CEN

CWA 15748-69

WORKSHOP

July 2008

AGREEMENT

ICS 35.240.50

English version

Extensions for Financial Services (XFS) interface specification - Release 3.10 - Part 69: Sensors and Indicators Unit Device Class Interface - Migration from Version 3.01 (CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties, the constitution of which is indicated in the foreword of this Workshop Agreement.

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Foreword

This CWA is revision 3.10 of the XFS interface specification.

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

This CWA was formally approved by the XFS Workshop meeting on 2007-11-29. 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.

The CWA is published as a multi-part document, consisting of:

- Part 1: Application Programming Interface (API) Service Provider Interface (SPI) Programmer's Reference
- Part 2: Service Classes Definition Programmer's Reference
- Part 3: Printer and Scanning Device Class Interface Programmer's Reference
- Part 4: Identification Card Device Class Interface Programmer's Reference
- Part 5: Cash Dispenser Device Class Interface Programmer's Reference
- Part 6: PIN Keypad Device Class Interface Programmer's Reference
- Part 7: Check Reader/Scanner Device Class Interface Programmer's Reference
- Part 8: Depository Device Class Interface Programmer's Reference
- Part 9: Text Terminal Unit Device Class Interface Programmer's Reference
- Part 10: Sensors and Indicators Unit Device Class Interface Programmer's Reference
- Part 11: Vendor Dependent Mode Device Class Interface Programmer's Reference
- Part 12: Camera Device Class Interface Programmer's Reference
- Part 13: Alarm Device Class Interface Programmer's Reference
- Part 14: Card Embossing Unit Device Class Interface Programmer's Reference
- Part 15: Cash-In Module Device Class Interface Programmer's Reference
- Part 16: Card Dispenser Device Class Interface Programmer's Reference
- Part 17: Barcode Reader Device Class Interface Programmer's Reference
- Part 18: Item Processing Module Device Class Interface- Programmer's Reference
- Parts 19 28: Reserved for future use
- Parts 29 through 47 constitute an optional addendum to this CWA. They define the integration between the SNMP standard and the set of status and statistical information exported by the Service Providers.
- Part 29: XFS MIB Architecture and SNMP Extensions Programmer's Reference
- Part 30: XFS MIB Device Specific Definitions Printer Device Class
- Part 31: XFS MIB Device Specific Definitions Identification Card Device Class
- Part 32: XFS MIB Device Specific Definitions Cash Dispenser Device Class
- Part 33: XFS MIB Device Specific Definitions PIN Keypad Device Class
- Part 34: XFS MIB Device Specific Definitions Check Reader/Scanner Device Class
- Part 35: XFS MIB Device Specific Definitions Depository Device Class
- Part 36: XFS MIB Device Specific Definitions Text Terminal Unit Device Class
- Part 37: XFS MIB Device Specific Definitions Sensors and Indicators Unit Device Class
- Part 38: XFS MIB Device Specific Definitions Camera Device Class
- Part 39: XFS MIB Device Specific Definitions Alarm Device Class
- Part 40: XFS MIB Device Specific Definitions Card Embossing Unit Class

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

Part 42: Reserved for future use.

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

Part 44: XFS MIB Application Management

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

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

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

Parts 48 - 60 are reserved for future use.

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

Part 62: Printer 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 (CWA 14050) to Version 3.10 (this CWA) - Programmer's Reference

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

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

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

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

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

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

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

Part 72: Alarm Device Class Interface - Migration from Version 3.0 (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 (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/isss/Workshop/XFS.

The information in this document represents the Workshop's current views on the issues discussed as of the date of publication. It is furnished for informational purposes only and is subject to change without notice. CEN/ISSS makes no warranty, express or implied, with respect to this document.

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

1. Migration Information

XFS 3.10 has been designed to minimize backwards compatibility issues. This document highlights the changes made to the SIU device class between version 3.01 and 3.10, by highlighting the additions and deletions to the text.

2. Sensors and Indicators Unit

This specification describes the functionality of the services provided by the Sensors and Indicators Unit (SIU) services under WOSA/XFS, by defining the service-specific commands that can be issued, using the WFSGetInfo, WFSAsyncGetInfo, WFSAsyncExecute functions.

This section describes the functions provided by a generic Sensors and Indicators Unit service. This service allows for the operation of the following categories of ports:

- Door sensors, such as cabinet, safe or vandal shield doors.
- · Alarm sensors, such as tamper, seismic or heat sensors.
- · Generic sensors, such as proximity or ambient light sensors.
- · Key switch sensors, such as the ATM operator switch.
- Lamp/sign indicators, such as fascia light or audio indicators.
- Auxiliary indicators.
- <u>Enhanced Audio Controller</u>, for use by the partially sighted.

In self-service devices, the sensors and indicators unit is capable of dealing with external sensors, such as door switches, locks, alarms and proximity sensors, as well as external indicators, such as turning on lamps or heating.

Deleted: jack device

2.1 Enhanced Audio Controller Overview

The Enhanced Audio Controller is provided to support the requirements of the American Disabilities Act. The Enhanced Audio Controller device controls how private and public audio are broadcast when a headset is inserted into/removed from the Audio Jack and when the Handset is off-hook/on-hook. In the following 'Privacy Device' is used to refer to either the headset or handset. This device allows audio feedback publicly and/or via the consumer's Privacy Device (vendor hardware permitting). For privacy, the device allows input to only be directed to the consumers' Privacy Device. In 'auto' and 'semi-auto' mode (and where the vendor's hardware allows), public transmission of audio can be automatically inhibited when the consumer's Privacy Device is activated. In 'auto' mode (and where the vendor's hardware allows), public transmission of audio can be automatically re-activated when the consumer's Privacy Device is deactivated.

The Enhanced Audio Controller provides the application with the following information:

- If a Privacy Device is activated (headset connected/handset off the hook).
- Whether the audio output is to the speakers or to the Privacy Device.
- Privacy/public mode: <u>i.e. whether the activation of the Privacy Device</u> automatically switches public audio on or off.

The device is managed by the sensors WFS_SIU_ENHANCEDAUDIO, WFS_SIU_HANDSETSENSOR, and an auxiliary WFS_SIU_ENHANCEDAUDIOCONTROL.

The WFS SIU ENHANCEDAUDIO sensor is used to:

- Provide information on the presence of the Audio Jack device.
- To report whether a headset is currently attached.
- Report state change events when a headset is inserted or removed.

The WFS SIU HANDSETSENSOR sensor is used to:

- Provide information on the presence of the handset device.
- To report whether a handset is currently off the hook.
- Report state change events when a handset is taken off the hook or put on the hook.

The WFS_SIU_ENHANCEDAUDIOCONTROL auxiliary is used to control the behavior of the Enhanced Audio Controller. It allows the application to:

- Set the mode of the Enhanced Audio Controller auto mode, semi-auto mode or manual mode.
- Set the state of the Enhanced Audio Controller- public or private.

There are no events associated with this auxiliary.

A full description of auto, semi-auto and manual mode, as well as public and private states is contained in the following pages.

The following describes the device behavior during auto and manual mode.

Auto Mode

In auto mode, when a consumer <u>activates</u> the <u>Privacy Device</u>, the audio is automatically directed to the <u>Privacy Device</u> and the audio is no longer sent to the speakers. When the <u>Privacy Device</u> is <u>deactivated</u>, the audio is redirected to the speakers. The following state diagram completely describes the behavior of the device in auto mode.

State Description

Auto Mode Public Audio output is played through the public speakers only.

Auto Mode Private Audio is played through the consumer's Privacy Device only.

Deleted: headset is plugged into

Deleted: jack

Deleted: headset

Deleted: Jack

Deleted: Jack -

Deleted: headset is removed

Deleted: consumer headset

Deleted: consumers' personal headset

Deleted: headset

Deleted: Jack device

Deleted: Jack

Deleted: headset is plugged in to the audio jack

Deleted: headset is unplugged from the audio jack

Deleted: The audio jack

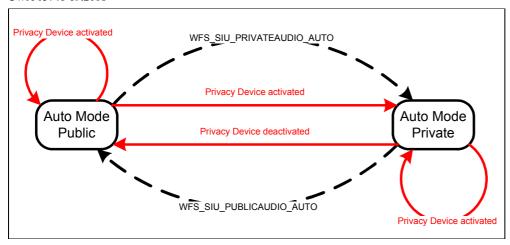
Deleted: the headset is present

Deleted: headset

Deleted: e. Whether insertion

Deleted: a headset

Deleted: a sensor



Auto Mode State Diagram 1

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_PORT or WFS_CMD_SIU_SET_AUXILIARY for the WFS_SIU_ENHANCEDAUDIOCONTROL auxiliary with values of WFS_SIU_PRIVATEAUDIO_AUTO or WFS_SIU_PUBLICAUDIO_AUTO.

Note that some vendor implementations may not have the ability to allow the application to command the Service Provider to transition between public and private states. To determine if this feature is available, the application can query the field <code>fwAuxiliaries[WFS_SIU_ENHANCEDAUDIOCONTROL]</code> in the WFSSIUCAPS structure.

Semi-Auto Mode

This mode is required to ensure customer sensitive information is not broadcast via the public speakers when the consumer's <u>Privacy Device</u> is deliberately or otherwise <u>deactivated</u>.

In semi-auto mode, when a consumer's Privacy Device is activated, the audio is automatically directed to the Privacy Device and the audio is no longer sent to the speakers. When the Privacy Device is deactivated the audio remains directed at the existing interface (i.e. not the speakers). If required, the application must explicitly return the device to its public state if audio is required via the speakers. The following state diagram completely describes the behavior of the device in auto mode.

State Description

Semi-Auto Mode Public Semi-Auto Mode Private Audio output is played through the public speakers only. Audio is played through the consumer's Privacy Device only.

Privacy Device deactivated

WFS_SIU_PRIVATEAUDIO_SEMI_AUTO

Privacy Device activated

Mode
Public

WFS_SIU_PUBLICAUDIO_SEMI_AUTO

Privacy Device deactivated

Mode
Privacy Device activated

Privacy Device deactivated

Privacy Device deactivated

Privacy Device deactivated

Privacy Device deactivated

Deleted: headset

Deleted: headset

Deleted: consumer headset

Deleted: plugged into the jack

Deleted: removed

Deleted: headset

Deleted: unplugged

Deleted: yia

Deleted: jack

Deleted: consumer headset

Semi-Auto Mode State Diagram 2

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_PORT or WFS_CMD_SIU_SET_AUXILIARY for the WFS_SIU_ENHANCEDAUDIOCONTROL auxiliary with values of WFS_SIU_PRIVATEAUDIO_AUTO or WFS_SIU_PUBLICAUDIO_AUTO.

Manual Mode

In manual mode, when a <u>consumer's Privacy Device</u> is <u>activated</u>, the <u>audio remains directed</u> at the <u>existing interface</u> (i.e. the speaker), The application must explicitly change to the other mode, if required. Note that the application must explicitly return the device to its public state if audio is required via the speakers. The following state diagram completely describes the behavior of the device in manual mode.

Deleted: consumer headset

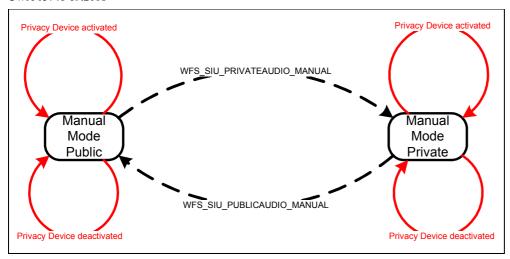
Deleted: plugged into the jack

State Description

Manual Mode Public Audio output is played through the public speakers only.

Manual Mode Private Audio is played through the consumer's Privacy Device only.

Deleted: consumer headset



Manual Mode State Diagram 1

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_PORT or WFS_CMD_SIU_SET_AUXILIARY for the WFS_SIU_ENHANCEDAUDIOCONTROL auxiliary with values of WFS_SIU_PRIVATEAUDIO_MANUAL or WFS_SIU_PUBLICAUDIO_MANUAL.

Inter-Mode Behavior

The values described in the previous sections (_AUTO, _SEMI_AUTO, and _MANUAL, etc) can also be used to move from one mode to another. This will then change the mode of the device.

Notes:

- Note that if a vendor device does not support auto mode, or semi-auto mode then the
 WFS_EXEE_SIU_PORT_ERROR event is received on any attempt to call WFS_CMD_SIU_SET_PORT,
 etc. with the WFS_SIU_PUBLICAUDIO_AUTO, WFS_PRIVATEAUDIO_AUTO,
 WFS_SIU_PUBLICAUDIO_SEMI_AUTO, and WFS_PRIVATEAUDIO_SEMI_AUTO settings. The
 same event is generated if calls to change the mode to manual are received when the vendor device does
 not support manual mode.
- The existing WFS_SIU_VOLUME auxiliary can be used to control the volume setting of any audio
 delivered to a connected Privacy Device, as well as the speakers. Independent volume control of the
 speakers and Privacy Device is not supported.

Any 'beep' tones generated by the PINPAD, etc will be fed to a connected <u>Privacy Device</u> (vendor hardware permitting).

Deleted: headset

Deleted: headset

Deleted: headset

3. References

1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference Revision 3_{Ψ}

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4. Info Commands

4.1 WFS_INF_SIU_STATUS

Description This command reports the full range of information available, including the information that is

provided by the Service Provider.

Input Param None.

Output Param LPWFSSIUSTATUS lpStatus;

fwDevice

Specifies the state of the Sensors and Indicators Unit device as one of the following flags:

Value	Meaning
WFS_SIU_DEVONLINE	The device is online (i.e. powered on and operable).
WFS_SIU_DEVOFFLINE	The device is offline (e.g. the operator has taken the device offline by turning a switch or pulling out the device).
WFS_SIU_DEVPOWEROFF	The device is powered off or physically not connected.
WFS_SIU_DEVNODEVICE	There is no device intended to be there; e.g. this type of self service machine does not contain such a device or it is internally not configured.
WFS_SIU_DEVHWERROR	The device is inoperable due to a hardware error.
WFS_SIU_DEVUSERERROR	The device is present but a person is preventing proper operation.
WFS_SIU_DEVBUSY	The device is busy and unable to process an execute command at this time.
WFS_SIU_DEVFRAUDATTEMPT	The device is present but has detected a fraud attempt.

fwSensors [...]

Specifies the state of the sensors. A number of sensor types are defined below. Vendor specific sensors are defined starting from the end of the array. The maximum sensor index is WFS_SIU_SENSORS_MAX.

fwSensors [WFS SIU OPERATORSWITCH]

Specifies the state of the Operator Switch(es). This switch is used to tell the terminal if an operator/supervisor wants to change the state from Run to Operators/Supervisors mode or vice versa. The Run mode is used for normal consumer operations/transactions. The Maintenance mode is used when replenishing the terminal. The Supervisor mode is used when operating the terminal for service and testing. Supervisor mode has higher priority than Maintenance mode. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_RUN	The switch is in Run mode.
WFS_SIU_MAINTENANCE	The switch is in Maintenance mode.
WFS_SIU_SUPERVISOR	The switch is in Supervisor mode.

fwSensors [WFS_SIU_TAMPER]

Specifies the state of the Tamper Sensor for the terminal. This sensor indicates whether the terminal has been tampered with (such as a burglar attempt). Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF	There is no indication of a tampering
	attempt.
WFS_SIU_ON	There has been a tampering attempt.

fwSensors [WFS SIU INTTAMPER]

Specifies the state of the Internal Tamper Sensor for the internal alarm. This sensor indicates whether the internal alarm has been tampered with (such as a burglar attempt). Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF	There is no indication of a tampering
	attempt.
WFS_SIU_ON	There has been a tampering attempt.

fwSensors [WFS_SIU_SEISMIC]

Specifies the state of the Seismic Sensor. This sensor indicates whether the terminal has been shaken (e.g. burglar attempt or seismic activity). Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF	The seismic activity has not been high enough to trigger the sensor.
WFS_SIU_ON	The seismic or other activity has triggered the sensor.
	the sensor.

fwSensors [WFS_SIU_HEAT]

Specifies the state of the Heat Sensor. This sensor is triggered by excessive heat (fire) near the terminal. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF	The heat has not been high enough to trigger
	the sensor.
WFS_SIU_ON	The heat has been high enough to trigger the
	sensor.

fwSensors [WFS_SIU_PROXIMITY]

Specifies the state of the Proximity Sensor. This sensor is triggered by movements around the terminal. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_PRESENT	The sensor is showing that there is someone present at the terminal.
WFS_SIU_NOT_PRESENT	The sensor can not sense any people around
	the terminal.

fwSensors [WFS_SIU_AMBLIGHT]

Specifies the state of the Ambient Light Sensor. This sensor indicates the level of ambient light around the terminal. <u>Interpretation of this value is vendor-specific and therefore it is not guaranteed to report a consistent actual ambient light level across different vendor hardware.</u> Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_VERY_DARK	The level of light is: very dark.
WFS_SIU_DARK	The level of light is: dark.

WFS_SIU_MEDIUM_LIGHT

WFS_SIU_LIGHT WFS_SIU_VERY_LIGHT The level of light is: medium light. The level of light is: light. The level of light is: very light.

fwSensors [WFS SIU ENHANCEDAUDIO]

Specifies the presence or <u>absence</u> of <u>a consumer's</u> headphone connected to the Audio Jack. Specified as one of the following flags:

Deleted: otherwise **Deleted:** consumer

 Value
 Meaning

 WFS_SIU_NOT_AVAILABLE
 The status is not available.

 WFS_SIU_PRESENT
 There is a headset connected.

 WFS_SIU_NOT_PRESENT
 There is no headset connected.

