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WORKSHOP

AGREEMENT

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Extensions for Financial Services (XFS) interface specification Release 3.20 - Part 69: Sensors and Indicators Unit Device Class Interface Migration from Version 3.10 (CWA 15748) to Version 3.20 (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 3.20 of the XFS interface specification.

This CEN Workshop Agreement has been drafted and approved by a Workshop of representatives of interested parties on 2011-06-29, the constitution of which was supported by CEN following the public call for participation made on 1998-06-24. The specification is continuously reviewed and commented in the CEN/ISSS Workshop on XFS. It is therefore expected that an update of the specification will be published in due time as a CWA, superseding this revision 3.20.

A list of the individuals and organizations which supported the technical consensus represented by the CEN Workshop Agreement is available to purchasers from the CEN-CENELEC Management Centre. These organizations were drawn from the banking sector. The CEN/ISSS XFS Workshop gathered suppliers as well as banks and other financial service companies.

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

Part 1: Application Programming Interface (API) - Service Provider Interface (SPI) - Programmer's Reference

Part 2: Service Classes Definition - Programmer's Reference

Part 3: Printer and Scanning Device Class Interface - Programmer's Reference

Part 4: Identification Card Device Class Interface - Programmer's Reference

Part 5: Cash Dispenser Device Class Interface - Programmer's Reference

Part 6: PIN Keypad Device Class Interface - Programmer's Reference

Part 7: Check Reader/Scanner Device Class Interface - Programmer's Reference

Part 8: Depository Device Class Interface - Programmer's Reference

Part 9: Text Terminal Unit Device Class Interface - Programmer's Reference

Part 10: Sensors and Indicators Unit Device Class Interface - Programmer's Reference

Part 11: Vendor Dependent Mode Device Class Interface - Programmer's Reference

Part 12: Camera Device Class Interface - Programmer's Reference

Part 13: Alarm Device Class Interface - Programmer's Reference

Part 14: Card Embossing Unit Class Interface - Programmer's Reference

Part 15: Cash-In Module Device Class Interface - Programmer's Reference

Part 16: Card Dispenser Device Class Interface - Programmer's Reference

Part 17: Barcode Reader Device Class Interface - Programmer's Reference

Part 18: Item Processing Module Device Class Interface- Programmer's Reference

Parts 19 - 28: Reserved for future use.

Parts 29 through 47 constitute an optional addendum to this CWA. They define the integration between the SNMP standard and the set of status and statistical information exported by the Service Providers.

Part 29: XFS MIB Architecture and SNMP Extensions

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

- Part 42: Reserved for future use.
- Part 43: XFS MIB Device Specific Definitions Vendor Dependent Mode 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 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 62: Printer and Scanning Device Class Interface - Migration from Version 3.10 (CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 63: Identification Card Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 64: Cash Dispenser Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 65: PIN Keypad Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 66: Check Reader/Scanner Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 67: Depository Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 68: Text Terminal Unit Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 69: Sensors and Indicators Unit Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 70: Vendor Dependent Mode Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 71: Camera Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 72: Alarm Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 73: Card Embossing Unit Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 74: Cash-In Module Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 75: Card Dispenser Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 76: Barcode Reader Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

Part 77: Item Processing Module Device Class Interface - Migration from Version 3.10 (see CWA 15748) to Version 3.20 (this CWA) - Programmer's Reference

In addition to these Programmer's Reference specifications, the reader of this CWA is also referred to a complementary document, called Release Notes. The Release Notes contain clarifications and explanations on the CWA specifications, which are not requiring functional changes. The current version of the Release Notes is available online from

http://www.cen.eu/cen/pages/default.aspx.

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

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

The final review/endorsement round for this CWA was started on 2011-06-23 and was successfully closed on 2011-07-23. The final text of this CWA was submitted to CEN for publication on 2011-08-26.

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

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

1. Migration Information

XFS 3.20 has been designed to minimize backwards compatibility issues. This document highlights the changes made to the SIU device class between version 3.10 and 3.20, 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**, **WFSAsyncGetInfo**, **WFSAsyncGetInfo**, **WFSAsyncGetInfo**, **WFSAsyncFacute** and **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.
- Enhanced Audio Controller, 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.

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: i.e. whether the activation of the Privacy Device 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.

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

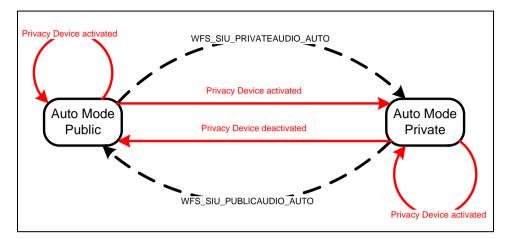
In auto mode, when a consumer activates the Privacy Device, the audio is automatically directed to the Privacy Device and the audio is no longer sent to the speakers. When the Privacy Device is deactivated, the audio is redirected to the speakers. The following state diagram completely describes the 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: There are no events associated with this auxiliary.

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Auto Mode State Diagram 1

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_<u>PORTS</u> 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 *fwAuxiliaries[WFS_SIU_ENHANCEDAUDIOCONTROL]* in the WFSSIUCAPS structure.

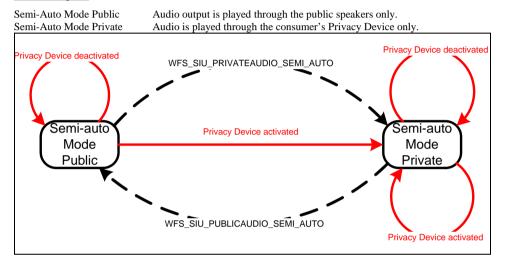
Deleted: PORT

Semi-Auto Mode

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

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 State Diagram 2

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_<u>PORTS</u> or WFS_CMD_SIU_SET_AUXILIARY for the WFS_SIU_ENHANCEDAUDIOCONTROL auxiliary with values of WFS_SIU_PRIVATEAUDIO_AUTO or WFS_SIU_PUBLICAUDIO_AUTO.

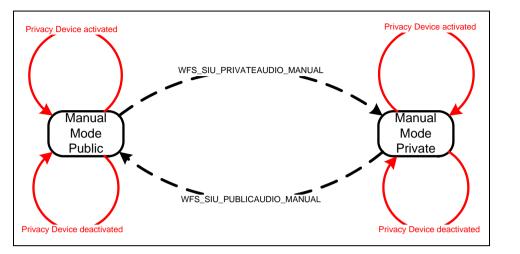
Manual Mode

In manual mode, when a consumer's Privacy Device is activated, the audio remains directed at the existing interface (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.

State Description

Manual Mode Public Manual Mode Private Audio output is played through the public speakers only. Audio is played through the consumer's Privacy Device only. Deleted: PORT

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Manual Mode State Diagram 1

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_<u>PORTS</u> 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_PORTS, etc. with the WFS_SIU_PUBLICAUDIO_AUTO, WFS_SIU_PRIVATEAUDIO_AUTO, WFS_SIU_PUBLICAUDIO_SEMI_AUTO, and WFS_SIU_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 Privacy Device (vendor hardware permitting).

Deleted: PORT

3. References

1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference Revision 3.20

Deleted: 10, November 29, 2007

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;

typedef struct _wfs_siu_status

{	
WORD	fwDevice;
WORD	fwSensors [WFS_SIU_SENSORS_SIZE];
WORD	<pre>fwDoors [WFS_SIU_DOORS_SIZE];</pre>
WORD	<pre>fwIndicators [WFS_SIU_INDICATORS_SIZE];</pre>
WORD	<pre>fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];</pre>
WORD	<pre>fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];</pre>
LPSTR	lpszExtra;
USHORT	usPowerSaveRecoveryTime;
WORD	wAntiFraudModule;
<pre>} WFSSIUSTATUS,</pre>	*LPWFSSIUSTATUS;

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 is inoperable
	because it has detected a fraud attempt.
WFS_SIU_DEVPOTENTIALFRAUD	The device has detected a potential fraud
	attempt and is capable of remaining in
	service. In this case the application should
	make the decision as to whether to take the
	device offline.

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:

Meaning
The status is not available.
There is no indication of a tampering
attempt.
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.

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.

The sensor is showing that there is someone

The sensor can not sense any people around

present at the terminal.

the terminal.

