# CEN

# WORKSHOP

# AGREEMENT

# CWA 15748-32

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English version

# Extensions for Financial Services (XFS) interface specification - Release 3.10 - Part 32: XFS MIB Device Specific Definitions - Cash Dispenser 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.

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# 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 xfsCDM 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 xfsCDM version one sub-tree is identified by:

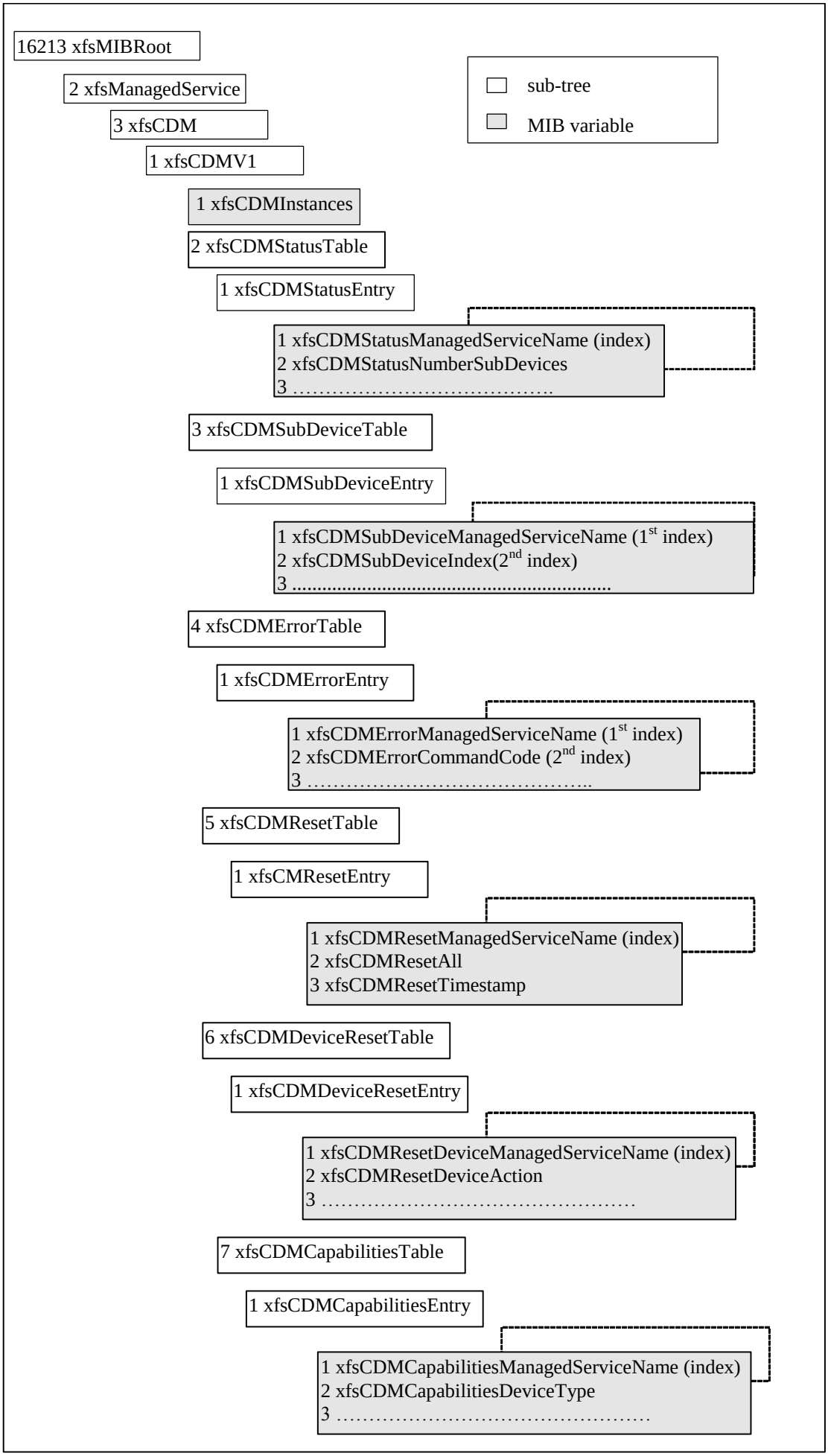
xfsMIBRoot

- xfsManagedService (2)
  - xfsCDM (3)
    - xfsCDMV1 (1)

The xfsCDMV1 sub-tree contains the following variables:

* *xfsCDMInstances(1)* is the number of managed services for the CDM class installed on the XFS subsystem. It is a 32 bit numerical field.
* *xfsCDMStatusTable(2)* identifies the table for the CDM variables.
* *xfsCDMSubDeviceTable(3)* identifies the sub-device table for the CDM device.
* *xfsCDMErrorTable(4)* identifies the table for the CDM error counters.
* *xfsCDMResetTable(*5*)* identifies the table for the CDM reset variable.
* *xfsCDMResetDeviceTable(6)* identifies the table for the CDM reset device variables.
* *xfsCDMCapabilitiesTable(7)* identifies the table for the CDM 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 *xfsCDMV1* sub-tree.


16213 xfsMIBRoot
2 xfsManagedService
3 xfsCDM
1 xfsCDMV1
1 xfsCDMInstances
2 xfsCDMStatusTable
1 xfsCDMStatusEntry
1 xfsCDMStatusManagedServiceName (index)
2 xfsCDMStatusNumberSubDevices
3 …….
3 xfsCDMSubDeviceTable
1 xfsCDMSubDeviceEntry
1 xfsCDMSubDeviceManagedServiceName (1st index)
2 xfsCDMSubDeviceIndex(2nd index)
3 .....
4 xfsCDMErrorTable
1 xfsCDMErrorEntry
1 xfsCDMErrorManagedServiceName (1st index)
2 xfsCDMErrorCommandCode (2nd index)
3 ……..
5 xfsCDMResetTable
1 xfsCMResetEntry
1 xfsCDMResetManagedServiceName (index)
2 xfsCDMResetAll
3 xfsCDMResetTimestamp
6 xfsCDMDeviceResetTable
1 xfsCDMDeviceResetEntry
1 xfsCDMResetDeviceManagedServiceName (index)
2 xfsCDMResetDeviceAction
3 ……
7 xfsCDMCapabilitiesTable
1 xfsCDMCapabilitiesEntry
1 xfsCDMCapabilitiesManagedServiceName (index)
2 xfsCDMCapabilitiesDeviceType
3 ……
sub-tree
MIB variable

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

# 2. XFS CDM MIB variables

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

- All command response counters maintained 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_CDM_RESET command to be executed from the management station.

## 2.1 XFS CDM Status Table

The *xfsCDMStatusTable(2)* groups the variables identifying device status information, statistics and additional variables. It is indexed through a single parameter, *xfsCDMStatusManagedServiceName*. 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.

*xfsCDMStatusManagedServiceName* is the instance identifier of the managed service and uniquely identifies one instance of the CDM class.

As an example, the identifier for the device status value of *xfsCDMSafeDoorStatus*(4) for a device with managed service name equal to "Dispenser1" is as follows:

| Character | D | i | s | p | e | n | s | e | r | 1 |
|---|---|---|---|---|---|---|---|---|---|---|
| ASCII Hex | 44 | 69 | 73 | 70 | 65 | 6E | 73 | 65 | 72 | 31 |
| ASCII Dec | 68 | 105 | 115 | 112 | 101 | 110 | 115 | 101 | 114 | 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.2.3.1.2.1.4.10.68.105.115.112.101.110.115.101.114.49*

### 2.1.1 xfsCDMStatusTable: States

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

xfsCDMStatusManagedServiceName (1)
Uniquely identifies the managed service

xfsCDMStatusNumberSubDevices (2)
Defines how many sub-devices the service has. It is a numeric value.

xfsCDMStatusDevice (3)
It contains the device state. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsDevOnline(1) | The device is present, powered on and online (i.e., operational, not busy processing a request and not in an error state). |
| xfsDevOffline(2) | The device is offline (e.g., the operator has taken the device offline by turning a switch or pulling out the device). |
| xfsDevPowerOff(3) | The device is powered off or physically not connected. |
| xfsDevNoDevice(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_CDM_DEVONLINE) or a permanent error condition has occurred (WFS_CDM_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. |

xfsCDMStatusSafeDoor (4)

The state of the safe door. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMDoorNotSupported(2) | Physical device has no safe door or door state reporting is not supported. |
| xfsCDMDoorOpen(3) | Safe door is open. |
| xfsCDMDoorClosed(4) | Safe door is closed. |
| xfsCDMDoorUnknown(6) | Due to a hardware error or other condition, the state of the door cannot be determined. |

xfsCDMStatusDispenser (5)

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

| Value | Meaning |
|---|---|
| xfsCDMDispenserOK(1) | All cash units present are in a good state. |
| xfsCDMDispenserCUState(2) | The dispenser is operational, but one or more of the cash units is in a low, empty or inoperative condition. Items can still be dispensed from at least one of the cash units. |
| xfsCDMDispenserCUStop(3) | Due to a cash unit failure dispensing is impossible. The dispenser is operational, but no items can be dispensed because all of the cash units are in an empty or inoperative condition. This state also occurs when a reject/retract cash unit is full or no reject/retract cash unit is present, or a XFS application lock is set on every cash unit. |
| xfsCDMDispenserCUUnknown(4) | Due to a hardware error or other condition, the state of the cash units cannot be determined. |

xfsCDMStatusIntermediateStacker (6)

The state of the intermediate stacker. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMISEmpty(1) | The intermediate stacker is empty. |
| xfsCDMISNotEmpty(2) | The intermediate stacker is not empty. The items have not been in customer access. |
| xfsCDMISNotEmptyCust(3) | The intermediate stacker is not empty. The items have been in customer access. |
| xfsCDMISNotEmptyUnk(4) | The intermediate stacker is not empty. It is not known if the items have been in customer access. |
| xfsCDMISUnknown(5) | Due to a hardware error or other condition, the state of the intermediate stacker cannot be determined. |
| xfsCDMISNotSupported(6) | The physical device has no intermediate stacker. |

xfsCDMStatusShutterCenter (7)

The state of the center output position shutter. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMShtClosed(1) | The shutter is closed. |
| xfsCDMShtOpen(2) | The shutter is opened. |
| xfsCDMShtJammed(3) | The shutter is jammed. |
| xfsCDMShtUnknown(4) | Due to a hardware error or other condition, the state of the shutter cannot be determined. |
| xfsCDMShtNotSupported(5) | The physical device has no shutter or shutter state reported is not supported. |

xfsCDMStatusOutputPositionCenter (8)

Information regarding items which may be at the center output position It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMPSEmpty(1) | The output position is empty. |
| xfsCDMPSNotEmpty(2) | The output position is not empty. |
| xfsCDMPSUnknown(3) | Due to a hardware error or other condition, the state of the output position cannot be determined. |
| xfsCDMPSNotSupported(4) | The device is not capable of reporting whether or not items are at the output position. |

xfsCDMStatusTransportCenter (9)

The state of the center output position transport mechanism. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPOK(1) | The transport is in a good state. |
| xfsCDMTPInop(2) | The transport is inoperative due to a hardware failure or media jam. |
| xfsCDMTPUnknown(3) | Due to a hardware error or other condition, the state of the transport cannot be determined. |
| xfsCDMTPNotSupported(4) | The physical device has no transport or transport state is not supported. |

xfsCDMStatusTransportStatusCenter (10)

The state of the items in the transport. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPStateEmpty(1) | The transport is empty. |
| xfsCDMTPStateNotEmpty(2) | The transport is not empty. |
| xfsCDMTPStateNotEmptyCust(3) | Items which a customer has had access to are on the transport. |
| xfsCDMTPStateNotEmptyUnknown(4) | Due to a hardware error or other conditions, it is not known whether there are items on the transport. |
| xfsCDMTPStateNotSupported(5) | The device is not capable of reporting whether items are on the transport. |

xfsCDMStatusShutterLeft (11)

The state of the shutter of left output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMShtClosed(1) | The shutter is closed. |
| xfsCDMShtOpen(2) | The shutter is opened. |
| xfsCDMShtJammed(3) | The shutter is jammed. |
| xfsCDMShtUnknown(4) | Due to a hardware error or other condition, the state of the shutter cannot be determined. |
| xfsCDMShtNotSupported(5) | The physical device has no shutter or shutter state reported is not supported. |

xfsCDMStatusOutputPositionLeft (12)

The state of the cash tray of left output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMPSEmpty(1) | The output position is empty. |
| xfsCDMPSNotEmpty(2) | The output position is not empty. |
| xfsCDMPSUnknown(3) | Due to a hardware error or other condition, the state of the output position cannot be determined. |
| xfsCDMPSNotSupported(4) | The device is not capable of reporting whether or not items are in the output position or the output position is not supported. |

xfsCDMStatusTransportLeft (13)

The state of the transport mechanism of left output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPOK(1) | The transport is in a good state. |
| xfsCDMTPInop(2) | The transport is inoperative due to a hardware failure or media jam. |
| xfsCDMTPUnknown(3) | Due to a hardware error or other condition, the state of the transport cannot be determined. |
| xfsCDMTPNotSupported(4) | The physical device has no transport or transport state reported is not supported. |

xfsCDMStatusTransportStatusLeft (14)

The state of the items in the transport. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPStateEmpty(1) | The transport is empty. |
| xfsCDMTPStateNotEmpty(2) | The transport is not empty. |
| xfsCDMTPStateNotEmptyCust(3) | Items which a customer has had access to are on the transport. |
| xfsCDMTPStateNotEmptyUnknown(4) | Due to a hardware error or other conditions, it is not known whether there are items on the transport. |
| xfsCDMTPStateNotSupported(5) | The device is not capable of reporting whether items are on the transport or left transport is not supported. |

xfsCDMStatusShutterRight (15)

The state of the shutter of right output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMShtClosed(1) | The shutter is closed. |
| xfsCDMShtOpen(2) | The shutter is opened. |
| xfsCDMShtJammed(3) | The shutter is jammed. |
| xfsCDMShtUnknown(4) | Due to a hardware error or other condition, the state of the shutter cannot be determined. |
| xfsCDMShtNotSupported(5) | The physical device has no shutter or shutter state reported is not supported. |

xfsCDMStatusOutputPositionRight (16)

The state of the cash tray of right output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMPSEmpty(1) | The output position is empty. |
| xfsCDMPSNotEmpty(2) | The output position is not empty. |
| xfsCDMPSUnknown(3) | Due to a hardware error or other condition, the state of the output position cannot be determined. |
| xfsCDMPSNotSupported(4) | The device is not capable of reporting whether or not items are at the output position or the right output position is not supported. |

xfsCDMStatusTransportRight (17)

The state of the transport mechanism of right output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPOK(1) | The transport is in a good state. |
| xfsCDMTPInop(2) | The transport is inoperative due to a hardware failure or media jam. |
| xfsCDMTPUnknown(3) | Due to a hardware error or other condition, the state of the transport cannot be determined. |
| xfsCDMTPNotSupported(4) | The physical device has no transport or transport state reported is not supported. |

xfsCDMStatusTransportStatusRight (18)

The state of the items in the transport. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPStateEmpty(1) | The transport is empty. |
| xfsCDMTPStateNotEmpty(2) | The transport is not empty. |
| xfsCDMTPStateNotEmptyCust(3) | Items which a customer has had access to are on the transport. |

| | |
|---|---|
| xfsCDMTPStateNotEmptyUnknown(4) | Due to a hardware error or other conditions, it is not known whether there are items on the transport. |
| xfsCDMTPStateNotSupported(5) | The device is not capable of reporting whether items are on the transport or right transport is not supported. |

xfsCDMStatusShutterTop (19)

The state of the shutter of top output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMShtClosed(1) | The shutter is closed. |
| xfsCDMShtOpen(2) | The shutter is opened. |
| xfsCDMShtJammed(3) | The shutter is jammed. |
| xfsCDMShtUnknown(4) | Due to a hardware error or other condition, the state of the shutter cannot be determined. |
| xfsCDMShtNotSupported(5) | The physical device has no shutter or shutter state reported is not supported. |

xfsCDMStatusOutputPositionTop (20)

The state of the cash tray of top output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMPSEmpty(1) | The output position is empty. |
| xfsCDMPSNotEmpty(2) | The output position is not empty. |
| xfsCDMPSUnknown(3) | Due to a hardware error or other condition, the state of the output position cannot be determined. |
| xfsCDMPSNotSupported(4) | The device is not capable of reporting whether or not items are at the output position or top output position is not supported. |

xfsCDMStatusTransportTop (21)

The state of the transport mechanism of top output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPOK(1) | The transport is in a good state. |
| xfsCDMTPInop(2) | The transport is inoperative due to a hardware failure or media jam. |
| xfsCDMTPUnknown(3) | Due to a hardware error or other condition, the state of the transport cannot be determined. |
| xfsCDMTPNotSupported(4) | The physical device has no transport or transport state reported is not supported. |

xfsCDMStatusTransportStatusTop (22)

The state of the items in the transport. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPStateEmpty(1) | The transport is empty. |
| xfsCDMTPStateNotEmpty(2) | The transport is not empty. |
| xfsCDMTPStateNotEmptyCust(3) | Items which a customer has had access to are on the transport. |
| xfsCDMTPStateNotEmptyUnknown(4) | Due to a hardware error or other conditions, it is not known whether there are items on the transport. |
| xfsCDMTPStateNotSupported(5) | The device is not capable of reporting whether items are on the transport or top transport is not supported. |

xfsCDMStatusShutterBottom (23)

The state of the shutter of bottom output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMShtClosed(1) | The shutter is closed. |
| xfsCDMShtOpen(2) | The shutter is opened. |
| xfsCDMShtJammed(3) | The shutter is jammed. |
| xfsCDMShtUnknown(4) | Due to a hardware error or other condition, the state of the shutter cannot be determined. |
| xfsCDMShtNotSupported(5) | The physical device has no shutter or shutter state reported is not |

supported.

xfsCDMStatusOutputPositionBottom (24)

