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WORKSHOP

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AGREEMENT

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Extensions for Financial Services (XFS) interface specification Release 3.40 - Part 69: Sensors and Indicators Unit Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

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The formal process followed by the Workshop in the development of this Workshop Agreement has been endorsed by the National Members of CEN but neither the National Members of CEN nor the CEN-CENELEC Management Centre can be held accountable for the technical content of this CEN Workshop Agreement or possible conflicts with standards or legislation.

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European Foreword

This CEN Workshop Agreement has been developed in accordance with the CEN-CENELEC Guide 29 "CEN/CENELEC Workshop Agreements – The way to rapid consensus" and with the relevant provisions of CEN/CENELEC Internal Regulations – Part 2. It was approved by a Workshop of representatives of interested parties on 2019-10-08, the constitution of which was supported by CEN following several public calls for participation, the first of which was made on 1998-06-24. However, this CEN Workshop Agreement does not necessarily include all relevant stakeholders.

The final text of this CEN Workshop Agreement was provided to CEN for publication on 2019-12-12.

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

- Part 1: Application Programming Interface (API) Service Provider Interface (SPI) Programmer's Reference
- Part 2: Service Classes Definition Programmer's Reference
- Part 3: Printer and Scanning Device Class Interface Programmer's Reference
- Part 4: Identification Card Device Class Interface Programmer's Reference
- Part 5: Cash Dispenser Device Class Interface Programmer's Reference
- Part 6: PIN Keypad Device Class Interface Programmer's Reference
- Part 7: Check Reader/Scanner Device Class Interface Programmer's Reference
- Part 8: Depository Device Class Interface Programmer's Reference
- Part 9: Text Terminal Unit Device Class Interface Programmer's Reference
- Part 10: Sensors and Indicators Unit Device Class Interface Programmer's Reference
- Part 11: Vendor Dependent Mode Device Class Interface Programmer's Reference
- Part 12: Camera Device Class Interface Programmer's Reference
- Part 13: Alarm Device Class Interface Programmer's Reference
- Part 14: Card Embossing Unit Device Class Interface Programmer's Reference
- Part 15: Cash-In Module Device Class Interface Programmer's Reference
- Part 16: Card Dispenser Device Class Interface Programmer's Reference
- Part 17: Barcode Reader Device Class Interface Programmer's Reference
- Part 18: Item Processing Module Device Class Interface Programmer's Reference
- Part 19: Biometrics Device Class Interface Programmer's Reference
- Parts 20 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.

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- Part 29: XFS MIB Architecture and SNMP Extensions Programmer's Reference
- Part 30: XFS MIB Device Specific Definitions Printer Device Class
- Part 31: XFS MIB Device Specific Definitions Identification Card Device Class
- Part 32: XFS MIB Device Specific Definitions Cash Dispenser Device Class
- Part 33: XFS MIB Device Specific Definitions PIN Keypad Device Class
- Part 34: XFS MIB Device Specific Definitions Check Reader/Scanner Device Class
- Part 35: XFS MIB Device Specific Definitions Depository Device Class
- Part 36: XFS MIB Device Specific Definitions Text Terminal Unit Device Class
- Part 37: XFS MIB Device Specific Definitions Sensors and Indicators Unit Device Class
- Part 38: XFS MIB Device Specific Definitions Camera Device Class
- Part 39: XFS MIB Device Specific Definitions Alarm Device Class
- Part 40: XFS MIB Device Specific Definitions Card Embossing Unit Class
- Part 41: XFS MIB Device Specific Definitions Cash-In Module Device Class
- Part 42: Reserved for future use.
- Part 43: XFS MIB Device Specific Definitions Vendor Dependent Mode Device Class
- Part 44: XFS MIB Application Management
- Part 45: XFS MIB Device Specific Definitions Card Dispenser Device Class
- Part 46: XFS MIB Device Specific Definitions Barcode Reader Device Class
- Part 47: XFS MIB Device Specific Definitions Item Processing Module Device Class
- Part 48: XFS MIB Device Specific Definitions Biometrics Device Class
- Parts 49 60 are reserved for future use.
- Part 61: Application Programming Interface (API) Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Service Provider Interface (SPI) Programmer's Reference
- Part 62: Printer and Scanning Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 63: Identification Card Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 64: Cash Dispenser Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 65: PIN Keypad Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 66: Check Reader/Scanner Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 67: Depository Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 68: Text Terminal Unit Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 69: Sensors and Indicators Unit Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 70: Vendor Dependent Mode Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 71: Camera Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) Programmer's Reference
- Part 72: Alarm Device Class Interface Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) -

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Programmer's Reference

Part 73: Card Embossing Unit Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

Part 74: Cash-In Module Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

Part 75: Card Dispenser Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

Part 76: Barcode Reader Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (this CWA) - Programmer's Reference

Part 77: Item Processing Module Device Class Interface - Migration from Version 3.30 (CWA 16926) to Version 3.40 (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: https://www.cen.eu/work/Sectors/Digital society/Pages/WSXFS.aspx.