Deleted: There

Deleted: no Audio Jack

fwSensors [WFS SIU BOOT SWITCH]

Specifies the state of the <u>Boot Switch Sensor</u>. This sensor is triggered whenever the terminal is about to be rebooted due to a delayed effect switch. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_ON	The terminal is about to be rebooted.
WFS_SIU_OFF	The sensor has not been triggered.

fwSensors [WFS_SIU_CONSUMER_DISPLAY]

Specifies the state of the Consumer Display. Specified as one of the following flags:

Value	Meaning
WFS SIU NOT AVAILABLE	The status is not available.
WFS_SIU_OFF	The Consumer Display is switched off.
WFS SIU ON	The Consumer Display is in a good state and
	is turned on.
WFS_SIU_DISPLAY_ERROR	The Consumer Display is in an error state.

fwSensors [WFS SIU OPERATOR CALL BUTTON]

Specifies the state of the Operator Call Button as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS SIU OFF	The Operator Call Button is released (not
	pressed).
WFS_SIU_ON	The Operator Call Button is being pressed.

fwSensors [WFS_SIU_HANDSETSENSOR]

Specifies the state of the Handset, which is a device similar to a telephone receiver. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF_THE_HOOK	The Handset is off the hook.
WFS SIU ON THE HOOK	The Handset is on the hook.

fwSensors [WFS SIU GENERALINPUTPORT]

Specifies the state of the vendor dependent General-Purpose Input Ports as a bitmap. Before making use of the General-Purpose Input Ports the vendor should examine if the required functionality is covered in this or other device classes as a vendor independent feature. Each bit of this value represents one General-Purpose Input Port and is specified as one of the following binary values:

Value	Meaning
0	The General-Purpose Input Port is turned
	<u>off.</u>
1	The General-Purpose Input Port is turned on.

The following flags can be used to reference each General-Purpose Input Port.

Value	Meaning
WFS_SIU_GPP1	General-Purpose Input Port 1.
WFS_SIU_GPP2	General-Purpose Input Port 2.

fwDoors [...]

Specifies the state of the doors. A number of door types are defined below. Vendor specific doors are defined starting from the end of the array. The maximum door index is WFS SIU DOORS MAX.

fwDoors [WFS_SIU_CABINET]

Specifies a summary of the states of the Cabinet Doors. A more detailed status may be available through the door specific state for e.g. WFS_SIU_CABINET_REAR. Cabinet Doors are doors that open up for consumables, and hardware that does not have to be in a secure place. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_CLOSED	All Cabinet Doors are closed.
WFS_SIU_OPEN	At least one of the Cabinet Doors is open.
WFS_SIU_LOCKED	All Cabinet Doors are closed and locked.
WFS_SIU_BOLTED	All Cabinet Doors are closed, locked and
	bolted.

fwDoors [WFS SIU SAFE]

Specifies the state of the Safe Doors. Safe Doors are doors that open up for secure hardware, such as the note dispenser, the security device, etc. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_CLOSED	The Safe Doors are closed.
WFS_SIU_OPEN	At least one of the Safe Doors is open.
WFS_SIU_LOCKED	The Safe Doors are closed and locked.
WFS_SIU_BOLTED	The Safe Doors are closed, locked and
	bolted.

fwDoors [WFS_SIU_VANDALSHIELD]

Specifies the state of the Vandal Shield. The Vandal Shield is a door that open up for consumer access to the terminal. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_CLOSED	The Vandal Shield is closed.
WFS_SIU_OPEN	The Vandal Shield is open.
WFS_SIU_LOCKED	The Vandal Shield is closed and locked.
WFS_SIU_SERVICE	The Vandal Shield is in service position.
WFS_SIU_KEYBOARD	The Vandal Shield position permits access to
	the keyboard.
WFS_SIU_AJAR	The Vandal Shield is ajar.
WFS_SIU_JAMMED	The Vandal Shield is jammed.

fwDoors [WFS_SIU_CABINET_FRONT]

Specifies the overall state of the Front Cabinet Doors (the overall status for all cabinet doors is available through the status for WFS_SIU_CABINET). The front is defined as the side facing the customer/consumer. Cabinet Doors are doors that open up for consumables, and hardware that does not have to be in a secure place. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_CLOSED	All Front Cabinet Doors are closed.
WFS_SIU_OPEN	At least one of the Front Cabinet Doors is
	open.
WFS_SIU_LOCKED	All Front Cabinet Doors are closed and
	locked.
WFS_SIU_BOLTED	All Front Cabinet Doors are closed, locked
	and bolted.

fwDoors [WFS SIU CABINET REAR]

Specifies the overall state of the Rear Cabinet Doors (the overall status for all cabinet doors is available through the status for WFS_SIU_CABINET). The rear is defined as the side opposite the side facing the customer/consumer. Cabinet Doors are doors that open up for consumables, and hardware that does not have to be in a secure place. Specified as one of the following flags:

Value	Meaning
WFS SIU NOT AVAILABLE	The status is not available.
WFS SIU CLOSED	All Rear Cabinet Doors are closed.
WFS SIU OPEN	At least one of the Rear Cabinet Doors is
	open.
WFS_SIU_LOCKED	All Rear Cabinet Doors are closed and
	locked.
WFS SIU BOLTED	All Rear Cabinet Doors are closed, locked
	and bolted.

fwDoors [WFS SIU CABINET LEFT]

Specifies the overall state of the Left Cabinet Doors (the overall status for all cabinet doors is available through the status for WFS_SIU_CABINET). The left is defined as the side to the left as seen by the customer/consumer. Cabinet Doors are doors that open up for consumables, and hardware that does not have to be in a secure place. Specified as one of the following flags:

Value	Meaning
WFS SIU NOT AVAILABLE	The status is not available.
WFS_SIU_CLOSED	All Left Cabinet Doors are closed.
WFS SIU OPEN	At least one of the Left Cabinet Doors is
	open.
WFS SIU LOCKED	All Left Cabinet Doors are closed and
	locked.
WFS SIU BOLTED	All Left Cabinet Doors are closed, locked
	and bolted.

fwDoors [WFS SIU CABINET RIGHT]

Specifies the overall state of the Right Cabinet Doors (the overall status for all cabinet doors is available through the status for WFS_SIU_CABINET). The right is defined as the side to the right as seen by the customer/consumer. Cabinet Doors are doors that open up for consumables, and hardware that does not have to be in a secure place. Specified as one of the following flags:

Value	Meaning
WFS SIU NOT AVAILABLE	The status is not available.
WFS SIU CLOSED	All Right Cabinet Doors are closed.
WFS_SIU_OPEN	At least one of the Right Cabinet Doors is
	open.
WFS_SIU_LOCKED	All Right Cabinet Doors are closed and
	locked.
WFS_SIU_BOLTED	All Right Cabinet Doors are closed, locked
	and bolted.

fwIndicators [...]

Specifies the state of the indicators. A number of indicator types are defined below. Vendor specific indicators are defined starting from the end of the array. The maximum indicator index is WFS_SIU_INDICATORS_MAX.

fwIndicators [WFS_SIU_OPENCLOSE]

Specifies the state of the Open/Closed Indicator as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_CLOSED	The terminal is closed for a consumer.
WFS_SIU_OPEN	The terminal is open to be used by a
	consumer.

fwIndicators [WFS_SIU_FASCIALIGHT]

Specifies the state of the Fascia Light as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF	The Fascia Light is turned off.
WFS_SIU_ON	The Fascia Light is turned on.

fwIndicators [WFS SIU AUDIO]

Specifies the state of the Audio Indicator as one of the following flags of type A and B, or as WFS_SIU_CONTINUOUS in combination with one of the flags of type B: Interpretation of this value is vendor-specific and therefore it is not possible to guarantee a consistent actual sound pattern across different vendor hardware.

Value	Meaning	Type
WFS SIU NOT AVAILABLE	The status is not available.	A
WFS_SIU_OFF	The Audio Indicator is turned off.	A
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key click signal.	В
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an exclamation signal.	В
WFS_SIU_WARNING	The Audio Indicator sounds a warning signal.	В
WFS_SIU_ERROR	The Audio Indicator sounds an error signal.	В
WFS_SIU_CRITICAL	The Audio Indicator sounds a critical signal.	В
WFS_SIU_CONTINUOUS	The Audio Indicator sound is turned on continuously.	C

fwIndicators [WFS SIU HEATING]

Specifies the state of the Internal Heating as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF	The <u>Internal</u> Heating is turned off.
WFS_SIU_ON	The <u>Internal</u> Heating is turned on.

fwIndicators [WFS_SIU_CONSUMER_DISPLAY_BACKLIGHT]

Specifies the state of the Consumer Display Backlight as one of the following:

Value	Meaning
WFS SIU NOT AVAILABLE	The status is not available.
WFS SIU OFF	The Consumer Display Backlight is turned
	off.
WFS_SIU_ON	The Consumer Display Backlight is turned
	on.

fwIndicators [WFS_SIU_SIGNAGEDISPLAY]

Specifies the state of the Signage Display. The Signage Display is a lighted banner or marquee that can be used to display information or an advertisement. Any dynamic data displayed must be loaded by a means external to the Service Provider. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS SIU OFF	The Signage Display is turned off.
WFS_SIU_ON	The Signage Display is turned on.

fwIndicators [WFS_SIU_TRANSINDICATOR]

Specifies the state of the Transaction Indicators as a bitmap. Each bit of this value represents one Transaction Indicator and is specified as one of the following binary values:

Value	Meaning
0	The Transaction Indicator is turned off.
1	The Transaction Indicator is turned on.

The following flags can be used to reference each Transaction Indicator.

Value	Meaning
WFS_SIU_LAMP1	Transaction Indicator 1.
WFS_SIU_LAMP2	Transaction Indicator 2.
 WFS SIU LAMP16	Transaction Indicator 16.

fwIndicators [WFS_SIU_GENERALOUTPUTPORT]

Specifies the state of the vendor dependent General-Purpose Output Ports as a bitmap. Before making use of the General-Purpose Output Ports the vendor should examine if the required functionality is covered in this or other device classes as a vendor independent feature. Each bit of this value represents one General-Purpose Output Port and is specified as one of the following binary values:

Value	Meaning
0	The General-Purpose Output Port is turned
	off.
1	The General-Purpose Output Port is turned
	on.

The following flags can be used to reference each General-Purpose Output Port.

Value	Meaning	
WFS_SIU_GPP1	General-Purpose Output Port 1.	
WFS_SIU_GPP2	General-Purpose Output Port 2.	
···· WFS SIU GPP16	General-Purpose Output Port 16.	

fwAuxiliaries [...]

Specifies the state of the auxiliary indicators. A number of auxiliary indicator types are defined below. Vendor specific auxiliaries are defined starting from the end of the array. The maximum auxiliary index is WFS_SIU_AUXILIARIES_MAX.

fwAuxiliaries [WFS SIU VOLUME]

Specifies the value of the Volume Control. The value of Volume Control is defined in an interval from 1 to 1000 where 1 is the lowest volume level and 1000 is the highest volume level. The interval is defined in logarithmic steps, e.g. a volume control on a radio. Note: The Volume Control field is handled as unsigned short. Interpretation of this value is vendor-specific and therefore it is not possible to guarantee a consistent actual volume level across different vendor hardware.

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
1,, 1000	The volume level. This field is handled as an
	unsigned short.

fwAuxiliaries [WFS SIU UPS]

Specifies the state of the Uninterruptible Power Supply device as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	The status is not available.	A
WFS_SIU_AVAILABLE	The UPS is available.	В
WFS_SIU_LOW	The charge level of the UPS is	В
	low.	
WFS_SIU_ENGAGED	The UPS is engaged.	В
WFS_SIU_POWERING	The UPS is powering the system.	В
	The main power supply is off.	
WFS_SIU_RECOVERED	The UPS was engaged when the	В
	main power went off.	

Deleted: There is no UPS

fwAuxiliaries[WFS SIU REMOTE STATUS MONITOR]

Specifies the state of the Remote Status Monitor device (which uses LEDs for displaying the status of the system). Possible states are WFS_SIU_NOT_AVAILABLE or a combination of one of each flag of type B, C and D:

Value	Meaning	Туре		
WFS_SIU_NOT_AVAILABLE	The status is not available.	A		Deleted: of the device
WFS SIU GREEN LED ON	The green LED is on.	В	•	
WFS_SIU_GREEN_LED_OFF	The green LED is off.	В		
WFS SIU AMBER LED ON	The amber LED is on.	C		
WFS_SIU_AMBER_LED_OFF	The amber LED is off.	C		
WFS SIU RED LED ON	The red LED is on.	D		
WFS_SIU_RED_LED_OFF	The red LED is off.	D		
fwAuxiliaries[WFS_SIU_AUDIBLE_ALARM] Species the state of the Audible Alarm device as on	e of the following flags:			
Value	Meaning			
WFS_SIU_NOT_AVAILABLE	The status is not available.			
WFS_SIU_OFF	The Alarm is turned off.			
WFS_SIU_ON	The Alarm is turned on.			
fwAuxiliaries [WFS_SIU_ENHANCEDAUDIOCO]				
Specifies the state of the Enhanced Audio Controlle				Deleted: Jack
how private and public audio are broadcast when the				
audio jack and when the handset is off-hook/on-hoo				
refer to either the headset or handset. The Enhanced	d Audio Controller state is specif	ied as one of		
the following flags:				
Value	Meaning			
WFS_SIU_NOT_AVAILABLE	The status is not available.		l	Deleted: There
WFS_SIU_PUBLICAUDIO_MANUAL	The Enhanced Audio Controll	er is in manual		
WIS_SIC_I OBEIC/IODIO_W/MOTE	mode and is in the public state	(i e audio	·	Deleted: no Audio Jack
	will be played through speaker		<u> </u>	Controller
	a <u>Privacy Device</u> (headset <u>con</u>		` `	Deleted: Jack
	off-hook) will have no impact,			Deleted:). Connecting
	will remain through the speake		1	
	will be directed to the Privacy			Deleted: headset
WFS_SIU_PUBLICAUDIO_AUTO	The Enhanced Audio Controlle			
	mode and is in the public state			Deleted: Jack
	will be played through speaker			
	Privacy Device is activated, th			Deleted: headset
	go to the private state.			
WFS_SIU_PUBLICAUDIO_SEMI_AUTO	The Enhanced Audio Controlle	er is in semi-		Deleted: connected
	auto mode and is in the public			Deleted: Jack
	audio will be played through s			
	When a Privacy Device is active	vated, the		Deleted: headset
	device will go to the private sta	ate.		Deleted: connected
WFS_SIU_PRIVATEAUDIO_MANUAL	The Enhanced Audio Controll	<u>er</u> is in manual		
	mode and is in the private state	e (i.e. audio		Deleted: Jack
	will be played only through a	connected		
	Privacy Device). In private mo			Deleted: headset)
	transmitted through the speake			
WFS_SIU_PRIVATEAUDIO_AUTO	The Enhanced Audio Controll			Deleted: In private mode, no
	mode and is in the private state			audio is transmitted through the
	will be played only through a c			speakers.
	Privacy Device). In private mo		Į `	Deleted: Jack
	transmitted through the speake		17.5	Deleted: headset).
	Privacy Device is deactivated		ļ	Deleted: headset
	disconnected/handset on-hook	, the device		Deleteu. Headset
	will go to the public state.			

WFS SIU PRIVATEAUDIO SEMI AUTO

The Enhanced Audio Controller is in semiauto mode and is in the private state (i.e. audio will be played only through a connected Privacy Device). In private mode, no audio is transmitted through the speakers. When a Privacy Device is deactivated, the device will remain in the private state.

Deleted: Jack

Deleted: headset).

Deleted: headset

Deleted: disconnected

fwGuidLights [...]

Specifies the state of the Guidance Light Indicators. A number of guidance light types are defined below. Vendor specific guidance lights are defined starting from the end of the array. The maximum guidance light index is WFS_SIU_GUIDLIGHTS_MAX. All member elements in this array are specified as one of the following flags. Interpretation of this value is vendor-specific and therefore it is not possible to guarantee a consistent actual flash rate across different vendor hardware.

WFS_SIU_NOT_AVAILABLE The status is not available. WFS_SIU_OFF The light is turned off.		Meaning	Value	
WFS_SIU_OFF The light is turned off.		E The status	WFS_SIU_NOT_AV	
		The light is	WFS_SIU_OFF	
WFS_SIU_SLOW_FLASH The light is blinking slowly.		The light is	WFS_SIU_SLOW_F	
WFS_SIU_MEDIUM_FLASH The light is blinking medium frequency.	y.	The light is	WFS_SIU_MEDIUM	
WFS_SIU_QUICK_FLASH The light is blinking quickly.		The light is	WFS_SIU_QUICK_F	
WFS_SIU_CONTINUOUS The light is turned on continuous (steady).	ly).	The light is	WFS_SIU_CONTINU	

fwGuidLights [WFS SIU CARDUNIT]

Specifies the state of the Guidance Light Indicator on the Card Unit (IDC).

fwGuidLights [WFS SIU PINPAD]

Specifies the state of the Guidance Light Indicator on the PIN pad unit.

fwGuidLights [WFS SIU NOTESDISPENSER]

Specifies the state of the Guidance Light Indicator on the note dispenser unit.

fwGuidLights [WFS SIU COINDISPENSER]

Specifies the state of the Guidance Light Indicator on the coin dispenser unit.

fwGuidLights [WFS_SIU_RECEIPTPRINTER]

Specifies the state of the Guidance Light Indicator on the receipt printer unit.

fwGuidLights [WFS_SIU_PASSBOOKPRINTER]

Specifies the state of the Guidance Light Indicator on the passbook printer unit.

fwGuidLights [WFS_SIU_ENVDEPOSITORY]

Specifies the state of the Guidance Light Indicator on the envelope depository unit.

fwGuidLights [WFS_SIU_CHEQUEUNIT]

Specifies the state of the Guidance Light Indicator on the cheque processing unit.

fwGuidLights [WFS_SIU_BILLACCEPTOR]

Specifies the state of the Guidance Light Indicator on the bill acceptor unit.

fwGuidLights [WFS SIU ENVDISPENSER]

Specifies the state of the Guidance Light Indicator on the envelope dispenser unit.

fwGuidLights [WFS_SIU_DOCUMENTPRINTER]

Specifies the state of the Guidance Light Indicator on the document printer.

fwGuidLights [WFS_SIU_COINACCEPTOR]

Specifies the state of the Guidance Light Indicator on the coin acceptor.

fwGuidLights [WFS SIU SCANNER]

Specifies the state of the Guidance Light Indicator on the scanner unit.

lpszExtra

Pointer to a list of vendor-specific, or any other extended, information. The information is returned as a series of "key=value" strings so that it is easily extensible by Service Providers. Each string is null-terminated, with the final string terminating with two null characters. An empty list may be indicated by either a NULL pointer or a pointer to two consecutive null characters.