WFS_SIU_PRESENT

WFS_SIU_NOT_PRESENT

fwSensors [WFS_SIU_AMBLIGHT]

Specifies the state of the Ambient Light Sensor. This sensor indicates the level of ambient light around the terminal. 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. 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	The level of light is: medium light.
WFS_SIU_LIGHT	The level of light is: light.
WFS_SIU_VERY_LIGHT	The level of light is: very light.

fwSensors [WFS_SIU_ENHANCEDAUDIO]

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

Value Meaning	
WFS_SIU_NOT_AVAILABLE The status is not avail	lable.
WFS_SIU_PRESENT There is a headset co	nnected.
WFS_SIU_NOT_PRESENT There is no headset c	onnected.

fwSensors [WFS_SIU_BOOT_SWITCH]

Specifies the state of the Boot Switch Sensor. This sensor is triggered whenever the terminal is about to be rebooted <u>or shutdown</u> 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 or
	shutdown.
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
	off.
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.
 WFS_SIU_GPP16	General-Purpose Input Port 16.

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 WFS_SIU_JAMMED The Vandal Shield is ajar. 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
WFS SIU LOCKED	open. 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
WFS_SIU_LOCKED WFS_SIU_BOLTED	open. All Left Cabinet Doors are closed and locked. 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
WFS_SIU_LOCKED	open. 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	Туре
WFS_SIU_NOT_AVAILABLE	The status is not available.	А
WFS_SIU_OFF	The Audio Indicator is turned off.	А
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.	С

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 Internal Heating is turned off.
WFS_SIU_ON	The Internal 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.

Transaction mule

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	Туре
WFS_SIU_NOT_AVAILABLE	The status is not available.	А
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.	

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	Type
WFS_SIU_NOT_AVAILABLE	The status is not available.	А
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.	С
WFS_SIU_AMBER_LED_OFF	The amber LED is off.	С
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 one 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_ENHANCEDAUDIOCONTROL]

Specifies the state of the Enhanced Audio Controller. 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 Enhanced Audio Controller state is specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_PUBLICAUDIO_MANUAL	The Enhanced Audio Controller is in manual mode and is in the public state (i.e. audio will be played through speakers). Activating a Privacy Device (headset connected/handset off-hook) will have no impact, i.e. Output will remain through the speakers & no audio will be directed to the Privacy Device.
WFS_SIU_PUBLICAUDIO_AUTO	The Enhanced Audio Controller is in auto mode and is in the public state (i.e. audio will be played through speakers). When a Privacy Device is activated, the device will go to the private state.
WFS_SIU_PUBLICAUDIO_SEMI_AUTO	The Enhanced Audio Controller is in semi- auto mode and is in the public state (i.e. audio will be played through speakers). When a Privacy Device is activated, the device will go to the private state.

WFS_SIU_PRIVATEAUDIO_MANUAL WFS_SIU_PRIVATEAUDIO_AUTO	The Enhanced Audio Controller is in manual 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. The Enhanced Audio Controller is in auto
	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 (headset disconnected/handset on-hook), the device will go to the public state.
WFS_SIU_PRIVATEAUDIO_SEMI_AUTO	The Enhanced Audio Controller is in semi- auto 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.

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.

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_OFF	The light is turned off.
WFS_SIU_SLOW_FLASH	The light is blinking slowly.
WFS_SIU_MEDIUM_FLASH	The light is blinking medium frequency.
WFS_SIU_QUICK_FLASH	The light is blinking quickly.
WFS_SIU_CONTINUOUS	The light is turned on continuous (steady).

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.

specifies the state of the Outdance Light indicator on the off acceptor

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.

usPowerSaveRecoveryTime

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

wAntiFraudModule

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

Value	Meaning
WFS_SIU_AFMNOTSUPP	No anti-fraud module is available.
WFS_SIU_AFMOK	Anti-fraud module is in a good state and no
	foreign device is detected.
WFS_SIU_AFMINOP	Anti-fraud module is inoperable.
WFS_SIU_AFMDEVICEDETECTED	Anti-fraud module detected the presence of a
	foreign device.
WFS_SIU_AFMUNKNOWN	The state of the anti-fraud module cannot be
	determined.

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

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

In the case where 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 WFS_SIU_NOT_AVAILABLE. *fwDevice* will report WFS_SIU_DEVONLINE so long as at least one status field can be reported.

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;

1 1	
typedef struct _wfs	s_siu_caps
{	
WORD	wClass;
WORD	fwType;
WORD	fwSensors [WFS_SIU_SENSORS_SIZE];
WORD	<pre>fwDoors [WFS_SIU_DOORS_SIZE];</pre>
WORD	fwIndicators [WFS_SIU_INDICATORS_SIZE];
WORD	<pre>fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];</pre>
WORD	fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
LPSTR	lpszExtra;
BOOL	bPowerSaveControl;
WORD	fwAutoStartupMode;
BOOL	bAntiFraudModule;
<pre>} WFSSIUCAPS,</pre>	*LPWFSSIUCAPS;

wClass

Specifies the logical service class as WFS_SERVICE_CLASS_SIU.

fwType

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.	А
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

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:

Value WFS_SIU_NOT_AVAILABLE	Meaning There is no Internal Tamper Senso)r
WFS_SIU_NOT_AVAILABLE	available.	
WFS_SIU_AVAILABLE	The Internal Tamper Sensor is ava	ulable.
fwSensors [WFS_SIU_SEISMIC] Specifies whether the Seismic Sensor is avail	lable. Specified as one of the following fla	gs:
Value	Meaning	
WFS_SIU_NOT_AVAILABLE WFS_SIU_AVAILABLE	There is no Seismic Sensor availal The Seismic Sensor is available.	ble.
fwSensors [WFS_SIU_HEAT] Specifies whether the Heat Sensor is available		
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 av	ailable. Specified as one of the following f	lags:
Value	Meaning	
WFS_SIU_NOT_AVAILABLE	There is no Proximity Sensor avai	
WFS_SIU_AVAILABLE	The Proximity Sensor is available	
fwSensors [WFS_SIU_AMBLIGHT] Specifies whether the Ambient Light Sensor	is available. Specified as one of the follow	ing flags
Value	Meaning	
WFS_SIU_NOT_AVAILABLE WFS_SIU_AVAILABLE	There is no Ambient Light Sensor The Ambient Light Sensor is avail	availabl
fwSensors [WFS_SIU_ENHANCEDAUDIO]	1	
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb	and if so, which modes it supports. Specifi bination of the following flags of type B:	
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value	and if so, which modes it supports. Specifi bination of the following flags of type B: Meaning	Туре
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and	
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available.	Type A
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL WFS_SIU_AUTO	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode.	Type A B B
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode. The Audio Jack is available and	Type A B
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL WFS_SIU_AUTO WFS_SIU_SEMI_AUTO fwSensors [WFS_SIU_BOOT_SWITCH]	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode. The Audio Jack is available and supports semi-auto mode.	Type A B B
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL WFS_SIU_AUTO WFS_SIU_SEMI_AUTO fwSensors [WFS_SIU_BOOT_SWITCH]	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode. The Audio Jack is available and supports semi-auto mode.	Type A B B
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL WFS_SIU_AUTO WFS_SIU_SEMI_AUTO fwSensors [WFS_SIU_BOOT_SWITCH] Specifies whether the Boot Switch is availab Value WFS_SIU_NOT_AVAILABLE	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode. The Audio Jack is available and supports semi-auto mode. le. Specified as one of the following flags:	Type A B B B
WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL WFS_SIU_AUTO WFS_SIU_SEMI_AUTO fwSensors [WFS_SIU_BOOT_SWITCH] Specifies whether the Boot Switch is availab Value	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode. The Audio Jack is available and supports semi-auto mode. le. Specified as one of the following flags: <u>Meaning</u> There is no Boot Switch Sensor av The Boot Switch Sensor is available <i>AYJ</i>	Type A B B B
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL WFS_SIU_AUTO WFS_SIU_SEMI_AUTO fwSensors [WFS_SIU_BOOT_SWITCH] Specifies whether the Boot Switch is availab Value WFS_SIU_NOT_AVAILABLE WFS_SIU_AVAILABLE fwSensors [WFS_SIU_CONSUMER_DISPL Specifies whether the Consumer Display Ser	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode. The Audio Jack is available and supports semi-auto mode. le. Specified as one of the following flags: <u>Meaning</u> There is no Boot Switch Sensor av The Boot Switch Sensor is available <i>AYJ</i>	Type A B B B
Specifies whether the Audio Jack is present, WFS_SIU_NOT_AVAILABLE or as a comb Value WFS_SIU_NOT_AVAILABLE WFS_SIU_MANUAL WFS_SIU_AUTO WFS_SIU_SEMI_AUTO fwSensors [WFS_SIU_BOOT_SWITCH] Specifies whether the Boot Switch is availab Value WFS_SIU_NOT_AVAILABLE WFS_SIU_NOT_AVAILABLE fwSensors [WFS_SIU_CONSUMER_DISPL Specifies whether the Consumer Display Ser flags:	and if so, which modes it supports. Specifi bination of the following flags of type B: <u>Meaning</u> There is no Audio Jack available. The Audio Jack is available and supports manual mode. The Audio Jack is available and supports auto mode. The Audio Jack is available and supports semi-auto mode. le. Specified as one of the following flags: <u>Meaning</u> There is no Boot Switch Sensor av The Boot Switch Sensor is available AYJ asor is available. Specified as one of the following flags:	Type A B B vailable. ble.