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1. Migration Information

XFS 3.40 has been designed to minimize backwards compatibility issues. This document highlights the changes made to the SIU device class between version 3.30 and 3.40, by highlighting the additions and deletions to the text.

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2. Sensors and Indicators Unit

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

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

- Door sensors, such as cabinet, safe or vandal shield doors.
- Alarm sensors, such as tamper, seismic or heat sensors.
- Generic sensors, such as proximity or ambient light sensors.
- Key switch sensors, such as the ATM operator switch.
- Lamp/sign indicators, such as fascia light or audio indicators.

 Note that while the SIU device class provides some basic support for guidance lights, extended guidance light functionality is specified in the individual device class specifications. Therefore it is recommended that device guidance lights be supported and controlled via the individual device classes.
- 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.

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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

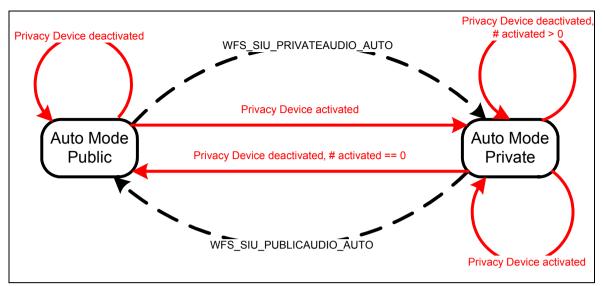
In auto mode, when a consumer activates a Privacy Device, the audio is automatically directed to the Privacy Device and the audio is no longer sent to the speakers. When the Privacy Device is deactivated, the audio is redirected to the speakers. If more than one Privacy Device has been activated, audio is not redirected to the speakers until all Privacy Devices have been deactivated. 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.

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Auto Mode State Diagram 1

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

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

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Semi-Auto Mode

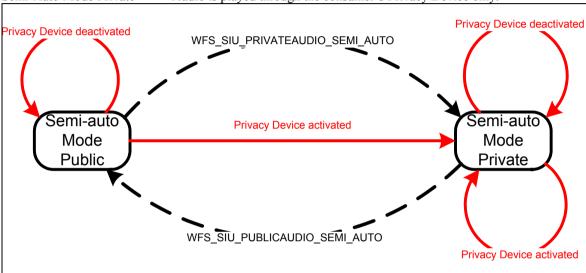
This mode is required to ensure customer sensitive information is not broadcast via the public speakers when the consumer's Privacy Device is deliberately or otherwise deactivated.

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 Public Audio output is played through the public speakers only.

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



Semi-Auto Mode State Diagram 2

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_PORTS or WFS_CMD_SIU_SET_AUXILIARY for the WFS_SIU_ENHANCEDAUDIOCONTROL auxiliary with values of WFS_SIU_PRIVATEAUDIO_SEMI_AUTO or WFS_SIU_PUBLICAUDIO_SEMI_AUTO.

Manual Mode

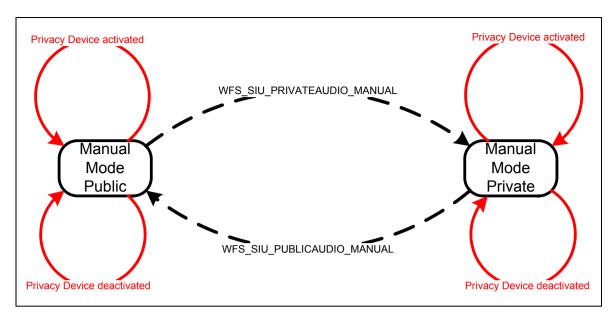
In manual mode, when a consumer's Privacy Device is activated, the audio remains directed at the existing interface (i.e. the speaker), The application must explicitly change to the other mode, if required. Note that the application must explicitly return the device to its public state if audio is required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

State Description

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

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

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Manual Mode State Diagram 1

The dashed-line transitions are caused by application calls to WFS_CMD_SIU_SET_PORTS 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).

