabilities variables are read-only.

Additional variables can be used to contain vendor-dependent variables. These variables do not start immediately after the standard variables in order to allow for expansion of the standard variables, the first additional variable can be added at position 1000.

*xfsDEPCapabilitiesManagedServiceName* is the instance identifier of the managed service and uniquely identifies one instance of the DEP class.

As an example, the identifier for the device capabilities value of *xfsDEPCapabilitiesEnvelopeSupply(3)* for a device with managed service name equal to “Depository1” is as follows:

Character	D	e	p	o	s	i	t	o	r	y	l
ASCII Hex	44	65	70	6F	73	69	74	6F	72	79	31
ASCII Dec	68	101	112	111	115	105	116	111	114	121	49

NOTE SNMP OID representation of strings consists of a length field specifying the number of characters in the string followed by the ASCII code in decimal for each character in the string. Therefore the OID of the above example is:

*xfsMIBRoot.2.6.1.7.1.3.11.68.101.112.111.115.105.116.111.114.121.49*

## 2.6.1 xfsDEPCapabilitiesTable: Capabilities

The first capabilities variable is common across all device classes, the other variables are device class specific.

xfsDEPCapabilitiesManagedServiceName (1)  
Uniquely identifies the managed service.

xfsDEPCapabilitiesDeviceType (2)  
It specifies the type(s) of the physical device driven by the logical service. It is a numeric type field and will be set to a combination of hex values according to the values in the following table:

Value	XFS Name	Meaning
0x0001	WFS_DEP_TYPEENVELOPE	The device accepts envelopes.
0x0002	WFS_DEP_TYPEBAGDROP	The device accepts bags.

xfsDEPCapabilitiesEnvelopeSupply (3)  
It contains the depository capabilities of the envelope supply unit. Allowed values are:

Value	Meaning
xfsDEPEnvelopeMotorized(2)	Envelope Supply can dispense envelopes.
xfsDEPEnvelopeManual(3)	Envelope Supply is manual and must be unlocked to allow envelopes to be taken.
xfsDEPEnvelopeNone(4)	No Envelope Supply or Envelope Supply is manual and envelopes can be taken at any time.

xfsDEPCapabilitiesTransport (4)  
This specifies whether deposit transport mechanism is available or not. It is a TruthValue type field. Allowed values are:

Value	Meaning
True(1)	The deposit transport mechanism is available.
False(2)	The deposit transport mechanism is not available.

xfsDEPCapabilitiesPrinter (5)  
It specifies whether printer is available or not. It is a TruthValue type field. Allowed values are:

Value	Meaning
True(1)	Printer is available.
False(2)	Printer is not available.

xfsDEPCapabilitiesToner (6)  
It specifies whether toner is available. It is a TruthValue type field. Allowed values are:

Value	Meaning
True(1)	Toner is available.
False(2)	Toner is not available.

xfsDEPCapabilitiesShutter (7)  
It specifies whether shutter is available. It is a TruthValue type field. Allowed values are:

Value	Meaning
True(1)	Shutter is available.
False(2)	Shutter is not available.

xfsDEPCapabilitiesPrintOnRetract (8)  
It specifies whether the device can print the print data. It is a TruthValue type field. Allowed values are:

Value	Meaning
True(1)	Device can print the print data.
False(2)	Device cannot print the print data.

xfsDEPCapabilitiesRetractEnvelope (9)

It specifies the ability of the envelope dispenser to retract envelopes. It is a numeric type field. Allowed values are:

Value	Meaning
xfsDEPNoRetract(2)	The envelope dispenser does not have the capability to retract envelopes.
xfsDEPRetractDep(3)	Retracted envelopes are kept in the deposit container.
xfsDEPRetractDisp(4)	Retracted envelopes are retracted back to the envelope dispenser.

#### xfsDEPCapabilitiesMaxNumberChars (10)

It specifies the maximum number of characters that can be printed on the envelope. It is a numeric type field.

#### xfsDEPCapabilitiesCharacterSupported (11)

One or more flags specify the Character Sets supported by the Service Provider. Allowed values are as follows:

Value	XFS Name	Meaning
0x0001	WFS_DEP_ASCII	ASCII is supported for execute command values.
0x0002	WFS_DEP_UNICODE	UNICODE is supported for execute command values.

#### xfsDEPCapabilitiesGuidanceEnvDepository (12)

It specifies the capability of envelope depository guidance light. It is a numeric type field. Possible states are reported as a combination of hex values according to the values in the following table:

Value	XFS Name	Meaning
0x00000000	WFS_DEP_GUIDANCE_NOT_AVAILABLE	There is no guidance light control available at this position.
0x00000001	WFS_DEP_GUIDANCE_OFF	The light can be off.
0x00000004	WFS_DEP_GUIDANCE_SLOW_FLASH	The light can blink slowly.
0x00000008	WFS_DEP_GUIDANCE_MEDIUM_FLASH	The light can blink medium frequency.
0x00000010	WFS_DEP_GUIDANCE_QUICK_FLASH	The light can blink quickly.
0x00000080	WFS_DEP_GUIDANCE_CONTINUOUS	The light can be continuous (steady).
0x00000100	WFS_DEP_GUIDANCE_RED	The light can be red.
0x00000200	WFS_DEP_GUIDANCE_GREEN	The light can be green.
0x00000400	WFS_DEP_GUIDANCE_YELLOW	The light can be yellow.
0x00000800	WFS_DEP_GUIDANCE_BLUE	The light can be blue.
0x00001000	WFS_DEP_GUIDANCE_CYAN	The light can be cyan.
0x00002000	WFS_DEP_GUIDANCE_MAGENTA	The light can be magenta.
0x00004000	WFS_DEP_GUIDANCE_WHITE	The light can be white.

#### xfsDEPCapabilitiesGuidanceEnvDispenser (13)

It specifies the capability of the envelope dispenser guidance light. Allowed values are the same as variable *xfsDEPCapabilitiesGuidanceEnvDepository (12)*.

#### xfsDEPCapabilitiesPowerSaveControl (14)

It contains the capability of the power saving control. It is a TruthValue type field. Allowed values are:

Value	Meaning
True(1)	Power saving is supported.
False(2)	Power saving is not supported.

#### xfsDEPCapabilitiesExtraCapability (100)



It contains vendor dependent additional device capability information as an OCTET STRING. The information is returned as a series of "*key=value*" strings. Each string is null-terminated, with the final string terminating with two null characters.

### 3. DEP Traps

---

The following sections define XFS Traps that are specific to the DEP device class.

#### 3.1 DEP Detailed Device Status Change Trap

---

Status changes within managed services are reported as system events to the XFS Agent. The following section explicitly defines the format of the DEP Detailed Device Status Change trap. However, the format is split into two sections; the fields that are common to all device specific traps and the fields that are specific to each device class. The common fields are defined in the *XFS MIB Architecture and SNMP Extensions Programmer's Reference* document. The fields that are specific to the DEP reflect the DEP Status Table as defined in section 2.1.

The detailed device status change event is only generated when the top level status changes within a managed service, i.e. the trap is generated when the *fwDevice* value in the WFS\_INF\_DEP\_STATUS response has changed. In addition, this trap is only generated on version 1.1 of the MIB and higher and is sent in addition to the summary device status change trap.

The SNMP Specific trap value 106 defines the trap as a DEP Detailed Device Status Change trap. In the following section, the numbers in parenthesis at the end of each binding just indicate the sequence of the variable bindings within the trap, they do not represent an OID value.