Specifies whether the Operator Call Button is available. The Operator Call Button does not actually call the operator but just sends a signal to the application. Specified as one of the following flags:

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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Handset available.	А
WFS_SIU_MANUAL	The Handset is available and it supports manual mode.	В
WFS_SIU_AUTO	The Handset is available and it supports auto mode.	В
WFS_SIU_SEMI_AUTO	The Handset is available and it supports semi-auto mode.	В

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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Cabinet Door available.	А
WFS_SIU_CLOSED	At least one of the Cabinet Doors can detect a closed state.	В
WFS_SIU_OPEN	At least one of the Cabinet Doors can detect an open state.	В
WFS_SIU_LOCKED	At least one of the Cabinet Doors can be locked.	В
WFS_SIU_BOLTED	At least one of the Cabinet Doors can be bolted.	В

fwDoors [WFS_SIU_SAFE]

Specifies whether the Safe Doors are 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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Safe Door available.	А
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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Vandal Shield available.	А
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 service position.	В
WFS_SIU_KEYBOARD	The Vandal Shield can be in position that permits access to the keyboard.	В

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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Front Cabinet Door available.	А
WFS_SIU_CLOSED	At least one of the Front Cabinet Doors can detect a closed state.	В
WFS_SIU_OPEN	At least one of the Front Cabinet Doors can detect an open state.	В
WFS_SIU_LOCKED	At least one of the Front Cabinet Doors can be locked.	В
WFS_SIU_BOLTED	At least one of the Front Cabinet Doors can be bolted.	В

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

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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Left Cabinet Door available.	А
WFS_SIU_CLOSED	At least one of the Left Cabinet Doors can detect a closed state.	В
WFS_SIU_OPEN	At least one of the Left Cabinet Doors can detect an open state.	В
WFS_SIU_LOCKED	At least one of the Left Cabinet Doors can be locked.	В
WFS_SIU_BOLTED	At least one of the Left Cabinet Doors can be bolted.	В

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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Right Cabinet Door available.	А
WFS_SIU_CLOSED	At least one of the Right Cabinet Doors can detect a closed state.	В
WFS_SIU_OPEN	At least one of the Right Cabinet	В
WFS_SIU_LOCKED	Doors can detect an open state. At least one of the Right Cabinet	В
WES SHI DOLTED	Doors can be locked.	D
WFS_SIU_BOLTED	At least one of the Right Cabinet Doors can be bolted.	В

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	There is no Fascia Light available.
WFS_SIU_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	Туре
WFS_SIU_NOT_AVAILABLE	There is no UPS available.	А
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. The Remote Status Monitor device uses LEDs for displaying the status of the system. 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	Туре
WFS_SIU_NOT_AVAILABLE	There is no Enhanced Audio	А
	Controller available.	
WFS_SIU_HEADSET_DETECTION	The Enhanced Audio Controller	В
	is available and supports Privacy	
	Device activation/deactivation.	
	The device is able to report events	5
	to indicate Privacy Device	
	activation/deactivation.	

WFS_SIU_MODE_CONTROLLABLE

The Enhanced Audio Controller B is available and supports application control of the Privacy Device mode via the WFS_CMD_SIU_SET_PORTS and WFS_CMD_<u>SIU_SET_AUXILIARY</u> command.

fwGuidLights [...]

Specifies which Guidance Light Indicators 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:

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.

bPowerSaveControl

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

fwAutoStartupMode

Specifies which mode of the auto start-up control is supported. 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 auto start-up control	A
WFS_SIU_AUTOSTARTUP_SPECIFIC	available. The device supports one-time	B
	auto start-up on a specific date at a specific time.	_
WFS_SIU_AUTOSTARTUP_DAILY	The device supports auto	B
	<u>start-up every day at a specific</u> <u>time.</u>	
WFS_SIU_AUTOSTARTUP_WEEKLY	The device supports auto	B
	start-up at a specified time	
	on a specific day of every week.	
<u>AntiFraudModule</u> pecifies whether the anti-fraud module is availab	le. This can either be TRUE if availa	ble 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.

4.3 WFS INF SIU GET AUTOSTARTUP TIME

Description	This command is used to retrieve the availability of	of the auto start-up time function as well as the
_	current configuration of the auto start-up time.	-
Input Param	None.	
Output Param	LPWFSSIUGETSTARTUPTIME lpGetStartupTime;	
	typedef struct _wfs_siu_get_startup_t	ime
	WORD wMode;	
	LPSYSTEMTIME lpStartTime;	
	<pre>} WFSSIUGETSTARTUPTIME, *LPWFSSI</pre>	UGETSTARTUPTIME;
	<u>wMode</u> Specifies the current auto start-up control mode co	onfigured as one of the following flags
	Value	Meaning
	WFS_SIU_AUTOSTARTUP_CLEAR	No auto start-up time is configured.
	WFS_SIU_AUTOSTARTUP_SPECIFIC	One-time auto start-up at a specific time on a
		specific date has been configured.
		In the <i>lpStartTime</i> parameter, only <i>wYear</i> , <i>wMonth</i> , <i>wDay</i> , <i>wHour</i> and <i>wMinute</i> are
		relevant. All other field must be ignored.
	WFS SIU AUTOSTARTUP DAILY	Auto start-up every day has been configured.
		In the <i>lpStartTime</i> parameter, only <i>wHour</i> and <i>wMinute</i> are relevant. All other fields
		must be ignored.
	WFS SIU AUTOSTARTUP WEEKLY	Auto start-up at a specified time on a specified
		day of every week has been configured.
		In the <i>lpStartTime</i> parameter, only wDayOfWeek, wHour and wMinute are
		relevant. All other fields must be ignored.
	<u>lpStartTime</u> Specifies the current auto start-up time configurate	ion.
	Win32 SYSTEMTIME structure:	
	<u>wYear</u> Specifies the year. The value should be ignored	d if it is not relevant to the <i>wMode</i> value.
	<u>wMonth</u> Specifies the month. The value should be igno	red if it is not relevant to the <i>wMode</i> value.
	<u>wDayOfWeek</u> Specifies the day of the week, in values from () (Sunday) to 6 (Saturday). The value should be
	ignored if it is not relevant to the <i>wMode</i> value	<u>h</u>
	<u>wDay</u> Specifies the day of the month. The value shot value.	uld be ignored if it is not relevant to the wMode
	<u>wHour</u> Specifies the hour. The value should be ignore	d if it is not relevant to the <i>wMode</i> value.
	<u>wMinute</u> Specifies the minute. The value should be igno	ored if it is not relevant to the <i>wMode</i> value.
	<u>wSecond</u> This field is not used and will be zero.	
	<u>wMilliseconds</u> This field is not used and will be zero.	
Error Codes	Only the generic error codes defined in [Ref. 1] ca	in be generated by this command.

Events	None.
Comments	None.