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2.2 Enhanced Microphone Controller Overview

The Enhanced Microphone Controller is provided to support a system of one or more microphones. Its behavior is very similar to that of the Enhanced Audio Controller. The Enhanced Microphone Controller device controls how private and public audio input behave when a headset microphone is inserted into/removed from the Audio/Microphone Jack, and when the Handset with an integrated microphone is off-hook/on-hook. The device allows audio input publicly (via a microphone in the fascia) and/or via the consumer's Privacy Device (vendor hardware permitting). For improved audio clarity or 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 Microphone Controller provides the application with the following information:

- If a Privacy Device is activated (headset connected/handset off the hook).
- Whether the audio input is from the fascia microphone or from the Privacy Device.
- Privacy/public mode: i.e. whether the activation of the Privacy Device automatically switches public microphone on or off.

The device is managed by the sensors WFS_SIU_HEADSETMICROPHONE, WFS_SIU_HANDSETSENSOR, and an auxiliary WFS_SIU_ENHANCEDMICROPHONECONTROL.

The WFS SIU HEADSETMICROPHONE sensor is used to:

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

Some systems may contain a headset jack that enables both audio input and output via a single jack. In this case, the WFS_SIU_ENHANCEDAUDIO capability will report WFS_SIU_BIDIRECTIONAL, and when a bi-directional headset is inserted into the jack, the status for both the WFS_SIU_ENHANCEDAUDIO and WFS_SIU_HEADSETMICROPHONE ports will change appropriately.

The WFS_SIU_HANDSETSENSOR sensor is the same sensor used for private audio output. However, the WFS_SIU_HANDSETSENSOR capability flag WFS_SIU_MICROPHONE indicates whether the Handset also contains an integrated microphone for audio input.

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

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

The Enhanced Microphone Controller modes and state transitions are very much like those for the Enhanced Audio Controller. The Enhanced Microphone Controller can be set to auto, semi-auto or manual modes. State transitions occur in the same way that they are described in the state diagrams in the previous section, either when changed manually by the application or when a Privacy Devices is activated/deactivated (depending on the mode). Note that if the WFS_SIU_FASCIAMICROPHONE indicates WFS_SIU_NOT_AVAILABLE, none of the public modes for the microphone will be supported. The Enhanced Audio Controller and Enhanced Microphone Controller states are independent of each other, but can be linked under certain transitions while in auto mode or semi-auto mode. For example, if a handset that contains microphone is activated, both controllers can transition to the private state. On the other hand, if a handset that does not contain a microphone is activated, the Enhanced Audio Controller may transition to the private state while the Enhanced Microphone Controller remains in the public state. Likewise, if a headset that contains a microphone is plugged into a jack that supports integrated audio input and output, both controllers can transition to the private state. Note that in this case, both the WFS_SIU_ENHANCEDAUDIO and WFS_SIU_HEADSETMICROPHONE sensors would change state to WFS_SIU_PRESENT regardless of the mode.

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3. References

1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference Revision 3.3040

2. PCI Security Standards Council PCI DSS v3.1 Requirements and Security Assessment Procedures https://www.pcisecuritystandards.org/documents/PCI DSS v3-1.pdf

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];
                      fwDoors [WFS SIU DOORS SIZE];
     WORD
     WORD
                      fwIndicators [WFS SIU INDICATORS SIZE];
     WORD
                      fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
                      fwGuidLights [WFS_SIU_GUIDLIGHTS SIZE];
     WORD
     LPSTR
                     lpszExtra;
     USHORT
                     usPowerSaveRecoveryTime;
     WORD
                     wAntiFraudModule;
                      fwGuidLightsEx [WFS SIU GUIDLIGHTS SIZE EX];
     DWORD
       WFSSIUSTATUS, *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).
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:

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

fwSensors [WFS SIU TAMPER]

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

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

fwSensors [WFS SIU INTTAMPER]

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

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

fwSensors [WFS SIU SEISMIC]

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

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

fwSensors [WFS_SIU_HEAT]

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

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

fwSensors [WFS SIU PROXIMITY]

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

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

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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 available.
WFS_SIU_PRESENT	There is a headset connected.
WFS_SIU_NOT_PRESENT	There is no headset connected.