##### 3.1.1 DEP Detailed Device Status Change Trap Format

The following defines the variable bindings included in the DEP Detailed Device Status Change Trap.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapSysName (1)

This variable binding contains the system generating the alarm, it is a Display String field. It corresponds to *lpszWorkstationName* in the device status change event data from the Service Provider.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName (2)

This variable binding represents the managed service name generating the alarm, it is a Display String field. The agent derives this field from the device status change event.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClass (3)

This variable binding represents the XFS service class identifier generating the alarm, it is a 32-bit integer (INT32). It corresponds to the class identifier for the class name. The class name is identified from the registry value  
HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\class. This ID matches the class OID branch number i.e. PTR=1, IDC=2, CDM=3, etc. See the *XFS MIB Architecture and SNMP Extensions Programmer's Reference* document for a complete list of these values.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName (4)

This variable binding represents the XFS service class name generating the alarm, it is a Display String field. It corresponds to the three character representation of the XFS device class name, and it is useful for human interpretation of a trap. The class name is identified from the registry value  
HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\class.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceType (5)

This variable binding represents the XFS type identifier generating the alarm, it is a 32-bit integer (INT32). It corresponds to the type identifier as defined in the WFS\_INF\_DEP\_CAPABILITIES.*fwType* field.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid (6)

This variable binding represents the OID of the sub-tree within *xfsManagedService* defining the management information for this class of managed service. This variable, along with the managed service name as an index, prevents the need for additional querying to find the service specific MIB branch. The DEP MIB class is represented by .1.3.6.1.4.1.16213.2.6

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName (7)

This variable binding represents the physical device name or names associated with the managed service generating the alarm, it is a Display String field. It corresponds to the physical device name or names identified by the managed service. The managed service name is used to identify the physical device name or

names, from registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\PhysicalDeviceName. Multiple physical device names are comma separated.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDeviceVendor (8)

This variable binding represents the XFS device vendor name of the device generating the alarm, it is a Display String field. It corresponds to the vendor name for the Service Provider. The Service Provider is identified from the managed service name and the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\ServiceProvider.

The Service Provider name is then used to identify the vendor, from the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\SERVICE\_PROVIDERS\*<ServiceProviderName>*\vendor\_name.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapMIBVersion (9)

This variable binding represents the XFS MIB version of the device generating the alarm, it is a Display String field. It corresponds to the XFS MIB version for the managed service. The managed service name is used to identify the XFS MIB version, from registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\MibVersion.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapEvent (10)

In case of XFS this variable binding represents the XFS event generating the alarm, it is a 32-bit integer (INT32). It corresponds to u.dwEventID in the event data from the Service Provider. See the Application Programming Interface (API) - Service Provider Interface (SPI); Programmer's Reference for a complete description of the event structure.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDate (11)

This variable represents the UTC and bias for local translation of the date and time when the event was generated. It is a Display String field. The data is formatted in the following way: "DD/MM/YYYY HH:MM:SS +ZZZ" where DD/MM/YYYY HH:MM:SS is the local date and time. ZZZ is the bias, which is the difference, in minutes, between Co-ordinated Universal Time (UTC) and local time.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapSPVersion (12)

This variable represents the vendor-defined version of the Service Provider generating the alarm, it is a Display String field. The Service Provider is identified from the managed service name and the registry value HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\ServiceProvider.

The Service Provider name is then used to identify the version, from the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\SERVICE\_PROVIDERS\*<ServiceProviderName>*\version.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusDevice.xfsDEPStatusManagedServiceName (13)

It contains the state of the deposit device. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusNumberSubDevices.xfsDEPStatusManagedServiceName (14)

Defines how many sub-devices the service has. This is the number of retract bins the device supports.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusContainer.xfsDEPStatusManagedServiceName (15)

It contains the depository container state. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusTransport.xfsDEPStatusManagedServiceName (16)

It contains the state of the depository transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvelopeSupply.xfsDEPStatusManagedServiceName (17)

It contains the state of the envelope supply unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvelopeDispenser.xfsDEPStatusManagedServiceName (18)

It contains the state of the envelope dispenser. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusPrinter.xfsDEPStatusManagedServiceName` (19)

It contains the state of the printer. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusToner.xfsDEPStatusManagedServiceName` (20)

It contains the state of the toner (or ink) of the printer. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusShutter.xfsDEPStatusManagedServiceName` (21)

It contains the state of the shutter or door. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusNumberOfDeposits.xfsDEPStatusManagedServiceName` (22)

It contains the number of envelopes or bags in the deposit container. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusExtraStatus.xfsDEPStatusManagedServiceName` (23)

It contains the vendor dependent additional device status information as an OCTET STRING. The information is returned as a series of "key=value" strings. Each string is null-terminated, with the final string terminating with two null characters.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusGuidanceEnvDepository.xfsDEPStatusManagedServiceName` (24)

It contains the state of the envelope depository guidance light. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusGuidanceEnvDispenser.xfsDEPStatusManagedServiceName` (25)

It contains the state of the envelope dispenser guidance light. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusDepositLocation.xfsDEPStatusManagedServiceName` (26)

It contains the location of the item deposited at the end of the last WFS\_CMD\_DEP\_ENTRY command. It is a numeric type field.

`xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusPowerSaveRecoveryTime.xfsDEPStatusManagedServiceName` (27)

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

### 3.1.2 DEP Detailed Device Status Change Trap: an example

As an example, the following variable binding list represents a detailed device status change trap (6, 106) that is generated for a DEP with a managed service name of "Depository1". It reports that the device is OFFLINE because the transport is inoperable.

<code>xfsMIBRoot.3.1.3.1</code>	<code>(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapSysName)</code>
	"SST System 1"
<code>xfsMIBRoot.3.1.3.2</code>	<code>(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName)</code>
	"Depository1"
<code>xfsMIBRoot.3.1.3.3</code>	<code>(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClasses)</code>
	6 (WFS_SERVICE_CLASS_DEP)
<code>xfsMIBRoot.3.1.3.4</code>	<code>(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName)</code>
	"DEP"

xfsMIBRoot.3.1.3.5	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceType)
	1 (WFS_DEP_TYPEENVELOPE)
xfsMIBRoot.3.1.3.6	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid)
	“.1.3.6.1.4.1.16213.2.6”
xfsMIBRoot.3.1.3.7	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName)
	“ABC Corp Despository”
xfsMIBRoot.3.1.3.8	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDeviceVendor)
	“Best Devices Incorporated”
xfsMIBRoot.3.1.3.9	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapMIBVersion)
	“1.10”
xfsMIBRoot.3.1.3.10	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapEvent)
	4 (WFS_SYSE_DEVICE_STATUS)
xfsMIBRoot.3.1.3.11	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDate)
	“20/03/2003 15:40:53 -300”
xfsMIBRoot.3.1.3.12	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapSPVersion)
	“1.23”
xfsMIBRoot.2.6.1.2.1.3.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusDevice.xfsDEPStatusManagedServiceName)
	2 (WFS_STAT_DEVOFFLINE)
xfsMIBRoot.2.6.1.2.1.2.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusNumberSubDevices.xfsDEPStatusManagedServiceName)
	0 (No sub device)
xfsMIBRoot.2.6.1.2.1.4.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusContainer.xfsDEPStatusManagedServiceName)
	1 (xfsDEPContainerOK)
xfsMIBRoot.2.6.1.2.1.5.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusTransport.xfsDEPStatusManagedServiceName)
	4 (xfsDEPTransportInop)
xfsMIBRoot.2.6.1.2.1.6.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvSupply.xfsDEPStatusManagedServiceName)
	1 (xfsDEPEnvSupplyOK)
xfsMIBRoot.2.6.1.2.1.7.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvDispenser.xfsDEPStatusManagedServiceName)
	1 (xfsDEPEnvDispenserOK)
xfsMIBRoot.2.6.1.2.1.8.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusPrinter.xfsDEPStatusManagedServiceName)
	1 (xfsDEPPrinterOK)
xfsMIBRoot.2.6.1.2.1.9.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusToner.xfsDEPStatusManagedServiceName)
	1 (xfsDEPTonerFull)
xfsMIBRoot.2.6.1.2.1.10.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusShutter.xfsDEPStatusManagedServiceName)
	1 (xfsDEPShutterClosed)
xfsMIBRoot.2.6.1.2.1.	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry

11.Index	.xfsDEPStatusNumberOfDeposits.xfsDEPStatusManagedServiceName)
	123 (123 Deposits)
xfsMIBRoot.2.6.1.2.1. 100.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPv1.xfsDEPStatusTable.xfsDEPStatusEntry. .xfsDEPStatusExtraStatus.xfsDEPStatusManagedServiceName)
	"0"0" ( No extra data )
xfsMIBRoot.2.6.1.2.1. 12.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPv1.xfsDEPStatusTable.xfsDEPStatusEntry. .xfsDEPStatusGuidanceEnvDepository.xfsDEPStatusManagedServiceName)
	1 (value corresponding to WFS_DEP_GUIDANCE_OFF)
xfsMIBRoot.2.6.1.2.1. 13.Index	(xfsMIBRoot.xfsManagedService.xfsCDEP.xfsDEPv1.xfsDEPStatusTable.xfsDEPStatusEntry. .xfsDEPStatusGuidanceEnvDispenser.xfsDEPStatusManagedServiceName)
	0 (value corresponding to WFS_DEP_GUIDANCE_NOT_AVAILABLE )
xfsMIBRoot.2.6.1.2.1. 14.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPv1.xfsDEPStatusTable.xfsDEPStatusEntry. .xfsDEPStatusDepositLocation.xfsDEPStatusManagedServiceName)
	1 (xfsDEPLocationNotSupported)
xfsMIBRoot.2.6.1.2.1. 15.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPv1.xfsDEPStatusTable.xfsDEPStatusEntry. .xfsDEPStatusPowerSaveRecoveryTime.xfsDEPStatusManagedServiceName)
	3 (3 seconds to recover from power saving mode)

## 3.2 DEP Sub-Device Status Change Trap

---

The DEP does not currently support any sub-devices so the DEP Sub-Device Status Change Trap is not currently defined. The SNMP Specific trap value 206 is reserved in case a sub-device is ever added to the DEP device class.

## 3.3 DEP Reset Device Complete Trap

---

On the DEP device class this trap reports the completion of the reset device request and includes the status of the device at that point. If the reset has changed the status of the device then the Device Status Change and a Detail Device Status traps will also be generated.

The SNMP Specific trap value 306 defines the trap as a DEP Reset Device Complete trap.

### 3.3.1 DEP Reset Device Complete Trap Format

The following defines the variable bindings included in the DEP Reset Device Complete Trap. In the following section, the numbers in parenthesis at the end of each binding just indicate the sequence of the variable bindings within the trap, they do not represent an OID value.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapResetDeviceResult (1)

This variable binding contains a value indicating if the reset was executed, and if not provides a reason. It does not report the status of the device ( i.e. the result of the reset), the current status of the device is reported within the **xfsxfsDEPStatusDevice** binding ( var bind 12 below).

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName (2)

This variable binding represents the managed service name generating the alarm, it is a Display String field. The agent derives this field from the device status change event.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClass (3)

This variable binding represents the XFS service class identifier generating the alarm, it is a 32-bit integer (INT32). It corresponds to the class identifier for the class name. The class name is identified from the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\<ManagedServiceName>\class. This ID matches the class OID branch number i.e. PTR=1, IDC=2, CDM=3, etc. See the *XFS MIB Architecture and SNMP Extensions Programmer's Reference* document for a complete list of these values.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName (4)

This variable binding represents the XFS service class name generating the alarm, it is a Display String field. It corresponds to the three character representation of the XFS device class name, and it is useful for human interpretation of a trap. The class name is identified from the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\<ManagedServiceName>\class.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceType (5)

This variable binding represents the XFS type identifier generating the alarm, it is a 32-bit integer (INT32). It corresponds to the type identifier as defined in the WFS\_INF\_DEP\_CAPABILITIES.*fwType* field.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid (6)

This variable binding represents the OID of the sub-tree within *xfsManagedService* defining the management information for this class of managed service. This variable, along with the managed service name as an index, prevents the need for additional querying to find the service specific MIB branch. The DEP MIB class is represented by .1.3.6.1.4.1.16213.2.6

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName (7)

This variable binding represents the physical device name or names associated with the managed service generating the alarm, it is a Display String field. It corresponds to the physical device name or names identified by the managed service. The managed service name is used to identify the physical device name or names, from registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\<ManagedServiceName>\PhysicalDeviceName. Multiple physical device names are comma separated.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDeviceVendor (8)

This variable binding represents the XFS device vendor name of the device generating the alarm, it is a Display String field. It corresponds to the vendor name for the Service Provider. The Service Provider is identified from the managed service name and the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\ServiceProvider.

The Service Provider name is then used to identify the vendor, from the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\SERVICE\_PROVIDERS\*<ServiceProviderName>*\vendor\_name.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapMIBVersion (9)

This variable binding represents the XFS MIB version of the device generating the alarm, it is a Display String field. It corresponds to the XFS MIB version for the managed service. The managed service name is used to identify the XFS MIB version, from registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\MibVersion.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDate (10)

This variable represents the UTC and bias for local translation of the date and time when the event was generated. It is a Display String field. The data is formatted in the following way: "DD/MM/YYYY

HH:MM:SS +ZZZ" where DD/MM/YYYY HH:MM:SS is the local date and time. ZZZ is the bias, which is the difference, in minutes, between Co-ordinated Universal Time (UTC) and local time.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapSPVersion (11)

This variable represents the vendor-defined version of the Service Provider generating the alarm, it is a

Display String field. The Service Provider is identified from the managed service name and the registry value HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\MANAGEMENT\_PROVIDERS\*<ManagedServiceName>*\ServiceProvider.

The Service Provider name is then used to identify the version, from the registry value

HKEY\_LOCAL\_MACHINE\SOFTWARE\XFS\SERVICE\_PROVIDERS\*<ServiceProviderName>*\version.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusDevice.xfsDEPStatusManagedServiceName(12)

It contains the state of the deposit device. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusNumberSubDevices.xfsDEPStatusManagedServiceName (13)

Defines how many sub-devices the service has. This is the number of retract bins the device supports.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusContainer.xfsDEPStatusManagedServiceName (14)

It contains the depository container state. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusTransport.xfsDEPStatusManagedServiceName (15)

It contains the state of the depository transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvelopeSupply.xfsDEPStatusManagedServiceName (16)

It contains the state of the envelope supply unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvelopeDispenser.xfsDEPStatusManagedServiceName (17)

It contains the state of the envelope dispenser. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusPrinter.xfsDEPStatusManagedServiceName (18)

It contains the state of the printer. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusToner.xfsDEPStatusManagedServiceName (19)



It contains the state of the toner (or ink) of the printer. It is a numeric type field.

**xfsmIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusShutter.xfsDEPStatusManagedServiceName (20)**

It contains the state of the shutter or door. It is a numeric type field.

**xfsmIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusNumberOfDeposits.xfsDEPStatusManagedServiceName (21)**

It contains the number of envelopes or bags in the deposit container. It is a numeric type field.

**xfsmIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusExtraStatus.xfsDEPStatusManagedServiceName (22)**

It contains the vendor dependent additional device status information as an OCTET STRING. The information is returned as a series of "key=value" strings. Each string is null-terminated, with the final string terminating with two null characters.

**xfsmIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusGuidanceEnvDepository.xfsDEPStatusManagedServiceName (23)**

It contains the state of the envelope depository guidance light. It is a numeric type field.

**xfsmIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusGuidanceEnvDispenser.xfsDEPStatusManagedServiceName (24)**

It contains the state of the envelope dispenser guidance. It is a numeric type field.

**xfsmIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusDepositLocation.xfsDEPStatusManagedServiceName (25)**

It contains the location of the item deposited at the end of the last WFS\_CMD\_DEP\_ENTRY command. It is a numeric type field.

**xfsmIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusPowerSaveRecoveryTime.xfsDEPStatusManagedServiceName (26)**

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

### 3.3.2 DEP Reset Device Complete: an example

As an example, the following variable binding list represents a Reset Device Complete trap (6, 306) generated as the result of a request to reset the device from the remote management station. The device in question has a managed service name "Depository1".

xfsmIBRoot.3.1.3.13	(xfsmIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapResetDeviceResult)
	0 (resetExecuted)
xfsmIBRoot.3.1.3.2	(xfsmIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName)
	"Depository1"
xfsmIBRoot.3.1.3.3	(xfsmIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClass)
	6 (WFS_SERVICE_CLASS_DEP)
xfsmIBRoot.3.1.3.4	(xfsmIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName)
	"DEP"
xfsmIBRoot.3.1.3.5	(xfsmIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceType)
	1 (WFS_DEP_TYPEENVELOPE)
xfsmIBRoot.3.1.3.6	(xfsmIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid)
	".1.3.6.1.4.1.16213.2.6"

xfsMIBRoot.3.1.3.7	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName) "ABC Corp Despository"
xfsMIBRoot.3.1.3.8	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDeviceVendor) "Best Devices Incorporated"
xfsMIBRoot.3.1.3.9	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapMIBVersion) "1.10"
xfsMIBRoot.3.1.3.10	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapDate) "20/03/2003 15:40:53 -300"
xfsMIBRoot.3.1.3.11	(xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapSPVersion) "1.23"
xfsMIBRoot.2.6.1.2.1.3.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusDevice.xfsDEPStatusManagedServiceName) 2 (WFS_STAT_DEVONLINE)
xfsMIBRoot.2.6.1.2.1.2.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusNumberSubDevices.xfsDEPStatusManagedServiceName) 0 (No sub device)
xfsMIBRoot.2.6.1.2.1.4.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusContainer.xfsDEPStatusManagedServiceName) 1 (xfsDEPContainerOK)
xfsMIBRoot.2.6.1.2.1.5.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusTransport.xfsDEPStatusManagedServiceName) 1 (xfsDEPTransportOK)
xfsMIBRoot.2.6.1.2.1.6.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvSupply.xfsDEPStatusManagedServiceName) 1 (xfsDEPEnvSupplyOK)
xfsMIBRoot.2.6.1.2.1.7.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusEnvDispenser.xfsDEPStatusManagedServiceName) 1 (xfsDEPEnvDispenserOK)
xfsMIBRoot.2.6.1.2.1.8.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusPrinter.xfsDEPStatusManagedServiceName) 1 (xfsDEPPrinterOK)
xfsMIBRoot.2.6.1.2.1.9.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusToner.xfsDEPStatusManagedServiceName) 1 (xfsDEPTonerFull)
xfsMIBRoot.2.6.1.2.1.10.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusShutter.xfsDEPStatusManagedServiceName) 1 (xfsDEPShutterClosed)
xfsMIBRoot.2.6.1.2.1.11.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusNumberOfDeposits.xfsDEPStatusManagedServiceName) 123 (123 Deposits)
xfsMIBRoot.2.6.1.2.1.100.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusExtraStatus.xfsDEPStatusManagedServiceName) "0"0' ( No extra data )
xfsMIBRoot.2.6.1.2.1.12.Index	(xfsMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry.xfsDEPStatusGuidanceEnvDepository.xfsDEPStatusManagedServiceName) 1 (value corresponding to WFS DEP_GUIDANCE_OFF)

xfMIBRoot.2.6.1.2.1. <b>13.Index</b>	(xfMIBRoot.xfsManagedService.xfsCDEP.xfsDEPV1.xfsDEPStatusTable.xfDEPStatusEntry. <b>xfsDEPStatusGuidanceEnvDispenser</b> .xfsDEPStatusManagedServiceName)
	0 (value corresponding to WFS_DEP_GUIDANCE_NOT_AVAILABLE)
xfMIBRoot.2.6.1.2.1. <b>14.Index</b>	(xfMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry. <b>xfsDEPStatusDepositLocation</b> .xfsDEPStatusManagedServiceName)
	1 (xfsDEPLocationNotSupported)
xfMIBRoot.2.6.1.2.1. <b>15.Index</b>	(xfMIBRoot.xfsManagedService.xfsDEP.xfsDEPV1.xfsDEPStatusTable.xfsDEPStatusEntry. <b>xfsDEPStatusPowerSaveRecoveryTime</b> .xfsDEPStatusManagedServiceName)
	3 (3 seconds to recover from power saving mode)

## 4. Appendix A - DEP MIB sub-tree

The following paragraph contains the definition of the XFS DEP MIB sub-tree in ASN-1 format.

### 4.1 DEP MIB in SMIV2 and SMIV1 ASN-1 format



SMIV1\_xfsDEP.mib



SMIV2\_xfsDEP.mib

*The following text is the content of xfsDEP.MIB in SMIV2 format.*

```
-- *****
-- XFS MIB for DEP
-- Management Information Base for XFS DEP Device
--
-- The DEP Number is 6
-- The ASN.1 prefix to, and including the DEP is:
--         1.3.6.1.4.1.16213.2.6
--
-- *****

XFS-DEP-MIB DEFINITIONS ::= BEGIN

    IMPORTS
        Integer32, OBJECT-TYPE, OBJECT-IDENTITY, NOTIFICATION-TYPE
            FROM SNMPv2-SMI
        DisplayString, TruthValue
            FROM SNMPv2-TC
        xfsDEP, xfsTrap, IxfsMIBDeviceStatus
            FROM XFSMIB;

--
-- Type definitions
--
-- *****
-- DEP #defines
-- *****
IxfsDEPContainerStatus ::= INTEGER
{
    xfsDEPContainerOK(1),
    xfsDEPContainerHigh(2),
    xfsDEPContainerFull(3),
    xfsDEPContainerInop(4),
    xfsDEPContainerMissing(5),
    xfsDEPContainerUnknown(6),
    xfsDEPContainerNotSupported(7)
}

IxfsDEPTransportStatus ::= INTEGER
{
    xfsDEPTransportOK(1),
    xfsDEPTransportInop(4),
    xfsDEPTransportUnknown(6),
    xfsDEPTransportNotSupported(7)
}

IxfsDEPEnvSupplyStatus ::= INTEGER
{
    xfsDEPEnvSupplyOK(1),
    xfsDEPEnvSupplyLow(2),
    xfsDEPEnvSupplyEmpty(3),
    xfsDEPEnvSupplyInop(4),
    xfsDEPEnvSupplyMissing(5),
    xfsDEPEnvSupplyUnknown(6),
    xfsDEPEnvSupplyNotSupported(7),
    xfsDEPEnvSupplyUnlocked(8)
}

IxfsDEPEnvDispenserStatus ::= INTEGER
{
```

```

xfsDEPEnvDispenserOK(1),
xfsDEPEnvDispenserInop(4),
xfsDEPEnvDispenserUnknown(6),
xfsDEPEnvDispenserNotSupported(7)
}

IxfsDEPPrinterStatus ::= INTEGER
{
xfsDEPPrinterOK(1),
xfsDEPPrinterInop(2),
xfsDEPPrinterUnknown(3),
xfsDEPPrinterNotSupported(4)
}

IxfsDEPTonerStatus ::= INTEGER
{
xfsDEPTonerFull(1),
xfsDEPTonerLow(2),
xfsDEPTonerOut(3),
xfsDEPTonerUnknown(4),
xfsDEPTonerNotSupported(5)
}

IxfsDEPShutterStatus ::= INTEGER
{
xfsDEPShutterClosed(1),
xfsDEPShutterOpen(2),
xfsDEPShutterJammed(3),
xfsDEPShutterUnknown(4),
xfsDEPShutterNotSupported(5)
}

IxfsDEPDepositLocationStatus ::= INTEGER
{
xfsDEPLocationMOTSupported(1),
xfsDEPLocationUnknown(2),
xfsDEPLocationContainer(3),
xfsDEPLocationTransport(4),
xfsDEPLocationPrinter(5),
xfsDEPLocationShutter(6),
xfsDEPLocationNone(7),
xfsDEPLocationRemoved(8)
}

IxfsDEPDevicePositionStatus ::= INTEGER
{
xfsDEPDeviceInPosition(1),
xfsDEPDeviceNotInPosition(2),
xfsDEPDevicePosUnknown(3),
xfsDEPDevicePosNotSupported(4)
}

IxfsDEPCapabilitiesEnvelopeSupply ::= INTEGER
{
xfsDEPEnvelopeMotorized(2),
xfsDEPEnvelopeManual(3),
xfsDEPEnvelopeNone(4)
}

IxfsDEPCapabilitiesRetractEnvelope ::= INTEGER
{
xfsDEPNoRetract(2),
xfsDEPRetractDep(3),
xfsDEPRetractDisp(4)
}

--
-- Node definitions
--
-- *****
-- Version 1 of DEP MIB
--