 $\underline{usPowerSaveRecoveryTime}$

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

Error Codes

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

Comments

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

In the case where the value to be reported in a status field cannot be determined because of a communications failure, then the status for that field will be reported as <a href="https://www.wfs_siu_not_avail.eng-fiv.eng-field-eng-field

4.2 WFS_INF_SIU_CAPABILITIES

Description This command is used to retrieve the capabilities of the Sensors and Indicators Unit.

Input Param None

Output Param LPWFSSIUCAPS lpCaps;

```
typedef struct _wfs_siu_caps
      WORD
                       wClass;
      WORD
                        fwType;
                        fwSensors [WFS SIU SENSORS SIZE];
      WORD
                       fwDoors [WFS_SIU_DOORS_SIZE];
fwIndicators [WFS_SIU_INDICATORS_SIZE];
      WORD
      WORD
      WORD
                        fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
                        fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
      WORD
     LPSTR
                        lpszExtra;
                       bPowerSaveControl;
      BOOL
     } WFSSIUCAPS, *LPWFSSIUCAPS;
```

wClass

Specifies the logical service class as WFS_SERVICE_CLASS_SIU.

fwTvne

Specifies the type of sensors and indicators supported by this device as a combination of the following flags:

Value	Meaning
WFS_SIU_SENSORS	The device supports input sensors.
WFS_SIU_DOORS	The device support door sensors.
WFS_SIU_INDICATORS	The device supports indicators.
WFS_SIU_AUXILIARIES	The device supports auxiliary indicators.
WFS_SIU_GUIDLIGHTS	The device supports guidance lights.

fwSensors [...]

Specifies which sensors are available, and if so, which states they can take. A number of sensor types are defined below. Vendor specific sensors are defined starting from the end of the array. The maximum sensor index is WFS_SIU_SENSORS_MAX.

fwSensors [WFS_SIU_OPERATORSWITCH]

Specifies whether the Operator Switch is available, and if so, which states it can take. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Operator Switch available.	A
WFS_SIU_RUN	The switch can be set in Run mode.	В
WFS_SIU_MAINTENANCE	The switch can be set in Maintenance mode.	В
WFS_SIU_SUPERVISOR	The switch can be set in Supervisors mode.	В

fwSensors [WFS SIU TAMPER]

Specifies whether the Tamper Sensor for the terminal is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Tamper Sensor available.
WFS_SIU_AVAILABLE	The Tamper Sensor is available.

fwSensors [WFS SIU INTTAMPER]

Specifies whether the Internal Tamper Sensor for internal alarm is available. Specified as one of the following flags:

	CWA 15/48-69:2008	
Value	Meaning	
WFS_SIU_NOT_AVAILABLE	There is no Internal Tamper Sensor available.	
WFS_SIU_AVAILABLE	The Internal Tamper Sensor is available.	
fwSensors [WFS_SIU_SEISMIC] Specifies whether the Seismic Sensor is available. S	Specified as one of the following flags:	
Value	Meaning	
WFS_SIU_NOT_AVAILABLE	There is no Seismic Sensor available.	
WFS_SIU_AVAILABLE	The Seismic Sensor is available.	
fwSensors [WFS_SIU_HEAT] Specifies whether the Heat Sensor is available. Spe	cified as one of the following flags:	
Value	Meaning	
WFS_SIU_NOT_AVAILABLE	There is no Heat Sensor available.	
WFS_SIU_AVAILABLE	The Heat Sensor is available.	
fwSensors [WFS_SIU_PROXIMITY] Specifies whether the Proximity Sensor is available	. Specified as one of the following flags:	
Value	Meaning	
WFS SIU NOT AVAILABLE	There is no Proximity Sensor available.	
WFS_SIU_AVAILABLE	The Proximity Sensor is available.	
fwSensors [WFS_SIU_AMBLIGHT] Specifies whether the Ambient Light Sensor is avai	lable. Specified as one of the following flags:	
Value	Meaning	
WFS_SIU_NOT_AVAILABLE	There is no Ambient Light Sensor available.	
WFS_SIU_AVAILABLE	The Ambient Light Sensor is available.	
fwSensors [WFS_SIU_ENHANCEDAUDIO] Specifies whether the Audio Jack is present, and if WFS_SIU_NOT_AVAILABLE or as a combinatio		
Value	Meaning Type	
WFS_SIU_NOT_AVAILABLE	There is no Audio Jack available. A	
WFS_SIU_MANUAL	The Audio Jack is available and B	
WES SHI ALITO	supports manual mode. The Audio Jack is available and B	
WFS_SIU_AUTO	supports auto mode.	
WFS_SIU_SEMI_AUTO	The Audio Jack is available and B supports semi-auto mode.	
[wSensors [WFS SIU BOOT SWITCH]		
Specifies whether the Boot Switch is available. Spe	cified as one of the following flags:	
Value	Meaning	
WFS SIU NOT AVAILABLE	There is no Boot Switch Sensor available.	
WFS_SIU_AVAILABLE	The Boot Switch Sensor is available.	
fwSensors [WFS_SIU_CONSUMER_DISPLAY]		
Specifies whether the Consumer Display Sensor is a flags:	available. Specified as one of the following	
Value	Meaning	
WFS_SIU_NOT_AVAILABLE	There is no Consumer Display Sensor	
WFS_SIU_AVAILABLE	available. The Consumer Display Sensor is available.	
fwSensors [WFS SIU OPERATOR CALL BUTTO		
Specifies whether the Operator Call Button is available actually call the appareture but just canda a signal to the	-	
actually call the operator but just sends a signal to t following flags:	ne application. Specified as one of the	

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Operator Call Button available.
WFS_SIU_AVAILABLE	The Operator Call Button is available.

fwSensors [WFS_SIU_HANDSETSENSOR]

Specifies whether the Handset is present, and if so, which modes it supports. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	<u>Type</u>
WFS SIU NOT AVAILABLE	There is no Handset available.	A
WFS SIU MANUAL	The Handset is available and it	B
	supports manual mode.	
WFS SIU AUTO	The Handset is available and it	B
	supports auto mode.	
WFS_SIU_SEMI_AUTO	The Handset is available and it	В
	supports semi-auto mode.	

fwSensors [WFS_SIU_GENERALINPUTPORT]

Specifies whether the vendor dependent General-Purpose Input Ports are available. Before making use of the General-Purpose Input Ports the vendor should examine if the required functionality is covered in this or other device classes as a vendor independent feature. This value is a bitmap and each bit of this value represents one General-Purpose Input Port. Each bit is specified as one of the following binary values:

Value	Meaning
0	The General-Purpose Input Port is not
	available.
1	The General-Purpose Input Port is available.

The following flags can be used to reference each General-Purpose Input Port.

Value	Meaning
WFS SIU GPP1	General-Purpose Input Port 1.
WFS SIU GPP2	General-Purpose Input Port 2.
 WFS SIU GPP16	General-Purpose Input Port 16.

fwDoors [...]

Specifies which doors are available, and if so, which states they can take. A number of door types are defined below. Vendor specific doors are defined starting from the end of the array. The maximum door index is WFS_SIU_DOORS_MAX.

fwDoors [WFS SIU CABINET]

Specifies whether at least one Cabinet Doors is available, and if so, which states they can take. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type	
WFS_SIU_NOT_AVAILABLE	There is no Cabinet Door	A	
	available.		
WFS_SIU_CLOSED,	At least one of the Cabinet Doors	_B	Deleted: The
	can <u>detect a closed state</u> .		Deleted: be
WFS_SIU_OPEN	At least one of the Cabinet Doors	В	
	can detect an open state.		Deleted: The
WFS_SIU_LOCKED	At least one of the Cabinet Doors	В	Deleted: be
	can be locked.	774.	Deleted: The
WFS_SIU_BOLTED,	At least one of the Cabinet Doors	В	
	can be bolted.		Deleted: The

Deleted: it

fwDoors [WFS_SIU_<u>SAFE</u>]

Specifies whether the <u>Safe Doors are</u> available, and if so, which states <u>they</u> <u>can take</u>. <u>Specified as _____</u> WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Safe Door available.	A
WFS_SIU_CLOSED	The Safe Doors can be closed.	В

WFS_SIU_OPEN	The Safe Doors can be open.	В
WFS_SIU_LOCKED	The Safe Doors can be locked.	В
WFS_SIU_BOLTED	The Safe Doors can be bolted.	В

fwDoors [WFS SIU VANDALSHIELD]

Specifies whether the Vandal Shield is available, and if so, which states it can take. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Vandal Shield	A
	available.	
WFS_SIU_CLOSED	The Vandal Shield can be closed.	В
WFS SIU OPEN	The Vandal Shield can be open.	В
WFS SIU LOCKED	The Vandal Shield can be locked.	В
WFS SIU SERVICE	The Vandal Shield can be in	В
	service position.	
WFS_SIU_KEYBOARD	The Vandal Shield can be in	В
	position that permits access to	
	the keyboard.	

fwDoors [WFS_SIU_CABINET_FRONT]

Specifies whether at least one Front Cabinet Door is available, and if so, which states they can take (the overall capability for all cabinet doors is available through the capability for WFS_SIU_CABINET). The front is defined as the side facing the customer/consumer. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS SIU NOT AVAILABLE	There is no Front Cabinet Door	A
	<u>available.</u>	
WFS_SIU_CLOSED	At least one of the Front Cabinet	В
	Doors can detect a closed state.	
WFS_SIU_OPEN	At least one of the Front Cabinet	В
	Doors can detect an open state.	
WFS_SIU_LOCKED	At least one of the Front Cabinet	В
	Doors can be locked.	
WFS_SIU_BOLTED	At least one of the Front Cabinet	В
	Doors can be bolted.	

fwDoors [WFS_SIU_CABINET_REAR]

Specifies whether at least one Rear Cabinet Door is available, and if so, which states they can take (the overall capability for all cabinet doors is available through the capability for WFS_SIU_CABINET). The rear is defined as the side opposite the side facing the customer/consumer. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Rear Cabinet Door	A
	available.	
WFS_SIU_CLOSED	At least one of the Rear Cabinet	B
	Doors can detect a closed state.	
WFS_SIU_OPEN	At least one of the Rear Cabinet	В
	Doors can detect an open state.	
WFS_SIU_LOCKED	At least one of the Rear Cabinet	В
	Doors can be locked.	
WFS_SIU_BOLTED	At least one of the Rear Cabinet	В
	Doors can be bolted.	

fwDoors [WFS_SIU_CABINET_LEFT]

Specifies whether at least one Left Cabinet Door is available, and if so, which states they can take (the overall capability for all cabinet doors is available through the capability for WFS_SIU_CABINET). The left is defined as the side to the left as seen by the customer/consumer. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Left Cabinet Door	A
	available.	
WFS_SIU_CLOSED	At least one of the Left Cabinet	В
	Doors can detect a closed state.	
WFS_SIU_OPEN	At least one of the Left Cabinet	В
	Doors can detect an open state.	
WFS SIU LOCKED	At least one of the Left Cabinet	B
	Doors can be locked.	
WFS SIU BOLTED	At least one of the Left Cabinet	B
	Doors can be bolted.	

fwDoors [WFS_SIU_CABINET_RIGHT]

Specifies whether at least one Right Cabinet Door is available, and if so, which states they can take (the overall capability for all cabinet doors is available through the capability for WFS_SIU_CABINET). The right is defined as the side to the right as seen by the customer/consumer. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Right Cabinet Door	A
	available.	
WFS_SIU_CLOSED	At least one of the Right Cabinet	B
	Doors can detect a closed state.	
WFS_SIU_OPEN	At least one of the Right Cabinet	В
	Doors can detect an open state.	
WFS_SIU_LOCKED	At least one of the Right Cabinet	В
	Doors can be locked.	
WFS_SIU_BOLTED	At least one of the Right Cabinet	В
	Doors can be bolted.	

fwIndicators [...]

Specifies which indicators are available, and if so, which states they can take. A number of indicator types are defined below. Vendor specific indicators are defined starting from the end of the array. The maximum indicator index is WFS_SIU_INDICATORS_MAX.

fwIndicators [WFS SIU OPENCLOSE]

Specifies whether the Open/Closed Indicator is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Open/Closed Indicator available.
WFS_SIU_AVAILABLE	The Open/Closed Indicator is available.

fwIndicators [WFS_SIU_FASCIALIGHT]

Specifies whether the Fascia Light is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE WFS_SIU_AVAILABLE	There is no Fascia Light available. The Fascia Light is available.

fwIndicators [WFS_SIU_AUDIO]

Specifies whether the Audio Indicator device is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Audio Indicator available.
WFS_SIU_AVAILABLE	The Audio Indicator is available.

fwIndicators [WFS_SIU_HEATING]

Specifies whether the internal Heating device is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Heating device available.
WFS_SIU_AVAILABLE	The Heating device is available.

fwIndicators [WFS_SIU_CONSUMER_DISPLAY_BACKLIGHT]

Specifies whether the Consumer Display Backlight is available. Specified as one of the following flags:

Value	Meaning
WFS SIU NOT AVAILABLE	There is no Consumer Display Backlight
	device available or it is not controllable by
	the application.
WFS SIU AVAILABLE	The Consumer Display Backlight device is
	available and is controllable by the
	application.

fwIndicators [WFS SIU SIGNAGEDISPLAY]

Specifies whether the Signage Display is available. Specified as one of the following flags:

Value	Meaning
WFS SIU NOT AVAILABLE	There is no Signage Display available.
WFS SIU AVAILABLE	The Signage Display is available.

fwIndicators [WFS_SIU_TRANSINDICATOR]

Specifies whether the Transaction Indicators are available as a bitmap. Each bit of this value represents one Transaction Indicator and is specified as one of the following binary values:

Value	Meaning
0	The Transaction Indicator is not available.
1	The Transaction Indicator is available.

The following flags can be used to reference each Transaction Indicator.

Value	Meaning
WFS_SIU_LAMP1	Transaction Indicator 1.
WFS_SIU_LAMP2	Transaction Indicator 2.
 WFS SIU LAMP16	Transaction Indicator 16

fwIndicators [WFS_SIU_GENERALOUTPUTPORT]

Specifies whether the vendor dependent General-Purpose Output Ports are available. Before making use of the General-Purpose Output Ports the vendor should examine if the required functionality is covered in this or other device classes as a vendor independent feature. This value is a bitmap and each bit of this value represents one General-Purpose Output Port. Each bit is specified as one of the following binary values:

Value	Meaning
0	The General-Purpose Output Port is not
	available.
1	The General-Purpose Output Port is
	available

The following flags can be used to reference each General-Purpose Output Port.

Value	Meaning
WFS_SIU_GPP1	General-Purpose Output Port 1.
WFS_SIU_GPP2	General-Purpose Output Port 2.
···· WFS SIU GPP16	General-Purpose Output Port 16.

fwAuxiliaries [...]

Specifies which auxiliaries are available, and if so, which states they can take. A number of auxiliary indicator types are defined below. Vendor specific auxiliaries are defined starting from the end of the array. The maximum auxiliary index is WFS_SIU_AUXILIARIES_MAX.

fwAuxiliaries [WFS SIU VOLUME]

Specifies whether the Volume Control is available, and if so, the increment/decrement value recommended by the vendor.

Value	Meaning
WFS SIU NOT AVAILABLE	There is no Volume Control available.

1, ..., 1000

The recommended increment/decrement value for the Volume Control.

fwAuxiliaries [WFS_SIU_UPS]

Specifies whether the UPS device is available, and if so, which states it can take. Specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no UPS available.	A
WFS_SIU_AVAILABLE	The UPS is available.	В
WFS_SIU_LOW	The UPS can indicate that its charge level is low.	В
WFS_SIU_ENGAGED	The UPS can be engaged and disengaged by the application.	В
WFS_SIU_POWERING	The UPS can indicate that it is powering the system while the main power supply is off.	В
WFS_SIU_RECOVERED	The UPS can indicate that it was engaged when the main power went off	В

fwAuxiliaries [WFS_SIU_REMOTE_STATUS MONITOR]

Specifies whether the Remote Status Monitor device is available. <u>The Remote Status Monitor device uses LEDs for displaying the status of the system.</u> Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Remote Status Monitor device
	available.
WFS_SIU_AVAILABLE	The Remote Status Monitor device is
	available.

fwAuxiliaries [WFS_SIU_AUDIBLE_ALARM]

Specifies whether the Audible Alarm device is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Audible Alarm device available.
WFS SIU AVAILABLE	The Audible Alarm device is available.

fwAuxiliaries [WFS_SIU_ENHANCEDAUDIOCONTROL]

Specifies whether the Enhanced Audio Controller is available, and if so, which modes it supports. The Enhanced Audio Controller controls how private and public audio are broadcast when the headset is inserted into/removed from the audio jack and when the handset is off-hook/on-hook. In the following Privacy Device is used to refer to either the headset or handset. The modes it supports are specified as WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type	
WFS_SIU_NOT_AVAILABLE	There is no Enhanced Audio	A	Deleted: Jack
	Controller available.		
WFS_SIU_HEADSET_DETECTION	The Enhanced Audio Controller		Deleted: Jack
	is available and supports Privacy		Deleted: headset insertion &
	Device activation/deactivation.		removal.
	The device is able to report even	ts	
	to indicate <u>Privacy Device</u>		Deleted: headset insertion &
	activation/deactivation.		removal
WFS_SIU_MODE_CONTROLLABLE	The Enhanced Audio Controller	B	Deleted: Jack
	is available and supports		
	application control of the		Deleted: Audio Jack
	<u>Privacy Device</u> mode via the		
	WFS_CMD_SIU_SET_PORTS	and	
	WF_CMD_SET_AUXILIARY		
	command.		