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 or shutdown 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_OFF	The sensor has not been triggered.
WFS_SIU_ON	The terminal is about to be rebooted or
	shutdown.

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.

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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.

fwSensors [WFS SIU HEADSETMICROPHONE]

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

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.
WFS_SIU_PRESENT	There is a headset microphone connected.
WFS_SIU_NOT_PRESENT	There is no headset microphone connected.

fwSensors [WFS SIU FASCIAMICROPHONE]

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

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

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.
WFS_SIU_TAMPERED	At least one of the Cabinet Doors has
	potentially been tampered with.

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.

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WFS_SIU_LOCKED	The Safe Doors are closed and locked.
WFS_SIU_BOLTED	The Safe Doors are closed, locked and
	bolted.
WFS SIU TAMPERED	At least one of the Safe Doors has potentially
	been tampered with.

fwDoors [WFS SIU VANDALSHIELD]

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

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

fwDoors [WFS SIU CABINET FRONT]

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

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

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
WFS_SIU_LOCKED	open. All Rear Cabinet Doors are closed and locked.
WFS_SIU_BOLTED	All Rear Cabinet Doors are closed, locked and bolted.
WFS_SIU_TAMPERED	At least one of the Rear Cabinet Doors has
	potentially been tampered with.

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:

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

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.
WFS_SIU_TAMPERED	At least one of the Right Cabinet Doors has potentially been tampered with

fwIndicators [...]

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

fwIndicators [WFS SIU OPENCLOSE]

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

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

fwIndicators [WFS SIU FASCIALIGHT]

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

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

fwIndicators [WFS SIU AUDIO]

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

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	The status is not available.	A
WFS_SIU_OFF	The Audio Indicator is turned off.	A
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key	В
	click signal.	
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an	В
	exclamation signal.	

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WFS_SIU_WARNING	The Audio Indicator sounds a	В
	warning signal.	
WFS_SIU_ERROR	The Audio Indicator sounds an	В
	error signal.	
WFS_SIU_CRITICAL	The Audio Indicator sounds a	В
	critical signal.	
WFS_SIU_CONTINUOUS	The Audio Indicator sound is	C
	turned on continuously.	

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.

WFS_SIU_LAMP1 Transaction Indicator 1.	Value	Meaning
WEG GILL LAMPA	WFS_SIU_LAMP1	Transaction Indicator 1.
WFS_SIU_LAMP2 I ransaction Indicator 2.	WFS_SIU_LAMP2	Transaction Indicator 2.
•••		
WFS_SIU_LAMP16 Transaction Indicator 16.	WFS_SIU_LAMP16	Transaction Indicator 16.

fwIndicators [WFS SIU GENERALOUTPUTPORT]

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

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

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

Value	Meaning
WFS_SIU_GPP1	General-Purpose Output Port 1.
WFS_SIU_GPP2	General-Purpose Output Port 2.
WFS_SIU_GPP16	General-Purpose Output Port 16.

fwAuxiliaries [...]

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

fwAuxiliaries [WFS SIU VOLUME]

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

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

fwAuxiliaries [WFS SIU UPS]

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

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

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.	A
WFS_SIU_GREEN_LED_ON	The green LED is on.	В
WFS_SIU_GREEN_LED_OFF	The green LED is off.	В
WFS_SIU_AMBER_LED_ON	The amber LED is on.	C
WFS_SIU_AMBER_LED_OFF	The amber LED is off.	C
WFS_SIU_RED_LED_ON	The red LED is on.	D
WFS_SIU_RED_LED_OFF	The red LED is off.	D

fwAuxiliaries[WFS SIU AUDIBLE ALARM]

Species the state of the Audible Alarm device as 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.

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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	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.
WFS_SIU_PRIVATEAUDIO_AUTO	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. Where there is more than one Privacy Device, the device will go to the public state only when all
WFS_SIU_PRIVATEAUDIO_SEMI_AUTO	Privacy Devices have been deactivated. 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.

fwAuxiliaries [WFS_SIU_ENHANCEDMICROPHONECONTROL]

Specifies the state of the Enhanced Microphone Controller. The Enhanced Microphone Controller controls how private and public audio input are transmitted 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 Microphone Controller state is specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	The status is not available.