```

## CWA 15748-35:2011 (E)

```
-- The ASN.1 prefix to, and including the Version 1 of DEP is:
--       1.3.6.1.4.1.16213.2.6.1
--
-- *****
-- 1.3.6.1.4.1.16213.2.6.1
xfsDEPV1 OBJECT IDENTIFIER ::= { xfsDEP 1 }

-- 1.3.6.1.4.1.16213.2.6.1.1
xfsDEPInstances OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number that represents the number of DEP managed services."
    ::= { xfsDEPV1 1 }

-- *****
-- DEP Device Status Table
-- *****
-- 1.3.6.1.4.1.16213.2.6.1.2
xfsDEPStatusTable OBJECT-TYPE
    SYNTAX SEQUENCE OF XfsDEPStatusEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Define the set of MIB Variables for the DEP status table."
    ::= { xfsDEPV1 2 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1
xfsDEPStatusEntry OBJECT-TYPE
    SYNTAX XfsDEPStatusEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "DEP Device Status Table Entry."
    INDEX { xfsDEPStatusManagedServiceName }
    ::= { xfsDEPStatusTable 1 }

XfsDEPStatusEntry ::=
    SEQUENCE {
        xfsDEPStatusManagedServiceName
            DisplayString,
        xfsDEPStatusNumberSubDevices
            Integer32,
        xfsDEPStatusDevice
            IxfsMIBDeviceStatus,
        xfsDEPStatusContainer
            IxfsDEPContainerStatus,
        xfsDEPStatusTransport
            IxfsDEPTransportStatus,
        xfsDEPStatusEnvSupply
            IxfsDEPEnvSupplyStatus,
        xfsDEPStatusEnvDispenser
            IxfsDEPEnvDispenserStatus,
        xfsDEPStatusPrinter
            IxfsDEPPrinterStatus,
        xfsDEPStatusToner
            IxfsDEPTonerStatus,
        xfsDEPStatusShutter
            IxfsDEPShutterStatus,
        xfsDEPStatusNumberOfDeposits
            Integer32,
        xfsDEPStatusGuidanceEnvDepository
            Integer32,
        xfsDEPStatusGuidanceEnvDispenser
            Integer32,
        xfsDEPStatusDepositLocation
            IxfsDEPDepositLocationStatus,
        xfsDEPStatusDevicePosition
            IxfsDEPDevicePositionStatus,
        xfsDEPStatusPowerSaveRecoveryTime
```

```

        Integer32,
        xfsDEPStatusExtraStatus
        OCTET STRING
    }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.1
xfsDEPStatusManagedServiceName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Instance identifier of the managed service."
    ::= { xfsDEPStatusEntry 1 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.2
xfsDEPStatusNumberSubDevices OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Number of sub devices supported by the DEP device."
    ::= { xfsDEPStatusEntry 2 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.3
xfsDEPStatusDevice OBJECT-TYPE
    SYNTAX IxfsMIBDeviceStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Device status."
    ::= { xfsDEPStatusEntry 3 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.4
xfsDEPStatusContainer OBJECT-TYPE
    SYNTAX IxfsDEPContainerStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Container Status.
        xfsDEPContainerOK(1),
        xfsDEPContainerHigh(2),
        xfsDEPContainerFull(3),
        xfsDEPContainerInop(4),
        xfsDEPContainerMissing(5),
        xfsDEPContainerUnknown(6),
        xfsDEPContainerNotSupported(7)."
    ::= { xfsDEPStatusEntry 4 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.5
xfsDEPStatusTransport OBJECT-TYPE
    SYNTAX IxfsDEPTransportStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Transport Status.
        xfsDEPTransportOK(1),
        xfsDEPTransportInop(4),
        xfsDEPTransportUnknown(6),
        xfsDEPTransportNotSupported(7)."
    ::= { xfsDEPStatusEntry 5 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.6
xfsDEPStatusEnvSupply OBJECT-TYPE
    SYNTAX IxfsDEPEnvSupplyStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Envelope Supply Status.
        xfsDEPEnvSupplyOK(1),
        xfsDEPEnvSupplyLow(2),

```

```

    xfsDEPEnvSupplyEmpty(3),
    xfsDEPEnvSupplyInop(4),
    xfsDEPEnvSupplyMissing(5),
    xfsDEPEnvSupplyUnknown(6),
    xfsDEPEnvSupplyNotSupported(7),
    xfsDEPEnvSupplyUnlocked(8)"
 ::= { xfsDEPStatusEntry 6 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.7
xfsDEPStatusEnvDispenser OBJECT-TYPE
SYNTAX IxfsDEPEnvDispenserStatus
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Envelope Dispenser Status.
    xfsDEPEnvDispenserOK(1),
    xfsDEPEnvDispenserInop(4),
    xfsDEPEnvDispenserUnknown(6),
    xfsDEPEnvDispenserNotSupported(7)."
```

```

 ::= { xfsDEPStatusEntry 7 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.8
xfsDEPStatusPrinter OBJECT-TYPE
SYNTAX IxfsDEPPrinterStatus
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Printer Status.
    xfsDEPPrinterOK(1),
    xfsDEPPrinterInop(2),
    xfsDEPPrinterUnknown(3),
    xfsDEPPrinterNotSupported(4)."
```

```

 ::= { xfsDEPStatusEntry 8 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.9
xfsDEPStatusToner OBJECT-TYPE
SYNTAX IxfsDEPTonerStatus
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Toner Status.
    xfsDEPTonerFull(1),
    xfsDEPTonerLow(2),
    xfsDEPTonerOut(3),
    xfsDEPTonerUnknown(4),
    xfsDEPTonerNotSupported(5)."
```

```

 ::= { xfsDEPStatusEntry 9 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.10
xfsDEPStatusShutter OBJECT-TYPE
SYNTAX IxfsDEPShutterStatus
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Shutter Status.
    xfsDEPShutterClosed(1),
    xfsDEPShutterOpen(2),
    xfsDEPShutterJammed(3),
    xfsDEPShutterUnknown(4),
    xfsDEPShutterNotSupported(5)."
```

```

 ::= { xfsDEPStatusEntry 10 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.11
xfsDEPStatusNumberOfDeposits OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Number of envelopes or bags in the deposit container."
```

```

 ::= { xfsDEPStatusEntry 11 }

```



```

-- 1.3.6.1.4.1.16213.2.6.1.2.1.12
xfsDEPStatusGuidanceEnvDepository OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Contains the state of the envelope depository guidance light."
    ::= { xfsDEPStatusEntry 12 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.13
xfsDEPStatusGuidanceEnvDispenser OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Contains the state of the envelope dispenser guidance light."
    ::= { xfsDEPStatusEntry 13 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.14
xfsDEPStatusDepositLocation OBJECT-TYPE
    SYNTAX IxfsDEPDepositLocationStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the device position.
        xfsDEPLocationMOtSupported(1),
        xfsDEPLocationUnknown(2),
        xfsDEPLocationContainer(3),
        xfsDEPLocationTransport(4)
        xfsDEPLocationPrinter(5)
        xfsDEPLocationShutter(6)
        xfsDEPLocationNone(7)
        xfsDEPLocationRemoved(8)"
    ::= { xfsDEPStatusEntry 14 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.15
xfsDEPStatusDevicePosition OBJECT-TYPE
    SYNTAX IxfsDEPDevicePositionStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Specifies the device position.
        xfsDEPDeviceInPosition(1),
        xfsDEPDeviceNotInPosition(2),
        xfsDEPDevicePosUnknown(3),
        xfsDEPDevicePosNotSupported(4)."
    ::= { xfsDEPStatusEntry 15 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.16
xfsDEPStatusPowerSaveRecoveryTime OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "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."
    ::= { xfsDEPStatusEntry 16 }

-- 1.3.6.1.4.1.16213.2.6.1.2.1.100
xfsDEPStatusExtraStatus OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Vendor dependent additional device status information."