The state of the cash tray of bottom output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMPSEmpty(1) | The output position is empty. |
| xfsCDMPSNotEmpty(2) | The output position is not empty. |
| xfsCDMPSUnknown(3) | Due to a hardware error or other condition, the state of the output position cannot be determined. |
| xfsCDMPSNotSupported(4) | The device is not capable of reporting whether or not items are at the output position or bottom output position is not supported. |

xfsCDMStatusTransportBottom (25)

The state of the transport mechanism of bottom output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPOK(1) | The transport is in a good state. |
| xfsCDMTPInop(2) | The transport is inoperative due to a hardware failure or media jam. |
| xfsCDMTPUnknown(3) | Due to a hardware error or other condition, the state of the transport cannot be determined. |
| xfsCDMTPNotSupported(4) | The physical device has no transport or transport state reported is not supported. |

xfsCDMStatusTransportStatusBottom (26)

The state of the items in the transport. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPStateEmpty(1) | The transport is empty. |
| xfsCDMTPStateNotEmpty(2) | The transport is not empty. |
| xfsCDMTPStateNotEmptyCust(3) | Items which a customer has had access to are on the transport. |
| xfsCDMTPStateNotEmptyUnknown(4) | Due to a hardware error or other conditions, it is not known whether there are items on the transport. |
| xfsCDMTPStateNotSupported(5) | The device is not capable of reporting whether items are on the transport or the transport is not supported. |

xfsCDMStatusShutterFront (27)

The state of the shutter of front output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMShtClosed(1) | The shutter is closed. |
| xfsCDMShtOpen(2) | The shutter is opened. |
| xfsCDMShtJammed(3) | The shutter is jammed. |
| xfsCDMShtUnknown(4) | Due to a hardware error or other condition, the state of the shutter cannot be determined. |
| xfsCDMShtNotSupported(5) | The physical device has no shutter or shutter state reported is not supported. |

xfsCDMStatusOutputPositionFront (28)

The state of the cash tray of front output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMPSEmpty(1) | The output position is empty. |
| xfsCDMPSNotEmpty(2) | The output position is not empty. |
| xfsCDMPSUnknown(3) | Due to a hardware error or other condition, the state of the output position cannot be determined. |
| xfsCDMPSNotSupported(4) | The device is not capable of reporting whether or not items are at the output position or the output position is not supported. |

xfsCDMStatusTransportFront (29)

The state of the transport mechanism of front output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPOK(1) | The transport is in a good state. |
| xfsCDMTPInop(2) | The transport is inoperative due to a hardware failure or media jam. |
| xfsCDMTPUnknown(3) | Due to a hardware error or other condition, the state of the transport cannot be determined. |
| xfsCDMTPNotSupported(4) | The physical device has no transport or transport state reported is not supported. |

xfsCDMStatusTransportStatusFront (30)

The state of the items in the transport. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPStateEmpty(1) | The transport is empty. |
| xfsCDMTPStateNotEmpty(2) | The transport is not empty. |
| xfsCDMTPStateNotEmptyCust(3) | Items which a customer has had access to are on the transport. |
| xfsCDMTPStateNotEmptyUnknown(4) | Due to a hardware error or other conditions, it is not known whether there are items on the transport. |
| xfsCDMTPStateNotSupported(5) | The device is not capable of reporting whether items are on the transport or the transport is not supported. |

xfsCDMStatusShutterRear (31)

The state of the shutter of rear output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMShtClosed(1) | The shutter is closed. |
| xfsCDMShtOpen(2) | The shutter is opened. |
| xfsCDMShtJammed(3) | The shutter is jammed. |
| xfsCDMShtUnknown(4) | Due to a hardware error or other condition, the state of the shutter cannot be determined. |
| xfsCDMShtNotSupported(5) | The physical device has no shutter or shutter state reported is not supported. |

xfsCDMStatusOutputPositionRear (32)

The state of the cash tray of rear output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMPSEmpty(1) | The output position is empty. |
| xfsCDMPSNotEmpty(2) | The output position is not empty. |
| xfsCDMPSUnknown(3) | Due to a hardware error or other condition, the state of the output position cannot be determined. |
| xfsCDMPSNotSupported(4) | The device is not capable of reporting whether or not items are at the output position or the output position is not supported. |

xfsCDMStatusTransportRear (33)

The state of the transport mechanism of rear output position. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPOK(1) | The transport is in a good state. |
| xfsCDMTPInop(2) | The transport is inoperative due to a hardware failure or media jam. |
| xfsCDMTPUnknown(3) | Due to a hardware error or other condition, the state of the transport cannot be determined. |
| xfsCDMTPNotSupported(4) | The physical device has no transport or transport state reported is not supported. |

xfsCDMStatusTransportStatusRear (34)

The state of the items in the transport. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTPStateEmpty(1) | The transport is empty. |
| xfsCDMTPStateNotEmpty(2) | The transport is not empty. |

| | |
|---|---|
| xfsCDMTPStateNotEmptyCust(3) | Items which a customer has had access to are on the transport. |
| xfsCDMTPStateNotEmptyUnknown(4) | Due to a hardware error or other conditions, it is not known whether there are items on the transport. |
| xfsCDMTPStateNotSupported(5) | The device is not capable of reporting whether items are on the transport or the transport is not supported. |

xfsCDMStatusGuidancePosLeft (35)

Contains the state of the guidance light at the left output position.

| Value | XFS Name | Meaning |
|---|---|---|
| 0x00000000 | WFS_CDM_GUIDANCE_NOT_AVAILABLE | The status is not available. |
| 0x00000001 | WFS_CDM_GUIDANCE_OFF | The light is turned off. |
| 0x00000004 | WFS_CDM_GUIDANCE_SLOW_FLASH | The light is blinking slowly. |
| 0x00000008 | WFS_CDM_GUIDANCE_MEDIUM_FLASH | The light is blinking medium frequency. |
| 0x00000010 | WFS_CDM_GUIDANCE_QUICK_FLASH | The light is blinking quickly. |
| 0x00000080 | WFS_CDM_GUIDANCE_CONTINUOUS | The light is turned on continuous (steady). |
| 0x00000100 | WFS_CDM_GUIDANCE_RED | The light is red. |
| 0x00000200 | WFS_CDM_GUIDANCE_GREEN | The light is green. |
| 0x00000400 | WFS_CDM_GUIDANCE_YELLOW | The light is yellow. |
| 0x00000800 | WFS_CDM_GUIDANCE_BLUE | The light is blue. |
| 0x00001000 | WFS_CDM_GUIDANCE_CYAN | The light is cyan. |
| 0x00002000 | WFS_CDM_GUIDANCE_MAGENTA | The light is magenta. |
| 0x00004000 | WFS_CDM_GUIDANCE_WHITE | The light is white. |

xfsCDMStatusGuidancePosRight (36)

Contains the state of the guidance light indicator at the right output position. Allowed values the same as variable *xfsCDMStatusGuidancePosLeft (35)*.

xfsCDMStatusGuidancePosCenter (37)

Contains the state of the guidance light indicator at the center output position. Allowed values the same as variable *xfsCDMStatusGuidancePosLeft (35)*.

xfsCDMStatusGuidancePosTop (38)

Contains the state of the guidance light indicator at the top output position. Allowed values the same as variable *xfsCDMStatusGuidancePosLeft (35)*.

xfsCDMStatusGuidancePosBottom (39)

Contains the state of the guidance light indicator at the bottom output position. Allowed values the same as variable *xfsCDMStatusGuidancePosLeft (35)*.

xfsCDMStatusGuidancePosFront (40)

Contains the state of the guidance light indicator at the front output position. Allowed values the same as variable *xfsCDMStatusGuidancePosLeft (35)*.

xfsCDMStatusGuidancePosRear (41)

Contains the state of the guidance light indicator at the rear output position. Allowed values the same as variable *xfsCDMStatusGuidancePosLeft (35)*.

xfsCDMStatusDevicePosition (42)

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

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

xfsCDMStatusPowerSaveRecoveryTime (43)

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.

xfsCDMStatusExtraStatus (100)

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. An empty list is indicated by two consecutive null characters.

## 2.2 XFS CDM SubDevice Table

The *xfsCDMSubDeviceTable(3)* groups the variables identifying information for the cash units. It is indexed through two values: *xfsCDMSubDeviceIndex,* and *xfsCDMSubDeviceManagedServiceName*. All sub-device variables are read-only.

*xfsCDMSubDeviceManagedServiceName* is the instance identifier of the managed service and uniquely identifies one instance of the CDM class. As an example, the identifier for the sub-device status value of *xfsCDMSubDeviceCUType(3)* for sub-device index 1 with managed service name equal to "Dispenser1" is as follows:

| Character | D | i | s | p | e | n | s | e | r | 1 |
|---|---|---|---|---|---|---|---|---|---|---|
| ASCII Hex | 44 | 69 | 73 | 70 | 65 | 6E | 73 | 65 | 72 | 31 |
| ASCII Dec | 68 | 105 | 115 | 112 | 101 | 110 | 115 | 101 | 114 | 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 followed by which sub-device index is being referenced. Therefore the OID of the above example is:

*xfsMIBRoot.2.3.1.3.1.3.10.68.105.115.112.101.110.115.101.114.49.1*

### 2.2.1 xfsCDMSubDeviceTable:

The first two variables are common across all sub-devices, the other variables are sub-device specific.

It should be noted that in XFS the CDM specification uses a model whereby the Cash Units are represented in a logical /physical model where the data from one logical cash unit can be associated with the data from one or more physical cash units and vice versa. Therefore, in the CDM each Sub-Device represents data from one logical to one physical cash unit pairing. In XFS this information comes from the WFS_INF_CDM_CASHUNITINFO command.

xfsCDMSubDeviceManagedServiceName (1)

Uniquely identifies the managed service

xfsCDMSubDeviceIndex (2)

Index to the sub-device table only. This variable has no relationship to the cash unit. This is an index (starting from 1) into the CDM Sub-device table.

xfsCDMSubDeviceCUType (3)

Type of the cash unit. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMTypeNA(2) | Not applicable. Typically means cash unit is missing. |
| xfsCDMTypeRejectCassette(3) | Reject cash unit. |
| xfsCDMTypeBillCassette(4) | Cash unit containing bills. |
| xfsCDMTypeCoinCylinder(5) | Coin cylinder. |
| xfsCDMTypeCoinDispenser(6) | Coin dispenser as a whole unit. |
| xfsCDMTypeRetractCassette(7) | Retract cash unit. |
| xfsCDMTypeCoupon(8) | Cash unit containing coupons or advertising materials. |
| xfsCDMTypeDocument(9) | Cash unit containing documents. |

| | |
|---|---|
| xfsCDMTypeRepContainer(12) | Replenishment container. A cash unit can be refilled from a replenishment container. |
| xfsCDMTypeRecycling(13) | Replenishment container. This unit is only present when the device is a compound device with a CIM. |

xfsCDMSubDeviceCUName (4)
A name which helps to identify the logical type of the cash unit. It is a DisplayString field.

xfsCDMSubDeviceCULUnitID (5)
Cash unit identifier. It is an OCTET STRING field.

xfsCDMSubDeviceCUCurrencyID (6)
A three character array storing the ISO format Currency ID. It is an OCTET STRING field.

xfsCDMSubDeviceCUValues (7)
Supplies the value of a single item in the cash unit. It is a numeric type field.

xfsCDMSubDeviceCULInitialCount (8)
Initial number of items contained in the logical cash unit. It is a numeric type field.

xfsCDMSubDeviceCULCount (9)
Initial number of items contained in the logical cash unit. It is a numeric type field.

xfsCDMSubDeviceCULRejectCount (10)
Number of items from this logical cash unit that went to the reject cassette. It is a numeric type field.

xfsCDMSubDeviceCUMinimum (11)
A minimum threshold value for the logical cash unit. Not applicable for Retract and Reject Cash Units. It is a numeric type field.

xfsCDMSubDeviceCULMaximum (12)
A maximum threshold value for the logical cash unit. It is only applicable for Reject Cash Units. It is a numeric type field.

xfsCDMSubDeviceCUAppLock (13)
This field does not apply to reject or retract cash units. It is a TruthValue.
TRUE – items cannot be dispensed from the cash unit.
FALSE – items can be dispensed from the cash unit.

xfsCDMSubDeviceCULogicalStatus (14)
The status of the logical cash unit. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMCUStatusOK(1) | The cash unit is in a good state. |
| xfsCDMCUStatusFull(2) | The cash unit is full. |
| xfsCDMCUStatusHigh(3) | The cash unit is almost full (threshold defined by *ulMaximum*). |
| xfsCDMCUStatusLow(4) | The cash unit is almost empty (threshold defined by *ulMinimum*). |
| xfsCDMCUStatusEmpty(5) | The cash unit is empty. |
| xfsCDMCUStatusInop(6) | The cash unit is inoperative. |
| xfsCDMCUStatusMissing(7) | The cash unit is missing. |
| xfsCDMCUStatusNoval(8) | The values of the specified cash unit are not available. |
| xfsCDMCUStatusNoref(9) | There is no reference value available for the notes in this cash unit. The cash unit has not been calibrated. |
| xfsCDMCUStatusManip(10) | The cash unit has been changed when the device was not in the exchange state. This cash unit cannot be dispensed from. |

xfsCDMSubDeviceCUPhysicalPositionName (15)
A name identifying the physical location of the cash unit within the CDM. This field can be used by CDMs which are compound with a CIM to identify shared cash units. It is a DisplayString field.

xfsCDMSubDeviceCUPUnitID (16)
Physical Cash unit identifier. It is an OCTET STRING field.

xfsCDMSubDeviceCUPInitialCount (17)
Initial number of items contained in the physical cash unit. It is a numeric type field.

xfsCDMSubDeviceCUPCount (18)
Actual number of items contained in the physical cash unit. It is a numeric type field.

xfsCDMSubDeviceCUPRejectCount (19)
Number of items that went to the reject bin from this physical cash unit. It is a numeric type field.

xfsCDMSubDeviceCUPMaximumCount (20)
The maximum number of items the physical cash unit can hold. It is a numeric type field.

xfsCDMSubDeviceCUPhysicalStatus (21)
The status of the physical cash unit. It is a numeric type field. Allowed values are:

| Value | Meaning |
|---|---|
| xfsCDMCUStatusOK(1) | The cash unit is in a good state. |
| xfsCDMCUStatusFull(2) | The cash unit is full. |
| xfsCDMCUStatusHigh(3) | The cash unit is almost full (threshold defined by *ulMaximum*). |
| xfsCDMCUStatusLow(4) | The cash unit is almost empty (threshold defined by *ulMinimum*). |
| xfsCDMCUStatusEmpty(5) | The cash unit is empty. |
| xfsCDMCUStatusInop(6) | The cash unit is inoperative. |
| xfsCDMCUStatusMissing(7) | The cash unit is missing. |
| xfsCDMCUStatusNoval(8) | The values of the specified cash unit are not available. |
| xfsCDMCUStatusNoref(9) | There is no reference value available for the notes in this cash unit. The cash unit has not been calibrated. |
| xfsCDMCUStatusManip(10) | The cash unit has been changed when the device was not in the exchange state. This cash unit cannot be dispensed from. |

xfsCDMSubDeviceCUHardwareSensor (22)
Specifies whether or not threshold events can be generated based on hardware sensor in the device. It is a TruthValue.
TRUE – threshold events generated on hardware sensors.
FALSE - threshold events NOT generated on hardware sensors.

xfsCDMSubDeviceCUExponent (23)
The XFS Currency Exponent. It is a numeric type field.

xfsCDMSubDeviceCULDispensedCount (24)
The number of items dispensed from all the physical cash units associated with this logical cash unit. It is a numeric type field.

xfsCDMSubDeviceCULPresentedCount (25)
The number of items from all the physical cash units associated with this logical cash unit that have been presented to the customer. It is a numeric type field.

xfsCDMSubDeviceCULRetractedCount (26)
The number of items that have been retracted into all physical cash units associated with this logical cash unit. It is a numeric type field.

xfsCDMSubDeviceCUPDispensedCount (27)
The number of items dispensed from this physical cash unit. It is a numeric type field.

xfsCDMSubDeviceCUPPresentedCount (28)
The number of items from this physical cash unit that have been presented to the customer. It is a numeric type field.

xfsCDMSubDeviceCUPRetractedCount (29)
The number of items that have been retracted into this physical cash unit. It is a numeric type field.

## 2.3 XFS CDM Error Table

The *xfsCDMErrorTable(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

*xfsCDMErrorManagedServiceName*
*xfsCDMErrorCommandCode*
*xfsCDMErrorResponseCode*

The *xfsCDMErrorTable* is defined as:

- *xfsCDMErrorManagedServiceName(1*) which provides the primary index to the service in question. It is Display String field. The *xfsCDMErrorManagedServiceName* parameter corresponds to the value of *xfsMIBRoot.xfsGeneral.xfsMIBV1.xfsManagedServiceTable.xfsManagedServiceEntry.xfsManagedServiceName* in the general table. e.g. "Dispenser1".
- *xfsCDMErrorCommandCode(2)* is an index which identifies the command code that that response code is related to, e.g. WFS_CMD_CDM_PRESENT (303). It is a 32 bit numerical field.
- *xfsCDMErrorResponseCode(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_CDM_SHUTTEROPEN (-313) is represented by 313.It is a 32 bit numerical field.
- *xfsCDMErrorCount(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_CDM _SHUTTEROPEN (-313) error returned from the WFS_CMD_CDM_PRESENT (303) command for a device with managed service name equal to "Dispenser1" is as follows:

*xfsMIBRoot.2.3.1.4.1.4.10.68.105.115.112.101.110.115.101.114.49.303.313*

## 2.4 XFS CDM Reset Table

The *xfsCDMResetTable(5)* contains the *xfsCDMResetAll* and *xfsCDMResetTimestamp* variables and is indexed by the single variable, *xfsCDMResetManagedServiceName*. When the *xfsCDMResetAll* 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 *xfsCDMResetTable(5)* is defined as:

- *xfsCDMResetManagedServiceName(1)* which provides the primary index to the service in question. It is Display String field. The *xfsCDMResetManagedServiceName* parameter corresponds to the value of *xfsMIBRoot.xfsGeneral.xfsMIBV1.xfsManagedServiceTable.xfsManagedServiceEntry.xfsManagedServiceName* in the general table. E.g. "Dispenser1".
- *xfsCDMResetAll(2)* is a read-write variable. Issue of a Set command on the *xfsCDMResetAll* 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 *xfsCDMResetAll* variable will return 0 (zero).
- *xfsCDMResetTimestamp(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 "Dispenser1" by setting the value zero in the *xfsCDMResetAll*(2) variable represented by:

*xfsMIBRoot.2.3.1.5.1.2.10.68.105.115.112.101.110.115.101.114.49*

## 2.5 XFS CDM Reset Device Table

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

The *xfsCDMResetDeviceAction* 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_CDM_RESET command will be issued.
4. Exclusive access to the device will be relinquished when the WFS_CMD_CDM_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 *xfsCDMResetDeviceCompleteTrap* trap will be generated to report the result of the Device Reset request.