Deleted: Jack

Deleted: Specified as

fwGuidLights [...]

Specifies which Guidance <u>Light Indicators</u> are available. A number of guidance light types are defined below. Vendor specific guidance-lights are defined starting from the end-of the array. The maximum guidance light index is WFS_SIU_GUIDLIGHTS_MAX. The elements of this array are specified as one of the following flags:

Deleted: Lights **Deleted:** , and if so, which states they can take

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Guidance Light Indicator
	available at this position or the device
	controls the light.
WFS_SIU_AVAILABLE	A Guidance Light Indicator is available at
	this position.

fwGuidLights [WFS SIU CARDUNIT]

Specifies whether the Guidance Light Indicator on the Card Unit (IDC) is available.

fwGuidLights [WFS_SIU_PINPAD]

Specifies whether the Guidance Light Indicator on the PIN pad unit is available.

fwGuidLights [WFS SIU NOTESDISPENSER]

Specifies whether the Guidance Light Indicator on the note dispenser unit is available.

fwGuidLights [WFS SIU COINDISPENSER]

Specifies whether the Guidance Light Indicator on the coin dispenser unit is available.

fwGuidLights [WFS SIU RECEIPTPRINTER]

Specifies whether the Guidance Light Indicator on the receipt printer unit is available.

fwGuidLights [WFS SIU PASSBOOKPRINTER]

Specifies whether the Guidance Light Indicator on the passbook printer unit is available.

fwGuidLights [WFS SIU ENVDEPOSITORY]

Specifies whether the Guidance Light Indicator on the envelope depository unit is available.

fwGuidLights [WFS_SIU_CHEQUEUNIT]

Specifies whether the Guidance Light Indicator on the cheque processing unit is available.

fwGuidLights [WFS SIU BILLACCEPTOR]

Specifies whether the Guidance Light Indicator on the bill acceptor unit is available.

fwGuidLights [WFS SIU ENVDISPENSER]

Specifies whether the Guidance Light Indicator on the envelope dispenser unit is available.

fwGuidLights [WFS_SIU_DOCUMENTPRINTER]

Specifies whether the Guidance Light Indicator on the document printer is available.

fwGuidLights [WFS_SIU_COINACCEPTOR]

Specifies whether the Guidance Light Indicator on the coin acceptor is available.

fwGuidLights [WFS_SIU_SCANNER]

Specifies whether the Guidance Light Indicator on the scanner unit is available.

lpszExtra

Pointer to a list of vendor-specific, or any other extended, information. The information is returned as a series of "key=value" strings so that it is easily extensible by Service Providers. Each string is null-terminated, with the final string terminating with two null characters. An empty list may be indicated by either a NULL pointer or a pointer to two consecutive null characters.

<u>bPowerSaveControl</u>

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

Error Codes

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

Comments

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

5. Execute Commands

5.1 WFS_CMD_SIU_ENABLE_EVENTS

Description

This command is used to enable or disable events from the Sensors and Indicators Unit. The default condition is that all events are disabled.

Input Param

LPWFSSIUENABLE lpEnable;

fwSensors [...]

Specifies which of the sensors that should report changes. A number of sensor types are defined below. Vendor specific sensors are defined starting from the end of the array. The maximum sensor index is WFS_SIU_SENSORS_MAX.

fwSensors [WFS SIU OPERATORSWITCH]

Specifies whether the Operator Switch should report whenever the switch changes the operating mode. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Operators Switch should report
	whenever it changes mode from Run to
	Maintenance or Supervisor mode or vice
	versa.
WFS_SIU_DISABLE_EVENT	The Operators Switch should not report any changes of it operating mode.

fwSensors [WFS_SIU_TAMPER]

Specifies whether the Tamper Sensor should report whenever someone tampers with the terminal. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Tamper Sensor should report whenever
	it detects any tampering attempt.
WFS_SIU_DISABLE_EVENT	The Tamper Sensor should not report any
	changes of its status.

fwSensors [WFS_SIU_INTTAMPER]

Specifies whether the Internal Tamper Sensor should report whenever someone tampers with the internal alarm. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Internal Tamper Sensor should report
	whenever it detects any tampering attempt.
WFS_SIU_DISABLE_EVENT	The Internal Tamper Sensor should not
	report any changes of its status.

fwSensors [WFS SIU SEISMIC]

Specifies whether the Seismic Sensor should report whenever any seismic activity is detected. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.

WFS_SIU_ENABLE_EVENT
The Seismic Sensor should report whenever it detects any seismic activity.
WFS_SIU_DISABLE_EVENT
The Seismic Sensor should not report any changes of its status.

fwSensors [WFS SIU HEAT]

Specifies whether the Heat Sensor should report whenever any excessive heat is detected. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Heat Sensor should report whenever it
	detects any excessive heat.
WFS_SIU_DISABLE_EVENT	The Heat Sensor should not report any
	changes of its status.

fwSensors [WFS SIU PROXIMITY]

Specifies whether the Proximity Sensor should report whenever any movement is detected close to the terminal. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Proximity Sensor should report
	whenever it detects any movement.
WFS_SIU_DISABLE_EVENT	The Proximity Sensor should not report any
	changes of its status.

fwSensors [WFS_SIU_AMBLIGHT]

Specifies whether the Ambient Light Sensor should report whenever it detects changes in the ambient light. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Ambient Light Sensor should report whenever it detects a change.
WFS_SIU_DISABLE_EVENT	The Ambient Light Sensor should not report any change.

fwSensors [WFS_SIU_ENHANCEDAUDIO]

Specifies whether the <u>Audio</u> Jack should report whenever it detects changes in the <u>audio jack</u>. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Audio Jack should report whenever it
	detects a headset being connected or
	disconnected.
WFS_SIU_DISABLE_EVENT	The Audio Jack should not report any change
	in headset connection state.

fwSensors [WFS_SIU_BOOT_SWITCH]

Specifies whether the Boot Switch should report whenever the delayed effect boot switch is used. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The Boot Switch should report whenever it
	detects the terminal is going to be rebooted.
WFS SIU DISABLE EVENT	The Boot Switch should not report any
	changes of its status.

fwSensors [WFS SIU CONSUMER DISPLAY]

Specifies whether the Consumer Display Sensor should report whenever it detects changes to the consumer display. Specified as one of the following flags:

Deleted: audio

Deleted: Audio Jack.

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Consumer Display Sensor should report
	whenever it detects any changes of its status.
WFS SIU DISABLE EVENT	The Consumer Display Sensor should not
	report any changes of its status.

fwSensors [WFS SIU OPERATOR CALL BUTTON]

Specifies whether the Operator Call Button should report whenever the Operator Call Button is pressed or released. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The Operator Call Button should report
	whenever it detects that it is pressed or
	released.
WFS_SIU_DISABLE_EVENT	The Operator Call Button should not report
	any changes of its status.

fwSensors [WFS_SIU_HANDSETSENSOR]

Specifies whether the Handset Sensor should report whenever it detects changes of its status. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Handset Sensor should report whenever
	the handset is picked up or put down.
WFS_SIU_DISABLE_EVENT	The Handset Sensor should not report any
	changes of its status.

fwSensors [WFS SIU GENERALINPUTPORT]

Specifies whether the General-Purpose Input Port should report whenever it detects changes to any one of the General-Purpose Input Ports. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The General-Purpose Input Port should
	report whenever any General-Purpose Input
	Port is turned on or off.
WFS_SIU_DISABLE_EVENT	The General-Purpose Input Port should not
	report any changes of its status.

fwDoors [...]

Specifies which of the doors should report changes. A number of door types are defined below. Vendor specific doors are defined starting from the end of the array. The maximum door index is WFS_SIU_DOORS_MAX.

fwDoors [WFS_SIU_CABINET]

Specifies whether the Cabinet Doors should report whenever the doors are opened, closed, bolted or locked. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Cabinet Doors should report whenever
	the doors are opened, closed, locked or
	bolted.
WFS_SIU_DISABLE_EVENT	The Cabinet Doors sensor should not report any changes of the doors status.

fwDoors [WFS_SIU_SAFE]

Specifies whether the Safe Doors should report whenever the doors are opened, closed, bolted or locked. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.

Deleted: sensor

WFS_SIU_ENABLE_EVENT

WFS_SIU_DISABLE_EVENT

The Safe Doors should report whenever the doors are opened, closed, locked or bolted. The Safe Doors should not report any changes of the doors status.

fwDoors [WFS SIU VANDALSHIELD]

Specifies whether the Vandal Shield should report whenever the shield changed position. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Vandal Shield should report whenever the doors are opened or closed.
WFS_SIU_DISABLE_EVENT	The Vandal Shield should not report any changes of the status.

fwDoors [WFS SIU CABINET FRONT]

Specifies whether the Front Cabinet Doors should report whenever the front doors are opened, closed, bolted or locked. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Front Cabinet Doors should report
	whenever the doors are opened, closed,
	locked or bolted.
WFS SIU DISABLE EVENT	The Front Cabinet Doors sensor should not
	report any changes of the doors status

fwDoors [WFS SIU CABINET REAR]

Specifies whether the Rear Cabinet Doors should report whenever the rear doors are opened, closed, bolted or locked. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The Rear Cabinet Doors should report
	whenever the doors are opened, closed,
	locked or bolted.
WFS SIU DISABLE EVENT	The Rear Cabinet Doors sensor should not
	report any changes of the doors status.

fwDoors [WFS_SIU_CABINET_LEFT]

Specifies whether the Left Cabinet Doors should report whenever the left doors are opened, closed, bolted or locked. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The Left Cabinet Doors should report
	whenever the doors are opened, closed,
	locked or bolted.
WFS_SIU_DISABLE_EVENT	The Left Cabinet Doors sensor should not
	report any changes of the doors status.

fwDoors [WFS_SIU_CABINET_RIGHT]

Specifies whether the Right Cabinet Doors should report whenever the right doors are opened, closed, bolted or locked. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The Right Cabinet Doors should report
	whenever the doors are opened, closed, locked or bolted.
WFS SIU DISABLE EVENT	The Right Cabinet Doors sensor should not
	report any changes of the doors status.

fwIndicators [...]

Specifies which of the indicators should report changes. A number of indicator types are defined below. Vendor specific indicators are defined starting from the end of the array. The maximum indicator index is WFS_SIU_INDICATORS_MAX.

fwIndicators [WFS_SIU_OPENCLOSE]

Specifies whether the Open/Closed Indicator should report whenever it is turned on (set to open) or turned off (set to closed). Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Open/Closed Indicator should report whenever it is turned on or off.
WFS_SIU_DISABLE_EVENT	The Open/Closed Indicator should not report any changes of the indicator.

fwIndicators [WFS_SIU_FASCIALIGHT]

Specifies whether the Fascia Light should report whenever it is turned on or turned off. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Fascia Light should report whenever it is
	turned on or off.
WFS_SIU_DISABLE_EVENT	The Fascia Light should not report any
	changes.

fwIndicators [WFS_SIU_AUDIO]

Specifies whether the Audio Indicator should report whenever it is turned on or turned off. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Audio Indicator should report whenever it is turned on or off.
WFS_SIU_DISABLE_EVENT	The Audio Indicator should not report any changes.

fwIndicators [WFS_SIU_HEATING]

Specifies whether the Heating device should report whenever it is turned on or turned off. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Heating device should report whenever
	it is turned on or off.
WFS_SIU_DISABLE_EVENT	The Heating device should not report any
	changes

fwIndicators [WFS_SIU_CONSUMER_DISPLAY_BACKLIGHT]

Specifies whether the Consumer Display Backlight should report whenever it is turned on or turned off. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The Consumer Display Backlight should
	report whenever it is turned on or off.
WFS SIU DISABLE EVENT	The Consumer Display Backlight should not
	report any changes.

fwIndicators [WFS_SIU_SIGNAGEDISPLAY]

Specifies whether the Signage Display should report whenever it is turned on or turned off. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.

WFS SIU ENABLE EVENT	The Signage Display should report whenever
	it is turned on or off.
WFS SIU DISABLE EVENT	The Signage Display should not report any
	changes.

fwIndicators [WFS SIU TRANSINDICATOR]

Specifies whether the Transaction Indicators should report whenever any one of them is turned on or turned off. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS SIU ENABLE EVENT	The Transaction Indicators should report
	whenever any Transaction Indicator is turned
	on or off.
WFS_SIU_DISABLE_EVENT	The Transaction Indicators should not report
	any changes.

fwIndicators [WFS SIU GENERALOUTPUTPORT]

Specifies whether the General-Purpose Output Ports should report whenever any one of them is turned on or turned off. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The General-Purpose Output Ports should
	report whenever any General-Purpose Output
	Port is turned on or off.
WFS_SIU_DISABLE_EVENT	The General-Purpose Output Ports should
	not report any changes.

fwAuxiliaries [...]

Specifies which of the auxiliary indicators should report changes. A number of auxiliary indicator types are defined below. Vendor specific indicators are defined starting from the end of the array. The maximum indicator index is WFS_SIU_AUXILIARIES_MAX.

fwAuxiliaries[WFS SIU VOLUME]

Specifies whether the Volume Control device should report whenever it is changed. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Volume Control device should report
WFS_SIU_DISABLE_EVENT	whenever it is changed. The Volume Control device should not report any changes.

fwAuxiliaries[WFS_SIU_UPS]

Specifies whether the UPS device should report whenever it is changed. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The UPS device should report whenever it is changed.
WFS_SIU_DISABLE_EVENT	The UPS device should not report any changes.

$fwAuxiliaries[WFS_SIU_REMOTE_STATUS_MONITOR]$

Specifies whether the Remote Status Monitor device should report whenever it is changed. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Remote Status Monitor device should
	report whenever it is changed.

WFS_SIU_DISABLE_EVENT

The Remote Status Monitor device should not report any changes.

fwAuxiliaries[WFS_SIU_AUDIBLE_ALARM]

Specifies whether the Audible Alarm device should report whenever it is changed. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Audible Alarm device should report
	whenever it is changed.
WFS_SIU_DISABLE_EVENT	The Audible Alarm device should not report
	any changes

fwAuxiliaries [WFS SIU ENHANCEDAUDIOCONTROL]

Specifies whether the Enhanced Audio Controller should report whenever it changes status (assuming the device is capable of generating events). Specified as one of the following flags:

Value	Meaning	
WFS_SIU_NO_CHANGE	Do not change the current reporting status.	
WFS_SIU_ENABLE_EVENT	The Enhanced Audio Controller should report whenever it is changed.	Deleted: Jack controller
WFS_SIU_DISABLE_EVENT	The Enhanced Audio Controller device should not report any changes.	Deleted: Jack controller

Deleted: Jack

fwGuidLights [...]

Specifies which of the Guidance Light Indicators should report whenever any of them changes its state. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Guidance Light Indicators should report
	whenever any of them changes its state.
WFS_SIU_DISABLE_EVENT	The Guidance Light Indicators should not
	report any changes of their states.

fwGuidLights [WFS_SIU_CARDUNIT]

Specifies whether the Guidance Light Indicator on the Card Unit (IDC) should report whenever it changes status.

fwGuidLights [WFS_SIU_PINPAD]

Specifies whether the Guidance Light Indicator on the PIN pad unit should report whenever it changes status.

fwGuidLights [WFS_SIU_NOTESDISPENSER]

Specifies whether the Guidance Light Indicator on the note dispenser unit should report whenever it changes status.

fwGuidLights [WFS_SIU_COINDISPENSER]

Specifies whether the Guidance Light Indicator on the coin dispenser unit should report whenever it changes status.

fwGuidLights [WFS SIU RECEIPTPRINTER]

Specifies whether the Guidance Light Indicator on the receipt printer unit should report whenever it changes status.

fwGuidLights [WFS_SIU_PASSBOOKPRINTER]

Specifies whether the Guidance Light Indicator on the passbook printer unit should report whenever it changes status.

fwGuidLights [WFS_SIU_ENVDEPOSITORY]

Specifies whether the Guidance Light Indicator on the envelope depository unit should report whenever it changes status.

fwGuidLights [WFS_SIU_CHEQUEUNIT]

Specifies whether the Guidance Light Indicator on the cheque processing unit should report whenever it changes status.

fwGuidLights [WFS_SIU_BILLACCEPTOR]

Specifies whether the Guidance Light Indicator on the bill acceptor unit should report whenever it changes status.

fwGuidLights [WFS SIU ENVDISPENSER]

Specifies whether the Guidance Light Indicator on the envelope dispenser unit should report whenever it changes status.

fwGuidLights [WFS_SIU_DOCUMENTPRINTER]

Specifies whether the Guidance Light Indicator on the document printer should report whenever it changes status.

fwGuidLights [WFS SIU COINACCEPTOR]

Specifies whether the Guidance Light Indicator on the coin acceptor should report whenever it changes status.

fwGuidLights [WFS SIU SCANNER]

Specifies whether the Guidance Light Indicator on the scanner unit should report whenever it changes status.

lpszExtra

Pointer to a list of vendor-specific, or any other extended, information. The information is returned as a series of "key=value" strings so that it is easily extensible by Service Providers. Each string is null-terminated, with the final string terminating with two null characters. An empty list may be indicated by either a NULL pointer or a pointer to two consecutive null characters.

Output Param N

Error Codes

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

Value	Meaning
WFS_ERR_SIU_INVALID_PORT	An attempt to enable or disable events to a
	port was invalid because the port does not exist.
WFS_ERR_SIU_SYNTAX	The command was invoked with incorrect input data. E.g. an attempt to both enable and disable events to the same port was made.

Events

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

Value	Meaning
WFS_EXEE_SIU_PORT_ERROR	An error occurred while enabling or
	disabling events on one or more ports.

Comments

No action has been taken if this command returns an error. If a hardware error occurs while executing the command, the command will return OK, but execute event(s) will be generated which indicate(s) the port(s) which have failed.

5.2 WFS_CMD_SIU_SET_PORTS

Description

This command is used to set or clear one or more output ports (indicators) in the Sensors and Indicators Unit.