```

## CWA 15748-35:2011 (E)

```
 ::= { xfsDEPStatusEntry 100 }

-- *****
-- DEP Sub Device Status Table
--
-- Note that the DEP device does not currently have sub-devices. The
-- sub-device table is not required for this device and is shown as an
-- example for those devices that do support sub-devices.
--
-- Note, to ensure consistency across all MIB extensions OID 16213.2.6.1.3
-- must be reserved for the sub-device table.
-- *****
-- 1.3.6.1.4.1.16213.2.6.1.3
xfsDEPSubDeviceTable OBJECT-TYPE
    SYNTAX SEQUENCE OF XfsDEPSubDeviceEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Define the set of MIB Variables for the DEP status table."
    ::= { xfsDEPV1 3 }

-- 1.3.6.1.4.1.16213.2.6.1.3.1
xfsDEPSubDeviceEntry OBJECT-TYPE
    SYNTAX XfsDEPSubDeviceEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "DEP Sub-Device Status Table Entry."
    INDEX { xfsDEPSubDeviceManagedServiceName, xfsDEPSubDeviceIndex }
    ::= { xfsDEPSubDeviceTable 1 }

XfsDEPSubDeviceEntry ::=
    SEQUENCE {
        xfsDEPSubDeviceManagedServiceName
            DisplayString,
        xfsDEPSubDeviceIndex
            INTEGER
    }

-- As an example if you want to add values to the sub-device table, add
-- entries as shown in the example below.
-- xfsDEPSubDeviceValue          INTEGER }
-- 1.3.6.1.4.1.16213.2.6.1.3.1.1
xfsDEPSubDeviceManagedServiceName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Instance identifier of the managed service."
    ::= { xfsDEPSubDeviceEntry 1 }

-- 1.3.6.1.4.1.16213.2.6.1.3.1.2
xfsDEPSubDeviceIndex OBJECT-TYPE
    SYNTAX INTEGER (1..65535)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Index into the array of sub devices supported."
    ::= { xfsDEPSubDeviceEntry 2 }

-- As an example if you want to add values to the sub-device table, add
-- entries as shown in the example below.
-- xfsDEPSubDeviceValue          OBJECT-TYPE
-- SYNTAX          INTEGER
-- ACCESS          read-only
-- STATUS          mandatory
-- DESCRIPTION     "Returns the value of the sub device referenced by the index."
-- ::= {xfsDEPSubDeviceEntry 3}
-- *****
-- DEP Error Table
```

```

-- *****
-- 1.3.6.1.4.1.16213.2.6.1.4
xfsDEPErrorTable OBJECT-TYPE
    SYNTAX SEQUENCE OF XfsDEPErrorEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Define the set of MIB Variables for the DEP Error Table."
    ::= { xfsDEPV1 4 }

-- 1.3.6.1.4.1.16213.2.6.1.4.1
xfsDEPErrorEntry OBJECT-TYPE
    SYNTAX XfsDEPErrorEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "DEP Error Table Entry."
    INDEX { xfsDEPErrorManagedServiceName, xfsDEPErrorCommandCode,
xfsDEPErrorResponseCode }
    ::= { xfsDEPErrorTable 1 }

XfsDEPErrorEntry ::=
    SEQUENCE {
        xfsDEPErrorManagedServiceName
            DisplayString,
        xfsDEPErrorCommandCode
            INTEGER,
        xfsDEPErrorResponseCode
            INTEGER,
        xfsDEPErrorCount
            Integer32
    }

-- 1.3.6.1.4.1.16213.2.6.1.4.1.1
xfsDEPErrorManagedServiceName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Instance identifier of the managed service."
    ::= { xfsDEPErrorEntry 1 }

-- 1.3.6.1.4.1.16213.2.6.1.4.1.2
xfsDEPErrorCommandCode OBJECT-TYPE
    SYNTAX INTEGER (601..700)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The executable command code supported by the Service
        Provider associated with the error count of interest."
    ::= { xfsDEPErrorEntry 2 }

-- 1.3.6.1.4.1.16213.2.6.1.4.1.3
xfsDEPErrorResponseCode OBJECT-TYPE
    SYNTAX INTEGER (0..99 | 600..699)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The response code supported by Service Provider for the
        corresponding command code associated with the error count
        of interest."
    ::= { xfsDEPErrorEntry 3 }

-- 1.3.6.1.4.1.16213.2.6.1.4.1.4
xfsDEPErrorCount OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "The counter value corresponding to the managed service,

```

## CWA 15748-35:2011 (E)

```
        command code and response code."
 ::= { xfsDEPErrorEntry 4 }

-- *****
-- DEP Reset Table
-- *****
-- 1.3.6.1.4.1.16213.2.6.1.5
xfsDEPResetTable OBJECT-TYPE
    SYNTAX SEQUENCE OF XfsDEPResetEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Defines the set of MIB Variables for the DEP Reset Table."
    ::= { xfsDEPV1 5 }

-- 1.3.6.1.4.1.16213.2.6.1.5.1
xfsDEPResetEntry OBJECT-TYPE
    SYNTAX XfsDEPResetEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "DEP Reset Table Entry."
    INDEX { xfsDEPResetManagedServiceName }
    ::= { xfsDEPResetTable 1 }

XfsDEPResetEntry ::=
    SEQUENCE {
        xfsDEPResetManagedServiceName
            DisplayString,
        xfsDEPResetAll
            Integer32,
        xfsDEPResetTimestamp
            DisplayString
    }

-- 1.3.6.1.4.1.16213.2.6.1.5.1.1
xfsDEPResetManagedServiceName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Instance identifier of the managed service."
    ::= { xfsDEPResetEntry 1 }

-- 1.3.6.1.4.1.16213.2.6.1.5.1.2
xfsDEPResetAll OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Returns all counter values for this managed service to
         zero when set to zero and returns zero when read."
    ::= { xfsDEPResetEntry 2 }

-- 1.3.6.1.4.1.16213.2.6.1.5.1.3
xfsDEPResetTimestamp OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Date and time the last reset of the counters was
         performed."
    ::= { xfsDEPResetEntry 3 }

-- *****
-- DEP Reset Device Table
-- *****
-- 1.3.6.1.4.1.16213.2.6.1.6
xfsDEPResetDeviceTable OBJECT-TYPE
```

```

SYNTAX SEQUENCE OF XfsDEPResetDeviceEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "Define the set of MIB Variables for the DEP Reset Device Table."
 ::= { xfsDEPv1 6 }

-- 1.3.6.1.4.1.16213.2.6.1.6.1
xfsDEPResetDeviceEntry OBJECT-TYPE
    SYNTAX XfsDEPResetDeviceEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "DEP Reset Device Table Entry."
    INDEX { xfsDEPResetDeviceManagedServiceName }
    ::= { xfsDEPResetDeviceTable 1 }

XfsDEPResetDeviceEntry ::=
    SEQUENCE {
        xfsDEPResetDeviceManagedServiceName
            DisplayString,
        xfsDEPResetDeviceAction
            INTEGER,
        xfsDEPResetDeviceMediaControl
            INTEGER,
        xfsDEPResetDeviceStatus
            INTEGER
    }

-- 1.3.6.1.4.1.16213.2.6.1.6.1.1
xfsDEPResetDeviceManagedServiceName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Instance identifier of the managed service."
    ::= { xfsDEPResetDeviceEntry 1 }

-- 1.3.6.1.4.1.16213.2.6.1.6.1.2
xfsDEPResetDeviceAction OBJECT-TYPE
    SYNTAX INTEGER { executeReset(1) }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
        "Variable that initiates the device reset."
    ::= { xfsDEPResetDeviceEntry 2 }

-- 1.3.6.1.4.1.16213.2.6.1.6.1.3
xfsDEPResetDeviceMediaControl OBJECT-TYPE
    SYNTAX INTEGER
    {
        mediaDefault(1),
        mediaIn(2),
        mediaOut(3)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Variable that reports the media handling during the device reset."
    ::= { xfsDEPResetDeviceEntry 3 }

-- 1.3.6.1.4.1.16213.2.6.1.6.1.4
xfsDEPResetDeviceStatus OBJECT-TYPE
    SYNTAX INTEGER
    {
        resetIdle(1),
        resetInProgress(2)
    }
    MAX-ACCESS read-only
    STATUS current