The *xfsCDMResetDeviceTable(6)* is defined as:

- *xfsCDMResetDeviceManagedServiceName(1)* which provides the index to the service in question. It is a Display String field. The *xfsCDMResetDeviceManagedServiceName* parameter corresponds to the value of *xfsMIBRoot.xfsGeneral.xfsMIBV1.xfsManagedServiceTable.xfsManagedServiceEntry.xfsManagedServiceName* in the general table, e.g. "Printer1".
- *xfsCDMResetDeviceAction(2)* is a read-write variable. Issue of a Set command on the *xfsCDMResetDeviceAction* variable with value *executeReset(1)* will result in the device being reset as described above.
- *xfsCDMResetDeviceMediaControl(3)* is a read only variable. This variable reports how any media found within the device is handled. The value of the *xfsCDMResetDeviceMediaControl* 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. The detailed device specific media control information (e.g. CDM retract area to retract media to) is configured through local SNMP Agent configuration
- *xfsCDMResetDeviceStatus(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 "Dispenser1" is reset by setting the *xfsCDMResetDeviceAction* variable represented by:

*xfsMIBRoot.2.3.1.6.1.2.10.68.105.115.112.101.110.115.101.114.49*

## 2.6 XFS CDM Capabilities Table

The *xfsCDMCapabilitiesTable(7)* groups the variables identifying device status information, statistics and additional variables. It is indexed through a single parameter, *xfsCDMCapabilitiesManagedServiceName*. 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.

*xfsCDMCapabilitiesManagedServiceName* is the instance identifier of the managed service and uniquely identifies one instance of the CDM class.

As an example, the identifier for the device status value of *xfsCDMCapabilitiesDeviceType*(2) for a device with managed service name equal to "Dispenser1" is as follows:

| Character | D | i | s | p | e | n | s | e | r | 1 |
|---|---|---|---|---|---|---|---|---|---|---|
| ASCII Hex | 44 | 69 | 73 | 70 | 65 | 6E | 73 | 65 | 72 | 31 |
| ASCII Dec | 68 | 105 | 115 | 112 | 101 | 110 | 115 | 101 | 114 | 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.2.3.1.7.1.2.10.68.105.115.112.101.110.115.101.114.49*

### 2.6.1 xfsCDMCapabilitiesTable: Capabilities

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

xfsCDMCapabilitiesManagedServiceName (1)
Uniquely identifies the managed service

xfsCDMCapabilitiesDeviceType (2)
It is a numeric value defining the type of this CDM device.

| Value | Meaning |
|---|---|
| xfsCDMTellerBill(1) | The device is a teller bill dispenser. |
| xfsCDMSelfServiceBill(2) | The device is a self service bill dispenser. |
| xfsCDMTellerCoin(3) | The device is a teller coin dispenser. |
| xfsCDMSelfServiceCoin(4) | The device is a self service coin dispenser. |

xfsCDMCapabilitiesMaxDispenseItems (3)
Supplies the maximum number of items that can be dispensed. It is an integer variable.

xfsCDMCapabilitiesCompoundDevice (4)
Specifies if the logical device is part of a compound device in a TruthValue variable as follows.

| Value | Meaning |
|---|---|
| True(1) | The device is a compound device. |
| False(2) | The device is not a compound device. |

xfsCDMCapabilitiesShutter (5)
Specifies if shutter control through the commands WFS_CMD_CDM_OPEN_SHUTTER and WFS_CMD_CDM_CLOSE_SHUTTER is supported in a TruthValue variable as follows.

| Value | Meaning |
|---|---|
| True(1) | Feature is supported. |
| False(2) | Feature is not supported. |

xfsCDMCapabilitiesShutterControl (6)
If this TruthValue variable is TRUE the shutter is controlled implicitly by the Service Provider. If set to FALSE the shutter must be controlled explicitly by the application using the WFS_CMD_CDM_OPEN_SHUTTER and the WFS_CMD_CDM_CLOSE_SHUTTER commands. This field is always set to TRUE if the device has no shutter. This field applies to all shutters and all output positions.

| Value | Meaning |
|---|---|
| True(1) | The shutter is controlled implicitly by the Service Provider. |
| False(2) | The shutter is not controlled implicitly by the Service Provider. |

xfsCDMCapabilitiesRetractAreas (7)
This integer variable specifies the areas to which items may be retracted. This field will be set to a combination of hex values according to the values in the following table:

| Value | XFS Name | Meaning |
|---|---|---|
| 0x0001 | WFS_CDM_RA_RETRACT | Items may be retracted to the retract cash unit. |

| | | |
|---|---|---|
| 0x0002 | WFS_CDM_RA_TRANSPORT | Items may be retracted to the transport. |
| 0x0004 | WFS_CDM_RA_STACKER | Items may be retracted to the intermediate stacker. |
| 0x0008 | WFS_CDM_RA_REJECT | Items may be retracted to the reject cash unit. |
| 0x0010 | WFS_CDM_RA_NOTSUPP | The CDM does not support the ability to retract. |
| 0x0020 | WFS_CDM_RA_ITEMCASSETTE | Items may be retracted to the item cassettes. |

xfsCDMCapabilitiesRetractTransportActions (8)

This integer variable specifies the actions which may be performed on items which have been retracted to the transport. This field will be set to a combination of hex values according to the values in the following table:

| Value | XFS Name | Meaning |
|---|---|---|
| 0x0001 | WFS_CDM_PRESENT | Items may be presented. |
| 0x0002 | WFS_CDM_RETRACT | Items may be retracted to a retract cash unit. |
| 0x0004 | WFS_CDM_REJECT | Items may be retracted to a reject bin. |
| 0x0008 | WFS_CDM_NOTSUPP | The CDM does not have the ability to retract from the transport. |
| 0x0010 | WFS_CDM_ITEMCASSETTE | Items may be retracted to the item cassettes. |

xfsCDMCapabilitiesRetractStackerActions (9)

This integer variable specifies the actions which may be performed on items which have been retracted to the stacker. This field will be set to a combination of hex values according to the values in the following table:

| Value | XFS Name | Meaning |
|---|---|---|
| 0x0001 | WFS_CDM_PRESENT | Items may be presented. |
| 0x0002 | WFS_CDM_RETRACT | Items may be retracted to a retract cash unit. |
| 0x0004 | WFS_CDM_REJECT | Items may be retracted to a reject bin. |
| 0x0008 | WFS_CDM_NOTSUPP | The CDM does not have the ability to retract from the transport. |
| 0x0010 | WFS_CDM_ITEMCASSETTE | Items may be retracted to the item cassettes. |

xfsCDMCapabilitiesSafedoor (10)

Specifies whether the WFS_CMD_CDM_OPEN_SAFE_DOOR command is supported in TruthValue format.

| Value | Meaning |
|---|---|
| True(1) | The feature is supported. |
| False(2) | The feature is not supported. |

xfsCDMCapabilitiesCashbox (11)

It specifies whether or not the Tellers have been assigned a Cash Box in TruthValue format.

| Value | Meaning |
|---|---|
| True(1) | Cash box is assigned. |
| False(2) | Cash box is not assigned. |

xfsCDMCapabilitiesIntermediateStacker (12)

Specifies if the device supports stacking items in an intermediate stacking position in the following TruthValue variable.

| Value | Meaning |
|---|---|
| True(1) | The feature is supported. |

| | |
|---|---|
| False(2) | The feature is not supported. |

xfsCDMCapabilitiesItemsTakenSensor (13)

This TruthValue variable specifies whether or not the CDM can detect when items at the exit position are taken by the user. If set to TRUE the Service Provider generates an accompanying WFS_SRVE_CDM_ITEMS_TAKEN event. If set to FALSE this event is not generated. This field relates to all output positions.

| Value | Meaning |
|---|---|
| True(1) | Feature is supported. |
| False(2) | Feature is not supported. |

xfsCDMCapabilitiesOutputPositions (14)

This integer variable specifies the CDM output positions which are available as a combination of hex values according to the values in the following table:

| Value | XFS Name | Meaning |
|---|---|---|
| 0x0000 | WFS_CDM_POSNULL | No output position. |
| 0x0001 | WFS_CDM_POSLEFT | Left output position. |
| 0x0002 | WFS_CDM_POSRIGHT | Right output position. |
| 0x0004 | WFS_CDM_POSCENTER | Center output position. |
| 0x0008 | WFS_CDM_POSTOP | Top output position. |
| 0x0010 | WFS_CDM_POSBOTTOM | Bottom output position. |
| 0x0020 | WFS_CDM_POSFRONT | Front output position. |
| 0x0040 | WFS_CDM_POSREAR | Rear output position. |

xfsCDMCapabilitiesMoveItems (15)

This integer variable specifies the CDM move item options which are available as a combination of hex values according to the values in the following table:

| Value | XFS Name | Meaning |
|---|---|---|
| 0x0001 | WFS_CDM_FROMCU | The CDM can move items from the cash units to the intermediate stacker while there are items on the transport. |
| 0x0002 | WFS_CDM_TOCU | The CDM can retract items to the cash units while there are items on the intermediate stacker. |
| 0x0004 | WFS_CDM_TOTRANSPORT | The CDM can retract items to the transport while there are items on the intermediate stacker. |

xfsCDMCapabilitiesExchangeTypes (16)

This integer variable specifies the type of cash unit exchange operations supported by the CDM. Values are a combination of hex values according to the values in the following table:

| Value | XFS Name | Meaning |
|---|---|---|
| 0x0001 | WFS_CDM_EXBYHAND | The CDM supports manual replenishment either by filling the cash unit by hand or by replacing the cash unit. |
| 0x0002 | WFS_CDM_EXTOCASSETTES | The CDM supports moving items from the replenishment cash unit to another cash unit. |

xfsCDMCapabilitiesGuidancePosLeft (17)

This integer variable specifies the guidance light capability at the left output position. Possible states are reported as a combination of hex values according to the values in the following table:

| Value | XFS Name | Meaning |
|---|---|---|

| | | |
|---|---|---|
| 0x00000000 | WFS_CDM_GUIDANCE_NOT_AVAILABLE | There is no guidance control available at this position. |
| 0x00000001 | WFS_CDM_GUIDANCE_OFF | The light can be off. |
| 0x00000004 | WFS_CDM_GUIDANCE_SLOW_FLASH | The light can blink slowly. |
| 0x00000008 | WFS_CDM_GUIDANCE_MEDIUM_FLASH | The light can blink medium frequency. |
| 0x00000010 | WFS_CDM_GUIDANCE_QUICK_FLASH | The light can blink quickly. |
| 0x00000080 | WFS_CDM_GUIDANCE_CONTINUOUS | The light can be continuous (steady). |
| 0x00000100 | WFS_CDM_GUIDANCE_RED | The light can be red. |
| 0x00000200 | WFS_CDM_GUIDANCE_GREEN | The light can be green. |
| 0x00000400 | WFS_CDM_GUIDANCE_YELLOW | The light can be yellow. |
| 0x00000800 | WFS_CDM_GUIDANCE_BLUE | The light can be blue. |
| 0x00001000 | WFS_CDM_GUIDANCE_CYAN | The light can be cyan. |
| 0x00002000 | WFS_CDM_GUIDANCE_MAGENTA | The light can be magenta. |
| 0x00004000 | WFS_CDM_GUIDANCE_WHITE | The light can be white. |

xfsCDMCapabilitiesGuidancePosRight (18)

This integer variable specifies the guidance light capability at the right output position. Possible states are the same as variable *xfsCDMCapabilitiesGuidancePosLeft (17)*.

xfsCDMCapabilitiesGuidancePosCenter (19)

This integer variable specifies the guidance light capability at the center output position. Possible states are the same as variable *xfsCDMCapabilitiesGuidancePosLeft (17)*.

xfsCDMCapabilitiesGuidancePosTop (20)

This integer variable specifies the guidance light capability at the top output position. Possible states are the same as variable *xfsCDMCapabilitiesGuidancePosLeft (17)*.

xfsCDMCapabilitiesGuidancePosBottom (21)

This integer variable specifies the guidance light capability at the bottom output position. Possible states are the same as variable *xfsCDMCapabilitiesGuidancePosLeft (17)*.

xfsCDMCapabilitiesGuidancePosFront (22)

This integer variable specifies the guidance light capability at the front output position. Possible states are the same as variable *xfsCDMCapabilitiesGuidancePosLeft (17)*.

xfsCDMCapabilitiesGuidancePosRear (23)

This integer variable specifies the guidance light capability at the rear output position. Possible states are the same as variable *xfsCDMCapabilitiesGuidancePosLeft (17)*.

xfsCDMCapabilitiesPowerSaveControl (24)

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. |

xfsCDMCapabilitiesPrepareDispense (25)

This TruthValue variable specifies whether or not the hardware requires the application to use the WFS_CMD_CDM_PREPARE_DISPENSE command to maximize transaction performance.

| Value | Meaning |
|---|---|
| True(1) | Prepare dispense is supported. |
| False(2) | Prepare dispense is not supported. |

xfsCDMCapabilitiesExtraCapability (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. CDM Traps

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

## 3.1 CDM 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 CDM 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 CDM reflect the CDM 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_CDM_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 103 defines the trap as a CDM 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 CDM Detailed Device Status Change Trap Format

The following defines the variable bindings included in the CDM 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\<Managed*ServiceName*>\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_CDM_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 CDM MIB class is represented by .1.3.6.1.4.1.16213.2.3

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.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDevice**.xfsCDMStatusManagedServiceName (13)
This variable binding represents the current state of the physical device managed by the service. It is a 32 bit integer (INT32).

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusNumberSubDevices.**xfsCDMStatusManagedServiceName (14)
Defines how many sub-devices the service has. This is the number of cash units the device supports.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusSafeDoor.**xfsCDMStatusManagedServiceName (15)
It contains the state of the safe door. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDispenser.**xfsCDMStatusManagedServiceName (16)
It contains the state of the dispenser. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusIntermediateStacker.**xfsCDMStatusManagedServiceName (17)
It contains the state of the intermediate stacker. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterCenter.**xfsCDMStatusManagedServiceName (18)
It contains the state of the center output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionCenter.**xfsCDMStatusManagedServiceName (19)

It contains information regarding items which may be at the center output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportCenter.**xfsCDMStatusManagedServiceName (20)

It contains the state of the center output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusCenter.**xfsCDMStatusManagedServiceName (21)

It contains the state of the items in the center output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterLeft.**xfsCDMStatusManagedServiceName (22)

It contains the state of the left output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionLeft.**xfsCDMStatusManagedServiceName (23)

It contains information regarding items which may be at the left output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportLeft.**xfsCDMStatusManagedServiceName (24)

It contains the state of the left output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusLeft.**xfsCDMStatusManagedServiceName (25)

It contains the state of the items in the left output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRight.**xfsCDMStatusManagedServiceName (26)

It contains the state of the right output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionRight.**xfsCDMStatusManagedServiceName (27)

It contains information regarding items which may be at the right output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRight.**xfsCDMStatusManagedServiceName (28)

It contains the state of the right output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRight.**xfsCDMStatusManagedServiceName (29)

It contains the state of the items in the right output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterTop.**xfsCDMStatusManagedServiceName (30)

It contains the state of the top output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionTop.**xfsCDMStatusManagedServiceName (31)

It contains information regarding items which may be at the top output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportTop.**xfsCDMStatusManagedServiceName (32)

It contains the state of the top output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusTop.**xfsCDMStatusManagedServiceName (33)

It contains the state of the items in the top output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterBottom.**xfsCDMStatusManagedServiceName (34)

It contains the state of the bottom output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionBottom.**xfsCDMStatusManagedServiceName (35)

It contains information regarding items which may be at the bottom output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportBottom.**xfsCDMStatusManagedServiceName (36)

It contains the state of the bottom output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusBottom.**xfsCDMStatusManagedServiceName (37)

It contains the state of the items in the bottom output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterFront.**xfsCDMStatusManagedServiceName (38)

It contains the state of the front output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionFront.**xfsCDMStatusManagedServiceName (39)

It contains information regarding items which may be at the front output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportFront.**xfsCDMStatusManagedServiceName (40)

It contains the state of the front output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusFront.**xfsCDMStatusManagedServiceName (41)

It contains the state of the items in the front output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRear.**xfsCDMStatusManagedServiceName (42)

It contains the state of the rear output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionRear.**xfsCDMStatusManagedServiceName (43)

It contains information regarding items which may be at the rear output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRear.**xfsCDMStatusManagedServiceName (44)

It contains the state of the rear output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRear.**xfsCDMStatusManagedServiceName (45)

It contains the state of the items in the rear output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusExtraStatus.**xfsCDMStatusManagedServiceName (46)

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.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosLeft.**xfsCDMStatusManagedServiceName (47)

It contains the state of the guidance light indicator at the left output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRight.**xfsCDMStatusManagedServiceName (48)

It contains the state of the guidance light indicator at the right output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosCenter.**xfsCDMStatusManagedServiceName (49)

It contains the state of the guidance light indicator at the center output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosTop.**xfsCDMStatusManagedServiceName (50)

It contains the state of the guidance light indicator at the top output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosBottom.**xfsCDMStatusManagedServiceName (51)

It contains the state of the guidance light indicator at the bottom output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosFront.**xfsCDMStatusManagedServiceName (52)

It contains the state of the guidance light indicator at the front output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRear.**xfsCDMStatusManagedServiceName (53)

It contains the state of the guidance light indicator at the rear output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDevicePosition.**xfsCDMStatusManagedServiceName(54)

It contains the device position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusPowerSaveRecoveryTime.**xfsCDMStatusManagedServiceName (55)

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.