Input Param

LPWFSSIUSETPORTS lpSetPorts;

fwDoors [WFS_SIU_CABINET]

Specifies whether all Cabinet Doors should be bolted or unbolted. Specified as one of the following flags:

Deleted: the

Value	Meaning	
WFS_SIU_NO_CHANGE	Do not change the current status of the	
	Cabinet Doors.	
WFS_SIU_BOLT	All Cabinet Doors are bolted.	Deleted: The
WFS_SIU_UNBOLT	All Cabinet Doors are unbolted.	Deleted: The

fwDoors [WFS SIU SAFE]

Specifies whether the Safe Doors should be bolted or unbolted. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the Safe
	Doors.
WFS_SIU_BOLT	The Safe Doors are bolted.
WFS_SIU_UNBOLT	The Safe Doors are unbolted.

fwDoors [WFS_SIU_VANDALSHIELD]

Specifies whether the Vandal Shield should change position. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current position of the
	Vandal Shield.
WFS_SIU_CLOSED	The Vandal Shield is closed.
WFS_SIU_OPEN	The Vandal Shield is opened.
WFS_SIU_SERVICE	The Vandal Shield is set in service position.
WFS_SIU_KEYBOARD	The Vandal Shield is set in position that
	permits access to the keyboard.

fwDoors [WFS_SIU_CABINET_FRONT]

Specifies whether the Front Cabinet Doors should be bolted or unbolted. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the Front
	Cabinet Doors.
WFS SIU BOLT	All Front Cabinet Doors are bolted.
WFS_SIU_UNBOLT	All Front Cabinet Doors are unbolted.

fwDoors [WFS_SIU_CABINET_REAR]

Specifies whether the Rear Cabinet Doors should be bolted or unbolted. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current status of the Rear
	Cabinet Doors.

WFS SIU BOLT	All Rear Cabinet Doors are bolted.
WES SIU UNBOLT	All Rear Cabinet Doors are unbolted.

fwDoors [WFS_SIU_CABINET_LEFT]

Specifies whether the Left Cabinet Doors should be bolted or unbolted. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current status of the Left
	Cabinet Doors.
WFS SIU BOLT	All Left Cabinet Doors are bolted.
WFS SIU UNBOLT	All Left Cabinet Doors are unbolted.

fwDoors [WFS SIU CABINET RIGHT]

Specifies whether the Right Cabinet Doors should be bolted or unbolted. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the Right
	Cabinet Doors.
WFS SIU BOLT	All Right Cabinet Doors are bolted.
WFS_SIU_UNBOLT	All Right Cabinet Doors are unbolted.

fwIndicators [WFS_SIU_OPENCLOSE]

Specifies whether the Open/Closed Indicator should show Open or Close to a consumer. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the
	Open/Closed Indicator.
WFS_SIU_CLOSED	The Open/Closed Indicator is changed to
	show that the terminal is closed for a
	consumer.
WFS_SIU_OPEN	The Open/Closed Indicator is changed to
	show that the terminal is open to be used by
	a consumer.

fwIndicators [WFS_SIU_FASCIALIGHT]

Specifies whether the Fascia Lights should be turned on or off. Specified as one of the following flags:

Meaning
Do not change the current status of the light.
The Fascia Light is turned off.
The Fascia Light is turned on.

fwIndicators [WFS_SIU_AUDIO]

Specifies whether the Audio Indicator should be turned on or off. Specified as one of the following flags of type A and B, or as WFS_SIU_CONTINUOUS in combination with one of the flags of type B:

S 21		
Value	Meaning	Type
WFS SIU NO CHANGE	Do not change the current status	A
	of the Audio Indicator.	
WFS_SIU_OFF	The Audio Indicator is turned off.	A
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key	В
	click signal.	
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an	В
	exclamation signal.	
WFS SIU WARNING	The Audio Indicator sounds a	В
	warning signal.	
WFS SIU ERROR	The Audio Indicator sounds an	В
	error signal.	
WFS SIU CRITICAL	The Audio Indicator sounds a	В
	critical error signal.	
	<u> </u>	

Deleted: beeper

WFS_SIU_CONTINUOUS

The Audio Indicator sound is turned on continuously.

C

fwIndicators [WFS_SIU_HEATING]

Specifies whether the Internal Heating device should be turned on or off. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current status of the
	Internal Heating device.
WFS_SIU_OFF	The <u>Internal Heating device</u> is turned off.
WFS_SIU_ON	The <u>Internal</u> Heating <u>device</u> is turned on.

fwIndicators [WFS_SIU_CONSUMER_DISPLAY_BACKLIGHT]

Specifies whether the Consumer Display Backlight should be turned on or off. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current status of the
	Consumer Display Backlight.
WFS_SIU_ON	The Consumer Display Backlight is turned
	<u>on.</u>
WFS_SIU_OFF	The Consumer Display Backlight is turned
	off

fwIndicators [WFS_SIU_SIGNAGE_UNIT]

Specifies whether the Consumer Display Backlight should be turned on or off. Specified as one of the following flags:

Value	Meaning
WFS SIU NO CHANGE	Do not change the current status of the
	Signage Display.
WFS SIU ON	The Signage Display is turned on.
WFS SIU OFF	The Signage Display is turned off.

fwIndicators [WFS SIU TRANSINDICATOR]

Specifies whether the Transaction Indicators should be turned on or off. All Transaction Indicators must be specified and each bit of this value represents one Transaction Indicator. Each bit is specified as one of the following binary values:

Value	Meaning
0	The Transaction Indicator is turned off.
1	The Transaction Indicator is turned on.

The following flags can be used to reference each Transaction Indicator.

Value	Meaning
WFS SIU LAMP1	Transaction Indicator 1.
WFS_SIU_LAMP2	Transaction Indicator 2.
 WFS_SIIJ_LAMP16	Transaction Indicator 16

fwIndicators [WFS_SIU_GENERALOUTPUTPORT]

Specifies whether the General-Purpose Output Ports should be turned on or off. All General-Purpose Output Ports must be specified and each bit of this value represents one General-Purpose Output Port. Each bit is specified as one of the following binary values:

Value	Meaning
0	The General-Purpose Output Port is turned
	off.
1	The General-Purpose Output Port is turned
	on.

The following flags can be used to reference each General-Purpose Output Port.

Value	Meaning
WFS SIU GPP1	General-Purpose Output Port 1.

Deleted: light

WFS_SIU_GPP2	General-Purpose Output Port 2.
 WFS SIU GPP16	General-Purpose Output Port 16.

fwAuxiliaries [WFS SIU VOLUME]

Specifies whether the value of the Volume Control should be changed. If so, the value of Volume Control is defined in an interval from 1 to 1000 where 1 is the lowest volume level and 1000 is the highest volume level. Specified as one of the following values:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the
1,, 1000	Volume Control. The volume level. This field is handled as an unsigned short. If a value greater than 1000
	is used, the provider will map the value to

fwAuxiliaries [WFS SIU UPS]

Specifies whether the UPS device should be engaged or disengaged. The UPS device should not be engaged when the charge level is low. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the UPS
	device.
WFS_SIU_ENGAGE	Engage the UPS.
WFS_SIU_DISENGAGE	Disengage the UPS.

fwAuxiliaries[WFS_SIU_REMOTE_STATUS_MONITOR]

Specifies whether the state of the Remote Status Monitor device should be changed. Specified as WFS_SIU_NO_CHANGE or a combination of one or more of the following flags of type B, C and D, with at most one flag from each type.

Value	Meaning	Type
WFS_SIU_NO_CHANGE	Do not change the current status	A
	of the Remote Status Monitor	
	device.	
WFS_SIU_GREEN_LED_ON	Turn on the green LED on the	В
	Remote Status Monitor device.	
WFS_SIU_GREEN_LED_OFF	Turn off the green LED on the	В
	Remote Status Monitor device.	
WFS SIU AMBER LED ON	Turn on the amber LED on the	C
	Remote Status Monitor device.	
WFS SIU AMBER LED OFF	Turn off the amber LED on the	C
	Remote Status Monitor device.	
WFS SIU RED LED ON	Turn on the red LED on the	D
	Remote Status Monitor device.	
WFS SIU RED LED OFF	Turn off the red LED on the	D
	Remote Status Monitor device	

fwAuxiliaries[WFS_SIU_AUDIBLE_ALARM]

Specifies whether the state of the Audible Alarm device should be changed. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the status of the Audible
	Alarm device.
WFS_SIU_OFF	Turn off the Audible Alarm device.
WFS SIU ON	Turn on the Audible Alarm device.

fwAuxiliaries [WFS SIU ENHANCEDAUDIOCONTROL]

Specifies whether the state of the Enhanced Audio Controller should be changed. Note that this will only be acted upon for hardware environments that return

WFS_SIU_MODE_CONTROLLABLE for the WFS_SIU_ENHANCEDAUDIOCONTROL auxiliary in the WFS_INF_SIU_CAPABILITIES command. Specified as one of the following flags:

Deleted: light

Value	Meaning
WFS SIU NO CHANGE	Do not change status of the Enhanced Audio
	<u>Controller</u> . Deleted: Jack
WFS_SIU_PUBLICAUDIO_MANUA	
	manual mode, public state (i.e. audio will be
	played through speakers only).
WFS_SIU_PUBLICAUDIO_AUTO	Set the Enhanced Audio Controller to auto Deleted: Jack
	mode, public state (i_e_ audio will be played
	through speakers). When a <u>Privacy Device is</u>
	activated (headset connected/handset off-
	<u>hook</u>), the device will go to the private state.
WFS_SIU_PUBLICAUDIO_SEMI_A	AUTO Set the Enhanced Audio Controller to semi- Deleted: Jack
	auto mode, public state (i_e_ audio will be
	played through speakers). When a Privacy Deleted: headset
	Device is activated, the device will go to the Deleted: connected
	private state.
WFS_SIU_PRIVATEAUDIO_MANU	UAL Set the Enhanced Audio Controller to Deleted: Jack
	manual mode, private state (i.e. audio will be
	played only through a connected Privacy Deleted: headset).
	Device). In private mode, no audio is
	transmitted through the speakers.
WFS_SIU_PRIVATEAUDIO_AUTO	
	mode, private state (i.e. audio will be played
	only through an activated Privacy Device). Deleted: a connected headset
	In private mode, no audio is transmitted
	through the speakers. When a Privacy Deleted: headset
	Device is deactivated (headset
	disconnected/handset on-hook), the device
	will go to the public state.
WFS_SIU_PRIVATEAUDIO_SEMI	
	auto mode, private state (i.e. audio will be
	played only through an activated Privacy Deleted: a connected headset
	Device). In private mode, no audio is
	transmitted through the speakers. When a
	Privacy Device is deactivated, the device Deleted: headset
	will remain in the private state
	Deleted: disconnected
fwGuidLights []	
	icators should be turned on or off, or if they should flash.
	the Indicators structure can be specified as one of the Deleted: Lights
following values:	
Value	Meaning
WFS SIU NO CHANGE	Do not change the current status of the
WIS_SIU_NO_CHANGE	Guidance Light Indicator.
WFS_SIU_OFF	The Guidance Light Indicator is turned off.
	The <u>Guidance Light Indicator is turned on.</u> The <u>Guidance Light Indicator is set to flash</u>
WFS_SIU_SLOW_FLASH	
HIEG OHI MEDHIM ELAGH	slowly.
	The <u>Guidance Light Indicator is set to flash</u> Deleted: light is blinking at a medium frequency.
WFS_SIU_MEDIUM_FLASH	at a medium frequency.
WFS_SIU_QUICK_FLASH	The Guidance Light Indicator is set to flash
WFS_SIU_QUICK_FLASH	The <u>Guidance</u> Light Indicator is set to flash quickly.
	The <u>Guidance</u> Light Indicator is set to flash quickly. The <u>Guidance</u> Light Indicator is turned on
WFS_SIU_QUICK_FLASH	The <u>Guidance</u> Light Indicator is set to flash quickly.

fwGuidLights [WFS_SIU_CARDUNIT]

Specifies the state of the Guidance Light Indicator on the Card Unit (IDC).

fwGuidLights [WFS_SIU_PINPAD]

Specifies the state of the Guidance Light Indicator on the PIN pad unit.

fwGuidLights [WFS_SIU_NOTESDISPENSER]
Specifies the state of the Guidance Light Indicator on the note dispenser unit.

fwGuidLights [WFS_SIU_COINDISPENSER]

Specifies the state of the Guidance Light Indicator on the coin dispenser unit.

fwGuidLights [WFS SIU RECEIPTPRINTER]

Specifies the state of the Guidance Light Indicator on the receipt printer unit.

fwGuidLights [WFS SIU PASSBOOKPRINTER]

Specifies the state of the Guidance Light Indicator on the passbook printer unit.

fwGuidLights [WFS_SIU_ENVDEPOSITORY]

Specifies the state of the Guidance Light Indicator on the envelope depository unit.

fwGuidLights [WFS SIU CHEQUEUNIT]

Specifies the state of the Guidance Light Indicator on the cheque processing unit.

fwGuidLights [WFS SIU BILLACCEPTOR]

Specifies the state of the Guidance Light Indicator on the bill acceptor unit.

fwGuidLights [WFS SIU ENVDISPENSER]

Specifies the state of the Guidance Light Indicator on the envelope dispenser unit.

fwGuidLights [WFS_SIU_DOCUMENTPRINTER]

Specifies the state of the Guidance Light Indicator on the document printer.

fwGuidLights [WFS_SIU_COINACCEPTOR]

Specifies the state of the Guidance Light Indicator on the coin acceptor.

fwGuidLights [WFS SIU SCANNER]

Specifies the state of the Guidance Light Indicator on the scanner unit.

lnszExtra

Pointer to a list of vendor-specific, or any other extended, information. The information is returned as a series of "key=value" strings so that it is easily extensible by Service Providers. Each string is null-terminated, with the final string terminating with two null characters. An empty list may be indicated by either a NULL pointer or a pointer to two consecutive null characters.

Output Param

None.

Error Codes

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

Value	Meaning
WFS_ERR_SIU_INVALID_PORT	An attempt to set a port to a new value was
	invalid because the port does not exist or the
	port is pre-configured as an input port.
WFS_ERR_SIU_SYNTAX	The command was invoked with incorrect
	input data.

Events

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

Value	Meaning
WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set or
	clear one or more output ports (indicators).

Comments

No action has been taken if this command returns an error. If a hardware error occurs while executing the command, the command will return OK, but execute event(s) will be generated which indicate(s) the port(s) which have failed.

WFS_CMD_SIU_SET_DOOR

Description

This command is used to set the status of one of the doors.

Input Param

LPWFSSIUSETDOOR lpSetDoor;

```
typedef struct _wfs_siu_set_door
     ŴORD
                     wDoor;
                     fwCommand;
     } WFSSIUSETDOOR, *LPWFSSIUSETDOOR;
```

Specifies the index of the door to set as one of the following values:

Value	Meaning
WFS_SIU_CABINET	Bolt/unbolt all Cabinet Doors.
WFS_SIU_SAFE	Bolt/unbolt the Safe Doors.
WFS_SIU_VANDALSHIELD	Set position of the Vandal Shield.
WFS_SIU_CABINET_FRONT	Bolt/unbolt all Front Cabinet Doors.
WFS_SIU_CABINET_REAR	Bolt/unbolt all Rear Cabinet Doors.
WFS_SIU_CABINET_LEFT	Bolt/unbolt all Left Cabinet Doors.
WFS SIU CABINET RIGHT	Bolt/unbolt all Right Cabinet Doors.

Deleted: the

fwCommand

Specifies if the Cabinet or Safe doors should be bolted or unbolted or if the position of the Vandal Shield should be changed, as one of the following flags:

Value	Meaning
WFS_SIU_BOLT	Bolt the Safe or Cabinet Doors.
WFS_SIU_UNBOLT	Unbolt the Safe or Cabinet Doors.
WFS_SIU_OPEN	Open the Vandal Shield.
WFS_SIU_SERVICE	Position the Vandal Shield in service position.
WFS_SIU_KEYBOARD	Position the Vandal Shield to permit access to the keyboard.
WFS_SIU_CLOSED	Close the Vandal Shield.

See WFS_CMD_SIU_SET_PORTS command for a detailed description.

Output Param None.

Error Codes

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

Meaning
An attempt to set a port to a new value was
invalid because the port does not exist or the
port is pre-configured as an input port.
The command was invoked with incorrect
input data.
A hardware error occurred while executing
the command.

Events

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

Value	Meaning
WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set the status of the door.

Comments

None.

5.4 WFS_CMD_SIU_SET_INDICATOR

Description This command is used to set the status of an indicator.

Input Param LPWFSSIUSETINDICATOR lpSetIndicator;

wIndicator

Specifies the index of the indicator to set as one of the following values:

Value	Meaning
WFS_SIU_OPENCLOSE	Set Open/Close Indicator for the consumer.
WFS_SIU_FASCIALIGHT	Turn on/off the Fascia Light.
WFS_SIU_AUDIO	Turn on/off the Audio Indicator.
WFS_SIU_HEATING	Turn on/off the Heating device.
WFS SIU CONSUMER DISPLAY BACKLIGHT	
	Turn on/off the Consumer Display Backlight.
WFS_SIU_SIGNAGEDISPLAY	Turn on/off the Signage Display device.
WFS_SIU_TRANSINDICATOR	Turn on/off the Transaction Indicators.
WFS_SIU_GENERALOUTPUTPORT	Turn on/off the General-Purpose Output
	Ports.

fwCommand.

Specifies the commands for the <u>Open/Close Indicator</u>, <u>Fascia Light</u>, <u>Audio Indicator</u>, <u>Heating</u> <u>device</u>, <u>Consumer Display Backlight</u>, <u>Signage Display</u> and <u>General-Purpose Output Ports</u> as one of the following flags:

Deleted: open/close indicator, fascia light, audio indicator

Value	Meaning
WFS_SIU_CLOSED	The Open/Close Indicator is changed to
	show that the terminal is closed for a
	consumer.
WFS_SIU_OPEN	The Open/Close Indicator is changed to
	show that the terminal is open to be used by
	a consumer.
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key click
	signal.
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an exclamation
	signal.
WFS_SIU_WARNING	The Audio Indicator sounds a warning
	signal.
WFS_SIU_ERROR	The Audio Indicator sounds an error signal.
WFS_SIU_CRITICAL	The Audio Indicator sounds a critical error signal.
WFS_SIU_CONTINUOUS	The Audio Indicator sound is turned on
	continuously.
WFS_SIU_OFF	The Audio Indicator, Fascia Light, Heating
	device, Consumer Display Backlight or
	Signage Display is turned off.
WFS_SIU_ON	The Fascia Light, Heating device, Consumer
	Display Backlight or Signage Display is
	turned on.