```

## CWA 15748-35:2011 (E)

```
DESCRIPTION
    "Variable that reports the progress of the device reset."
    ::= { xfsDEPResetDeviceEntry 4 }

-- *****
-- DEP Device Capabilities Table
-- *****
-- 1.3.6.1.4.1.16213.2.6.1.7
xfsDEPCapabilitiesTable OBJECT-TYPE
    SYNTAX SEQUENCE OF XfsDEPCapabilitiesEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "Define the set of MIB Variables for the DEP capabilities table."
    ::= { xfsDEPV1 7 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1
xfsDEPCapabilitiesEntry OBJECT-TYPE
    SYNTAX XfsDEPCapabilitiesEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "DEP Device Capabilities Table Entry."
    INDEX { xfsDEPCapabilitiesManagedServiceName }
    ::= { xfsDEPCapabilitiesTable 1 }

XfsDEPCapabilitiesEntry ::=
    SEQUENCE {
        xfsDEPCapabilitiesManagedServiceName
            DisplayString,
        xfsDEPCapabilitiesDeviceType
            Integer32,
        xfsDEPCapabilitiesEnvelopeSupply
            IxfsDEPCapabilitiesEnvelopeSupply,
        xfsDEPCapabilitiesTransport
            TruthValue,
        xfsDEPCapabilitiesPrinter
            TruthValue,
        xfsDEPCapabilitiesToner
            TruthValue,
        xfsDEPCapabilitiesShutter
            TruthValue,
        xfsDEPCapabilitiesPrintOnRetract
            TruthValue,
        xfsDEPCapabilitiesRetractEnvelope
            IxfsDEPCapabilitiesRetractEnvelope,
        xfsDEPCapabilitiesMaxNumberChars
            Integer32,
        xfsDEPCapabilitiesCharacterSupported
            Integer32,
        xfsDEPCapabilitiesGuidanceEnvDepository
            Integer32,
        xfsDEPCapabilitiesGuidanceEnvDispenser
            Integer32,
        xfsDEPCapabilitiesPowerSaveControl
            TruthValue,
        xfsDEPCapabilitiesExtraCapability
            OCTET STRING
    }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.1
xfsDEPCapabilitiesManagedServiceName OBJECT-TYPE
    SYNTAX DisplayString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Instance identifier of the managed service."
    ::= { xfsDEPCapabilitiesEntry 1 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.2
xfsDEPCapabilitiesDeviceType OBJECT-TYPE
```

```

SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "The type of the DEP device.
    xfsDEPTypeEnvelope(1),
    xfsDEPTypeBagDrop(2)."
```

```

::= { xfsDEPCapabilitiesEntry 2 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.3
xfsDEPCapabilitiesEnvelopeSupply OBJECT-TYPE
SYNTAX IxfsDEPCapabilitiesEnvelopeSupply
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Device envelope supply capabilities.
    xfsDEPEnvelopeMotorized(2),
    xfsDEPEnvelopeManual(3),
    xfsDEPEnvelopeNone(4)."
```

```

::= { xfsDEPCapabilitiesEntry 3 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.4
xfsDEPCapabilitiesTransport OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Transport capabilities.
    True(1),
    False(2)."
```

```

::= { xfsDEPCapabilitiesEntry 4 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.5
xfsDEPCapabilitiesPrinter OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Device printer capabilities.
    True(1),
    False(2)."
```

```

::= { xfsDEPCapabilitiesEntry 5 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.6
xfsDEPCapabilitiesToner OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Device toner capabilities.
    True(1),
    False(2)."
```

```

::= { xfsDEPCapabilitiesEntry 6 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.7
xfsDEPCapabilitiesShutter OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    "Device shutter capabilities.
    True(1),
    False(2)."
```

```

::= { xfsDEPCapabilitiesEntry 7 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.8
xfsDEPCapabilitiesPrintOnRetract OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
```

```

STATUS current
DESCRIPTION
  "Device print on retract capabilities.
  True(1),
  False(2)."
 ::= { xfsDEPCapabilitiesEntry 8 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.9
xfsDEPCapabilitiesRetractEnvelope OBJECT-TYPE
SYNTAX IxfsDEPCapabilitiesRetractEnvelope
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "Device envelope retract capabilities.
  xfsDEPNoRetract(2),
  xfsDEPRetractDep(3),
  xfsDEPRetractDisp(4)."
 ::= { xfsDEPCapabilitiesEntry 9 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.10
xfsDEPCapabilitiesMaxNumberChars OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "The maximum number of characters that can be printed on the retract
envelope."
 ::= { xfsDEPCapabilitiesEntry 10 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.11
xfsDEPCapabilitiesCharacterSupported OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "One or more flags specify the Character Sets supported by the Service
Provider.
  xfsDEPASCII(1),
  xfsDEPUnicode(2)."
 ::= { xfsDEPCapabilitiesEntry 11 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.12
xfsDEPCapabilitiesGuidanceEnvDepository OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "It contains the capability of the envelope depository
  guidance light. Allowed values are a combination flag."
 ::= { xfsDEPCapabilitiesEntry 12 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.13
xfsDEPCapabilitiesGuidanceEnvDispenser OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "It contains the capability of the envelope dispenser
  guidance light. Allowed values are a combination flag."
 ::= { xfsDEPCapabilitiesEntry 13 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.14
xfsDEPCapabilitiesPowerSaveControl OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
  "This TruthValue variable specifies whether or not power
  saving control is available."