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

As an example, the following variable binding list represents a detailed device status change trap (6, 103) that is generated for a CDM with a managed service name of "Dispenser1". It reports that the device is OFFLINE because the front shutter is jammed.

| | |
|---|---|
| xfsMIBRoot.3.1.3.1 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapSysName) |
| | "SST System 1" |
| | |
| xfsMIBRoot.3.1.3.2 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName) |
| | "Dispenser1" |
| | |
| xfsMIBRoot.3.1.3.3 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClass) |
| | 3 (WFS_SERVICE_CLASS_CDM) |
| | |
| xfsMIBRoot.3.1.3.4 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName) |
| | "CDM" |
| | |
| xfsMIBRoot.3.1.3.5 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceType) |
| | 3 (WFS_CDM_SELFSERVICEBILL) |
| | |
| xfsMIBRoot.3.1.3.6 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid) |
| | ".1.3.6.1.4.1.16213.2.3" |
| | |
| xfsMIBRoot.3.1.3.7 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName) |
| | "ABC Corp Dispenser" |
| | |
| 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.2.3.1.2.1.**3**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDevice**.xfsCDMStatusManagedServiceName) |
| | 2 (WFS_STAT_DEVOFFLINE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**2**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusNumberSubDevices**.xfsCDMStatusManagedServiceName) |
| | 2 (Two sub device) |
| | |
| xfsMIBRoot.2.3.1.2.1.**4**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusSafeDoor**.xfsCDMStatusManagedServiceName) |
| | 2 (xfsCDMDoorNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**5**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDispenser**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMDispenserOK) |
| | |
| xfsMIBRoot.2.3.1.2.1.**6**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusIntermediateStacker**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMISEmpty) |
| | |
| xfsMIBRoot.2.3.1.2.1.**7**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterCenter**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**8**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionCenter**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**9**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportCenter**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**10**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusCenter**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**11**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterLeft**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**12**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionLeft**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**13**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportLeft**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**14**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusLeft**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**15**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRight**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |

| | |
|---|---|
| | |
| xfsMIBRoot.2.3.1.2.1.**16**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionRight**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**17**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRight**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**18**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRight**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**19**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterTop**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**20**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionTop**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**21**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportTop**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**22**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusTop**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**23**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterBottom**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**24**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionBottom**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**25**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportBottom**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**26**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusBottom**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**27**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterFront**.xfsCDMStatusManagedServiceName) |
| | 3 (xfsCDMShtJammed) |
| | |
| xfsMIBRoot.2.3.1.2.1.**28**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionFront**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMPSEmpty) |
| | |
| xfsMIBRoot.2.3.1.2.1.**29**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportFront**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMTPOK) |
| | |
| xfsMIBRoot.2.3.1.2.1.**30**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusFront**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMTPStateEmpty) |
| | |
| xfsMIBRoot.2.3.1.2.1.**31**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRear**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1. | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusE |

| | |
|---|---|
| **32**.Index | ntry.**xfsCDMStatusOutputPositionRear**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**33**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRear**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**34**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRear**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**100**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusExtraStatus**.xfsCDMStatusManagedServiceName) |
| | '\0"\0' ( No extra data ) |
| | |
| xfsMIBRoot.2.3.1.2.1.**35**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosLeft**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**36**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRight**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**37**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosCenter**.xfsCDMStatusManagedServiceName) |
| | 1 (value corresponding to WFS_CDM_GUIDANCE_OFF) |
| | |
| xfsMIBRoot.2.3.1.2.1.**38**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosTop**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**39**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosBottom**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**40**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosFront**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**41**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRear**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**42**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDevicePosition**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMstatusDeviceInPosition) |
| | |
| xfsMIBRoot.2.3.1.2.1.**43**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusPowerSaveRecoveryTime**.xfsCDMStatusManagedServiceName) |
| | 0 (Power save control is not supported) |
| | |

## 3.2 CDM Sub-Device Status Change Trap

On the CDM device class the Sub Device Status change traps are sent when WFS_SRVE_CDM_CASHUNITINFOCHANGED event is generated.

The definition of the content of the device specific fields within the Sub-Device Status trap (fields 12-33) is defined in section 2.2.

The SNMP Specific trap value 203 defines the trap as a CDM Sub-Device Device Status Change trap.

### 3.2.1 CDM Sub-Device Status Change Trap Format

The following defines the variable bindings included in the CDM Sub-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.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName (1)
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 (2)
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\<Managed*ServiceName*>\class. This ID matches the class OID branch number i.e. PTR=1, IDC=2, CDM=3, etc.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName (3)
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 (4)
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_CDM_CAPABILITIES.*fwType* field.

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid (5)
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 CDM MIB class is represented by .1.3.6.1.4.1.16213.2.3

xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName (6)
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 (7)
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 (8)
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 (9)
The XFS event generating the alarm, it is a 32-bit integer (INT32). It corresponds to the message identifier associated with the XFS event generated by the Service Provider. For the CDM this corresponds to the WFS_SRVE_CDM_CASHUNITINFOCHANGED event.

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.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceIndex**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (12)
Index identifying the sub-device.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUType**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (13)
Type of the cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUName**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (14)
A name which helps to identify the logical type of the cash unit. It is a DisplayString field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULUnitID**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (15)
Cash unit identifier. It is an OCTET STRING field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUCurrencyID**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (16)
A three character array storing the ISO format Currency ID. It is an OCTET STRING field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUValues**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (17)
Supplies the value of a single item in the cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULInitialCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (18)
Initial number of items contained in the logical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (19)
Initial number of items contained in the logical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULRejectCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (20)
Number of items from this logical cash unit that went to the reject cassette. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUMinimum**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (21)
A minimum threshold value for the logical cash unit. Not applicable for Retract and Reject Cash Units. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULMaximum**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (22)

A maximum threshold value for the logical cash unit. It is only applicable for Reject Cash Units. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUAppLock**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (23)

This field does not apply to reject or retract cash units. It is a TruthValue.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULogicalStatus**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (24)

The status of the logical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPhysicalPositionName**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (25)

A name identifying the physical location of the cash unit within the CDM. This field can be used by CDMs which are compound with a CIM to identify shared cash units. It is a DisplayString field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPUnitID**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (26)

Physical Cash unit identifier. It is an OCTET STRING field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPInitialCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (27)

Initial number of items contained in the physical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (28)

Actual number of items contained in the physical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPRejectCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (29)

Number of items that went to the reject bin from this physical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPMaximumCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (30)

The maximum number of items the physical cash unit can hold. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPhysicalStatus**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (31)

The status of the physical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUHardwareSensor**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (32)

Specifies whether or not threshold events can be generated based on hardware sensor in the device. It is a TruthValue.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUExponent**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (33)

The XFS Currency Exponent. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULDispensedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (34)

The number of items dispensed from all the physical cash units associated with this logical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULPresentedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (35)

The number of items from all the physical cash units associated with this logical cash unit that have been presented to the customer. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULRetractedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (36)

The number of items that have been retracted into all physical cash units associated with this logical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPDispensedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (37)

The number of items dispensed from this physical cash unit. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPPresentedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (38)

The number of items from this physical cash unit that have been presented to the customer. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPRetractedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex (39)

The number of items that have been retracted into this physical cash unit. It is a numeric type field.

### 3.2.2 CDM Sub-Device Status Change Trap: an example

As an example, the following variable binding list represents a CDM sub-device status change trap (6, 203) generated from a generic XFS SST system. This trap sends an alarm to the SNMP Manager when a WFS_SRVE_CDM_CASHUNITINFOCHANGE event is generated.

| | |
|---|---|
| xfsMIBRoot.3.1.3.2 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName) |
| | "Dispenser1" |
| | |
| xfsMIBRoot.3.1.3.3 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClass) |
| | 1 (WFS_SERVICE_CLASS_CDM) |
| | |
| xfsMIBRoot.3.1.3.4 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName) |
| | "CDM" |
| | |
| xfsMIBRoot.3.1.3.5 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceType) |
| | 1 (WFS_CDM_SELFSERVICEBILL) |
| | |
| xfsMIBRoot.3.1.3.6 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid) |
| | ".1.3.6.1.4.1.16213.2.3" |
| | |
| xfsMIBRoot.3.1.3.7 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName) |
| | "ABC Corp Dispenser" |
| | |
| 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) |
| | 304 (WFS_SRVE_CDM_CASHUNITINFOCHANGED) |
| | |
| 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.2.3.1.3.1.**2**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceIndex**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |

| | |
|---|---|
| | 1 (Index to first sub device) |
| | |
| xfsMIBRoot.2.3.1.3.1.**3**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUType**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 4 (xfsCDMTypeBillCassette) |
| | |
| xfsMIBRoot.2.3.1.3.1.**4**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUName**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | "10 Euro Cash Unit" |
| | |
| xfsMIBRoot.2.3.1.3.1.**5**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULUnitID**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | "BC001" |
| | |
| xfsMIBRoot.2.3.1.3.1.**6**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUCurrencyID**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | "EUR" |
| | |
| xfsMIBRoot.2.3.1.3.1.**7**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUValues**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 10 ( 10 Minimum Dispense Units, i.e. 10 Euros ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**8**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULInitialCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 10000 ( 10000 notes ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**9**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 90000 ( 9000 Notes ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**10**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULRejectCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 10 ( 10 Notes Rejected ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**11**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUMinimum**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 100 ( 100 Note Threshold ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**12**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULMaximum**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 0 ( Not Applicable to Bill Cassettes) |
| | |
| xfsMIBRoot.2.3.1.3.1.**13**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUAppLock**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 22 ( FALSE ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**14**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULogicalStatus**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 1 (xfsCDMCUStatusOK) |
| | |
| xfsMIBRoot.2.3.1.3.1.**15**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPhysicalPositionName**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | "TOP" |
| | |

| | |
|---|---|
| xfsMIBRoot.2.3.1.3.1.**16**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPUnitID**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | "BC001" |
| | |
| xfsMIBRoot.2.3.1.3.1.**17**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPInitialCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 4000 ( 4000 Notes ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**18**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 1000 ( 1000 Notes ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**19**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPRejectCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 5 ( 5 Notes Rejected ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**20**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPMaximum**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 0 ( Not Applicable to Bill Cassettes ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**21**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPhysicalStatus**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 1 ( xfsCDMCUStatusOK ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**22**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUHardwareSensor**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 2 ( FALSE ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**23**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUExponent**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 0 ( Exponent is 0, so 10 ^ 0 = 1 ) |
| | |
| xfsMIBRoot.2.3.1.3.1.**24**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULDispensedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 1000 (1000 notes dispensed) |
| | |
| xfsMIBRoot.2.3.1.3.1.**25**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULPresentedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 1000 (1000 notes presented) |
| | |
| xfsMIBRoot.2.3.1.3.1.**26**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCULRetractedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 0 (0 notes retracted) |
| | |
| xfsMIBRoot.2.3.1.3.1.**27**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPDispensedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 1000 (1000 notes dispensed) |
| | |
| xfsMIBRoot.2.3.1.3.1.**28**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPPresentedCount**.xfsCDMSubDeviceManagedServiceName.xfsCDMSubDeviceIndex) |
| | 1000 (1000 notes presented) |
| | |
| xfsMIBRoot.2.3.1.3.1.**29**.Index1.Index2 | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMSubDeviceTable.xfsCDMSubDeviceEntry.**xfsCDMSubDeviceCUPRetractedCount**.xfsCDMSubDeviceManagedService |

| | |
|---|---|
| | Name.xfsCDMSubDeviceIndex) |
| | 0 (0 notes retracted) |
| | |

## 3.3 CDM Reset Device Complete Trap

On the CDM 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 303 defines the trap as a CDM Reset Device Complete trap.

### 3.3.1 CDM Reset Device Complete Trap Format

The following defines the variable bindings included in the CDM 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 **xfsxfsCDMStatusDevice** 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\<Managed*ServiceName*>\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_CDM_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 CDM MIB class is represented by .1.3.6.1.4.1.16213.2.3

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.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsxfsCDMStatusDevice**.xfsCDMStatusManagedServiceName (12)
This variable binding represents the current state of the physical device managed by the service. It is a 32 bit integer (INT32).

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusNumberSubDevices.**xfsCDMStatusManagedServiceName (13)
Defines how many sub-devices the service has. This is the number of retract bins the device supports.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusSafeDoor.**xfsCDMStatusManagedServiceName (14)
It contains the state of the safe door. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDispenser.**xfsCDMStatusManagedServiceName (15)
It contains the state of the dispenser. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusIntermediateStacker.**xfsCDMStatusManagedServiceName (16)
It contains the state of the intermediate stacker. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterCenter.**xfsCDMStatusManagedServiceName (17)
It contains the state of the center output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionCenter.**xfsCDMStatusManagedServiceName (18)
It contains information regarding items which may be at the center output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportCenter.**xfsCDMStatusManagedServiceName (19)
It contains the state of the center output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusCenter.**xfsCDMStatusManagedServiceName (20)
It contains the state of the items in the center output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterLeft.**xfsCDMStatusManagedServiceName (21)
It contains the state of the left output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionLeft.**xfsCDMStatusManagedServiceName (22)
It contains information regarding items which may be at the left output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportLeft.**xfsCDMStatusManagedServiceName (23)
It contains the state of the left output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusLeft.**xfsCDMStatusManagedServiceName (24)
It contains the state of the items in the left output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRight.**xfsCDMStatusManagedServiceName (25)
It contains the state of the right output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionRight.**xfsCDMStatusManagedServiceName (26)
It contains information regarding items which may be at the right output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRight.**xfsCDMStatusManagedServiceName (27)
It contains the state of the right output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRight.**xfsCDMStatusManagedServiceName (28)
It contains the state of the items in the right output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterTop.**xfsCDMStatusManagedServiceName (29)
It contains the state of the top output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionTop.**xfsCDMStatusManagedServiceName (30)
It contains information regarding items which may be at the top output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportTop.**xfsCDMStatusManagedServiceName (31)
It contains the state of the top output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusTop.**xfsCDMStatusManagedServiceName (32)
It contains the state of the items in the top output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterBottom.**xfsCDMStatusManagedServiceName (33)
It contains the state of the bottom output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionBottom.**xfsCDMStatusManagedServiceName (34)
It contains information regarding items which may be at the bottom output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportBottom.**xfsCDMStatusManagedServiceName (35)
It contains the state of the bottom output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusBottom.**xfsCDMStatusManagedServiceName (36)

It contains the state of the items in the bottom output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterFront.**xfsCDMStatusManagedServiceName (37)
It contains the state of the front output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionFront.**xfsCDMStatusManagedServiceName (38)
It contains information regarding items which may be at the front output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportFront.**xfsCDMStatusManagedServiceName (39)
It contains the state of the front output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusFront.**xfsCDMStatusManagedServiceName (40)
It contains the state of the items in the front output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRear.**xfsCDMStatusManagedServiceName (41)
It contains the state of the rear output position shutter. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionRear.**xfsCDMStatusManagedServiceName (42)
It contains information regarding items which may be at the rear output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRear.**xfsCDMStatusManagedServiceName (43)
It contains the state of the rear output position transport mechanism. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRear.**xfsCDMStatusManagedServiceName (44)
It contains the state of the items in the rear output position transport. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusExtraStatus.**xfsCDMStatusManagedServiceName (45)
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.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosLeft.**xfsCDMStatusManagedServiceName (46)
It contains the state of the guidance light indicator at the left output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRight.**xfsCDMStatusManagedServiceName (47)
It contains the state of the guidance light indicator at the right output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosCenter.**xfsCDMStatusManagedServiceName (48)
It contains the state of the guidance light indicator at the center output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosTop.**xfsCDMStatusManagedServiceName (49)
It contains the state of the guidance light indicator at the top output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosBottom.**xfsCDMStatusManagedServiceName (50)
It contains the state of the guidance light indicator at the bottom output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosFront.**xfsCDMStatusManagedServiceName (51)
It contains the state of the guidance light indicator at the front output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRear.**xfsCDMStatusManagedServiceName (52)

It contains the state of the guidance light indicator at the rear output position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDevicePosition.**xfsCDMStatusManagedServiceName (53)

It contains the device position. It is a numeric type field.

xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusPowerSaveRecoveryTime.**xfsCDMStatusManagedServiceName (54)

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.