For Transaction Indicators specifies whether the Transaction Indicators should be turned on or off. All Transaction Indicators must be specified and each bit of this value represents one Transaction Indicator. Each bit is specified as one of the following binary values:

Value	Meaning
0	The Transaction Indicator is turned off.
1	The Transaction Indicator is turned on.

The following flags can be used to reference each Transaction Indicator.

Value	Meaning
WFS_SIU_LAMP1	Transaction Indicator 1.
WFS_SIU_LAMP2	Transaction Indicator 2.
···· WES SILL LAMP16	Transaction Indicator 16

For General-Purpose Output Ports specifies whether the General-Purpose Output Ports should be turned on or off. All General-Purpose Output Ports must be specified and each bit of this value represents one General-Purpose Output Port. Each bit is specified as one of the following binary values:

Value	Meaning
0	The General-Purpose Output Port is turned
	off.
1	The General-Purpose Output Port is turned
	on.

The following flags can be used to reference each General-Purpose Output Port.

Value	Meaning
WFS SIU GPP1	General-Purpose Output Port 1.
WFS_SIU_GPP2	General-Purpose Output Port 2.
···· WFS SIU GPP16	General-Purpose Output Port 16.

See WFS_CMD_SIU_SET_PORTS command for a detailed description.

Output Param

None.

Error Codes

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

Value	Meaning
WFS_ERR_SIU_INVALID_PORT	An attempt to set a port to a new value was invalid because the port does not exist or the
	port is pre-configured as an input port.
WFS_ERR_SIU_SYNTAX	The command was invoked with incorrect input data.
WFS_ERR_SIU_PORT_ERROR	A hardware error occurred while executing the command.

Events

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

Value	Meaning
WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set the status of the indicator.

WFS_CMD_SIU_SET_AUXILIARY

Description This command is used to set the status of an auxiliary indicator.

LPWFSSIUSETAUXILIARY lpSetAuxiliary; **Input Param**

```
typedef struct _wfs_siu_set_auxiliary
      WORD
                        wAuxiliary;
      WORD fwCommand;
} WFSSIUSETAUXILIARY, *LPWFSSIUSETAUXILIARY;
```

wAuxiliary

Specifies the index of the auxiliary indicator to set as one of the following values:

Value	Meaning
WFS_SIU_VOLUME	Set the value of the Volume Control.
WFS_SIU_UPS	Set the value of the UPS.
WFS_SIU_REMOTE_STATUS_MONITOR	Set the value of the Remote Status Monitor.
WFS_SIU_AUDIBLE_ALARM	Set the value of the Audible Alarm.
WFS_SIU_ENHANCEDAUDIOCONTROL	Set the Value of the Enhanced Audio
	Controller.

It specifies the values for the <u>auxiliary specified by wAuxiliary</u>. Specified as one of the following _______ Deleted: volume control or the

Deleted: Jack

nes:		command to the UPS device.
Value	Meaning	
1,, 1000	The volume level. This field is handled as an	
	unsigned short. If a value greater than 1000	
	is used, the provider will map the value to	
	1000.	
WFS_SIU_ENGAGE	Engage the UPS.	
WFS_SIU_DISENGAGE	Disengage the UPS.	
WFS_SIU_GREEN_LED_ON	Turn on the green LED on the Remote Status	
	Monitor.	
WFS_SIU_GREEN_LED_OFF	Turn off the green LED on the Remote	
	Status Monitor.	
WFS_SIU_AMBER_LED_ON	Turn on the amber LED on the Remote	
	Status Monitor.	
WFS_SIU_AMBER_LED_OFF	Turn off the amber LED on the Remote	
	Status Monitor.	
WFS_SIU_RED_LED_ON	Turn on the red LED on the Remote Status	
	Monitor.	
WFS_SIU_RED_LED_OFF	Turn off the red LED on the Remote Status	
	Monitor.	
WFS_SIU_OFF	Turn off the Audible Alarm.	
WFS_SIU_ON	Turn on the Audible Alarm.	
WFS_SIU_PUBLICAUDIO_MANUAL	Set the Enhanced Audio Controller to	Deleted: Jack
	manual mode, public state (i.e. audio will be	
	played through speakers only).	
WFS_SIU_PUBLICAUDIO_AUTO	Set the Enhanced Audio Controller to auto	Deleted: Jack
	mode, public state (i.e. audio will be played	
	through speakers). When a <u>Privacy Device is</u>	
	<pre>activated (headset connected/handset off-</pre>	
	<u>hook</u>), the device will go to the private state.	
WFS_SIU_PUBLICAUDIO_SEMI_AUTO	Set the Enhanced Audio Controller to semi-	Deleted: Jack
	auto mode, public state (i.e. audio will be	
	played through speakers). When a <u>Privacy</u>	Deleted: headset
	<u>Device</u> is <u>activated</u> , the device will go to the	Deleted: connected
	private state.	Deletea: connected

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	WFS_SIU_PRIVATEAUDIO_MANUAL	Set the Enhanced Audio Controller to	Deleted: Jack
		manual mode, private state (i.e. audio will be	
		played only through a connected Privacy	Deleted: headset).
		Device). In private mode, no audio is	
		transmitted through the speakers.	
	WFS_SIU_PRIVATEAUDIO_AUTO	Set the Enhanced Audio Controller to auto	Deleted: Jack
•		mode, private state (i.e. audio will be played	
		only through an activated Privacy Device).	Deleted: a connected headset).
1		In private mode, no audio is transmitted	
		through the speakers. When a <u>Privacy</u>	Deleted: headset
		<u>Device</u> is <u>deactivated</u> (headset	
		disconnected/ <u>handset on-hook</u>), the device	
ĺ	WEG GHI DDUIATEAUDIO GENE AUTO	will go to the public state.	
l	WFS_SIU_PRIVATEAUDIO_SEMI_AUTO	Set the Enhanced Audio Controller to semi-	Deleted: Jack
1		auto mode, private state (i.e. audio will be	
		played only through an activated Privacy	Deleted: a connected headset).
		<u>Device</u>). In private mode, no audio is transmitted through the speakers. When a	
ſ		Privacy Device is deactivated, the device	Polotodo I I I
ļ		will remain in the private state.	Deleted: headset
		1	Deleted: disconnected
	See WFS_CMD_SIU_SET_PORTS command for	a detailed description.	
Output Param	None.		
Error Codes	In addition to the generic error codes defined in [R generated by this command:	ef. 1], the following error codes can be	
	Value	Meaning	

An attempt to set a port to a new value was invalid because the port does not exist or the port is pre-configured as an input port.

The command was invoked with incorrect

A hardware error occurred while executing

Deleted: None

Events

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

WFS_ERR_SIU_INVALID_PORT

WFS_ERR_SIU_PORT_ERROR

WFS_ERR_SIU_SYNTAX

Value	Meaning
WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set the
	status of the auxiliary indicator.

input data.

the command.

Comments

When wAuxiliary is any value other than WFS_SIU_REMOTE_STATUS_MONITOR the fwCommand parameter should contain one of the values that correspond to the auxiliary defined in wAuxiliary.

When wAuxiliary is WFS_SIU_REMOTE_STATUS_MONITOR then the fwCommand parameter may be specified as a combination of one or more of the following flags of type A, B and C, with at most one flag from each type.

Value	Meaning	Type
WFS_SIU_GREEN_LED_ON	Turn on the green LED on the	A
	Remote Status Monitor device.	
WFS_SIU_GREEN_LED_OFF	Turn off the green LED on the	<u>A</u>
	Remote Status Monitor device.	
WFS_SIU_AMBER_LED_ON	Turn on the amber LED on the	B
	Remote Status Monitor device.	
WFS_SIU_AMBER_LED_OFF	Turn off the amber LED on the	B
	Remote Status Monitor device.	
WFS_SIU_RED_LED_ON	Turn on the red LED on the	C
	Remote Status Monitor device.	
WFS_SIU_RED_LED_OFF	Turn off the red LED on the	C
	Remote Status Monitor device.	

WFS_CMD_SIU_SET_GUIDLIGHT

Description This command is used to set the status of a guidance light indicator.

Input Param LPWFSSIUSETGUIDLIGHT lpSetGuidLight;

```
typedef struct _wfs_siu_set_guidlight
      WORD
                         wGuidLight;
      WORD fwCommand;
} WFSSIUSETGUIDLIGHT, *LPWFSSIUSETGUIDLIGHT;
```

wGuidLights

Specifies the index of the <u>guidance light indicator</u> to set as one of the following values:

Deleted: Guidance Light

Deleted: light is blinking

Deleted: Guidance Light

Value	Meaning
WFS_SIU_CARDUNIT	Set the state of the Guidance Light Indicator on the Card Unit (IDC).
WFS_SIU_PINPAD	Set the state of the Guidance Light Indicator on the PIN pad unit.
WFS_SIU_NOTESDISPENSER	Set the state of the Guidance Light Indicator on the note dispenser unit.
WFS_SIU_COINDISPENSER	Set the state of the Guidance Light Indicator on the coin dispenser unit.
WFS_SIU_RECEIPTPRINTER	Set the state of the Guidance Light Indicator on the receipt printer unit.
WFS_SIU_PASSBOOKPRINTER	Set the state of the Guidance Light Indicator on the passbook printer unit.
WFS_SIU_ENVDEPOSITORY	Set the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_CHEQUEUNIT	Set the state of the Guidance Light Indicator on the cheque processing unit.
WFS_SIU_BILLACCEPTOR	Set the state of the Guidance Light Indicator on the bill acceptor unit.
WFS_SIU_ENVDISPENSER	Set the state of the Guidance Light Indicator on the envelope dispenser unit.
WFS_SIU_DOCUMENTPRINTER	Set the state of the Guidance Light Indicator on the document printer.
WFS_SIU_COINACCEPTOR	Set the state of the Guidance Light Indicator on the coin acceptor.
WFS_SIU_SCANNER	Set the state of the Guidance Light Indicator on the scanner.

Specifies the state of the Guidance Light Indicators, as one of the following flags:

Value	Meaning
WFS_SIU_OFF	The Guidance Light Indicator is turned off.
WFS_SIU_SLOW_FLASH	The Guidance Light Indicator is set to flash
	slowly.
WFS_SIU_MEDIUM_FLASH	The Guidance Light Indicator is set to flash
	at a medium frequency.
WFS_SIU_QUICK_FLASH	The Guidance Light Indicator is set to flash
	quickly.
WFS_SIU_CONTINUOUS	The Guidance Light Indicator is turned on
	continuously (steady).

See WFS_CMD_SIU_SET_PORTS command for a detailed description.

Output Param None.

Error Codes

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

	Value	Meaning
	WFS_ERR_SIU_INVALID_PORT	An attempt to set a port to a new value was invalid because the port does not exist or the port is pre-configured as an input port.
	WFS_ERR_SIU_SYNTAX	The command was invoked with incorrect input data.
Events	In addition to the generic events defined in [Ref. 1], the following events can be gener command:	
	Value	Meaning
	WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set or clear one or more output ports (indicators).
C	N	

5.7 WFS_CMD_SIU_RESET

Description This command is used by the application to perform a hardware reset which will attempt to return

the SIU devices to a known good state. This command does not over-ride a lock obtained on

another application or service handle.

Input Param None.

Output Param None.

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

generated by this command:

Value Meaning

WFS_ERR_SIU_PORT_ERROR A hardware error occurred while executing

the command.

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

command:

Value Meaning

WFS_EXEE_SIU_PORT_ERROR An error occurred while attempting to set or

clear one or more output ports (indicators).

5.8 WFS_CMD_SIU_POWER_SAVE_CONTROL

Description This command activates or deactivates the power-saving mode.

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

The SIU class power saving control covers hardware such as consumer display, transaction indicators, fans, etc. The actual hardware covered by the SIU power saving control is device and vendor dependent and configuration options may be offered by the vendor. The SIU class power saving control does not cover hardware supported by other XFS device classes.

Input Param LPWFSSIUPOWERSAVECONTROL lpPowerSaveControl;

usMaxPowerSaveRecoveryTime

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

Output Param None.

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

 Value
 Meaning

 WFS_ERR_SIU_POWERSAVETOOSHORT
 The power saving mode has not been activated because the device is not able to resume from the power saving mode within the specified

 usMaxPowerSaveRecoveryTime value.

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

 Value
 Meaning

 WFS_SRVE_SIU_POWER_SAVE_CHANGE
 The power save recovery time has changed.

6.1 WFS_SRVE_SIU_PORT_STATUS

Description

This event id is used to specify that a port has changed its state, due to the result of a command or to some external condition. Reporting of this event is controlled by the

WFS_CMD_SIU_ENABLE_EVENTS command. Event reporting is disabled as a default

situation.

Event Param

LPWFSSIUPORTEVENT lpPortEvent;

wPortType

Specifies the type of sensors and indicators that has changed state by one of the following flags:

Value	Meaning
WFS_SIU_SENSORS	A port in the input sensors has changed state.
WFS_SIU_DOORS	A port in the door sensors has changed state.
WFS_SIU_INDICATORS	A port in the indicators has changed state.
WFS_SIU_AUXILIARIES	A port in the auxiliary indicators has
	changed state.
WFS_SIU_GUIDLIGHTS	A port in the guidance lights has changed
	state

wPortIndex

Specifies the index of the port that has changed state by one of the following values:

Value	Meaning
WFS_SIU_OPERATORSWITCH	The Operator Switch has changed its state.
WFS_SIU_TAMPER	The Tamper Sensor has changed its state.
WFS_SIU_INTTAMPER	The Internal Tamper Sensor has changed its
	state.
WFS_SIU_SEISMIC	The Seismic Sensor has changed its state.
WFS_SIU_HEAT	The Heat Sensor has changed its state.
WFS_SIU_PROXIMITY	The Proximity Sensor has changed its state.
WFS_SIU_AMBLIGHT	The Ambient Light Sensor has changed its
	state.
WFS_SIU_ENHANCEDAUDIO	The Audio Jack has changed its state (a
	headset has been plugged-in or removed).
WFS_SIU_BOOT_SWITCH	The Boot Switch Sensor has changed its
	state.
WFS_SIU_CONSUMER_DISPLAY	The Consumer Display Sensor has changed
***************************************	its state.
WFS_SIU_OPERATOR_CALL_BUTTON	The Operator Call Button has changed its
WEG GHT HANDGETGENGOD	state.
WFS SIU HANDSETSENSOR	The Handset Sensor has changed its state.
WFS_SIU_GENERALINPUTPORT	At least one of the General-Purpose Input
	Ports has changed its state. The status should
	be checked to determine which General-
	Purpose Input Port has changed its state.
WES SHI CADINET	The Cobinet Deems have about ad their state
WFS_SIU_CABINET WFS_SIU_SAFE	The Cabinet Doors have changed their state. The Safe Doors have changed their state.
WFS SIU VANDALSHIELD	The Vandal Shield has changed its state.
WFS_SIU_CABINET_FRONT	The Front Cabinet Doors have changed their
WI'S_SIU_CADINET_FRUIT	state.
	State.

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	WFS SIU CABINET REAR	The Rear Cabinet Doors have changed their	
		state.	
	WFS_SIU_CABINET_LEFT	The Left Cabinet Doors have changed their state.	
	WFS SIU CABINET RIGHT	The Right Cabinet Doors have changed their	
		state.	
	www.aw.appy.or.acp		
	WFS_SIU_OPENCLOSE WFS_SIU_FASCIALIGHT	The Open/Close Indicator state has changed. The Fascia Light state has changed.	
	WFS_SIU_AUDIO	The Audio Indicator state has changed.	
	WFS_SIU_HEATING	The Heating device state has changed.	
	WFS_SIU_CONSUMER_DISPLAY_BACKLI		
		The Consumer Display Backlight state has changed.	
	WFS SIU SIGNAGEDISPLAY	The Signage Display device state has	
	WIS DIG DIG WIGHT HAT	changed.	
	WFS_SIU_TRANSINDICATOR	At least one of the Transaction Indicators has	
		changed its value. Use the	
		WFS_INF_SIU_STATUS command to determine which Transaction Indicators have	
		changed.	
	WFS_SIU_GENERALOUTPUTPORT	At least one of the General-Purpose Output	
		Ports has changed its state. Use the	
		WFS_INF_SIU_STATUS command to determine which General-Purpose Output	
		Ports have changed.	
I	WFS_SIU_VOLUME	The Volume Control device has changed its	
		value.	
	WFS_SIU_UPS	The UPS device state has changed. The Remote Status Monitor device state has	
	WFS_SIU_REMOTE_STATUS_MONITOR	changed.	
	WFS SIU AUDIBLE ALARM	The Audible Alarm device state has changed.	
	WFS_SIU_ENHANCEDAUDIOCONTROL	The Enhanced Audio Controller has changed	Deleted: audio Control
		state.	
	WFS_SIU_CARDUNIT	The Guidance Light <u>Indicator</u> state for the	
I		card unit has changed.	
	WFS_SIU_PINPAD	The Guidance Light <u>Indicator</u> state for the	
I	WES SHI NOTESDISDENSED	PIN pad unit has changed.	
	WFS_SIU_NOTESDISPENSER	The Guidance Light <u>Indicator</u> state for the note dispenser unit has changed.	
	WFS SIU COINDISPENSER	The Guidance Light <u>Indicator</u> state for the	
		coin dispenser unit has changed.	
	WFS_SIU_RECEIPTPRINTER	The Guidance Light <u>Indicator</u> state for the	
	WFS_SIU_PASSBOOKPRINTER	receipt printer unit has changed. The Guidance Light Indicator state for the	
l	WIS_SIO_IASSBOOKI KIIVIEK	passbook printer unit has changed.	
	WFS_SIU_ENVDEPOSITORY	The Guidance Light <u>Indicator</u> state for the	
Ī		envelope depository unit has changed.	
	WFS_SIU_CHEQUEUNIT	The Guidance Light <u>Indicator</u> state for the cheque unit has changed.	
	WFS SIU BILLACCEPTOR	The Guidance Light Indicator state for the	
I	WIS_DIG_BIEERICEER TOX	bill acceptor unit has changed.	
	WFS_SIU_ENVDISPENSER	The Guidance Light <u>Indicator</u> state for the	
Ī	WEC CHI DOCHMENTEDINTED	envelope dispenser unit has changed.	
I	WFS_SIU_DOCUMENTPRINTER	The Guidance Light <u>Indicator</u> state for the Document Printer unit has changed.	
	WFS_SIU_COINACCEPTOR	The Guidance Light <u>Indicator</u> state for the	
•		coin acceptor has changed.	
	WFS_SIU_SCANNER	The Guidance Light Indicator state for the	Deleted: Set the state of the
		scanner has changed.	