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;

typedef struct _wfs_siu_enable
{

fwSensors [WFS_SIU_SENSORS_SIZE];
<pre>fwDoors [WFS_SIU_DOORS_SIZE];</pre>
<pre>fwIndicators [WFS_SIU_INDICATORS_SIZE];</pre>
<pre>fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];</pre>
<pre>fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];</pre>
lpszExtra;
*LPWFSSIUENABLE;

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.
wSensors [WFS_SIU_SEISMIC]	
pecifies whether the Seismic Sensor should	d report whenever any seismic activity is detected.
nonified as one of the following flags.	

fw

Value

Sp Specified as one of the following flags:

Meaning WFS_SIU_NO_CHANGE Do not change the current reporting status. The Seismic Sensor should report whenever

The Seismic Sensor should not report any

it detects any seismic activity.

changes of its status.

WFS_SIU_ENABLE_EVENT

WFS_SIU_DISABLE_EVENT

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 Audio Jack should report whenever it detects changes in the audio jack. 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
	<u>or shutdown</u> .
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:

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 [...]

Value

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:

Meaning

WFS_SIU_NO_CHANGE Do not change the current reporting status.

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.

WFS_SIU_ENABLE_EVENT

WFS_SIU_DISABLE_EVENT

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
WFS_SIU_DISABLE_EVENT	Port is turned on or off. 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
	whenever it is changed.
WFS_SIU_DISABLE_EVENT	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
WFS_SIU_DISABLE_EVENT	changed. 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

WFS_SIU_DISABLE_EVENT

The Remote Status Monitor device should report whenever it is changed. 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.
WFS_SIU_DISABLE_EVENT	The Enhanced Audio Controller device
	should not report any changes.

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 None.

Events

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

Value	Meaning
WFS_ERR_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.
addition to the generic events defined in [R	ef. 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. LPWFSSIUSETPORTS lpSetPorts; **Input Param** typedef struct _wfs_siu_set_ports WORD fwDoors [WFS_SIU_DOORS_SIZE]; fwIndicators [WFS_SIU_INDICATORS_SIZE]; fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE]; WORD WORD WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; lpszExtra; LPSTR } WFSSIUSETPORTS, *LPWFSSIUSETPORTS; fwDoors [WFS_SIU_CABINET] Specifies whether all 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 Cabinet Doors WFS_SIU_BOLT All Cabinet Doors are bolted. WFS_SIU_UNBOLT All Cabinet Doors are unbolted. 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 WFS_SIU_UNBOLT All Rear Cabinet Doors are bolted. 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
WFS_SIU_OPEN	consumer. 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:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the light.
WFS_SIU_OFF	The Fascia Light is turned off.
WFS_SIU_ON	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:

Value	Meaning	Туре
WFS_SIU_NO_CHANGE	Do not change the current status	А
	of the Audio Indicator.	
WFS_SIU_OFF	The Audio Indicator is turned off.	А
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key	В
	click signal.	
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an exclamation signal.	В
	e	D
WFS_SIU_WARNING	The Audio Indicator sounds a warning signal.	В
WFS_SIU_ERROR	The Audio Indicator sounds an error signal.	В
	6	

WFS_SIU_CRITICAL	The Audio Indicator sounds a	В
	critical error signal.	
WFS_SIU_CONTINUOUS	The Audio Indicator sound is	С
	turned on continuously.	

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 Internal Heating device is turned off.
WFS_SIU_ON	The Internal Heating device 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
	on.
WFS_SIU_OFF	The Consumer Display Backlight is turned
	off.

fwIndicators [WFS_SIU_SIGNAGE<mark>DISPLAY]</mark>

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_SIU_LAMP16	Transaction Indicator 16.	

Transaction mulca

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:

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.

Deleted: _UNIT

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 [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
	Volume Control.
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.

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	Туре
WFS_SIU_NO_CHANGE	Do not change the current status of the Remote Status Monitor device.	А
WFS_SIU_GREEN_LED_ON	Turn on the green LED on the Remote Status Monitor device.	В
WFS_SIU_GREEN_LED_OFF	Turn off the green LED on the Remote Status Monitor device.	В
WFS_SIU_AMBER_LED_ON	Turn on the amber LED on the Remote Status Monitor device.	С
WFS_SIU_AMBER_LED_OFF	Turn off the amber LED on the Remote Status Monitor device.	С
WFS_SIU_RED_LED_ON	Turn on the red LED on the Remote Status Monitor device.	D
WFS_SIU_RED_LED_OFF	Turn off the red LED on the Remote Status Monitor device.	D

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:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change status of the Enhanced Audio
WFS_SIU_PUBLICAUDIO_MANUAL	Controller. Set the Enhanced Audio Controller to manual mode, public state (i.e. audio will be
WFS_SIU_PUBLICAUDIO_AUTO	played through speakers only). Set the Enhanced Audio Controller to auto mode, public state (i.e. audio will be played
WFS_SIU_PUBLICAUDIO_SEMI_AUTO	through speakers). When a Privacy Device is activated (headset connected/handset off- hook), the device will go to the private state. Set the Enhanced Audio Controller to semi- auto mode, public state (i.e. audio will be played through speakers). When a Privacy Device is activated, the device will go to the
WFS_SIU_PRIVATEAUDIO_MANUAL	private state. Set the Enhanced Audio Controller to manual mode, private state (i.e. audio will be played only through a connected Privacy
WFS_SIU_PRIVATEAUDIO_AUTO	Device). In private mode, no audio is transmitted through the speakers. Set the Enhanced Audio Controller to auto mode, private state (i.e. audio will be played only through an activated Privacy Device).
WFS_SIU_PRIVATEAUDIO_SEMI_AUTO	In private mode, no audio is transmitted through the speakers. When a Privacy Device is deactivated (headset disconnected/handset on-hook), the device will go to the public state. Set the Enhanced Audio Controller to semi- auto mode, private state (i.e. audio will be played only through an activated 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.

fwGuidLights [...]

Specifies whether the Guidance Light Indicators should be turned on or off, or if they should flash. All member elements of the Guidance Light Indicators structure can be specified as one of the following values:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the
	Guidance Light Indicator.
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).

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.

Output Param None.

Events

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

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

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.

5.3 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

{		
WORD	wI	Door;
WORD	fv	vCommand;
} WFSS	SIUSETDOOR,	*LPWFSSIUSETDOOR;

wDoor

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.

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:

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.
In addition to the generic events defined in [R command:	ef. 1], the following events can be generated by this
Value	Meaning
WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set the status of the door.

Comments None.

Events

5.4 WFS_CMD_SIU_SET_INDICATOR

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

Input Param LPWFSSIUSETINDICATOR lpSetIndicator;

typedef struct _wfs_siu_set_indicator

{ WORD wIndicator; WORD fwCommand; } WFSSIUSETINDICATOR, *LPWFSSIUSETINDICATOR;

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

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

Comments None.

5.5 WFS_CMD_SIU_SET_AUXILIARY

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

Input Param LPWFSSIUSETAUXILIARY lpSetAuxiliary;

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.

fwCommand

It specifies the values for the auxiliary specified by *wAuxiliary*. Specified as one of the following values:

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
	manual mode, public state (i.e. audio will be
	played through speakers only).
WFS_SIU_PUBLICAUDIO_AUTO	Set the Enhanced Audio Controller to auto
	mode, public state (i.e. audio will be played
	through speakers). When a Privacy Device is
	activated (headset connected/handset off-
	hook), the device will go to the private state.
WFS_SIU_PUBLICAUDIO_SEMI_AUTO	Set the Enhanced Audio Controller to semi-
	auto mode, public state (i.e. audio will be
	played through speakers). When a Privacy
	Device is activated, the device will go to the
	private state.

WFS_SIU_PRIVATEAUDIO_MANUAL WFS_SIU_PRIVATEAUDIO_AUTO	Set the Enhanced Audio Controller to manual mode, private state (i.e. audio will be played only through a connected Privacy Device). In private mode, no audio is transmitted through the speakers. Set the Enhanced Audio Controller to auto mode, private state (i.e. audio will be played only through an activated Privacy Device). In private mode, no audio is transmitted
WFS_SIU_PRIVATEAUDIO_SEMI_AUTO	through the speakers. When a Privacy Device is deactivated (headset disconnected/handset on-hook), the device will go to the public state. Set the Enhanced Audio Controller to semi- auto mode, private state (i.e. audio will be played only through an activated 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.

See WFS_CMD_SIU_SET_PORTS command for a detailed description.