### 3.3.2 CDM Reset Device Complete: an example

As an example, the following variable binding list represents a Reset Device Complete trap (6, 303) generated as a result of a request to reset the device from the remote management station. The device in question is of type self-service bill with a managed service name "Dispenser".

| | |
|---|---|
| xfsMIBRoot.3.1.3.13 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapResetDeviceResult) |
| | 0 (resetExecuted) |
| | |
| xfsMIBRoot.3.1.3.2 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceName) |
| | "Dispenser1" |
| | |
| xfsMIBRoot.3.1.3.3 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClass) |
| | 3 (WFS_SERVICE_CLASS_CDM) |
| | |
| xfsMIBRoot.3.1.3.4 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceClassName) |
| | "CDM" |
| | |
| xfsMIBRoot.3.1.3.5 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceType) |
| | 3 (WFS_CDM_SELFSERVICEBILL) |
| | |
| xfsMIBRoot.3.1.3.6 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapManagedServiceOid) |
| | ".1.3.6.1.4.1.16213.2.3" |
| | |
| xfsMIBRoot.3.1.3.7 | (xfsMIBRoot.xfsTrap.xfsTrapV1.xfsCommonTrapVars.xfsCommonTrapPhysicalDeviceName) |
| | "ABC Corp Dispenser" |
| | |
| 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.3.1.3.11 | (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.2.3.1.2.1.**3**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDevice**.xfsCDMStatusManagedServiceName) |
| | 2 (WFS_STAT_DEVOFFLINE) |
| | |
| xfsMIBRoot.2.3.1.2.1. | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusE |

| | |
|---|---|
| **2**.Index | ntry.**xfsCDMStatusNumberSubDevices**.xfsCDMStatusManagedServiceName) |
| | 2 (Two sub device) |
| | |
| xfsMIBRoot.2.3.1.2.1.**4**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusSafeDoor**.xfsCDMStatusManagedServiceName) |
| | 2 (xfsCDMDoorNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**5**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDispenser**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMDispenserOK) |
| | |
| xfsMIBRoot.2.3.1.2.1.**6**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusIntermediateStacker**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMISEmpty) |
| | |
| xfsMIBRoot.2.3.1.2.1.**7**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterCenter**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**8**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionCenter**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**9**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportCenter**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**10**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusCenter**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**11**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterLeft**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**12**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionLeft**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**13**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportLeft**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**14**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusLeft**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**15**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRight**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**16**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionRight**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**17**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRight**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**18**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRight**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**19**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterTop**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |

| | |
|---|---|
| | |
| xfsMIBRoot.2.3.1.2.1.**20**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionTop**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**21**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportTop**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**22**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusTop**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**23**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterBottom**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**24**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionBottom**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**25**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportBottom**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**26**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusBottom**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**27**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterFront**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMShtClosed) |
| | |
| xfsMIBRoot.2.3.1.2.1.**28**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionFront**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMPSEmpty) |
| | |
| xfsMIBRoot.2.3.1.2.1.**29**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportFront**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMTPOK) |
| | |
| xfsMIBRoot.2.3.1.2.1.**30**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusFront**.xfsCDMStatusManagedServiceName) |
| | 1 (xfsCDMTPStateEmpty) |
| | |
| xfsMIBRoot.2.3.1.2.1.**31**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusShutterRear**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMShtNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**32**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusOutputPositionRear**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMPSNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**33**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportRear**.xfsCDMStatusManagedServiceName) |
| | 4 (xfsCDMTPNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**34**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusTransportStatusRear**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMTPStateNotSupported) |
| | |
| xfsMIBRoot.2.3.1.2.1.**100**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusExtraStatus**.xfsCDMStatusManagedServiceName) |
| | '\0"\0' ( No extra data ) |
| | |
| xfsMIBRoot.2.3.1.2.1. | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusE |

| | |
|---|---|
| **35**.Index | ntry.**xfsCDMStatusGuidancePosLeft**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**36**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRight**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**37**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosCenter**.xfsCDMStatusManagedServiceName) |
| | 1 (value corresponding to WFS_CDM_GUIDANCE_OFF) |
| | |
| xfsMIBRoot.2.3.1.2.1.**38**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosTop**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**39**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosBottom**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**40**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosFront**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**41**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusGuidancePosRear**.xfsCDMStatusManagedServiceName) |
| | 0 (value corresponding to WFS_CDM_GUIDANCE_NOT_AVAILABLE) |
| | |
| xfsMIBRoot.2.3.1.2.1.**42**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusDevicePosition**.xfsCDMStatusManagedServiceName) |
| | 5 (xfsCDMstatusDeviceInPosition) |
| | |
| xfsMIBRoot.2.3.1.2.1.**43**.Index | (xfsMIBRoot.xfsManagedService.xfsCDM.xfsCDMV1.xfsCDMStatusTable.xfsCDMStatusEntry.**xfsCDMStatusPowerSaveRecoveryTime**.xfsCDMStatusManagedServiceName) |
| | 0 (Power save control is not supported) |
| | |