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wPortStatus

Specifies the new state of the port indicated in the *wPortEvent*. See the WFS_INF_SIU_STATUS information command for the possible values.

lpszExtra

Pointer to a list of vendor-specific, or any other extended, information. The information is returned as a series of "key=value" strings so that it is easily extensible by Service Providers. Each string is null-terminated, with the final string terminating with two null characters. An empty list may be indicated by either a NULL pointer or a pointer to two consecutive null characters.

6.2 WFS_EXEE_SIU_PORT_ERROR

Description This event is used to specify that a port has detected an error.

Event Param LPWFSSIUP

```
LPWFSSIUPORTERROR lpPortError;
```

wPortType

Specifies the type of sensors and indicators that has detected an error by one of the following flags:

Meaning
A port in the input sensors has detected an
error.
A port in the door sensors has detected an
error.
A port in the indicators has detected an error.
A port in the auxiliary Indicators has
detected an error.
A port in the guidance lights has detected an
error.

wPortIndex

Specifies the index of the port that has detected an error by one of the following values:

Value	Meaning
WFS_SIU_OPERATORSWITCH	The Operator Switch has detected an error.
WFS SIU TAMPER	The Tamper Sensor has detected an error.
WFS_SIU_INT_TAMPER	The internal Tamper Sensor has detected an
	error.
WFS_SIU_SEISMIC	The Seismic Sensor has detected an error.
WFS_SIU_HEAT	The Heat Sensor has detected an error.
WFS_SIU_PROXIMITY	The Proximity Sensor has detected an error.
WFS_SIU_AMBLIGHT	The Ambient Light Sensor has detected an
	error.
WFS_SIU_ENHANCEDAUDIO	The Audio Jack Sensor has detected an error.
WFS SIU BOOT SWITCH	The Boot Switch Sensor has detected an
	error.
WFS SIU CONSUMER DISPLAY	The Consumer Display has detected an error.
WFS SIU OPERATOR CALL BUTTON	The Operator Call Button has detected an
	error.
WFS SIU HANDSETSENSOR	The Handset Sensor has detected an error.
WFS SIU GENERALINPUTPORT	The General-Purpose Input Port has detected
	an error.
WFS SIU CABINET	The Cabinet Doors have detected an error.
WFS SIU SAFE	The Safe Doors have detected an error.
WFS SIU VANDALSHIELD	The Vandal Shield has detected an error.
WFS SIU CABINET FRONT	The Front Cabinet Doors have detected an
WFS_SIU_CADINET_FRONT	
WEG CHI CADINET DEAD	error. The Pear Cohinet Deers have detected on
WFS_SIU_CABINET_REAR	The Rear Cabinet Doors have detected an
WEG GILL CARRIET LEFT	error.
WFS_SIU_CABINET_LEFT	The Left Cabinet Doors have detected an
WEG CHI CARRIET BIOLET	error.
WFS_SIU_CABINET_RIGHT	The Right Cabinet Doors have detected an
	<u>error.</u>

Deleted: Enhanced audio

WFS_SIU_OPENCLOSE The Open/Close Indicator has detected an

error.

WFS_SIU_FASCIALIGHT The Fascia Light state has detected an error. WFS_SIU_AUDIO The Audio Indicator state has detected an

error.

WFS_SIU_HEATING The Heating device state has detected an

erro

WFS SIU CONSUMER DISPLAY BACKLIGHT

WFS_SIU_COINDISPENSER

WFS_SIU_ENVDISPENSER

The Consumer Display Backlight state has

detected an error.

WFS_SIU_SIGNAGEDISPLAY The Signage Display device state has

detected an error.

WFS_SIU_TRANSINDICATOR The Transaction Indicator state has detected

an error.

WFS_SIU_GENERALOUTPUTPORT The General-Purpose Output Port has

detected an error.

WFS_SIU_VOLUME The Volume Control device has detected an

error.

WFS_SIU_UPS
WFS_SIU_REMOTE_STATUS_MONITOR
The UPS device has detected an error.
The Remote Status Monitor device has

detected an error.

WFS_SIU_AUDIBLE_ALARM The Audible Alarm device has detected an

error.

WFS_SIU_ENHANCEDAUDIOCONTROL The Enhanced Audio Controller has detected _ _ - - Deleted: Control

an error

WFS_SIU_CARDUNIT The Guidance Light Indicator for the card

unit has detected an error.

WFS SIU PINPAD The Guidance Light Indicator for the PIN

pad unit has detected an error.

WFS_SIU_NOTESDISPENSER The Guidance Light Indicator for the note

dispenser unit has detected an error.
The Guidance Light Indicator for the coin

dispenser unit has detected an error.
WFS_SIU_RECEIPTPRINTER
The Guidance Light Indicator for the receipt

printer unit has detected an error.

WFS_SIU_PASSBOOKPRINTER The Guidance Light Indicator for the

passbook printer unit has detected an error.

WFS_SIU_ENVDEPOSITORY The Guidance Light Indicator for the

envelope depository unit has detected an

error.

WFS SIU CHEQUEUNIT The Guidance Light Indicator for the cheque

unit has detected an error.

WFS_SIU_BILLACCEPTOR The Guidance Light Indicator for the bill

acceptor unit has detected an error.
The Guidance Light Indicator for the

envelope dispenser unit has detected an

error.

WFS_SIU_DOCUMENTPRINTER The Guidance Light Indicator for the

document printer has detected an error.

WFS_SIU_COINACCEPTOR The Guidance Light Indicator for the coin

acceptor has detected an error.

WFS_SIU_SCANNER The Guidance Light Indicator for the scanner

has detected an error.

PortError

Specifies the error of the port indicated in the wPortType and wPortIndex by one of the following values:

Value	Meaning
WFS_ERR_SIU_INVALID_PORT	An attempt to enable or disable events to a port was invalid because the port does not exist.
WFS_ERR_SIU_SYNTAX	Syntax error in the input parameters. E.g. an attempt to both enable and disable events to the same port was made.
WFS_ERR_SIU_PORT_ERROR	A hardware error occurred while executing a command.

wPortStatus

Specifies the new state of the port indicated in the *wPortEvent*. See the WFS_INF_SIU_STATUS information command for the possible values.

lpszExtra

Pointer to a list of vendor-specific, or any other extended, information. The information is returned as a series of "key=value" strings so that it is easily extensible by Service Providers. Each string is null-terminated, with the final string terminating with two null characters. An empty list may be indicated by either a NULL pointer or a pointer to two consecutive null characters.

Comments

None.

6.3 WFS SRVE SIU POWER SAVE CHANGE

Description	This service event specifies that the power save recovery time has changed.		
Event Param	LPWFSSIUPOWERSAVECHANGE lpPowerSaveChange;		
	<pre>typedef struct wfs siu power save change { USHORT</pre>		
	<u>usPowerSaveRecoveryTime</u> <u>Specifies the actual number of seconds required by the device to resume its normal operational state. This value is zero if the device exited the power saving mode.</u>		
Comments	None.		

7. C - Header file

```
XFS - Sensors and Indicators Unit (SIU) definitions
* xfssiu.h
                                                                                                                              Deleted: WOSA/
                     Version 3.10 (29/11/2007)
                                                                                                                              Deleted: definitions
for the
                                                                                                                             Deleted: - services
#ifndef __INC_XFSSIU_ H
#define __INC_XFSSIU_ H
                                                                                                                             Deleted: 01 (16
                                                                                                                             Deleted: 01)
\begin{array}{ll} \texttt{\#ifdef} & \underline{\quad} \texttt{cplusplus} \\ \texttt{extern} & \overline{\quad} \texttt{C"} & \\ \end{array}
#endif
#include <xfsapi.h>
/* be aware of alignment */
#pragma pack (push, 1)
/* values of WFSSIUCAPS.wClass */
#define
                WFS SERVICE CLASS SIU
                                                                 (8)
#define
                WFS SERVICE CLASS NAME SIU
                                                                 "SIU"
                WFS_SERVICE_CLASS_VERSION_SIU
                                                                ▼(0x0A03) /* Version 3.10 */
#define
                                                                                                                             Deleted: 0x0103
#define
                SIU SERVICE OFFSET
                                                                 (WFS SERVICE CLASS SIU * 100)
/* SIU Info Commands */
                WFS_INF_SIU_STATUS
WFS_INF_SIU_CAPABILITIES
#define
                                                                 (SIU SERVICE OFFSET + 1)
#define
                                                                 (SIU SERVICE OFFSET + 2)
/* SIU Command Verbs */
                WFS_CMD_SIU_ENABLE_EVENTS
WFS_CMD_SIU_SET_PORTS
                                                                 (SIU_SERVICE_OFFSET + 1)
(SIU_SERVICE_OFFSET + 2)
#define
#define
                WFS_CMD_SIU_SET_DOOR
WFS_CMD_SIU_SET_INDICATOR
WFS_CMD_SIU_SET_AUXILIARY
WFS_CMD_SIU_SET_GUIDLIGHT
                                                                 (SIU_SERVICE_OFFSET + 2)
(SIU_SERVICE_OFFSET + 3)
(SIU_SERVICE_OFFSET + 4)
(SIU_SERVICE_OFFSET + 5)
(SIU_SERVICE_OFFSET + 6)
#define
#define
#define
#define
                WFS_CMD_SIU_RESET
                                                                 (SIU_SERVICE_OFFSET + 7)
#define
                WFS CMD SIU POWER SAVE CONTROL
                                                                  (SIU SERVICE OFFSET + 8)
/* SIU Messages */
                WFS_SRVE_SIU_PORT_STATUS
                                                                 (SIU SERVICE OFFSET + 1)
#define
                WFS_EXEE_SIU_PORT_ERROR
WFS_SRVE_SIU_POWER_SAVE_CHANGE
                                                                 (SIU_SERVICE_OFFSET + 2)
(SIU_SERVICE_OFFSET + 3)
#define
#define
/* Values of WFSSIUSTATUS.fwDevice */
#define
                WFS_SIU_DEVONLINE
                                                                 WFS_STAT_DEVONLINE
                WFS_SIU_DEVOFFLINE
WFS SIU DEVPOWEROFF
                                                                 WFS_STAT_DEVOFFLINE
WFS_STAT_DEVPOWEROFF
#define
#define
                                                                 WFS_STAT_DEVNODEVICE
WFS_STAT_DEVNUMEROR
WFS_STAT_DEVNUMERROR
WFS_STAT_DEVUSERERROR
WFS_STAT_DEVBUSY
#define
                WFS_SIU_DEVNODEVICE
                WFS SIU DEVHWERROR
#define
                WFS SIU DEVUSERERROR
#define
#define
                WFS SIU DEVBUSY
                WFS SIU DEVFRAUDATTEMPT
                                                                 WFS_STAT_DEVFRAUDATTEMPT
#define
/* Size and max index of fwSensors array */
                WFS_SIU_SENSORS_SIZE
WFS_SIU_SENSORS_MAX
#define
                                                                 (32)
                                                                 (WFS SIU SENSORS SIZE - 1)
#define
```

```
/* Size and max index of fwDoors array */
              WFS_SIU_DOORS_SIZE
WFS_SIU_DOORS_MAX
#define
                                                         (WFS SIU DOORS SIZE - 1)
#define
/* Size and max index of fwIndicators array */
#define
              WFS SIU INDICATORS SIZE
#define
              WFS SIU INDICATORS MAX
                                                         (WFS SIU INDICATORS SIZE - 1)
/* Size max index of fwAuxiliaries array */
#define
              WFS SIU AUXILIARIES SIZE
                                                         (16)
              WFS SIU AUXILIARIES MAX
                                                         (WFS SIU AUXILIARIES SIZE - 1)
#define
/* Size and max index of fwGuidLights array */
             WFS_SIU_GUIDLIGHTS_SIZE
WFS_SIU_GUIDLIGHTS_MAX
#define
                                                         (WFS_SIU_GUIDLIGHTS_SIZE - 1)
#define
/* Indices of WFSSIUSTATUS.fwSensors [...]
           WFSSIUCAPS.fwSensors [...]
WFSSIUENABLE.fwSensors [...]
            WFSSIUPORTEVENT.wPortIndex
            WFSSIUPORTERROR.wPortIndex */
              WFS_SIU_OPERATORSWITCH
#define
                                                         (0)
              WFS_SIU_TAMPER
WFS_SIU_INTTAMPER
#define
                                                          (1)
#define
                                                          (2)
#define
              WFS SIU SEISMIC
                                                          (3)
              WFS SIU HEAT
#define
                                                          (4)
              WFS_SIU_PROXIMITY
WFS_SIU_AMBLIGHT
#define
                                                          (5)
#define
                                                          (6)
#define
              WFS_SIU_ENHANCEDAUDIO
                                                          (7)
#define
              WFS_SIU_BOOT_SWITCH
                                                          (8)
              WFS SIU CONSUMER DISPLAY
WFS SIU OPERATOR CALL BUTTON
WFS SIU HANDSETSENSOR
#define
                                                          (9)
#define
                                                          (10)
#define
              WFS SIU GENERALINPUTPORT
#define
                                                          (12)
/* Indices of WFSSIUSTATUS.fwDoors [...]
             WFSSIUCAPS.fwDoors [...]
WFSSIUENABLE.fwDoors [...]
             WFSSIUSETPORT.fwDoors [...]
             WFSSIUSETDOORS.wDoor
WFSSIUPORTEVENT.wPortIndex
WFSSIUPORTERROR.wPortIndex */
#define
              WFS SIU CABINET
                                                          (0)
              WFS SIU SAFE
#define
                                                          (1)
#define
              WFS_SIU_VANDALSHIELD
                                                          (2)
#define
              WFS_SIU_CABINET_FRONT
#define
              WFS SIU CABINET REAR
                                                          (4)
              WFS SIU CABINET LEFT WFS SIU CABINET RIGHT
#define
                                                         (6)
#define
/* Indices of WFSSIUSTATUS.fwIndicators [...]
             WFSSIUCAPS.fwIndicators [...]
             WFSSIUENABLE.fwIndicators [...]
             WFSSIUSETPORT.wIndicators [...]
             WFSSIUSETINDICATORS.wIndicator
             {\tt WFSSIUPORTEVENT.wPortIndex}
             WFSSIUPORTERROR.wPortIndex */
#define
              WFS SIU OPENCLOSE
                                                         (0)
```

```
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```

WFS_SIU_FASCIALIGHT

WFS_SIU_AUDIO

(1)

(2)

#define

#define

```
#define
             WFS_SIU_HEATING
                                                     (3)
             WFS_SIU_CONSUMER_DISPLAY_BACKLIGHT
#define
                                                     (4)
             WFS SIU SIGNAGEDISPLAY
WFS SIU TRANSINDICATOR
#define
                                                     (5)
#define
                                                     (6)
             WFS SIU GENERALOUTPUTPORT
#define
                                                     (7)
/* Indices of WFSSIUSTATUS.fwAuxiliaries [...]
            WFSSIUCAPS.fwAuxiliaries [...]
            WFSSIUENABLE.fwAuxiliaries [...]
            WFSSIUSETPORT.wAuxiliaries [...]
            WFSSIUSETAUXILIARIES.wAuxiliary
           WFSSIUPORTEVENT.wPortIndex
WFSSIUPORTERROR.wPortIndex */
             WFS_SIU_VOLUME
WFS_SIU_UPS
#define
                                                     (0)
#define
                                                     (1)
#define
             WFS_SIU_REMOTE_STATUS_MONITOR
                                                     (2)
#define
             WFS SIU AUDIBLE ALARM
                                                     (3)
             WFS_SIU_ENHANCEDAUDIOCONTROL
#define
                                                     (4)
/* Indices of WFSSIUSTATUS.fwGuidLights [...]
            WFSSIUCAPS.fwGuidLights [...]
            WFSSIUENABLE.fwGuidLights [...]
            WFSSIUSETPORT.wGuidLights [...]
            WFSSIUSETGUIDLIGHTS.wGuidLight
            WFSSIUPORTEVENT.wPortIndex
            WFSSIUPORTERROR.wPortIndex */
             WFS_SIU_CARDUNIT
WFS_SIU_PINPAD
#define
                                                     (0)
#define
                                                     (1)
#define
             WFS SIU NOTESDISPENSER
                                                     (2)
             WFS SIU COINDISPENSER
#define
                                                     (3)
#define
             WFS SIU RECEIPTPRINTER
                                                     (4)
#define
             WFS SIU PASSBOOKPRINTER
                                                     (5)
#define
             WFS_SIU_ENVDEPOSITORY
                                                     (6)
#define
             WFS_SIU_CHEQUEUNIT
                                                     (7)
#define
             WFS SIU BILLACCEPTOR
                                                     (8)
#define
             WFS_SIU_ENVDISPENSER
                                                     (9)
#define
             WFS_SIU_DOCUMENTPRINTER
                                                     (10)
            WFS_SIU_COINACCEPTOR
WFS_SIU_SCANNER
#define
                                                     (11)
#define
                                                     (12)
/* Values of WFSSIUSTATUS.fwSensors [...]
           WFSSIUSTATUS.fwDoors [...]
           WFSSIUSTATUS.fwIndicators [...]
           {\tt WFSSIUSTATUS.fwAuxiliaries} \ [\ldots]
          WFSSIUSTATUS.fwGuidLights [...]
WFSSIUCAPS.fwSensors [...]
WFSSIUCAPS.fwDoors [...]
           WFSSIUCAPS.fwIndicators [...]
           WFSSIUCAPS.fwAuxiliaries [...]
           WFSSIUCAPS.fwGuidLights [...] */
#define
             WFS_SIU_NOT_AVAILABLE
                                                     (0x0000)
#define
             WFS SIU AVAILABLE
                                                     (0x0001)
WFSSIUPORTERROR.fwPortStatus */
#define
             WFS SIU RUN
                                                     (0x0001)
             WFS_SIU_MAINTENANCE
#define
                                                     (0x0002)
#define
             WFS_SIU_SUPERVISOR
                                                     (0x0004)
```

/* Values of WFSSIUSTATUS.fwDoors [...]