```



```

 ::= { xfsDEPCapabilitiesEntry 14 }

-- 1.3.6.1.4.1.16213.2.6.1.7.1.100
xfsDEPCapabilitiesExtraCapability OBJECT-TYPE
    SYNTAX OCTET STRING
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "Vendor dependent additional device capabilities information."
 ::= { xfsDEPCapabilitiesEntry 100 }

-- 1.3.6.1.4.1.16213.3.0
xfsTrapV2 OBJECT-IDENTITY
    STATUS current
    DESCRIPTION
        "Root node for the converted TRAP-TYPES."
 ::= { xfsTrap 0 }

-- *****
-- Trap definitions
-- *****
-- 1.3.6.1.4.1.16213.3.0.106
xfsDEPDetailedDSCTrap NOTIFICATION-TYPE
    OBJECTS { xfsCommonTrapSysName, xfsCommonTrapManagedServiceName,
xfsCommonTrapManagedServiceClass, xfsCommonTrapManagedServiceClassName,
xfsCommonTrapManagedServiceType,
        xfsCommonTrapManagedServiceOid, xfsCommonTrapPhysicalDeviceName,
xfsCommonTrapDeviceVendor, xfsCommonTrapMIBVersion, xfsCommonTrapEvent,
        xfsCommonTrapDate, xfsCommonTrapSPVersion, xfsDEPStatusDevice,
xfsDEPStatusNumberSubDevices, xfsDEPStatusContainer,
        xfsDEPStatusTransport, xfsDEPStatusEnvSupply, xfsDEPStatusEnvDispenser,
xfsDEPStatusPrinter, xfsDEPStatusToner,
        xfsDEPStatusShutter, xfsDEPStatusNumberOfDeposits,
xfsDEPStatusGuidanceEnvDepository, xfsDEPStatusGuidanceEnvDispenser,
xfsDEPStatusDepositLocation,
        xfsDEPStatusDevicePosition, xfsDEPStatusPowerSaveRecoveryTime,
xfsDEPStatusExtraStatus }
    STATUS current
    DESCRIPTION
        "This trap indicates a change in the status of a managed
        service."
 ::= { xfsTrapV2 106 }

-- 1.3.6.1.4.1.16213.3.0.306
xfsDEPResetDeviceCompleteTrap NOTIFICATION-TYPE
    OBJECTS { xfsCommonTrapResetDeviceResult, xfsCommonTrapManagedServiceName,
xfsCommonTrapManagedServiceClass, xfsCommonTrapManagedServiceClassName,
xfsCommonTrapManagedServiceType,
        xfsCommonTrapManagedServiceOid, xfsCommonTrapPhysicalDeviceName,
xfsCommonTrapDeviceVendor, xfsCommonTrapMIBVersion, xfsCommonTrapDate,
        xfsCommonTrapSPVersion, xfsDEPStatusDevice, xfsDEPStatusNumberSubDevices,
xfsDEPStatusContainer, xfsDEPStatusTransport,
        xfsDEPStatusEnvSupply, xfsDEPStatusEnvDispenser, xfsDEPStatusPrinter,
xfsDEPStatusToner, xfsDEPStatusShutter,
        xfsDEPStatusNumberOfDeposits, xfsDEPStatusGuidanceEnvDepository,
xfsDEPStatusGuidanceEnvDispenser, xfsDEPStatusDepositLocation,
xfsDEPStatusDevicePosition,
        xfsDEPStatusPowerSaveRecoveryTime, xfsDEPStatusExtraStatus }
    STATUS current
    DESCRIPTION
        "This trap indicates the Reset action has complete and reports the
        state of the device after the reset."
 ::= { xfsTrapV2 306 }

END

--
-- SMIV2_xfsDEP.mib
--

```

## 5. Appendix B - C-Header files

---

### 5.1 XFSMIBDEP.H

---

```

/*****
*
* xfsmibdep.h          CEN/XFS - MIB DEP
*
*                      Version 3.10  --  Dec 14, 2010
*
*****/

#ifndef __inc_xfsmibdep_h
#define __inc_xfsmibdep_h

#ifdef __cplusplus
extern "C" {
#endif

enum IxfsDEPContainerStatus
{
    xfsDEPContainerOK                = 1,
    xfsDEPContainerHigh,
    xfsDEPContainerFull,
    xfsDEPContainerInOp,
    xfsDEPContainerMissing,
    xfsDEPContainerUnknown,
    xfsDEPContainerNotSupported

} xfsDEPContainerStatus;

enum IxfsDEPTransportStatus
{
    xfsDEPTransportOK                = 1,
    xfsDEPTransportInOp              = 4,
    xfsDEPTransportUnknown           = 6,
    xfsDEPTransportNotSupported      = 7

} xfsDEPTransportStatus;

enum IxfsDEPEnvSupplyStatus
{
    xfsDEPEnvSupplyOK                = 1,
    xfsDEPEnvSupplyLow,
    xfsDEPEnvSupplyEmpty,
    xfsDEPEnvSupplyInOp,
    xfsDEPEnvSupplyMissing,
    xfsDEPEnvSupplyUnknown,
    xfsDEPEnvSupplyNotSupported,
    xfsDEPEnvSupplyUnlocked

} xfsDEPEnvSupplyStatus;

enum IxfsDEPEnvDispenserStatus
{
    xfsDEPEnvDispenserOK              = 1,
    xfsDEPEnvDispenserInOp            = 4,
    xfsDEPEnvDispenserUnknown         = 6,
    xfsDEPEnvDispenserNotSupported    = 7

} xfsDEPEnvDispenserStatus;

enum IxfsDEPPrinterStatus
{
    xfsDEPPrinterOK                  = 1,
    xfsDEPPrinterInOp,
    xfsDEPPrinterUnknown,
    xfsDEPPrinterNotSupported

} xfsDEPPrinterStatus;

```

```

enum IxfsDEPTonerStatus
{
    xfsDEPTonerFull           = 1,
    xfsDEPTonerLow,
    xfsDEPTonerOut,
    xfsDEPTonerUnknown,
    xfsDEPTonerNotSupported
} xfsDEPTonerStatus;

enum IxfsDEPShutterStatus
{
    xfsDEPShutterClosed       = 1,
    xfsDEPShutterOpen,
    xfsDEPShutterJammed,
    xfsDEPShutterUnknown,
    xfsDEPShutterNotSupported
} xfsDEPShutterStatus;

enum IxfsDEPDepositLocationStatus
{
    xfsDEPLocationNotSupported = 1,
    xfsDEPLocationUnknown,
    xfsDEPLocationContainer,
    xfsDEPLocationTransport
    xfsDEPLocationPrinter
    xfsDEPLocationShutter
    xfsDEPLocationNone
    xfsDEPLocationRemoved
} xfsDEPDepositLocationStatus

enum IxfsDEPDevicePositionStatus
{
    xfsDEPDeviceInPosition     = 1,
    xfsDEPDeviceNotInPosition,
    xfsDEPDevicePosUnknown,
    xfsDEPDevicePosNotSupported
} xfsDEPDevicePositionStatus

enum IxfsDEPCapabilitiesEnvelopeSupply
{
    xfsDEPEnvelopeMotorized    = 2,
    xfsDEPEnvelopeManual,
    xfsDEPEnvelopeNone
} xfsDEPCapabilitiesEnvelopeSupply

enum IxfsDEPCapabilitiesRetractEnvelope
{
    xfsDEPNoRetract            = 2,
    xfsDEPRetractDep,
    xfsDEPRetractDisp
} xfsDEPCapabilitiesRetractEnvelope

/*****
*
*   MIB Variables for the Status Table
*
*****/
#define xfsDEPStatusManagedServiceName    (1)
#define xfsDEPStatusNumberSubDevices      (2)
#define xfsDEPStatusDevice                (3)
#define xfsDEPStatusContainer              (4)
#define xfsDEPStatusTransport              (5)
#define xfsDEPStatusEnvSupply              (6)
#define xfsDEPStatusEnvDispenser           (7)
#define xfsDEPStatusPrinter                (8)
#define xfsDEPStatusToner                  (9)
#define xfsDEPStatusShutter                (10)
#define xfsDEPStatusNumberOfDeposits      (11)
#define xfsDEPStatusGuidanceEnvDepository (12)
#define xfsDEPStatusGuidanceEnvDispenser  (13)
#define xfsDEPStatusDepositLocation       (14)
#define xfsDEPStatusDevicePosition         (15)
#define xfsDEPStatusPowerSaveRecoveryTime (16)

```

```

#define xfsDEPStatusExtraStatus                (100)

/*****
*
*   MIB Variables for the Error Table
*
*****/
//Command codes and error codes correspond to the Service Provider definitions.

/*****
*
*   MIB Variables for the Capabilities Table
*
*****/
#define xfsDEPCapabilitiesManagedServiceName    (1)
#define xfsDEPCapabilitiesDeviceType            (2)
#define xfsDEPCapabilitiesEnvelopeSupply        (3)
#define xfsDEPCapabilitiesTransport            (4)
#define xfsDEPCapabilitiesPrinter              (5)
#define xfsDEPCapabilitiesToner                (6)
#define xfsDEPCapabilitiesShutter              (7)
#define xfsDEPCapabilitiesPrintOnRetract        (8)
#define xfsDEPCapabilitiesRetractEnvelope      (9)
#define xfsDEPCapabilitiesMaxNumberChars       (10)
#define xfsDEPCapabilitiesCharacterSupported    (11)
#define xfsDEPCapabilitiesGuidanceEnvDepository (12)
#define xfsDEPCapabilitiesGuidanceEnvDispenser (13)
#define xfsDEPCapabilitiesPowerSaveControl     (14)
#define xfsDEPCapabilitiesExtraCapability       (100)

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

#endif /* __inc_xfsmibdep_h */

```