# 4. Appendix A - CDM MIB sub-tree

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

## 4.1 CDM MIB in SMIv2 and SMIv1 ASN-1 format


SMIv1_xfsCDM.mib


SMIv2_xfsCDM.mib

***The following text is the content of xfsCDM.MIB in SMIv2 format.***

```
-- ****************************************************************
-- XFS MIB for CDM
-- Management Information Base for XFS CDM Device
--
-- The CDM Number is 3
-- The ASN.1 prefix to, and including the CDM is: 1.3.6.1.4.1.16213.2.3
--
-- ****************************************************************

  XFS-CDM-MIB DEFINITIONS ::= BEGIN

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


--
-- Type definitions
--

--  ****************************************************************
-- CDM Status #defines
-- ****************************************************************
    IxfsCDMSafeDoorStatus ::= INTEGER
      {
      xfsCDMSafeDoorNotSupported(2),
      xfsCDMSafeDoorOpen(3),
      xfsCDMSafeDoorClosed(4),
      xfsCDMSafeDoorUnknown(6)
      }

    IxfsCDMDispenserStatus ::= INTEGER
      {
      xfsCDMDispenserOK(1),
      xfsCDMDispenserCUState(2),
      xfsCDMDispenserCUStop(3),
      xfsCDMDispenserCUUnknown(4)
      }

    IxfsCDMIntermediateStackerStatus ::= INTEGER
      {
      xfsCDMISEmpty(1),
      xfsCDMISNotEmpty(2),
      xfsCDMISNotEmptyCust(3),
      xfsCDMISNotEmptyUnknown(4),
      xfsCDMISUnknown(5),
      xfsCDMISNotSupported(6)
      }

    IxfsCDMShutterStatus ::= INTEGER
      {
      xfsCDMShtClosed(1),
      xfsCDMShtOpen(2),
      xfsCDMShtJammed(3),
      xfsCDMShtUnknown(4),
      xfsCDMShtNotSupported(5)
      }
```

```
    IxfsCDMOutputPositionStatus ::= INTEGER
      {
      xfsCDMPSEmpty(1),
      xfsCDMPSNotEmpty(2),
      xfsCDMPSUnknown(3),
      xfsCDMPSNotSupported(4)
      }

    IxfsCDMTransportStatus ::= INTEGER
      {
      xfsCDMTPOK(1),
      xfsCDMTPInop(2),
      xfsCDMTPUnknown(3),
      xfsCDMTPNotSupported(4)
      }

    IxfsCDMTransportStateStatus ::= INTEGER
      {
      xfsCDMTPStateEmpty(1),
      xfsCDMTPStateNotEmpty(2),
      xfsCDMTPStateNotEmptyCust(3),
      xfsCDMTPStateNotEmptyUnknown(4),
      xfsCDMTPStateNotSupported(5)
      }

    IxfsCDMDevicePositionStatus ::= INTEGER
      {
      xfsCDMDeviceInPosition(1),
      xfsCDMDeviceNotInPosition(2),
      xfsCDMDevicePosUnknown(3),
      xfsCDMDevicePosNotSupported(4)
      }

--  ********************************************************************
-- CDM SubDevice #defines
-- ********************************************************************
    IxfsCDMCUType ::= INTEGER
      {
      xfsCDMTypeNA(2),
      xfsCDMTypeRejectCassette(3),
      xfsCDMTypeBillCassette(4),
      xfsCDMTypeCoinCylinder(5),
      xfsCDMTypeCoinDispenser(6),
      xfsCDMTypeRetractCassette(7),
      xfsCDMTypeCoupon(8),
      xfsCDMTypeDocument(9),
      xfsCDMTypeRepContainer(12),
      xfsCDMTypeRecycling(13)
      }

    IxfsCDMCUStatus ::= INTEGER
      {
      xfsCDMCUStatusOK(1),
      xfsCDMCUStatusFull(2),
      xfsCDMCUStatusHigh(3),
      xfsCDMCUStatusLow(4),
      xfsCDMCUStatusEmpty(5),
      xfsCDMCUStatusInop(6),
      xfsCDMCUStatusMissing(7),
      xfsCDMCUStatusNoval(8),
      xfsCDMCUStatusNoref(9),
      xfsCDMCUStatusManip(10)
      }

    IxfsCDMCapabilitiesDeviceType ::= INTEGER
      {
      xfsCDMTellerBill(1),
      xfsCDMSelfServiceBill(2),
      xfsCDMTellerCoin(3),
      xfsCDMSelfServiceCoin(4)
      }

    IxfsCDMCUHardwareSensor ::= INTEGER
      {
      hardwareSensorOn(1),
      hardwareSensorOff(2)
      }
```

```
    IxfsCDMCUAppLock ::= INTEGER
      {
      appLockOn(1),
      appLockOff(2)
      }



--
-- Node definitions
--

--  ********************************************************************
-- Version 1 of CDM MIB
--
-- The ASN.1 prefix to, and including the Version 1 of CDM is:
1.3.6.1.4.1.16213.2.3.1
--
-- ********************************************************************
    -- 1.3.6.1.4.1.16213.2.3.1
    xfsCDMV1 OBJECT IDENTIFIER ::= { xfsCDM 1 }


    -- 1.3.6.1.4.1.16213.2.3.1.1
    xfsCDMInstances OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Number that represents the number of CDM managed services."
      ::= { xfsCDMV1 1 }


--  ********************************************************************
-- CDM Device Status Table
-- ********************************************************************
    -- 1.3.6.1.4.1.16213.2.3.1.2
    xfsCDMStatusTable OBJECT-TYPE
      SYNTAX SEQUENCE OF XfsCDMStatusEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "Define the set of MIB Variables for the CDM status table."
      ::= { xfsCDMV1 2 }


    -- 1.3.6.1.4.1.16213.2.3.1.2.1
    xfsCDMStatusEntry OBJECT-TYPE
      SYNTAX XfsCDMStatusEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "CDM Device Status Table Entry."
      INDEX { xfsCDMStatusManagedServiceName }
      ::= { xfsCDMStatusTable 1 }


    XfsCDMStatusEntry ::=
      SEQUENCE {
        xfsCDMStatusManagedServiceName
          DisplayString,
        xfsCDMStatusNumberSubDevices
          Integer32,
        xfsCDMStatusDevice
          IxfsMIBDeviceStatus,
        xfsCDMStatusSafeDoor
          IxfsCDMSafeDoorStatus,
        xfsCDMStatusDispenser
          IxfsCDMDispenserStatus,
        xfsCDMStatusIntermediateStacker
          IxfsCDMIntermediateStackerStatus,
        xfsCDMStatusShutterCenter
          IxfsCDMShutterStatus,
        xfsCDMStatusOutputPositionCenter
          IxfsCDMOutputPositionStatus,
        xfsCDMStatusTransportCenter
```

```
      IxfsCDMTransportStatus,
    xfsCDMStatusTransportStatusCenter
      IxfsCDMTransportStateStatus,
    xfsCDMStatusShutterLeft
      IxfsCDMShutterStatus,
    xfsCDMStatusOutputPositionLeft
      IxfsCDMOutputPositionStatus,
    xfsCDMStatusTransportLeft
      IxfsCDMTransportStatus,
    xfsCDMStatusTransportStatusLeft
      IxfsCDMTransportStateStatus,
    xfsCDMStatusShutterRight
      IxfsCDMShutterStatus,
    xfsCDMStatusOutputPositionRight
      IxfsCDMOutputPositionStatus,
    xfsCDMStatusTransportRight
      IxfsCDMTransportStatus,
    xfsCDMStatusTransportStatusRight
      IxfsCDMTransportStateStatus,
    xfsCDMStatusShutterTop
      IxfsCDMShutterStatus,
    xfsCDMStatusOutputPositionTop
      IxfsCDMOutputPositionStatus,
    xfsCDMStatusTransportTop
      IxfsCDMTransportStatus,
    xfsCDMStatusTransportStatusTop
      IxfsCDMTransportStateStatus,
    xfsCDMStatusShutterBottom
      IxfsCDMShutterStatus,
    xfsCDMStatusOutputPositionBottom
      IxfsCDMOutputPositionStatus,
    xfsCDMStatusTransportBottom
      IxfsCDMTransportStatus,
    xfsCDMStatusTransportStatusBottom
      IxfsCDMTransportStateStatus,
    xfsCDMStatusShutterFront
      IxfsCDMShutterStatus,
    xfsCDMStatusOutputPositionFront
      IxfsCDMOutputPositionStatus,
    xfsCDMStatusTransportFront
      IxfsCDMTransportStatus,
    xfsCDMStatusTransportStatusFront
      IxfsCDMTransportStateStatus,
    xfsCDMStatusShutterRear
      IxfsCDMShutterStatus,
    xfsCDMStatusOutputPositionRear
      IxfsCDMOutputPositionStatus,
    xfsCDMStatusTransportRear
      IxfsCDMTransportStatus,
    xfsCDMStatusTransportStatusRear
      IxfsCDMTransportStateStatus,
    xfsCDMStatusGuidancePosLeft
      Integer32,
    xfsCDMStatusGuidancePosRight
      Integer32,
    xfsCDMStatusGuidancePosCenter
      Integer32,
    xfsCDMStatusGuidancePosTop
      Integer32,
    xfsCDMStatusGuidancePosBottom
      Integer32,
    xfsCDMStatusGuidancePosFront
      Integer32,
    xfsCDMStatusGuidancePosRear
      Integer32,
    xfsCDMStatusDevicePosition
      IxfsCDMDevicePositionStatus,
    xfsCDMStatusPowerSaveRecoveryTime
      Integer32,
    xfsCDMStatusExtraStatus
      OCTET STRING
   }

-- 1.3.6.1.4.1.16213.2.3.1.2.1.1
xfsCDMStatusManagedServiceName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
```

```
    STATUS current
    DESCRIPTION
      "Instance identifier of the managed service."
    ::= { xfsCDMStatusEntry 1 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.2
  xfsCDMStatusNumberSubDevices OBJECT-TYPE
    SYNTAX Integer32
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Number of sub devices supported by the CDM device."
    ::= { xfsCDMStatusEntry 2 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.3
  xfsCDMStatusDevice OBJECT-TYPE
    SYNTAX IxfsMIBDeviceStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Device status."
    ::= { xfsCDMStatusEntry 3 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.4
  xfsCDMStatusSafeDoor OBJECT-TYPE
    SYNTAX IxfsCDMSafeDoorStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Safedoor Status.
      xfsCDMSafeDoorNotSupported(2),
      xfsCDMSafeDoorOpen(3),
      xfsCDMSafeDoorClosed(4),
      xfsCDMSafeDoorUnknown(6)."
    ::= { xfsCDMStatusEntry 4 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.5
  xfsCDMStatusDispenser OBJECT-TYPE
    SYNTAX IxfsCDMDispenserStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Dispenser Status.
      xfsCDMDispenserOK(1),
      xfsCDMDispenserCUState(2),
      xfsCDMDispenserCUStop(3),
      xfsCDMDispenserCUUnknown(4)."
    ::= { xfsCDMStatusEntry 5 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.6
  xfsCDMStatusIntermediateStacker OBJECT-TYPE
    SYNTAX IxfsCDMIntermediateStackerStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Intermediate Stacker Status.
      xfsCDMISEmpty(1),
      xfsCDMISNotEmpty(2),
      xfsCDMISNotEmptyCust(3),
      xfsCDMISNotEmptyUnknown(4),
      xfsCDMISUnknown(5),
      xfsCDMISNotSupported(6)."
    ::= { xfsCDMStatusEntry 6 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.7
  xfsCDMStatusShutterCenter OBJECT-TYPE
    SYNTAX IxfsCDMShutterStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Status of the shutter in center position.
```

```
    xfsCDMShtClosed(1),
    xfsCDMShtOpen(2),
    xfsCDMShtJammed(3),
    xfsCDMShtUnknown(4),
    xfsCDMShtNotSupported(5)."
  ::= { xfsCDMStatusEntry 7 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.8
xfsCDMStatusOutputPositionCenter OBJECT-TYPE
  SYNTAX IxfsCDMOutputPositionStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the output position in center position.
    xfsCDMPSEmpty(1),
    xfsCDMPSNotEmpty(2),
    xfsCDMPSUnknown(3),
    xfsCDMPSNotSupported(4)."
  ::= { xfsCDMStatusEntry 8 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.9
xfsCDMStatusTransportCenter OBJECT-TYPE
  SYNTAX IxfsCDMTransportStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the transport in center position.
    xfsCDMTPOK(1),
    xfsCDMTPInop(2),
    xfsCDMTPUnknown(3),
    xfsCDMTPNotSupported(4)."
  ::= { xfsCDMStatusEntry 9 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.10
xfsCDMStatusTransportStatusCenter OBJECT-TYPE
  SYNTAX IxfsCDMTransportStateStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the items in the center transport.
    xfsCDMTPStateEmpty(1),
    xfsCDMTPStateNotEmpty(2),
    xfsCDMTPStateNotEmptyCust(3),
    xfsCDMTPStateNotEmptyUnknown(4),
    xfsCDMTPStateNotSupported(5)."
  ::= { xfsCDMStatusEntry 10 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.11
xfsCDMStatusShutterLeft OBJECT-TYPE
  SYNTAX IxfsCDMShutterStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the shutter in left position.
    xfsCDMShtClosed(1),
    xfsCDMShtOpen(2),
    xfsCDMShtJammed(3),
    xfsCDMShtUnknown(4),
    xfsCDMShtNotSupported(5)."
  ::= { xfsCDMStatusEntry 11 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.12
xfsCDMStatusOutputPositionLeft OBJECT-TYPE
  SYNTAX IxfsCDMOutputPositionStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the output position in left position.
    xfsCDMPSEmpty(1),
    xfsCDMPSNotEmpty(2),
    xfsCDMPSUnknown(3),
    xfsCDMPSNotSupported(4)."
```

```
    ::= { xfsCDMStatusEntry 12 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.13
  xfsCDMStatusTransportLeft OBJECT-TYPE
    SYNTAX IxfsCDMTransportStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Status of the transport in left position.
      xfsCDMTPOK(1),
      xfsCDMTPInop(2),
      xfsCDMTPUnknown(3),
      xfsCDMTPNotSupported(4)."
    ::= { xfsCDMStatusEntry 13 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.14
  xfsCDMStatusTransportStatusLeft OBJECT-TYPE
    SYNTAX IxfsCDMTransportStateStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Status of the items in the left transport.
      xfsCDMTPStateEmpty(1),
      xfsCDMTPStateNotEmpty(2),
      xfsCDMTPStateNotEmptyCust(3),
      xfsCDMTPStateNotEmptyUnknown(4),
      xfsCDMTPStateNotSupported(5)."
    ::= { xfsCDMStatusEntry 14 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.15
  xfsCDMStatusShutterRight OBJECT-TYPE
    SYNTAX IxfsCDMShutterStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Status of the shutter in right position.
      xfsCDMShtClosed(1),
      xfsCDMShtOpen(2),
      xfsCDMShtJammed(3),
      xfsCDMShtUnknown(4),
      xfsCDMShtNotSupported(5)."
    ::= { xfsCDMStatusEntry 15 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.16
  xfsCDMStatusOutputPositionRight OBJECT-TYPE
    SYNTAX IxfsCDMOutputPositionStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Status of the output position in right position.
      xfsCDMPSEmpty(1),
      xfsCDMPSNotEmpty(2),
      xfsCDMPSUnknown(3),
      xfsCDMPSNotSupported(4)."
    ::= { xfsCDMStatusEntry 16 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.17
  xfsCDMStatusTransportRight OBJECT-TYPE
    SYNTAX IxfsCDMTransportStatus
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "Status of the transport in center position.
      xfsCDMTPOK(1),
      xfsCDMTPInop(2),
      xfsCDMTPUnknown(3),
      xfsCDMTPNotSupported(4)."
    ::= { xfsCDMStatusEntry 17 }


  -- 1.3.6.1.4.1.16213.2.3.1.2.1.18
  xfsCDMStatusTransportStatusRight OBJECT-TYPE
```

```
  SYNTAX IxfsCDMTransportStateStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the items in the right transport.
    xfsCDMTPStateEmpty(1),
    xfsCDMTPStateNotEmpty(2),
    xfsCDMTPStateNotEmptyCust(3),
    xfsCDMTPStateNotEmptyUnknown(4),
    xfsCDMTPStateNotSupported(5)."
  ::= { xfsCDMStatusEntry 18 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.19
xfsCDMStatusShutterTop OBJECT-TYPE
  SYNTAX IxfsCDMShutterStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the shutter in top position.
    xfsCDMShtClosed(1),
    xfsCDMShtOpen(2),
    xfsCDMShtJammed(3),
    xfsCDMShtUnknown(4),
    xfsCDMShtNotSupported(5)."
  ::= { xfsCDMStatusEntry 19 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.20
xfsCDMStatusOutputPositionTop OBJECT-TYPE
  SYNTAX IxfsCDMOutputPositionStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the output position in top position.
    xfsCDMPSEmpty(1),
    xfsCDMPSNotEmpty(2),
    xfsCDMPSUnknown(3),
    xfsCDMPSNotSupported(4)."
  ::= { xfsCDMStatusEntry 20 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.21
xfsCDMStatusTransportTop OBJECT-TYPE
  SYNTAX IxfsCDMTransportStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the transport in top position.
    xfsCDMTPOK(1),
    xfsCDMTPInop(2),
    xfsCDMTPUnknown(3),
    xfsCDMTPNotSupported(4)."
  ::= { xfsCDMStatusEntry 21 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.22
xfsCDMStatusTransportStatusTop OBJECT-TYPE
  SYNTAX IxfsCDMTransportStateStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the items in the top transport.
    xfsCDMTPStateEmpty(1),
    xfsCDMTPStateNotEmpty(2),
    xfsCDMTPStateNotEmptyCust(3),
    xfsCDMTPStateNotEmptyUnknown(4),
    xfsCDMTPStateNotSupported(5)."
  ::= { xfsCDMStatusEntry 22 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.23
xfsCDMStatusShutterBottom OBJECT-TYPE
  SYNTAX IxfsCDMShutterStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
```

```
      "Status of the shutter in bottom position.
      xfsCDMShtClosed(1),
      xfsCDMShtOpen(2),
      xfsCDMShtJammed(3),
      xfsCDMShtUnknown(4),
      xfsCDMShtNotSupported(5)."
    ::= { xfsCDMStatusEntry 23 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.24
xfsCDMStatusOutputPositionBottom OBJECT-TYPE
  SYNTAX IxfsCDMOutputPositionStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the output position in bottom position.
    xfsCDMPSEmpty(1),
    xfsCDMPSNotEmpty(2),
    xfsCDMPSUnknown(3),
    xfsCDMPSNotSupported(4)."
  ::= { xfsCDMStatusEntry 24 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.25
xfsCDMStatusTransportBottom OBJECT-TYPE
  SYNTAX IxfsCDMTransportStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the transport in bottom position.
    xfsCDMTPOK(1),
    xfsCDMTPInop(2),
    xfsCDMTPUnknown(3),
    xfsCDMTPNotSupported(4)."
  ::= { xfsCDMStatusEntry 25 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.26
xfsCDMStatusTransportStatusBottom OBJECT-TYPE
  SYNTAX IxfsCDMTransportStateStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the items in the bottom transport.
    xfsCDMTPStateEmpty(1),
    xfsCDMTPStateNotEmpty(2),
    xfsCDMTPStateNotEmptyCust(3),
    xfsCDMTPStateNotEmptyUnknown(4),
    xfsCDMTPStateNotSupported(5)."
  ::= { xfsCDMStatusEntry 26 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.27
xfsCDMStatusShutterFront OBJECT-TYPE
  SYNTAX IxfsCDMShutterStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the shutter in front position.
    xfsCDMShtClosed(1),
    xfsCDMShtOpen(2),
    xfsCDMShtJammed(3),
    xfsCDMShtUnknown(4),
    xfsCDMShtNotSupported(5)."
  ::= { xfsCDMStatusEntry 27 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.28
xfsCDMStatusOutputPositionFront OBJECT-TYPE
  SYNTAX IxfsCDMOutputPositionStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the output position in front position.
    xfsCDMPSEmpty(1),
    xfsCDMPSNotEmpty(2),
    xfsCDMPSUnknown(3),
```

```
    xfsCDMPSNotSupported(4)."
  ::= { xfsCDMStatusEntry 28 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.29
xfsCDMStatusTransportFront OBJECT-TYPE
  SYNTAX IxfsCDMTransportStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the transport in front position.
    xfsCDMTPOK(1),
    xfsCDMTPInop(2),
    xfsCDMTPUnknown(3),
    xfsCDMTPNotSupported(4)."
  ::= { xfsCDMStatusEntry 29 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.30
xfsCDMStatusTransportStatusFront OBJECT-TYPE
  SYNTAX IxfsCDMTransportStateStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the items in the front transport.
    xfsCDMTPStateEmpty(1),
    xfsCDMTPStateNotEmpty(2),
    xfsCDMTPStateNotEmptyCust(3),
    xfsCDMTPStateNotEmptyUnknown(4),
    xfsCDMTPStateNotSupported(5)."
  ::= { xfsCDMStatusEntry 30 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.31
xfsCDMStatusShutterRear OBJECT-TYPE
  SYNTAX IxfsCDMShutterStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the shutter in rear position.
    xfsCDMShtClosed(1),
    xfsCDMShtOpen(2),
    xfsCDMShtJammed(3),
    xfsCDMShtUnknown(4),
    xfsCDMShtNotSupported(5)."
  ::= { xfsCDMStatusEntry 31 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.32
xfsCDMStatusOutputPositionRear OBJECT-TYPE
  SYNTAX IxfsCDMOutputPositionStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the output position in rear position.
    xfsCDMPSEmpty(1),
    xfsCDMPSNotEmpty(2),
    xfsCDMPSUnknown(3),
    xfsCDMPSNotSupported(4)."
  ::= { xfsCDMStatusEntry 32 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.33
xfsCDMStatusTransportRear OBJECT-TYPE
  SYNTAX IxfsCDMTransportStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the transport in rear position.
    xfsCDMTPOK(1),
    xfsCDMTPInop(2),
    xfsCDMTPUnknown(3),
    xfsCDMTPNotSupported(4)."
  ::= { xfsCDMStatusEntry 33 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.34
```

```
xfsCDMStatusTransportStatusRear OBJECT-TYPE
  SYNTAX IxfsCDMTransportStateStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the items in the rear transport.
    xfsCDMTPStateEmpty(1),
    xfsCDMTPStateNotEmpty(2),
    xfsCDMTPStateNotEmptyCust(3),
    xfsCDMTPStateNotEmptyUnknown(4),
    xfsCDMTPStateNotSupported(5)."
  ::= { xfsCDMStatusEntry 34 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.35
xfsCDMStatusGuidancePosLeft OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the guidance light indicator at the left output position."
  ::= { xfsCDMStatusEntry 35 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.36
xfsCDMStatusGuidancePosRight OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the guidance light indicator at the right output position."
  ::= { xfsCDMStatusEntry 36 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.37
xfsCDMStatusGuidancePosCenter OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the guidance light indicator at the center output position."
  ::= { xfsCDMStatusEntry 37 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.38
xfsCDMStatusGuidancePosTop OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the guidance light indicator at the top output position."
  ::= { xfsCDMStatusEntry 38 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.39
xfsCDMStatusGuidancePosBottom OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the guidance light indicator at the bottom output position."
  ::= { xfsCDMStatusEntry 39 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.40
xfsCDMStatusGuidancePosFront OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the guidance light indicator at the front output position."
  ::= { xfsCDMStatusEntry 40 }


-- 1.3.6.1.4.1.16213.2.3.1.2.1.41
xfsCDMStatusGuidancePosRear OBJECT-TYPE
  SYNTAX Integer32
```

```
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Status of the guidance light indicator at the rear output position."
      ::= { xfsCDMStatusEntry 41 }


    -- 1.3.6.1.4.1.16213.2.3.1.2.1.42
    xfsCDMStatusDevicePosition OBJECT-TYPE
      SYNTAX IxfsCDMDevicePositionStatus
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the device position.
        xfsCDMDeviceInPosition(1),
        xfsCDMDeviceNotInPosition(2),
        xfsCDMDevicePosUnknown(3),
        xfsCDMDevicePosNotSupported(4)."
      ::= { xfsCDMStatusEntry 42 }


    -- 1.3.6.1.4.1.16213.2.3.1.2.1.43
    xfsCDMStatusPowerSaveRecoveryTime 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."
      ::= { xfsCDMStatusEntry 43 }


    -- 1.3.6.1.4.1.16213.2.3.1.2.1.100
    xfsCDMStatusExtraStatus OBJECT-TYPE
      SYNTAX OCTET STRING
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Vendor dependent additional device status information."
      ::= { xfsCDMStatusEntry 100 }


--  ************************************************************************
-- CDM Sub Device Status Table
--
-- The ASN.1 prefix for Version 1 of CDM is: 1.3.6.1.4.1.16213.2.3.1.3
-- ************************************************************************
    -- 1.3.6.1.4.1.16213.2.3.1.3
    xfsCDMSubDeviceTable OBJECT-TYPE
      SYNTAX SEQUENCE OF XfsCDMSubDeviceEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "Define the set of MIB Variables for the CDM status table."
      ::= { xfsCDMV1 3 }


    -- 1.3.6.1.4.1.16213.2.3.1.3.1
    xfsCDMSubDeviceEntry OBJECT-TYPE
      SYNTAX XfsCDMSubDeviceEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "CDM Sub-Device Status Table Entry."
      INDEX { xfsCDMSubDeviceManagedServiceName, xfsCDMSubDeviceIndex }
      ::= { xfsCDMSubDeviceTable 1 }


    XfsCDMSubDeviceEntry ::=
      SEQUENCE {
        xfsCDMSubDeviceManagedServiceName
          DisplayString,
        xfsCDMSubDeviceIndex
          INTEGER,
```

```
      xfsCDMSubDeviceCUType
        IxfsCDMCUType,
      xfsCDMSubDeviceCUName
        DisplayString,
      xfsCDMSubDeviceCULUnitID
        OCTET STRING,
      xfsCDMSubDeviceCUCurrencyID
        OCTET STRING,
      xfsCDMSubDeviceCUValues
        Integer32,
      xfsCDMSubDeviceCULInitialCount
        Integer32,
      xfsCDMSubDeviceCULCount
        Integer32,
      xfsCDMSubDeviceCULRejectCount
        Integer32,
      xfsCDMSubDeviceCUMinimum
        Integer32,
      xfsCDMSubDeviceCULMaximum
        Integer32,
      xfsCDMSubDeviceCUAppLock
        TruthValue,
      xfsCDMSubDeviceCULogicalStatus
        IxfsCDMCUStatus,
      xfsCDMSubDeviceCUPhysicalPositionName
        DisplayString,
      xfsCDMSubDeviceCUPUnitID
        OCTET STRING,
      xfsCDMSubDeviceCUPInitialCount
        Integer32,
      xfsCDMSubDeviceCUPCount
        Integer32,
      xfsCDMSubDeviceCUPRejectCount
        Integer32,
      xfsCDMSubDeviceCUPMaximumCount
        Integer32,
      xfsCDMSubDeviceCUPhysicalStatus
        IxfsCDMCUStatus,
      xfsCDMSubDeviceCUHardwareSensor
        TruthValue,
      xfsCDMSubDeviceCUExponent
        Integer32,
      xfsCDMSubDeviceCULDispensedCount
        Integer32,
      xfsCDMSubDeviceCULPresentedCount
        Integer32,
      xfsCDMSubDeviceCULRetractedCount
        Integer32,
      xfsCDMSubDeviceCUPDispensedCount
        Integer32,
      xfsCDMSubDeviceCUPPresentedCount
        Integer32,
      xfsCDMSubDeviceCUPRetractedCount
        Integer32
    }

-- 1.3.6.1.4.1.16213.2.3.1.3.1.1
xfsCDMSubDeviceManagedServiceName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Instance identifier of the managed service."
  ::= { xfsCDMSubDeviceEntry 1 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.2
xfsCDMSubDeviceIndex OBJECT-TYPE
  SYNTAX INTEGER (1..65535)
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Index into the array of sub devices supported."
  ::= { xfsCDMSubDeviceEntry 2 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.3
```

```
xfsCDMSubDeviceCUType OBJECT-TYPE
  SYNTAX IxfsCDMCUType
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Type of cash unit.
    xfsCDMTypeNA(2),
    xfsCDMTypeRejectCassette(3),
    xfsCDMTypeBillCassette(4),
    xfsCDMTypeCoinCylinder(5),
    xfsCDMTypeCoinDispenser(6),
    xfsCDMTypeRetractCassette(7),
    xfsCDMTypeCoupon(8),
    xfsCDMTypeDocument(9),
    xfsCDMTypeRepContainer(12),
    xfsCDMTypeRecycling(13)"
  ::= { xfsCDMSubDeviceEntry 3 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.4
xfsCDMSubDeviceCUName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Name of cash unit."
  ::= { xfsCDMSubDeviceEntry 4 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.5
xfsCDMSubDeviceCULUnitID OBJECT-TYPE
  SYNTAX OCTET STRING
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Cash unit identifier."
  ::= { xfsCDMSubDeviceEntry 5 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.6
xfsCDMSubDeviceCUCurrencyID OBJECT-TYPE
  SYNTAX OCTET STRING
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Three character array storing the ISO format Currenty ID."
  ::= { xfsCDMSubDeviceEntry 6 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.7
xfsCDMSubDeviceCUValues OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Value of the single item in the cash unit."
  ::= { xfsCDMSubDeviceEntry 7 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.8
xfsCDMSubDeviceCULInitialCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Initial number of items contained in the cash unit."
  ::= { xfsCDMSubDeviceEntry 8 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.9
xfsCDMSubDeviceCULCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Initial number of items contained in the cash unit."
  ::= { xfsCDMSubDeviceEntry 9 }
```

```
-- 1.3.6.1.4.1.16213.2.3.1.3.1.10
xfsCDMSubDeviceCULRejectCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Initial number of items contained in the cash unit."
  ::= { xfsCDMSubDeviceEntry 10 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.11
xfsCDMSubDeviceCUMinimum OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "When this valued is reached a threshold event is generated.
    Not applicable for Retract and Reject cash units."
  ::= { xfsCDMSubDeviceEntry 11 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.12
xfsCDMSubDeviceCULMaximum OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "When this valued is reached a threshold event is generated.
    Only applicable for Retract and Reject cash units."
  ::= { xfsCDMSubDeviceEntry 12 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.13
xfsCDMSubDeviceCUAppLock OBJECT-TYPE
  SYNTAX TruthValue
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Not applicable for Reject or Retract cash unit..
    TRUE - can NOT dispense from cash unit without errors,
                FALSE- items can be dispensed from the cash unit ."
  ::= { xfsCDMSubDeviceEntry 13 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.14
xfsCDMSubDeviceCULogicalStatus OBJECT-TYPE
  SYNTAX IxfsCDMCUStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the logical cassette.
    xfsCDMCUStatusOK(1),
       xfsCDMCUStatusFull(2),
       xfsCDMCUStatusHigh(3),
       xfsCDMCUStatusLow(4),
       xfsCDMCUStatusEmpty(5),
       xfsCDMCUStatusInop(6),
       xfsCDMCUStatusMissing(7),
       xfsCDMCUStatusNoval(8),
       xfsCDMCUStatusNoref(9),
       xfsCDMCUStatusManip(10)."
  ::= { xfsCDMSubDeviceEntry 14 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.15
xfsCDMSubDeviceCUPhysicalPositionName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Name identifying the physical location of the cash unit."
  ::= { xfsCDMSubDeviceEntry 15 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.16
```

```
xfsCDMSubDeviceCUPUnitID OBJECT-TYPE
  SYNTAX OCTET STRING
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Cash unit identifier."
  ::= { xfsCDMSubDeviceEntry 16 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.17
xfsCDMSubDeviceCUPInitialCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Initial number of items contained in the cash unit."
  ::= { xfsCDMSubDeviceEntry 17 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.18
xfsCDMSubDeviceCUPCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Initial number of items contained in the cash unit."
  ::= { xfsCDMSubDeviceEntry 18 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.19
xfsCDMSubDeviceCUPRejectCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Initial number of items contained in the cash unit."
  ::= { xfsCDMSubDeviceEntry 19 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.20
xfsCDMSubDeviceCUPMaximumCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "When this valued is reached a threshold event is generated.
    Only applicable for Retract and Reject cash units."
  ::= { xfsCDMSubDeviceEntry 20 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.21
xfsCDMSubDeviceCUPhysicalStatus OBJECT-TYPE
  SYNTAX IxfsCDMCUStatus
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Status of the physical cassette.
    xfsCDMCUStatusOK(1),
       xfsCDMCUStatusFull(2),
       xfsCDMCUStatusHigh(3),
       xfsCDMCUStatusLow(4),
       xfsCDMCUStatusEmpty(5),
       xfsCDMCUStatusInop(6),
       xfsCDMCUStatusMissing(7),
       xfsCDMCUStatusNoval(8),
       xfsCDMCUStatusNoref(9),
       xfsCDMCUStatusManip(10)."
  ::= { xfsCDMSubDeviceEntry 21 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.22
xfsCDMSubDeviceCUHardwareSensor OBJECT-TYPE
  SYNTAX TruthValue
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Specifies whether or not thresholds events are generated based
```

```
    on hardware sensors in the device .
    TRUE - threshold events generated on hardware sensors,
    FALSE - threshold events NOT generated on hardware sensors."
  ::= { xfsCDMSubDeviceEntry 22 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.23
xfsCDMSubDeviceCUExponent OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "The XFS currency exponent."
  ::= { xfsCDMSubDeviceEntry 23 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.24
xfsCDMSubDeviceCULDispensedCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    " The number of items dispensed from all the physical cash units
    associated with this logical cash unit."
  ::= { xfsCDMSubDeviceEntry 24 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.25
xfsCDMSubDeviceCULPresentedCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    " The number of items from all the physical cash units associated
    with this logical cash unit that have been presented to the customer."
  ::= { xfsCDMSubDeviceEntry 25 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.26
xfsCDMSubDeviceCULRetractedCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    " The number of items that have been retracted into all physical cash
    units associated with this logical cash unit."
  ::= { xfsCDMSubDeviceEntry 26 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.27
xfsCDMSubDeviceCUPDispensedCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    " The number of items dispensed from this physical cash unit."
  ::= { xfsCDMSubDeviceEntry 27 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.28
xfsCDMSubDeviceCUPPresentedCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    " The number of items from this physical cash unit that have been
    presented to the customer."
  ::= { xfsCDMSubDeviceEntry 28 }


-- 1.3.6.1.4.1.16213.2.3.1.3.1.29
xfsCDMSubDeviceCUPRetractedCount OBJECT-TYPE
  SYNTAX Integer32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    " The number of items that have been retracted into this physical
```

```
        cash unit."
      ::= { xfsCDMSubDeviceEntry 29 }


--  ********************************************************************
-- CDM Error Table
-- ********************************************************************
    -- 1.3.6.1.4.1.16213.2.3.1.4
    xfsCDMErrorTable OBJECT-TYPE
      SYNTAX SEQUENCE OF XfsCDMErrorEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "Define the set of MIB Variables for the CDM Error Table."
      ::= { xfsCDMV1 4 }


    -- 1.3.6.1.4.1.16213.2.3.1.4.1
    xfsCDMErrorEntry OBJECT-TYPE
      SYNTAX XfsCDMErrorEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "CDM Error Table Entry."
      INDEX { xfsCDMErrorManagedServiceName, xfsCDMErrorCommandCode,
xfsCDMErrorResponseCode }
      ::= { xfsCDMErrorTable 1 }


    XfsCDMErrorEntry ::=
      SEQUENCE {
        xfsCDMErrorManagedServiceName
          DisplayString,
        xfsCDMErrorCommandCode
          INTEGER,
        xfsCDMErrorResponseCode
          INTEGER,
        xfsCDMErrorCount
          Integer32
       }

    -- 1.3.6.1.4.1.16213.2.3.1.4.1.1
    xfsCDMErrorManagedServiceName OBJECT-TYPE
      SYNTAX DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Instance identifier of the managed service."
      ::= { xfsCDMErrorEntry 1 }


    -- 1.3.6.1.4.1.16213.2.3.1.4.1.2
    xfsCDMErrorCommandCode OBJECT-TYPE
      SYNTAX INTEGER (301..400)
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "The executable command code supported by the Service
        Provider associated with the error count of interest."
      ::= { xfsCDMErrorEntry 2 }


    -- 1.3.6.1.4.1.16213.2.3.1.4.1.3
    xfsCDMErrorResponseCode OBJECT-TYPE
      SYNTAX INTEGER (0..99 | 300..399)
      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."
      ::= { xfsCDMErrorEntry 3 }


    -- 1.3.6.1.4.1.16213.2.3.1.4.1.4
    xfsCDMErrorCount OBJECT-TYPE
      SYNTAX Integer32
```

```
      MAX-ACCESS read-write
      STATUS current
      DESCRIPTION
        "The counter value corresponding to the managed service,
        command code and response code."
      ::= { xfsCDMErrorEntry 4 }


--  ************************************************************************
-- CDM Reset Table
-- ************************************************************************
    -- 1.3.6.1.4.1.16213.2.3.1.5
    xfsCDMResetTable OBJECT-TYPE
      SYNTAX SEQUENCE OF XfsCDMResetEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "Defines the set of MIB Variables for the CDM Reset Table."
      ::= { xfsCDMV1 5 }


    -- 1.3.6.1.4.1.16213.2.3.1.5.1
    xfsCDMResetEntry OBJECT-TYPE
      SYNTAX XfsCDMResetEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "CDM Reset Table Entry."
      INDEX { xfsCDMResetManagedServiceName }
      ::= { xfsCDMResetTable 1 }


    XfsCDMResetEntry ::=
      SEQUENCE {
        xfsCDMResetManagedServiceName
          DisplayString,
        xfsCDMResetAll
          Integer32,
        xfsCDMResetTimestamp
          DisplayString
       }

    -- 1.3.6.1.4.1.16213.2.3.1.5.1.1
    xfsCDMResetManagedServiceName OBJECT-TYPE
      SYNTAX DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Instance identifier of the managed service."
      ::= { xfsCDMResetEntry 1 }


    -- 1.3.6.1.4.1.16213.2.3.1.5.1.2
    xfsCDMResetAll 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."
      ::= { xfsCDMResetEntry 2 }


    -- 1.3.6.1.4.1.16213.2.3.1.5.1.3
    xfsCDMResetTimestamp OBJECT-TYPE
      SYNTAX DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Date and time the last reset of the counters was
        performed."
      ::= { xfsCDMResetEntry 3 }


--   ************************************************************************
-- CDM Reset Device Table
-- ************************************************************************
```

```
-- 1.3.6.1.4.1.16213.2.3.1.6
xfsCDMResetDeviceTable OBJECT-TYPE
  SYNTAX SEQUENCE OF XfsCDMResetDeviceEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "Define the set of MIB Variables for the CDM Reset Device Table."
  ::= { xfsCDMV1 6 }


-- 1.3.6.1.4.1.16213.2.3.1.6.1
xfsCDMResetDeviceEntry OBJECT-TYPE
  SYNTAX XfsCDMResetDeviceEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
    "CDM Reset Device Table Entry."
  INDEX { xfsCDMResetDeviceManagedServiceName }
  ::= { xfsCDMResetDeviceTable 1 }


XfsCDMResetDeviceEntry ::=
  SEQUENCE {
    xfsCDMResetDeviceManagedServiceName
      DisplayString,
    xfsCDMResetDeviceAction
      INTEGER,
    xfsCDMResetDeviceMediaControl
      INTEGER,
    xfsCDMResetDeviceStatus
      INTEGER
   }

-- 1.3.6.1.4.1.16213.2.3.1.6.1.1
xfsCDMResetDeviceManagedServiceName OBJECT-TYPE
  SYNTAX DisplayString
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "Instance identifier of the managed service."
  ::= { xfsCDMResetDeviceEntry 1 }


-- 1.3.6.1.4.1.16213.2.3.1.6.1.2
xfsCDMResetDeviceAction OBJECT-TYPE
  SYNTAX INTEGER { executeReset(1) }
  MAX-ACCESS read-write
  STATUS current
  DESCRIPTION
    "Variable that initiates the device reset."
  ::= { xfsCDMResetDeviceEntry 2 }


-- 1.3.6.1.4.1.16213.2.3.1.6.1.3
xfsCDMResetDeviceMediaControl 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."
  ::= { xfsCDMResetDeviceEntry 3 }


-- 1.3.6.1.4.1.16213.2.3.1.6.1.4
xfsCDMResetDeviceStatus OBJECT-TYPE
  SYNTAX INTEGER
    {
    resetIdle(1),
    resetInProgress(2)
    }
  MAX-ACCESS read-only
  STATUS current
```