Output Param None.

Error Codes

Events

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.
n addition to the generic events defined in [R	ef. 1], the following events can be generated by this

command: Valu Me

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

When wAuxiliary is any value other than WFS_SIU_REMOTE_STATUS_MONITOR the Comments 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	Туре
WFS_SIU_GREEN_LED_ON	Turn on the green LED on the	А
	Remote Status Monitor device.	
WFS_SIU_GREEN_LED_OFF	Turn off the green LED on the	А
	Remote Status Monitor device.	
WFS_SIU_AMBER_LED_ON	Turn on the amber LED on the	В
	Remote Status Monitor device.	
WFS_SIU_AMBER_LED_OFF	Turn off the amber LED on the	В
	Remote Status Monitor device.	
WFS_SIU_RED_LED_ON	Turn on the red LED on the	С
	Remote Status Monitor device.	

С

WFS_SIU_RED_LED_OFF

Turn off the red LED on the Remote Status Monitor device.

5.6 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	wGuidL	ight;
WORD	fwComm	and;
} WFSSIU	SETGUIDLIGHT,	*LPWFSSIUSETGUIDLIGHT;

wGuidLight,

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

WFS_SIU_CARDUNITSet the state of the Guidance Light Indicator on the Card Unit (IDC).WFS_SIU_PINPADSet the state of the Guidance Light Indicator on the PIN pad unit.WFS_SIU_NOTESDISPENSERSet the state of the Guidance Light Indicator on the note dispenser unit.WFS_SIU_COINDISPENSERSet the state of the Guidance Light Indicator on the note dispenser unit.WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.WFS_SIU_CHEQUEUNITSet the state of the Guidance Light Indicator
WFS_SIU_PINPADSet the state of the Guidance Light Indicator on the PIN pad unit.WFS_SIU_NOTESDISPENSERSet the state of the Guidance Light Indicator on the note dispenser unit.WFS_SIU_COINDISPENSERSet the state of the Guidance Light Indicator on the coin dispenser unit.WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
on the PIN pad unit.WFS_SIU_NOTESDISPENSERSet the state of the Guidance Light Indicator on the note dispenser unit.WFS_SIU_COINDISPENSERSet the state of the Guidance Light Indicator on the coin dispenser unit.WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the research on the passbook printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_NOTESDISPENSERSet the state of the Guidance Light Indicator on the note dispenser unit.WFS_SIU_COINDISPENSERSet the state of the Guidance Light Indicator on the coin dispenser unit.WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
on the note dispenser unit.WFS_SIU_COINDISPENSERSet the state of the Guidance Light Indicator on the coin dispenser unit.WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the passbook printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_COINDISPENSERSet the state of the Guidance Light Indicator on the coin dispenser unit.WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the passbook printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_RECEIPTPRINTERon the coin dispenser unit.WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the passbook printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_RECEIPTPRINTERSet the state of the Guidance Light Indicator on the receipt printer unit.WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the passbook printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_PASSBOOKPRINTERon the receipt printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the passbook printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_PASSBOOKPRINTERSet the state of the Guidance Light Indicator on the passbook printer unit.WFS_SIU_ENVDEPOSITORYSet the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_ENVDEPOSITORY on the passbook printer unit. Set the state of the Guidance Light Indicator on the envelope depository unit.
WFS_SIU_ENVDEPOSITORY on the passbook printer unit. Set the state of the Guidance Light Indicator on the envelope depository 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.

fwCommand

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:

Deleted: s

	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 [Re command:	ef. 1], the following events can be generated by this
	Value	Meaning
	WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set or clear one or more output ports (indicators).
Comments		greater than 2.0 Hz. It should be noted that in order

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 WFS_ERR_SIU_PORT_ERROR	Meaning 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).	

Comments None.

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;			
	typedef struct _wfs_siu_power_save_control			
	{ USHORT usMaxPowerSaveRecoveryTime; } WFSSIUPOWERSAVECONTROL, *LPWFSSIUPOWERSAVECONTROL;			
	<i>usMaxPowerSaveRecoveryTime</i> 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 <i>usMaxPowerSaveRecoveryTime</i> 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.		
Comments	None.			

5.9 WFS CMD SIU SET AUTOSTARTUP TIME

Description	This command is used to set the time at which the machine will automatically start. It is also used to disable automatic start up		
	to disable automatic start-up.		
	If a new start-up time is set by this command it will replace any previously set start-up time.		
	Before the auto start-up can take place the operating system must be shut down.		
<u>Input Param</u>	LPWFSSIUSETSTARTUPTIME lpSetStartupTime;		
	typedef struct _wfs_siu_set_startup_time { 		
	LPSYSTEMTIME lpStartTime; } WFSSIUSETSTARTUPTIME, *LPWFSS	IUSETSTARTUPTIME;	
	wMode		
	Specifies the mode of the auto start-up control as	one of the following flags.	
	Value	Meaning	
	WFS_SIU_AUTOSTARTUP_CLEAR	Disables the previously set automatic start-up	
		time. The <i>lpStartTime</i> input parameter is ignored if this mode is set.	
	WFS_SIU_AUTOSTARTUP_SPECIFIC	One-time auto start-up at a specific time on a	
		specific date. In the lpStartTime parameter,	
		wYear, wMonth, wDay, wHour and wMinute must be set and all other fields are ignored.	
	WFS_SIU_AUTOSTARTUP_DAILY	Auto start-up at the same time every day. In	
		the lpStartTime parameter, wHour and	
		<u>wMinute must be set and all other fields are</u> ignored.	
	WFS SIU AUTOSTARTUP WEEKLY	Auto start-up at a specified time on a specified	
		day of every week. In the lpStartTime	
		parameter, <i>wDayOfWeek</i> , <i>wHour</i> and	
		wMinute must be set and all other fields are ignored.	
	<u>lpStartTime</u>		
	Specifies the auto start-up time.		
	Win32 SYSTEMTIME structure:		
	<u>wYear</u> Specifies the year. This value is ignored if it i	is not relevant to the <i>wMode</i> value.	
	<u>wMonth</u> Specifies the month. This value is ignored if i	it is not relevant to the <i>wMode</i> value.	
	<u>wDayOfWeek</u> Specifies the day of the week, in values from if it is not relevant to the <i>wMode</i> value.	0 (Sunday) to 6 (Saturday). This value is ignored	
	<u>wDay</u> Specifies the day of the month. This value is	ignored if it is not relevant to the wMode value.	
	<u>wHour</u> Specifies the hour. This value is ignored if it	is not relevant to the <i>wMode</i> value.	
	<u>wMinute</u> Specifies the minute. This value is ignored if	it is not relevant to the <i>wMode</i> value.	
	<u>wSecond</u> This field is not used and must be zero.		
	<u>wMilliseconds</u> This field is not used and must be zero.		

Output Param None.

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

Events None.

Comments None.

6. Events

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;

typedef struct _wfs_siu_port_event
{

ι		
WORD	wPo	ortType;
WORD	wPo	ortIndex;
WORD	wPo	ortStatus;
LPSTR	lps	szExtra;
<pre>} WFSSIUPORTEVE</pre>	NT,	*LPWFSSIUPORTEVENT;

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

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 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.
WFS_SIU_CABINET	The Cabinet Doors have changed their state.
WFS_SIU_SAFE	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 state. 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. WFS_SIU_OPENCLOSE The Open/Close Indicator state has changed. WFS_SIU_FASCIALIGHT 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_BACKLIGHT The Consumer Display Backlight state has changed. WFS_SIU_SIGNAGEDISPLAY The Signage Display device state has 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. WFS_SIU_VOLUME The Volume Control device has changed its value. WFS_SIU_UPS The UPS device state has changed. WFS_SIU_REMOTE_STATUS_MONITOR The Remote Status Monitor device state has changed. WFS SIU AUDIBLE ALARM The Audible Alarm device state has changed. WFS_SIU_ENHANCEDAUDIOCONTROL The Enhanced Audio Controller has changed state. WFS_SIU_CARDUNIT The Guidance Light Indicator state for the card unit has changed. WFS_SIU_PINPAD The Guidance Light Indicator state for the PIN pad unit has changed. WFS_SIU_NOTESDISPENSER The Guidance Light Indicator state for the note dispenser unit has changed. WFS_SIU_COINDISPENSER The Guidance Light Indicator state for the coin dispenser unit has changed. WFS_SIU_RECEIPTPRINTER The Guidance Light Indicator state for the receipt printer unit has changed. WFS_SIU_PASSBOOKPRINTER The Guidance Light Indicator state for the passbook printer unit has changed. WFS_SIU_ENVDEPOSITORY The Guidance Light Indicator state for the envelope depository unit has changed. WFS_SIU_CHEQUEUNIT The Guidance Light Indicator state for the cheque unit has changed. WFS_SIU_BILLACCEPTOR The Guidance Light Indicator state for the bill acceptor unit has changed. WFS_SIU_ENVDISPENSER The Guidance Light Indicator state for the envelope dispenser unit has changed. WFS_SIU_DOCUMENTPRINTER The Guidance Light Indicator state for the Document Printer unit has changed.