```
WFSSIUSTATUS.fwIndicators [WFS_SIU_OPENCLOSE]
           WFSSIUCAPS.fwDoors [...]
           WFSSIUCAPS.fwIndicators [WFS SIU OPENCLOSE]
           WFSSIUSETPORT.fwDoors [...]
           WFSSIUSETPORT.fwIndicators [WFS_SIU_OPENCLOSE]
           WFSSIUSETDOOR.wDoor
           WFSSIUSETINDICATOR.wCommand
           WFSSIUPORTEVENT.wPortStatus
           WFSSIUPORTERROR.wPortStatus */
#define
             WFS SIU CLOSED
                                                     (0x0001)
#define
             WFS_SIU_OPEN
                                                     (0x0002)
#define
             WFS_SIU_LOCKED
                                                     (0x0004)
#define
             WFS_SIU_BOLTED
                                                     (0x0008)
#define
             WFS_SIU_SERVICE
                                                     (0x0010)
             WFS_SIU_KEYBOARD
WFS_SIU_AJAR
#define
                                                     (0x0020)
#define
                                                     (0x0040)
#define
             WFS SIU JAMMED
                                                     (0x0080)
/* Values of WFSSIUSTATUS.fwIndicators [WFS_SIU_AUDIO]
           WFSSIUSETPORT.fwIndicators [WFS SIU AUDIO]
           WFSSIUSETINDICATOR.wCommand
           {\tt WFSSIUPORTEVENT.wPortStatus}
           WFSSIUPORTERROR.wPortStatus */
             WFS SIU KEYPRESS
#define
                                                     (0x0002)
             WFS SIU EXCLAMATION
#define
                                                     (0x0004)
#define
             WFS SIU WARNING
                                                     (0x0008)
             WFS_SIU_ERROR
#define
                                                     (0x0010)
#define
             WFS SIU CRITICAL
                                                     (0x0020)
/* Values of WFSSIUSTATUS.fwSensors [WFS_SIU_CONSUMER_DISPLAY]
          WFSSIUPORTEVENT.wPortStatus
WFSSIUPORTERROR.wPortStatus */
             WFS SIU DISPLAY ERROR
#define
                                                     (0x0004)
WFSSIUSETINDICATOR.wCommand
           WFSSIUPORTEVENT.wPortStatus[WFS_SIU_TRANSINDICATOR]
           WFSSIUPORTERROR.wPortStatus[WFS SIU TRANSINDICATOR]
             WFS SIU LAMP1
WFS SIU LAMP2
WFS SIU LAMP3
#define
                                                     (0 \times 0.001)
#define
                                                     (0x0002)
#define
                                                     (0x0004)
             WFS SIU LAMP4
#define
                                                     (0x0008)
             WFS SIU LAMP5
#define
                                                      (0x0010)
             WFS SIU LAMP6
                                                     (0x0020)
#define
#define
             WFS_SIU_LAMP7
                                                      (0x0040)
#define
             WFS SIU LAMP8
                                                     (0x0080)
#define
             WFS SIU LAMP9
                                                     (0x0100)
#define
             WFS SIU LAMP10
                                                     (0x0200)
             WFS SIU LAMP11
#define
                                                     (0x0400)
#define
             WFS SIU LAMP12
WFS SIU LAMP13
                                                     (0x0800)
#define
                                                     (0x1000)
#define
             WFS SIU LAMP14
                                                     (0x2000)
             WFS SIU LAMP15
#define
                                                     (0x4000)
#define
             WFS SIU LAMP16
/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS_SIU_REMOTE_STATUS_MONITOR] WFSSIUSETPORT.fwAuxiliaries [WFS_SIU_REMOTE_STATUS_MONITOR]
           WFSSIUSETAUXILIARY.fwCommand
           WFSSIUPORTEVENT.wPortStatus
           WFSSIUPORTERROR.wPortStatus */
#define
             WFS SIU GREEN LED ON
                                                     (0x0001)
#define
             WFS_SIU_GREEN_LED_OFF
                                                     (0x0002)
#define
             WFS_SIU_AMBER_LED_ON
                                                     (0x0004)
             WFS_SIU_AMBER_LED_OFF
WFS_SIU_RED_LED_ON
#define
                                                     (0x0008)
                                                     (0 \times 0.010)
#define
             WFS_SIU_RED LED OFF
#define
                                                     (0x0020)
```

```
/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS_SIU_ENHANCEDAUDIOCONTROL]
            WFSSIUSETPORT.fwAuxiliaries [WFS_SIU_ENHANCEDAUDIOCONTROL]
            WFSSIUSETAUXILIARY.fwCommand
            {\tt WFSSIUPORTEVENT.wPortStatus}
            WFSSIUPORTERROR.wPortStatus */
#define
              WFS_SIU_PUBLICAUDIO_MANUAL
                                                          (0x0001)
              WFS_SIU_PUBLICAUDIO_AUTO
WFS_SIU_PUBLICAUDIO_SEMI_AUTO
                                                          (0x0002)
#define
#define
                                                          (0x0004)
#define
              WFS SIU PRIVATEAUDIO MANUAL
                                                          (0x0008)
#define
              WFS SIU PRIVATEAUDIO AUTO
                                                          (0x0010)
#define
              WFS_SIU_PRIVATEAUDIO_SEMI_AUTO
                                                         (0x0020)
/* Values of WFSSIUSTATUS.fwSensors [...]
            WFSSIUSTATUS.fwIndicators [...]
            WFSSIUSTATUS.fwAuxiliaries [...]
            WFSSIUSTATUS.fwGuidLights [...]
           WFSSIUCAPS.fwSensors [...]
WFSSIUCAPS.fwIndicators [...]
            WFSSIUCAPS.fwGuidLights [...]
           WFSSIUSETPORT.fwIndicators [...]
WFSSIUSETPORT.fwAuxiliaries [...]
WFSSIUSETPORT.fwGuidLights [...]
            WFSSIUSETINDICATORS.fwCommand [...]
            WFSSIUSETAUXILIARY.fwCommand [...]
            WFSSIUSETGUIDLIGHTS.fwCommand [...]
            WFSSIUPORTEVENT.wPortStatus
            WFSSIUPORTERROR.wPortStatus */
#define
              WFS_SIU_OFF
                                                          (0x0001)
              WFS_SIU_ON
WFS_SIU_SLOW_FLASH
#define
                                                          (0x0002)
#define
                                                          (0x0004)
#define
              WFS SIU MEDIUM FLASH
                                                          (0x0008)
              WFS_SIU_QUICK_FLASH
WFS_SIU_CONTINUOUS
#define
                                                          (0x0010)
#define
                                                          (0x0080)
/* Flags for WFSSIUSTATUS.fwSensors [WFS_SIU_GENERALINPUTPORT]
WFSSIUSTATUS.fwIndicators [WFS_SIU_GENERALOUTPUTPORT]
           WFSSIUSETPORT.fwIndicators [WFS SIU GENERALOUTPUTPORT] WFSSIUSETINDICATOR.wCommand
            WFSSIUPORTEVENT.wPortStatus[WFS_SIU_GENERALINPUTPORT]
           WFSSIUPORTEVENT.wPortStatus[WFS SIU GENERALOUTPUTPORT]
WFSSIUPORTERROR.wPortStatus[WFS SIU GENERALINPUTPORT]
            WFSSIUPORTERROR.wPortStatus[WFS SIU GENERALOUTPUTPORT] */
#define
              WFS SIU GPP1
                                                          (0x0001)
#define
              WFS_SIU_GPP2
                                                          (0x0002)
#define
              WFS SIU GPP3
                                                          (0x0004)
#define
              WFS SIU GPP4
                                                          (0x0008)
              WFS SIU GPP5
#define
                                                          (0x0010)
#define
                                                          (0x0020)
#define
              WFS SIU GPP7
                                                          (0x0040)
#define
                                                          (0x0080)
#define
              WFS SIU GPP9
                                                          (0x0100)
#define
              WFS SIU GPP10
                                                          (0x0200)
#define
              WFS SIU GPP11
                                                          (0x0400)
#define
              WFS SIU GPP12
                                                          (0x0800)
#define
              WFS SIU GPP13
                                                          (0x1000)
              WFS SIU GPP14
WFS SIU GPP15
#define
                                                          (0x2000)
#define
                                                          (0x4000)
#define
              WFS SIU GPP16
                                                          (0x8000)
/* Values of WFSSIUSTATUS.fwSensors [WFS SIU PROXIMITY]
            WFSSIUSTATUS.fwSensors [WFS SIU ENHANCEDCONTROL]
            WFSSIUPORTEVENT.wPortStatus
            WFSSIUPORTERROR.wPortStatus */
              WFS SIU PRESENT
#define
                                                         (0 \times 0.001)
              WFS SIU NOT PRESENT
                                                          (0x0002)
#define
```

```
/* Values of WFSSIUSTATUS.fwSensors [WFS SIU HANDSETSENSOR] */
             WFS SIU OFF THE HOOK
WFS SIU ON THE HOOK
#define
                                                        (0 \times 0.001)
#define
                                                        (0x0002)
/* Values of WFSSIUCAPS.fwSensors [WFS SIU ENHANCEDAUDIO]
           WFSSIUCAPS.fwSensors [WFS SIU HANDSETSENSOR]
#define
              WFS_SIU_MANUAL
                                                        (0x0001)
#define
             WFS_SIU_AUTO
                                                        (0x0002)
             WFS_SIU_SEMI_AUTO
#define
                                                        (0X0004)
/* Values of WFSSIUSTATUS.fwSensors [WFS SIU AMBLIGHT]
           WFSSIUCAPS.fwSensors [WFS SIU AMBLIGHT]
           WFSSIUPORTEVENT.fwPortStatus
           WFSSIUPORTERROR.fwPortStatus */
             WFS_SIU_VERY_DARK WFS_SIU_DARK
#define
                                                        (0x0001)
#define
                                                        (0x0002)
#define
             WFS_SIU_MEDIUM_LIGHT
                                                        (0x0004)
             WFS_SIU_LIGHT
WFS_SIU_VERY_LIGHT
                                                        (0x0008)
#define
                                                        (0x0010)
#define
/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS SIU UPS]
               WFSSIUCAPS.fwAuxiliaries [WFS SIU UPS]
               WFSSIUPORTEVENT.wPortStatus
               WFSSIUPORTERROR.wPortStatus */
#define WFS_SIU_LOW
#define WFS_SIU_ENGAGED
#define WFS_SIU_POWERING
#define WFS_SIU_RECOVERED
                                                        (0x0002)
                                                        (0x0004)
                                                        (0x0008)
                                                        (0x0010)
/* Values of WFSSIUCAPS.fwType */
             WFS SIU SENSORS
#define
                                                        (0x0001)
             WFS_SIU_DOORS
WFS_SIU_INDICATORS
WFS_SIU_AUXILIARIES
WFS_SIU_GUIDLIGHTS
#define
                                                        (0x0002)
#define
                                                        (0x0004)
                                                        (0x0008)
#define
                                                        (0x0010)
#define
/* Values of WFSSIUCAPS.fwAuxiliaries [WFS SIU ENHANCEDAUDIOCONTROL] */
#define
             WFS SIU HEADSET DETECTION
                                                        (0x0001)
#define
             WFS SIU MODE CONTROLLABLE
                                                        (0x0002)
/* Values of WFSSIUENABLE.fwSensors [...]
           WFSSIUENABLE.fwDoors [...]
WFSSIUENABLE.fwIndicators [...]
           WFSSIUENABLE.fwAuxiliaries [...]
           WFSSIUENABLE.fwGuidLights [...]
           WFSSIUSETPORTS.fwDoors [...]
           WFSSIUSETPORTS.fwIndicators [...]
           WFSSIUSETPORTS.fwAuxiliaries [...]
           WFSSIUSETPORTS.fwGuidLights [...] */
             WFS_SIU_NO_CHANGE
WFS_SIU_ENABLE_EVENT
#define
                                                        (0x0000)
                                                        (0x0001)
#define
#define
             WFS_SIU_DISABLE_EVENT
                                                        (0x0002)
/* Values of WFSSIUSETPORTS.fwDoors [...]
           WFSSIUSETDOORS.fwCommand [...] */
#define
              WFS_SIU_BOLT
                                                        (0x0001)
#define
             WFS_SIU_UNBOLT
                                                        (0x0002)
/* Values of WFSSIUSETPORTS.fwAuxiliaries [WFS SIU UPS]
```

```
WFSSIUSETAUXILIARY.wAuxiliary [WFS_SIU_UPS] */
                                                     (0 \times 0.001)
#define WFS_SIU_ENGAGE
#define WFS_SIU_DISENGAGE
                                                    (0x0002)
/* XFS SIU Errors */
#define
            WFS ERR SIU INVALID PORT
                                                    (-(SIU SERVICE OFFSET + 1))
            WFS ERR SIU SYNTAX
                                                    (-(SIU SERVICE OFFSET + 2))
#define
            WFS ERR SIU PORT ERROR
                                                     (-(SIU_SERVICE_OFFSET + 3))
            WFS ERR SIU POWERSAVETOOSHORT
                                                     (-(SIU SERVICE OFFSET + 4))
/*_____*/
/* SIU Info Command Structures and variables */
/*=======*/
typedef struct _wfs_siu_status
                     fwSensors [WFS SIU SENSORS SIZE];
    WORD
                     fwDoors [WFS_SIU_DOORS_SIZE];
fwIndicators [WFS_SIU_INDICATORS_SIZE];
fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
    WORD
    WORD
    WORD
    WORD
    LPSTR
                     lpszExtra;
                     usPowerSaveRecoveryTime;
    USHOR?
} WFSSIUSTATUS, *LPWFSSIUSTATUS;
typedef struct _wfs_siu_caps
    WORD
                     wClass;
    WORD
                     fwType;
                     fwSensors [WFS SIU SENSORS SIZE];
    WORD
                     fwDoors [WFS_SIU_DOORS_SIZE];
fwIndicators [WFS_SIU_INDICATORS_SIZE];
    WORD
    WORD
    WORD
                     fwAuxiliaries [WFS SIU AUXILIARIES SIZE];
    WORD
                     fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
    LPSTR
                     lpszExtra;
    BOOL
                     bPowerSaveControl;
} WFSSIUCAPS, *LPWFSSIUCAPS;
/*========*/
/* SIU Execute Command Structures */
typedef struct _wfs_siu_enable
    WORD
                     fwSensors [WFS_SIU_SENSORS_SIZE];
                     fwDoors [WFS_SIU_DOORS_SIZE];
fwIndicators [WFS_SIU_INDICATORS_SIZE];
fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
    WORD
    WORD
    WORD
                     fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
    WORD
    LPSTR
                     lpszExtra:
} WFSSIUENABLE, *LPWFSSIUENABLE;
typedef struct _wfs_siu_set_ports
                     fwDoors [WFS_SIU_DOORS_SIZE];
fwIndicators [WFS_SIU_INDICATORS_SIZE];
fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
    WORD
    WORD
    WORD
                     fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
    WORD
                     lpszExtra;
    LPSTR
} WFSSIUSETPORTS, *LPWFSSIUSETPORTS;
typedef struct _wfs_siu_set_door
    WORD
                     wDoor;
                     fwCommand:
    WORD
} WFSSIUSETDOOR, *LPWFSSIUSETDOOR;
```

```
typedef struct _wfs_siu_set_indicator
                    wIndicator;
    WORD
    WORD
                    fwCommand;
} WFSSIUSETINDICATOR, *LPWFSSIUSETINDICATOR;
typedef struct _wfs_siu_set_auxiliary
    WORD
                    wAuxiliary;
    WORD
                    fwCommand;
} WFSSIUSETAUXILIARY, *LPWFSSIUSETAUXILIARY;
typedef struct _wfs_siu_set_guidlight
                    wGuidLight;
    WORD
                    fwCommand;
} WFSSIUSETGUIDLIGHT, *LPWFSSIUSETGUIDLIGHT;
typedef struct wfs siu power save control
                    usMaxPowerSaveRecoveryTime;
    USHORT
} WFSSIUPOWERSAVECONTROL, *LPWFSSIUPOWERSAVECONTROL;
/* SIU Message Structures */
/*=======*/
typedef struct _wfs_siu_port_event
                    wPortType;
    WORD
    WORD
                    wPortIndex:
    WORD
                    wPortStatus;
                    lpszExtra;
} WFSSIUPORTEVENT, *LPWFSSIUPORTEVENT;
typedef struct _wfs_siu_port_error
    WORD
                   wPortType;
    WORD
                    wPortIndex:
    HRESULT
                   PortError;
                   wPortStatus;
                    lpszExtra;
} WFSSIUPORTERROR, *LPWFSSIUPORTERROR;
typedef struct wfs siu power save change
USHORT usPowerSaveRecoveryTime;
WFSSIUPOWERSAVECHANGE, *LPWFSSIUPOWERSAVECHANGE;
/* restore alignment */
#pragma pack (pop)
#ifdef __cplusplus
} /*extern "C"*/
#endif
#endif /* __INC_XFSSIU__H */
```