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


--    ************************************************************************
-- CDM Device Capabilities Table
-- ************************************************************************
-- 1.3.6.1.4.1.16213.2.3.1.7
    -- 1.3.6.1.4.1.16213.2.3.1.7
    xfsCDMCapabilitiesTable OBJECT-TYPE
      SYNTAX SEQUENCE OF XfsCDMCapabilitiesEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "Define the set of MIB Variables for the CDM Capabilities table."
      ::= { xfsCDMV1 7 }


--  1.3.6.1.4.1.16213.2.3.1.7.1
    -- 1.3.6.1.4.1.16213.2.3.1.7.1
    xfsCDMCapabilitiesEntry OBJECT-TYPE
      SYNTAX XfsCDMCapabilitiesEntry
      MAX-ACCESS not-accessible
      STATUS current
      DESCRIPTION
        "CDM Device Capabilities Table Entry."
      INDEX { xfsCDMCapabilitiesManagedServiceName }
      ::= { xfsCDMCapabilitiesTable 1 }


    XfsCDMCapabilitiesEntry ::=
      SEQUENCE {
        xfsCDMCapabilitiesManagedServiceName
          DisplayString,
        xfsCDMCapabilitiesDeviceType
          IxfsCDMCapabilitiesDeviceType,
        xfsCDMCapabilitiesMaxDispenseItems
          Integer32,
        xfsCDMCapabilitiesCompoundDevice
          TruthValue,
        xfsCDMCapabilitiesShutter
          TruthValue,
        xfsCDMCapabilitiesShutterControl
          TruthValue,
        xfsCDMCapabilitiesRetractAreas
          Integer32,
        xfsCDMCapabilitiesRetractTransportActions
          Integer32,
        xfsCDMCapabilitiesRetractStackerActions
          Integer32,
        xfsCDMCapabilitiesSafedoor
          TruthValue,
        xfsCDMCapabilitiesCashbox
          TruthValue,
        xfsCDMCapabilitiesIntermediateStacker
          TruthValue,
        xfsCDMCapabilitiesItemsTakenSensor
          TruthValue,
        xfsCDMCapabilitiesOutputPositions
          Integer32,
        xfsCDMCapabilitiesMoveItems
          Integer32,
        xfsCDMCapabilitiesExchangeTypes
          Integer32,
        xfsCDMCapabilitiesGuidancePosLeft
          Integer32,
        xfsCDMCapabilitiesGuidancePosRight
          Integer32,
        xfsCDMCapabilitiesGuidancePosCenter
          Integer32,
        xfsCDMCapabilitiesGuidancePosTop
          Integer32,
        xfsCDMCapabilitiesGuidancePosBottom
          Integer32,
        xfsCDMCapabilitiesGuidancePosFront
          Integer32,
```

```
        xfsCDMCapabilitiesGuidancePosRear
          Integer32,
        xfsCDMCapabilitiesPowerSaveControl
          TruthValue,
        xfsCDMCapabilitiesPrepareDispense
          TruthValue,
        xfsCDMCapabilitiesExtraCapability
          OCTET STRING
       }

    -- 1.3.6.1.4.1.16213.2.3.1.7.1.1
    xfsCDMCapabilitiesManagedServiceName OBJECT-TYPE
      SYNTAX DisplayString
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Instance identifier of the managed service."
      ::= { xfsCDMCapabilitiesEntry 1 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.2
    xfsCDMCapabilitiesDeviceType OBJECT-TYPE
      SYNTAX IxfsCDMCapabilitiesDeviceType
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Type of device."
      ::= { xfsCDMCapabilitiesEntry 2 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.3
    xfsCDMCapabilitiesMaxDispenseItems OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Supplies the maximum number of items that can be dispensed. It is an
integer variable."
      ::= { xfsCDMCapabilitiesEntry 3 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.4
    xfsCDMCapabilitiesCompoundDevice OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "It specifies whether the logical device is part of a compound physical
device. It is a TruthValue type field. Allowed values are.
        True(1),
        False(2)."
      ::= { xfsCDMCapabilitiesEntry 4 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.5
    xfsCDMCapabilitiesShutter OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Specifies if shutter control through the commands WFS_CMD_CDM_OPEN_SHUTTER
and WFS_CMD_CDM_CLOSE_SHUTTER is supported in a TruthValue variable as follows."
      ::= { xfsCDMCapabilitiesEntry 5 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.6
    xfsCDMCapabilitiesShutterControl OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "If this TruthValue variable is TRUE the shutter is controlled implicitly
by the Service Provider. If set to FALSE the shutter must be controlled explicitly
by the application using the WFS_CMD_CDM_OPEN_SHUTTER and the
WFS_CMD_CDM_CLOSE_SHUTTER commands.
        This field is always set to TRUE if the device has no shutter. This field
applies to all shutters and
```

```
        all output positions."
      ::= { xfsCDMCapabilitiesEntry 6 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.7
    xfsCDMCapabilitiesRetractAreas OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This integer variable specifies the areas to which items may be retracted.
This field will be set to a combination of the following flags."
      ::= { xfsCDMCapabilitiesEntry 7 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.8
    xfsCDMCapabilitiesRetractTransportActions OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This integer variable specifies the actions which may be performed on
items which have been retracted to the transport. Allowed values are as follows."
      ::= { xfsCDMCapabilitiesEntry 8 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.9
    xfsCDMCapabilitiesRetractStackerActions OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This integer variable specifies the actions which may be performed on
items which have been retracted to the stacker. Allowed values are as follows."
      ::= { xfsCDMCapabilitiesEntry 9 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.10
    xfsCDMCapabilitiesSafedoor OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Specifies whether the WFS_CMD_CDM_OPEN_SAFE_DOOR command is supported in
TruthValue format."
      ::= { xfsCDMCapabilitiesEntry 10 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.11
    xfsCDMCapabilitiesCashbox OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "It specifies whether or not the Tellers have been assigned a Cash Box in
TruthValue format."
      ::= { xfsCDMCapabilitiesEntry 11 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.12
    xfsCDMCapabilitiesIntermediateStacker OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Specifies if the device supports stacking items in an intermediate
stacking position in the following TruthValue variable."
      ::= { xfsCDMCapabilitiesEntry 12 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.13
    xfsCDMCapabilitiesItemsTakenSensor OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
```

```
        "This TruthValue variable specifies whether or not the CDM can detect when
items at the exit position are taken by the user. If set to TRUE the Service
Provider generates an accompanying WFS_SRVE_CDM_ITEMS_TAKEN event. If set to FALSE
this event is not generated. This field relates to all output positions."
      ::= { xfsCDMCapabilitiesEntry 13 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.14
    xfsCDMCapabilitiesOutputPositions OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This integer variable specifies the CDM output positions which are
available as a combination of the following flags."
      ::= { xfsCDMCapabilitiesEntry 14 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.15
    xfsCDMCapabilitiesMoveItems OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This integer variable specifies the CDM move item options which are
available as a combination of the following flags."
      ::= { xfsCDMCapabilitiesEntry 15 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.16
    xfsCDMCapabilitiesExchangeTypes OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This integer variable specifies the type of cash unit exchange operations
supported by the CDM. Values are a combination of the following flags."
      ::= { xfsCDMCapabilitiesEntry 16 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.17
    xfsCDMCapabilitiesGuidancePosLeft OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the guidance light capability at the left output position."
      ::= { xfsCDMCapabilitiesEntry 17 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.18
    xfsCDMCapabilitiesGuidancePosRight OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the guidance light capability at the right output position."
      ::= { xfsCDMCapabilitiesEntry 18 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.19
    xfsCDMCapabilitiesGuidancePosCenter OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the guidance light capability at the center output position."
      ::= { xfsCDMCapabilitiesEntry 19 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.20
    xfsCDMCapabilitiesGuidancePosTop OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the guidance light capability at the top output position."
```

```
      ::= { xfsCDMCapabilitiesEntry 20 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.21
    xfsCDMCapabilitiesGuidancePosBottom OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the guidance light capability at the bottom output position."
      ::= { xfsCDMCapabilitiesEntry 21 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.22
    xfsCDMCapabilitiesGuidancePosFront OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the guidance light capability at the front output position."
      ::= { xfsCDMCapabilitiesEntry 22 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.23
    xfsCDMCapabilitiesGuidancePosRear OBJECT-TYPE
      SYNTAX Integer32
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        " Specifies the guidance light capability at the rear output position."
      ::= { xfsCDMCapabilitiesEntry 23 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.24
    xfsCDMCapabilitiesPowerSaveControl OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This TruthValue variable specifies whether or not power
        saving control is available."
      ::= { xfsCDMCapabilitiesEntry 24 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.25
    xfsCDMCapabilitiesPrepareDispense OBJECT-TYPE
      SYNTAX TruthValue
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "This TruthValue variable specifies whether or not the hardware requires
        the application to use the WFS_CMD_CDM_PREPARE_DISPENSE command to
        maximize transaction performance."
      ::= { xfsCDMCapabilitiesEntry 25 }


    -- 1.3.6.1.4.1.16213.2.3.1.7.1.100
    xfsCDMCapabilitiesExtraCapability OBJECT-TYPE
      SYNTAX OCTET STRING
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
        "Vendor dependant extra capabilities."
      ::= { xfsCDMCapabilitiesEntry 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
-- ****************************************************************
```