WFS_SIU_COINACCEPTOR

WFS_SIU_SCANNER

The Guidance Light Indicator state for the coin acceptor has changed. The Guidance Light Indicator state for the scanner has changed.

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.

6.2 WFS_EXEE_SIU_PORT_ERROR

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

Event Param LPWFSSIUPORTERROR lpPortError;

typedef struct _wfs_siu_port_error

wPortType;
wPortIndex;
PortError;
wPortStatus;
lpszExtra;
RTERROR, *LPWFSSIUPORTERROR;

wPortType

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

Value	Meaning
WFS_SIU_SENSORS	A port in the input sensors has detected an
	error.
WFS_SIU_DOORS	A port in the door sensors has detected an
	error.
WFS_SIU_INDICATORS	A port in the indicators has detected an error.
WFS_SIU_AUXILIARIES	A port in the auxiliary Indicators has
	detected an error.
WFS_SIU_GUIDLIGHTS	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_INTTAMPER	The internal Tamper Sensor has detected an	Deleted: _
	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	
	error.	
WFS_SIU_CABINET_REAR	The Rear Cabinet Doors have detected an	
	error.	
WFS_SIU_CABINET_LEFT	The Left Cabinet Doors have detected an	
	error.	

WFS_SIU_CABINET_RIGHT The Right Cabinet Doors have detected an error. 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 error. WFS_SIU_CONSUMER_DISPLAY_BACKLIGHT 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. The UPS device has detected an error. WFS SIU UPS WFS_SIU_REMOTE_STATUS_MONITOR 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 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. WFS_SIU_COINDISPENSER 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.

WFS_SIU_ENVDISPENSER

WFS_SIU_DOCUMENTPRINTER

WFS_SIU_COINACCEPTOR

WFS_SIU_SCANNER

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

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

The Guidance Light Indicator for the document printer 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 <u>by wPortType and wPostIndex</u>. See the WFS_INF_SIU_STATUS information command for the possible values. <i>lpszExtra</i> 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. 		Deleted: in the <i>wPortEvent</i> .
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;

 typedef struct _wfs_siu_power_save_change
 {

 USHORT
 usPowerSaveRecoveryTime;

 WFSSIUPOWERSAVECHANGE, *LPWFSSIUPOWERSAVECHANGE;
 usPowerSaveRecoveryTime

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

Comments None.

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/* Size and max index of fwSensors array */	
<pre>#define WFS_SIU_SENSORS_SIZE #define WFS_SIU_SENSORS_MAX</pre>	(32) (WFS_SIU_SENSORS_SIZE - 1)
/* Size and max index of fwDoors array */	
<pre>#define WFS_SIU_DOORS_SIZE #define WFS_SIU_DOORS_MAX</pre>	(16) (WFS_SIU_DOORS_SIZE - 1)
/* Size and max index of fwIndicators array */	
<pre>#define WFS_SIU_INDICATORS_SIZE #define WFS_SIU_INDICATORS_MAX</pre>	(16) (WFS_SIU_INDICATORS_SIZE - 1)
/* Size max index of fwAuxiliaries array */	
<pre>#define WFS_SIU_AUXILIARIES_SIZE #define WFS_SIU_AUXILIARIES_MAX</pre>	(16) (WFS_SIU_AUXILIARIES_SIZE - 1)
/* Size and max index of fwGuidLights array */	
<pre>#define WFS_SIU_GUIDLIGHTS_SIZE #define WFS_SIU_GUIDLIGHTS_MAX</pre>	(16) (WFS_SIU_GUIDLIGHTS_SIZE - 1)
<pre>/* Indices of WFSSIUSTATUS.fwSensors [] WFSSIUCAPS.fwSensors [] WFSSIUENABLE.fwSensors [] WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex */</pre>	
<pre>#define WFS_SIU_OPERATORSWITCH #define WFS_SIU_TAMPER #define WFS_SIU_INTTAMPER #define WFS_SIU_SEISMIC #define WFS_SIU_HEAT #define WFS_SIU_PROXIMITY #define WFS_SIU_AMBLIGHT #define WFS_SIU_BOOT_SWITCH #define WFS_SIU_BOOT_SWITCH #define WFS_SIU_CONSUMER_DISPLAY #define WFS_SIU_OPERATOR_CALL_BUTTON #define WFS_SIU_HANDSETSENSOR #define WFS_SIU_GENERALINPUTPORT</pre>	<pre>(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)</pre>
<pre>/* Indices of WFSSIUSTATUS.fwDoors [] WFSSIUCAPS.fwDoors [] WFSSIUENABLE.fwDoors [] WFSSIUSETPORTS.fwDoors [] WFSSIUSETDOOR.wDoor WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex */</pre>	
<pre>#define WFS_SIU_CABINET #define WFS_SIU_SAFE #define WFS_SIU_VANDALSHIELD #define WFS_SIU_CABINET_FRONT #define WFS_SIU_CABINET_REAR #define WFS_SIU_CABINET_LEFT #define WFS_SIU_CABINET_RIGHT</pre>	(0) (1) (2) (3) (4) (5) (6)
<pre>/* Indices of WFSSIUSTATUS.fwIndicators [] WFSSIUCAPS.fwIndicators [] WFSSIUENABLE.fwIndicators [] WFSSIUSETPORTS.wIndicators [] WFSSIUSETINDICATOR.wIndicator</pre>	
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WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex */

#define	WFS_SIU_OPENCLOSE	(0)
#define	WFS_SIU_FASCIALIGHT	(1)
#define	WFS_SIU_AUDIO	(2)
#define	WFS_SIU_HEATING	(3)
#define	WFS_SIU_CONSUMER_DISPLAY_BACKLIGHT	(4)
#define	WFS_SIU_SIGNAGEDISPLAY	(5)
#define	WFS_SIU_TRANSINDICATOR	(6)
#define	WFS_SIU_GENERALOUTPUTPORT	(7)

/* Indices	of WFSSIUSTATUS.fwAuxiliaries []
	WFSSIUCAPS.fwAuxiliaries []
	WFSSIUENABLE.fwAuxiliaries []
	WFSSIUSETPORTS.wAuxiliaries []
	WFSSIUSETAUXILIARY.wAuxiliary
	WFSSIUPORTEVENT.wPortIndex
	WFSSIUPORTERROR.wPortIndex */
#define	WFS_SIU_VOLUME

/*	Indices	of WFSSIUSTATUS.fwGuidLights []
		WFSSIUCAPS.fwGuidLights []
		WFSSIUENABLE.fwGuidLights []
		WFSSIUSETPORTS.wGuidLights []
		WFSSIUSETGUIDLIGHT.wGuidLight
		WFSSIUPORTEVENT.wPortIndex
		WFSSIUPORTERROR.wPortIndex */

		(
#define	WFS_SIU_CARDUNIT	(0)
#define	WFS_SIU_PINPAD	(1)
#define	WFS_SIU_NOTESDISPENSER	(2)
#define	WFS_SIU_COINDISPENSER	(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)
#define	WFS_SIU_COINACCEPTOR	(11)
#define	WFS_SIU_SCANNER	(12)