```
    -- 1.3.6.1.4.1.16213.3.0.103
    xfsCDMDetailedDSCTrap NOTIFICATION-TYPE
      OBJECTS { xfsCommonTrapSysName, xfsCommonTrapManagedServiceName,
xfsCommonTrapManagedServiceClass, xfsCommonTrapManagedServiceClassName,
xfsCommonTrapManagedServiceType,
        xfsCommonTrapManagedServiceOid, xfsCommonTrapPhysicalDeviceName,
xfsCommonTrapDeviceVendor, xfsCommonTrapMIBVersion, xfsCommonTrapEvent,
        xfsCommonTrapDate, xfsCommonTrapSPVersion, xfsCDMStatusDevice,
xfsCDMStatusNumberSubDevices, xfsCDMStatusSafeDoor,
        xfsCDMStatusDispenser, xfsCDMStatusIntermediateStacker,
xfsCDMStatusShutterCenter, xfsCDMStatusOutputPositionCenter,
xfsCDMStatusTransportCenter,
        xfsCDMStatusTransportStatusCenter, xfsCDMStatusShutterLeft,
xfsCDMStatusOutputPositionLeft, xfsCDMStatusTransportLeft,
xfsCDMStatusTransportStatusLeft,
        xfsCDMStatusShutterRight, xfsCDMStatusOutputPositionRight,
xfsCDMStatusTransportRight, xfsCDMStatusTransportStatusRight,
xfsCDMStatusShutterTop,
        xfsCDMStatusOutputPositionTop, xfsCDMStatusTransportTop,
xfsCDMStatusTransportStatusTop, xfsCDMStatusShutterBottom,
xfsCDMStatusOutputPositionBottom,
        xfsCDMStatusTransportBottom, xfsCDMStatusTransportStatusBottom,
xfsCDMStatusShutterFront, xfsCDMStatusOutputPositionFront,
xfsCDMStatusTransportFront,
        xfsCDMStatusTransportStatusFront, xfsCDMStatusShutterRear,
xfsCDMStatusOutputPositionRear, xfsCDMStatusTransportRear,
xfsCDMStatusTransportStatusRear,
        xfsCDMStatusExtraStatus, xfsCDMStatusGuidancePosLeft,
xfsCDMStatusGuidancePosRight, xfsCDMStatusGuidancePosCenter,
xfsCDMStatusGuidancePosTop,
        xfsCDMStatusGuidancePosBottom, xfsCDMStatusGuidancePosFront,
xfsCDMStatusGuidancePosRear, xfsCDMStatusDevicePosition,
xfsCDMStatusPowerSaveRecoveryTime
         }
      STATUS current
      DESCRIPTION
        "This trap indicates a change in the status of a managed
        service."
      ::= { xfsTrapV2 103 }


    -- 1.3.6.1.4.1.16213.3.0.203
    xfsCDMSubDeviceTrap NOTIFICATION-TYPE
      OBJECTS { xfsCommonTrapManagedServiceName, xfsCommonTrapManagedServiceClass,
xfsCommonTrapManagedServiceClassName, xfsCommonTrapManagedServiceType,
xfsCommonTrapManagedServiceOid,
        xfsCommonTrapPhysicalDeviceName, xfsCommonTrapDeviceVendor,
xfsCommonTrapMIBVersion, xfsCommonTrapEvent, xfsCommonTrapDate,
        xfsCommonTrapSPVersion, xfsCDMSubDeviceIndex, xfsCDMSubDeviceCUType,
xfsCDMSubDeviceCUName, xfsCDMSubDeviceCULUnitID,
        xfsCDMSubDeviceCUCurrencyID, xfsCDMSubDeviceCUValues,
xfsCDMSubDeviceCULInitialCount, xfsCDMSubDeviceCULCount,
xfsCDMSubDeviceCULRejectCount,
        xfsCDMSubDeviceCUMinimum, xfsCDMSubDeviceCULMaximum,
xfsCDMSubDeviceCUAppLock, xfsCDMSubDeviceCULogicalStatus,
xfsCDMSubDeviceCUPhysicalPositionName,
        xfsCDMSubDeviceCUPUnitID, xfsCDMSubDeviceCUPInitialCount,
xfsCDMSubDeviceCUPCount, xfsCDMSubDeviceCUPRejectCount,
xfsCDMSubDeviceCUPMaximumCount,
        xfsCDMSubDeviceCUPhysicalStatus, xfsCDMSubDeviceCUHardwareSensor,
xfsCDMSubDeviceCUExponent, xfsCDMSubDeviceCULDispensedCount,
xfsCDMSubDeviceCULPresentedCount,
        xfsCDMSubDeviceCULRetractedCount, xfsCDMSubDeviceCUPDispensedCount,
xfsCDMSubDeviceCUPPresentedCount, xfsCDMSubDeviceCUPRetractedCount }
      STATUS current
      DESCRIPTION
        "This trap indicates a change in the status of sub-device within
        a managed service."
      ::= { xfsTrapV2 203 }


    -- 1.3.6.1.4.1.16213.3.0.303
    xfsCDMResetDeviceCompleteTrap NOTIFICATION-TYPE
      OBJECTS { xfsCommonTrapResetDeviceResult, xfsCommonTrapManagedServiceName,
xfsCommonTrapManagedServiceClass, xfsCommonTrapManagedServiceClassName,
xfsCommonTrapManagedServiceType,
```

```
        xfsCommonTrapManagedServiceOid, xfsCommonTrapPhysicalDeviceName,
xfsCommonTrapDeviceVendor, xfsCommonTrapMIBVersion, xfsCommonTrapDate,
        xfsCommonTrapSPVersion, xfsCDMStatusDevice, xfsCDMStatusNumberSubDevices,
xfsCDMStatusSafeDoor, xfsCDMStatusDispenser,
        xfsCDMStatusIntermediateStacker, xfsCDMStatusShutterCenter,
xfsCDMStatusOutputPositionCenter, xfsCDMStatusTransportCenter,
xfsCDMStatusTransportStatusCenter,
        xfsCDMStatusShutterLeft, xfsCDMStatusOutputPositionLeft,
xfsCDMStatusTransportLeft, xfsCDMStatusTransportStatusLeft,
xfsCDMStatusShutterRight,
        xfsCDMStatusOutputPositionRight, xfsCDMStatusTransportRight,
xfsCDMStatusTransportStatusRight, xfsCDMStatusShutterTop,
xfsCDMStatusOutputPositionTop,
        xfsCDMStatusTransportTop, xfsCDMStatusTransportStatusTop,
xfsCDMStatusShutterBottom, xfsCDMStatusOutputPositionBottom,
xfsCDMStatusTransportBottom,
        xfsCDMStatusTransportStatusBottom, xfsCDMStatusShutterFront,
xfsCDMStatusOutputPositionFront, xfsCDMStatusTransportFront,
xfsCDMStatusTransportStatusFront,
        xfsCDMStatusShutterRear, xfsCDMStatusOutputPositionRear,
xfsCDMStatusTransportRear, xfsCDMStatusTransportStatusRear,
xfsCDMStatusExtraStatus,
        xfsCDMStatusGuidancePosLeft, xfsCDMStatusGuidancePosRight,
xfsCDMStatusGuidancePosCenter, xfsCDMStatusGuidancePosTop,
xfsCDMStatusGuidancePosBottom,
        xfsCDMStatusGuidancePosFront, xfsCDMStatusGuidancePosRear,
xfsCDMStatusDevicePosition, xfsCDMStatusPowerSaveRecoveryTime }
      STATUS current
      DESCRIPTION
        "This trap indicates the Reset action has complete and reports the
        state of the device after the reset."
      ::= { xfsTrapV2 303 }


  END

--
-- SMIv2_xfsCDM.mib
--
```

# 5. Appendix B - C-Header files

```
/******************************************************************************
*                                                                             *
* xfsmibcdm.h      CEN/XFS - MIB CDM                                          *
*                                                                             *
*               Version 3.10  --  Dec 14, 2010                                *
*                                                                             *
******************************************************************************/

#ifndef __inc_xfsmibcdm__h
#define __inc_xfsmibcdm__h

#ifdef __cplusplus
extern "C" {
#endif

/*********************************************************************
*  CDM Status #defines
*********************************************************************/
enum IxfsCDMDoorStatus
{
        xfsCDMDoorNotSupported          = 2,
        xfsCDMDoorOpen,
        xfsCDMDoorClosed,
        xfsCDMDoorUnknown               =6

} xfsCDMSafeDoorStatus;

enum IxfsCDMDispenserStatus
{
        xfsCDMDispenserOK               = 1,
        xfsCDMDispenserCUState,
        xfsCDMDispenserCUStop,
        xfsCDMDispenserCUUnknown

} xfsCDMDispenserStatus;

enum IxfsCDMIntermediateStackerStatus
{
        xfsCDMISEmpty                   = 1,
        xfsCDMISNotEmpty,
        xfsCDMISNotEmptyCust,
        xfsCDMISNotEmptyUnknown,
        xfsCDMISUnknown,
        xfsCDMISNotSupported

} xfsCDMIntermediateStackerStatus;

enum IxfsCDMShutterStatus
{
        xfsCDMShtClosed                 = 1,
        xfsCDMShtOpen,
        xfsCDMShtJammed,
        xfsCDMShtUnknown,
        xfsCDMShtNotSupported

} xfsCDMShutterStatus;

enum IxfsCDMOutputPositionStatus
{
        xfsCDMPSEmpty                   = 1,
        xfsCDMPSNotEmpty,
        xfsCDMPSUnknown,
        xfsCDMPSNotSupported

} xfsCDMOutputPositionStatus;

enum IxfsCDMTransportStatus
{
        xfsCDMTPOK                      = 1,
        xfsCDMTPInop,
        xfsCDMTPUnknown,
        xfsCDMTPNotSupported

} xfsCDMTransportStatus;
```

```
enum IxfsCDMTransportStateStatus
{
        xfsCDMTPStateEmpty              = 1,
        xfsCDMTPStateNotEmpty,
        xfsCDMTPStateNotEmptyCust,
        xfsCDMTPStateNotEmptyUnknown,
        xfsCDMTPStateNotSupported

} xfsCDMTransportStateStatus;

enum IxfsCDMDevicePositionStatus
{
        xfsCDMDeviceInPosition          = 1,
        xfsCDMDeviceNotInPosition,
        xfsCDMDevicePosUnknown,
        xfsCDMDevicePosNotSupported
} xfsCDMDevicePositionStatus;

enum IxfsCDMCapabilitiesDeviceType
{
        xfsCDMTellerBill                = 1,
        xfsCDMSelfServiceBill,
        xfsCDMTellerCoin,
        xfsCDMSelfServiceCoin

} xfsCDMCapabilitiesDeviceType;

/*****************************************************************
*  CDM SubDevice #defines
*****************************************************************/
enum IxfsCDMCUType
{
        xfsCDMTypeNA                    = 2,
        xfsCDMTypeRejectCassette,
        xfsCDMTypeBillCassette,
        xfsCDMTypeCoinCylinder,
        xfsCDMTypeCoinDispenser,
        xfsCDMTypeRetractCassette,
        xfsCDMTypeCoupon,
        xfsCDMTypeDocument,
        xfsCDMTypeRepContainer          = 12,
        xfsCDMTypeRecycling             = 13

} xfsCDMCUType;

enum IxfsCDMCUStatus
{
        xfsCDMCUStatusOK                = 1,
        xfsCDMCUStatusFull,
        xfsCDMCUStatusHigh,
        xfsCDMCUStatusLow,
        xfsCDMCUStatusEmpty,
        xfsCDMCUStatusInop,
        xfsCDMCUStatusMissing,
        xfsCDMCUStatusNoval,
        xfsCDMCUStatusNoref,
        xfsCDMCUStatusManip

} xfsCDMCUStatus;

/*****************************************************************
*                                                                *
*     MIB Variables for the Status Table                         *
*                                                                *
*****************************************************************/
#define xfsCDMStatusManagedServiceName          (1)
#define xfsCDMStatusNumberSubDevices            (2)
#define xfsCDMStatusDevice                      (3)
#define xfsCDMStatusSafeDoor                    (4)
#define xfsCDMStatusDispenser                   (5)
#define xfsCDMStatusIntermediateStacker         (6)

#define xfsCDMStatusShutterCenter               (7)
#define xfsCDMStatusOutputPositionCenter        (8)
#define xfsCDMStatusTransportCenter             (9)
#define xfsCDMStatusTransportStatusCenter       (10)
```

```
#define xfsCDMStatusShutterLeft                 (11)
#define xfsCDMStatusOutputPositionLeft          (12)
#define xfsCDMStatusTransportLeft               (13)
#define xfsCDMStatusTransportStatusLeft         (14)

#define xfsCDMStatusShutterRight                (15)
#define xfsCDMStatusOutputPositionRight         (16)
#define xfsCDMStatusTransportRight              (17)
#define xfsCDMStatusTransportStatusRight        (18)

#define xfsCDMStatusShutterTop                  (19)
#define xfsCDMStatusOutputPositionTop           (20)
#define xfsCDMStatusTransportTop                (21)
#define xfsCDMStatusTransportStatusTop          (22)

#define xfsCDMStatusShutterBottom               (23)
#define xfsCDMStatusOutputPositionBottom        (24)
#define xfsCDMStatusTransportBottom             (25)
#define xfsCDMStatusTransportStatusBottom       (26)

#define xfsCDMStatusShutterFront                (27)
#define xfsCDMStatusOutputPositionFront         (28)
#define xfsCDMStatusTransportFront              (29)
#define xfsCDMStatusTransportStatusFront        (30)

#define xfsCDMStatusShutterRear                 (31)
#define xfsCDMStatusOutputPositionRear          (32)
#define xfsCDMStatusTransportRear               (33)
#define xfsCDMStatusTransportStatusRear         (34)

#define xfsCDMStatusGuidancePosLeft             (35)
#define xfsCDMStatusGuidancePosRight            (36)
#define xfsCDMStatusGuidancePosCenter           (37)
#define xfsCDMStatusGuidancePosTop              (38)
#define xfsCDMStatusGuidancePosBottom           (39)
#define xfsCDMStatusGuidancePosFront            (40)
#define xfsCDMStatusGuidancePosRear             (41)
#define xfsCDMStatusDevicePosition              (42)
#define xfsCDMStatusPowerSaveRecoveryTime       (43)

#define xfsCDMStatusExtraStatus                 (100)

/*****************************************************************************
*                                                                            *
*     MIB Variables for the SubDevice Table                                  *
*                                                                            *
*****************************************************************************/
#define xfsCDMSubDeviceManagedServiceName       (1)
#define xfsCDMSubDeviceIndex                    (2)
#define xfsCDMSubDeviceCUType                   (3)
#define xfsCDMSubDeviceCUName                   (4)
#define xfsCDMSubDeviceCULUnitID                (5)
#define xfsCDMSubDeviceCUCurrencyID             (6)
#define xfsCDMSubDeviceCUValues                 (7)
#define xfsCDMSubDeviceCULInitialCount          (8)
#define xfsCDMSubDeviceCULCount                 (9)
#define xfsCDMSubDeviceCULRejectCount           (10)
#define xfsCDMSubDeviceCUMinimum                (11)
#define xfsCDMSubDeviceCULMaximum               (12)
#define xfsCDMSubDeviceCUAppLock                (13)
#define xfsCDMSubDeviceCULogicalStatus          (14)

#define xfsCDMSubDeviceCUPhysicalPositionName   (15)
#define xfsCDMSubDeviceCUPUnitID                (16)
#define xfsCDMSubDeviceCUPInitialCount          (17)
#define xfsCDMSubDeviceCUPCount                 (18)
#define xfsCDMSubDeviceCUPRejectCount           (19)
#define xfsCDMSubDeviceCUPMaximumCount          (20)
#define xfsCDMSubDeviceCUPhysicalStatus         (21)
#define xfsCDMSubDeviceCUHardwareSensor         (22)
#define xfsCDMSubDeviceCUExponent               (23)

#define xfsCDMSubDeviceCULDispensedCount        (24)
#define xfsCDMSubDeviceCULPresentedCount        (25)
#define xfsCDMSubDeviceCULRetractedCount        (26)
#define xfsCDMSubDeviceCUPDispensedCount        (27)
```

```
#define xfsCDMSubDeviceCUPPresentedCount        (28)
#define xfsCDMSubDeviceCUPRetractedCount        (29)

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

/*****************************************************************************
*                                                                            *
*     MIB Variables for the Capabilities Table                               *
*                                                                            *
*****************************************************************************/
#define xfsCDMCapabilitiesManagedServiceName        (1)
#define xfsCDMCapabilitiesDeviceType                (2)
#define xfsCDMCapabilitiesMaxDispenseItems          (3)
#define xfsCDMCapabilitiesCompoundDevice            (4)
#define xfsCDMCapabilitiesShutter                   (5)
#define xfsCDMCapabilitiesShutterControl            (6)
#define xfsCDMCapabilitiesRetractAreas              (7)
#define xfsCDMCapabilitiesRetractTransportActions   (8)
#define xfsCDMCapabilitiesRetractStackerActions     (9)
#define xfsCDMCapabilitiesSafedoor                  (10)
#define xfsCDMCapabilitiesCashbox                   (11)
#define xfsCDMCapabilitiesIntermediateStacker       (12)
#define xfsCDMCapabilitiesItemsTakenSensor          (13)
#define xfsCDMCapabilitiesOutputPositions           (14)
#define xfsCDMCapabilitiesMoveItems                 (15)
#define xfsCDMCapabilitiesExchangeTypes             (16)
#define xfsCDMCapabilitiesGuidancePosLeft           (17)
#define xfsCDMCapabilitiesGuidancePosRight          (18)
#define xfsCDMCapabilitiesGuidancePosCenter         (19)
#define xfsCDMCapabilitiesGuidancePosTop            (20)
#define xfsCDMCapabilitiesGuidancePosBottom         (21)
#define xfsCDMCapabilitiesGuidancePosFront          (22)
#define xfsCDMCapabilitiesGuidancePosRear           (23)
#define xfsCDMCapabilitiesPowerSaveControl          (24)
#define xfsCDMCapabilitiesPrepareDispense           (25)
#define xfsCDMCapabilitiesExtraCapability           (100)


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

#endif  /* __inc_xfsmibcdm__h */
```