/* Values	of WFSSIUSTATUS.fwSensors [] WFSSIUSTATUS.fwIndicators [] WFSSIUSTATUS.fwIndicators [] WFSSIUSTATUS.fwAuxiliaries [] WFSSIUCAPS.fwSensors [] WFSSIUCAPS.fwSensors [] WFSSIUCAPS.fwIndicators [] WFSSIUCAPS.fwIndicators [] WFSSIUCAPS.fwAuxiliaries [] WFSSIUCAPS.fwGuidLights [] */	
#define	WFS_SIU_NOT_AVAILABLE	(0x0000)
#define	WFS_SIU_AVAILABLE	(0x0001)

/* Values of WFSSIUSTATUS.fwSensors [WFS_SIU_OPERATORSWITCH] WFSSIUCAPS.fwSensors [WFS_SIU_OPERATORSWITCH] WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus */

#define	WFS_SIU_RUN	(0x0001)
#define	WFS_SIU_MAINTENANCE	(0x0002)

#define	WFS_SIU_SUPERVISOR	(0x0004)
/* Values	of WFSSIUSTATUS.fwDoors [WFSSIUSTATUS.fwIndicators [W WFSSIUCAPS.fwDoors [] WFSSIUSETPORTS.fwIndicators [WFS] WFSSIUSETPORTS.fwIndicators WFSSIUSETDOOR.wDoor WFSSIUSETINDICATOR.fwCommand WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus	FS_SIU_OPENCLOSE] _SIU_OPENCLOSE] [WFS_SIU_OPENCLOSE]
<pre>#define #define #define #define #define #define #define #define</pre>	WFS_SIU_CLOSED WFS_SIU_OPEN WFS_SIU_LOCKED WFS_SIU_BOLTED WFS_SIU_SERVICE WFS_SIU_KEYBOARD WFS_SIU_AJAR WFS_SIU_JAMMED	(0x0001) (0x0002) (0x0004) (0x0008) (0x0010) (0x0020) (0x0040) (0x0080)
/* Values	of WFSSIUSTATUS.fwIndicators WFSSIUSETPORTS.fwIndicators WFSSIUSETINDICATOR.fwCommand WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus	[WFS_SIU_AUDIO]
<pre>#define #define #define #define #define /* Values</pre>	of WFSSIUSTATUS.fwSensors [W WFSSIUPORTEVENT.wPortStatus	
#define	WFSSIUPORTERROR.wPortStatus WFS_SIU_DISPLAY_ERROR	*/ (0x0004)
	for WFSSIUSTATUS.fwIndicators WFSSIUSETPORTS.fwIndicators WFSSIUSETINDICATOR.fwCommand WFSSIUPORTEVENT.wPortStatus[WFSSIUPORTERROR.wPortStatus]	[WFS_SIU_TRANSINDICATOR] [WFS_SIU_TRANSINDICATOR] WFS_SIU_TRANSINDICATOR]
<pre>#define #define #define</pre>	WFS_SIU_LAMP1 WFS_SIU_LAMP2 WFS_SIU_LAMP3 WFS_SIU_LAMP4 WFS_SIU_LAMP6 WFS_SIU_LAMP6 WFS_SIU_LAMP7 WFS_SIU_LAMP7 WFS_SIU_LAMP10 WFS_SIU_LAMP10 WFS_SIU_LAMP11 WFS_SIU_LAMP11 WFS_SIU_LAMP13 WFS_SIU_LAMP13 WFS_SIU_LAMP15 WFS_SIU_LAMP16	(0x0001) (0x0002) (0x0004) (0x0008) (0x0020) (0x0020) (0x0020) (0x0080) (0x0100) (0x0200) (0x0200) (0x0400) (0x2000) (0x2000) (0x4000) (0x8000)
/* Values		s [WFS_SIU_REMOTE_STATUS_MONITOR] [WFS_SIU_REMOTE_STATUS_MONITOR] */
#define	WFS_SIU_GREEN_LED_ON	(0x0001)

#define	WFS_SIU_GREEN_LED_ON	(0x0001)
#define	WFS_SIU_GREEN_LED_OFF	(0x0002)

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#define	WFS_SIU_AMBER_LED_ON	(0x0004)
#define	WFS_SIU_AMBER_LED_OFF	(0x0008)
#define	WFS_SIU_RED_LED_ON	(0x0010)
#define	WFS_SIU_RED_LED_OFF	(0x0020)
/* Values	of WFSSIUSTATUS.fwAuxiliaries [WF WFSSIUSETPORTS.fwAuxiliaries [WFS WFSSIUSETAUXILIARY.fwCommand WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus */	
#define	WFS_SIU_PUBLICAUDIO_MANUAL	(0x0001)
#define	WFS_SIU_PUBLICAUDIO_AUTO	(0x0002)
#define	WFS_SIU_PUBLICAUDIO_SEMI_AUTO	(0x0004)
#define	WFS_SIU_PRIVATEAUDIO_MANUAL	(0x0008)
#define #define	WFS_SIU_PRIVATEAUDIO_AUTO	(0x0010)
#deline	WFS_SIU_PRIVATEAUDIO_SEMI_AUTO	(0x0020)
/* Values	of WFSSIUSTATUS.fwSensors [] WFSSIUSTATUS.fwIndicators [] WFSSIUSTATUS.fwQuidLights [] WFSSIUSTATUS.fwGuidLights [] WFSSIUCAPS.fwSensors [] WFSSIUCAPS.fwIndicators [] WFSSIUSETPORTS.fwIndicators [] WFSSIUSETPORTS.fwIndicators [] WFSSIUSETPORTS.fwQuidLights [] WFSSIUSETPORTS.fwGuidLights [] WFSSIUSETPORTS.fwGuidLights [] WFSSIUSETINDICATOR.fwCommand [WFSSIUSETAUXILIARY.fwCommand [WFSSIUSETQUIDLIGHT.fwCommand [WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus */	1 1 1
#define	WFS_SIU_OFF	(0x0001)
#define	WFS_SIU_ON	(0x0002)
#define	WFS_SIU_SLOW_FLASH	(0×0004)
#define #define	WFS_SIU_MEDIUM_FLASH WFS_SIU_QUICK_FLASH	(0x0008) (0x0010)
#define	WFS_SIU_CONTINUOUS	(0x0010) (0x0080)
#del life	W19_910_contin0009	(0.0000)
/* Flags	for WFSSIUSTATUS.fwSensors [WFS_SI WFSSIUSTATUS.fwIndicators [WFS_SI WFSSIUSETPORTS.fwIndicators [WFS_ WFSSIUSETINDICATOR.fwCommand WFSSIUPORTEVENT.wPortStatus[WFS_S WFSSIUPORTEVENT.wPortStatus[WFS_S WFSSIUPORTERROR.wPortStatus[WFS_S WFSSIUPORTERROR.wPortStatus[WFS_S]	U_GENERALOUTPUTPORT] SIU_GENERALOUTPUTPORT] IU_GENERALINPUTPORT] IU_GENERALOUTPUTPORT] IU_GENERALINPUTPORT]
#define	WFS_SIU_GPP1	(0x0001)
#define	WFS_SIU_GPP2	(0x0002)
#define	WFS_SIU_GPP3	(0x0004)
#define #dofine	WFS_SIU_GPP4	(0x0008)
#define #define	WFS_SIU_GPP5 WFS_SIU_GPP6	(0x0010) (0x0020)
#define	WFS_SIU_GPP7	(0x0020)
#define	WFS_SIU_GPP8	(0x0040)
#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)
#define #define	WFS_SIU_GPP14 WFS_SIU_GPP15	(0x2000) (0x4000)
#define	WFS_SIU_GPP15 WFS_SIU_GPP16	(0x4000)
		· · · · · · · · · · · · · · · · · · ·

	WFSSIUPORTERROR.wPortStatus */			
#define #define	WFS_SIU_PRESENT WFS_SIU_NOT_PRESENT	(0x0001) (0x0002)		
/* Values	/* Values of WFSSIUSTATUS.fwSensors [WFS_SIU_HANDSETSENSOR] */			
#define #define	WFS_SIU_OFF_THE_HOOK WFS_SIU_ON_THE_HOOK	(0x0001) (0x0002)		
/* Values of WFSSIUCAPS.fwSensors [WFS_SIU_ENHANCEDAUDIO] WFSSIUCAPS.fwSensors [WFS_SIU_HANDSETSENSOR] */				
#define #define #define	WFS_SIU_AUTO	(0x0001) (0x0002) (0X0004)		
<pre>/* Values of WFSSIUSTATUS.fwSensors [WFS_SIU_AMBLIGHT] WFSSIUCAPS.fwSensors [WFS_SIU_AMBLIGHT] WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus */</pre>				
#define #define #define #define #define	WFS_SIU_VERY_DARK WFS_SIU_DARK WFS_SIU_MEDIUM_LIGHT WFS_SIU_LIGHT WFS_SIU_VERY_LIGHT	(0x0001) (0x0002) (0x0004) (0x0008) (0x0010)		
<pre>/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS_SIU_UPS] WFSSIUCAPS.fwAuxiliaries [WFS_SIU_UPS] WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus */</pre>				
#define W #define W	FS_SIU_LOW FS_SIU_ENGAGED FS_SIU_POWERING FS_SIU_RECOVERED	(0x0002) (0x0004) (0x0008) (0x0010)		
/* Values	of WFSSIUCAPS.fwType */			
#define #define #define #define #define	WFS_SIU_SENSORS WFS_SIU_DOORS WFS_SIU_INDICATORS WFS_SIU_AUXILIARIES WFS_SIU_GUIDLIGHTS	(0x0001) (0x0002) (0x0004) (0x0008) (0x0010)		
/* Values #define #define		_ENHANCEDAUDIOCONTROL] */ (0x0001) (0x0002)		
/* Values	of WFSSIUENABLE.fwSensors [] WFSSIUENABLE.fwDoors [] WFSSIUENABLE.fwIndicators [] WFSSIUENABLE.fwAuxiliaries [] WFSSIUENABLE.fwGuidLights [] WFSSIUSETPORTS.fwDoors [] WFSSIUSETPORTS.fwIndicators [] WFSSIUSETPORTS.fwAuxiliaries [] WFSSIUSETPORTS.fwGuidLights [] */			
#define #define #define	WFS_SIU_NO_CHANGE WFS_SIU_ENABLE_EVENT WFS_SIU_DISABLE_EVENT	(0x0000) (0x0001) (0x0002)		
/* Values	of WFSSIUSETPORTS.fwDoors [] WFSSIUSETDOOR.fwCommand [] */			
#define	WFS_SIU_BOLT	(0x0001)		
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#define	WFS_SIU_UNBOLT	(0x0002)		
	of WFSSIUSETPORTS.fwAuxiliaries [WF			
WFSS	IUSETAUXILIARY.wAuxiliary [WFS_SIU_	_UPS] */		
#define WF	S_SIU_ENGAGE	(0x0001)		
	S_SIU_DISENGAGE	(0x0002)		
(4 7				
	of WFSSIUCAPS.fwAutoStartupMode WFSSIUSETSTARTUPTIME.wMode			
	WFSSIUGETSTARTUPTIME.wMode */			
	S_SIU_AUTOSTARTUP_CLEAR	(0x0001)		
	S_SIU_AUTOSTARTUP_SPECIFIC S_SIU_AUTOSTARTUP_DAILY	<u>(0x0002)</u> (0x0004)		
	S_SIU_AUTOSTARTUP_WEEKLY	(0x0004)		
/* values	of WFSSIUSTATUS.wAntiFraudModule */	-		
#define	WFS_SIU_AFMNOTSUPP	(0)		
#define	WFS_SIU_AFMOK	$\frac{(0)}{(1)}$		
#define	WFS_SIU_AFMINOP	(2)		
#define	WFS_SIU_AFMDEVICEDETECTED	(3)		
<u>#define</u>	WFS_SIU_AFMUNKNOWN	(4)		
/* XFS SIU	Errors */			
#define	WFS_ERR_SIU_INVALID_PORT	(-(SIU_SERVICE_OFFSET + 1))		
#define	WFS_ERR_SIU_SYNTAX	(-(SIU_SERVICE_OFFSET + 2))		
#define	WFS_ERR_SIU_PORT_ERROR	(-(SIU_SERVICE_OFFSET + 3))		
#define	WFS_ERR_SIU_POWERSAVETOOSHORT	(-(SIU_SERVICE_OFFSET + 4))		
/*=======		*/		
typedef st	ruct _wfs_siu_status			
۱ WORD	fwDevice;			
WORD	fwSensors [WFS_SIU_SENSOF	S STZEl;		
WORD	fwDoors [WFS_SIU_DOORS_SI			
WORD	fwIndicators [WFS_SIU_INI			
WORD	fwAuxiliaries [WFS_SIU_AU			
WORD	fwGuidLights [WFS_SIU_GU]	<pre>fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];</pre>		
LPSTR	lpszExtra;	-		
USHORT	<pre>usPowerSaveRecoveryTime; wAntiFraudModule;</pre>	usPowerSaveRecoveryTime;		
WORD WESSIUST	ATUS, *LPWFSSIUSTATUS;			
typedei st	ruct _wfs_siu_caps			
۱ WORD	wClass;			
WORD	fwType;			
WORD		fwSensors [WFS_SIU_SENSORS_SIZE];		
WORD		fwDoors [WFS_SIU_DOORS_SIZE];		
WORD	fwIndicators [WFS_SIU_INI	<pre>fwIndicators [WFS_SIU_INDICATORS_SIZE];</pre>		
WORD		<pre>fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];</pre>		
WORD		<pre>fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; ln a=Future;</pre>		
LPSTR	lpszExtra;			
BOOL WORD	fwAutoStartupMode;	bPowerSaveControl;		
BOOL	bAntiFraudModule;			
	PS, *LPWFSSIUCAPS;			
typedet st	ruct wfs_siu_get_startup_time			
1 WORD	wMode;			
LPSYST				
<pre>} WFSSIUGE</pre>	TSTARTUPTIME, *LPWFSSIUGETSTARTUPTI	ME		

```
/*
/* SIU Execute Command Structures */
/*=--
            */
typedef struct _wfs_siu_enable
                 fwSensors [WFS_SIU_SENSORS_SIZE];
   WORD
   WORD
                 fwDoors [WFS_SIU_DOORS_SIZE];
   WORD
                 fwIndicators [WFS_SIU_INDICATORS_SIZE];
                 fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
   MOBD
   WORD
   LPSTR
                 lpszExtra;
} WFSSIUENABLE, *LPWFSSIUENABLE;
typedef struct _wfs_siu_set_ports
   WORD
                 fwDoors [WFS_SIU_DOORS_SIZE];
   WORD
                 fwIndicators [WFS_SIU_INDICATORS_SIZE];
   WORD
                 fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
   MOBD
                 fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
   LPSTR
                 lpszExtra;
} WFSSIUSETPORTS, *LPWFSSIUSETPORTS;
typedef struct _wfs_siu_set_door
   WORD
                 wDoor;
   WORD
                 fwCommand;
} WFSSIUSETDOOR, *LPWFSSIUSETDOOR;
typedef struct _wfs_siu_set_indicator
   WORD
                 wIndicator;
   WORD
                 fwCommand;
} WFSSIUSETINDICATOR, *LPWFSSIUSETINDICATOR;
typedef struct _wfs_siu_set_auxiliary
{
   MOBD
                 wAuxiliary;
WORD fwCommand;
} WFSSIUSETAUXILIARY, *LPWFSSIUSETAUXILIARY;
typedef struct _wfs_siu_set_guidlight
   WORD
                 wGuidLight;
   WORD
                 fwCommand;
} WFSSIUSETGUIDLIGHT, *LPWFSSIUSETGUIDLIGHT;
typedef struct _wfs_siu_power_save_control
   USHORT
                 usMaxPowerSaveRecoveryTime;
} WFSSIUPOWERSAVECONTROL, *LPWFSSIUPOWERSAVECONTROL;
typedef struct wfs_siu_set_startup_time
                wMode;
   WORD
   LPSYSTEMTIME
                 lpStartTime;
WFSSIUSETSTARTUPTIME, *LPWFSSIUSETSTARTUPTIME
/*_____
/* SIU Message Structures */
typedef struct _wfs_siu_port_event
   WORD
                 wPortType;
   WORD
                 wPortIndex;
   WORD
                 wPortStatus;
```

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LPSTR lpszExtra; } WFSSIUPORTEVENT, *LPWFSSIUPORTEVENT; typedef struct _wfs_siu_port_error { WORD wPortType; WORD wPortIndex; HRESULT PortError; WORD wPortStatus; LPSTR 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 */