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WFS_SIU_PUBLICAUDIO_MANUAL	The Enhanced Microphone Controller is in manual mode and is in the public state (i.e. the microphone in the fascia is active). Activating a Privacy Device (headset
	connected/handset off-hook) will have no
	impact, i.e. input will remain through the
	fascia microphone and any microphone associated with the Privacy Device will not
	be active.
WFS_SIU_PUBLICAUDIO_AUTO	The Enhanced Microphone Controller is in
	auto mode and is in the public state (i.e. the microphone in the fascia is active). When a
	Privacy Device with a microphone is
	activated, the device will go to the private
WFS_SIU_PUBLICAUDIO_SEMI_AUTO	state. The Enhanced Microphone Controller is in
W15_510_1 OBLICAODIO_5EWI_A010	semi-auto mode and is in the public state (i.e.
	the microphone in the fascia is active). When
	a Privacy Device with a microphone is
	activated, the device will go to the private state.
WFS_SIU_PRIVATEAUDIO_MANUAL	The Enhanced Microphone Controller is in
	manual mode and is in the private state (i.e. audio input will be via a microphone in the
	Privacy Device). In private mode, no audio
	input is transmitted through the fascia
WES SHI DDIVATEALIDIO ALITO	microphone.
WFS_SIU_PRIVATEAUDIO_AUTO	The Enhanced Microphone Controller is in auto mode and is in the private state (i.e.
	audio input will be via a microphone in the
	Privacy Device). In private mode, no audio
	input is transmitted through the fascia microphone. When a Privacy Device with a
	microphone is deactivated (headset
	disconnected/handset on-hook), the device
	will go to the public state. Where there is more than one Privacy Device with a
	microphone, the device will go to the public
	state only when all such Privacy Devices
WFS SIU PRIVATEAUDIO SEMI AUTO	have been deactivated. The Enhanced Microphone Controller is in
	semi-auto mode and is in the private state
	(i.e. audio input will be via a microphone in
	the Privacy Device). In private mode, no audio is transmitted through the fascia
	microphone. When a Privacy Device with a
	microphone is deactivated, the device will

fwAuxiliaries [WFS SIU MICROPHONEVOLUME]

Specifies the value of the Microphone Volume Control. The value of Microphone 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 Microphone 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.

remain in the private state.

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

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fwGuidLights [...]

Specifies the state of the Guidance Light Indicators. A number of guidance light types are defined below:guidance lights. See WFS_INF_SIU_CAPABILITIES fwGuidLights for supported guidance lights and states. The state of each guidance light can be

WFS_SIU_NOT_AVAILABLE, WFS_SIU_OFF or a combination of one flash rate (type B) and optionally, one color (type C). Vendor specific guidance lights are defined starting from the end of the array.

Note the maximum guidance light identifier is WFS_SIU_GUIDLIGHTS_MAX.and direction flags (Type D) cannot be reported from this field as the field type is WORD. It is recommended that applications use the <code>fwGuidLightsEx.lpszExtra</code> pointer—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_CHEOUEUNIT]

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.

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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.

fwGuidLightsEx [...]

Specifies the state of the guidance lights. See WFS_INF_SIU_CAPABILITIES fwGuidLightsEx for supported guidance lights and states. The state of each guidance light can be WFS_SIU_NOT_AVAILABLE, WFS_SIU_OFF or a combination of one flash rate (type B) and optionally, one color (type C) and one direction (type D) flags. Vendor specific guidance lights are defined starting from the end of the array. The maximum guidance light index is WFS_SIU_GUIDLIGHTS_MAX_EX.

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.

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4.2 WFS_INF_SIU_CAPABILITIES

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

Input Param None.

Output Param LPWFSSIUCAPS lpCaps;

```
typedef struct _wfs_siu_caps
                     wClass;
     WORD
                      fwType;
     WORD
                      fwSensors [WFS SIU SENSORS SIZE];
                     fwDoors [WFS SIU DOORS SIZE];
     WORD
                      fwIndicators [WFS SIU INDICATORS SIZE];
     WORD
     WORD
                      fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
                      fwGuidLights [WFS SIU GUIDLIGHTS SIZE];
     WORD
     LPSTR
                      lpszExtra;
     BOOL
                     bPowerSaveControl;
     WORD
                      fwAutoStartupMode;
     BOOT
                     bAntiFraudModule;
     LPDWORD
                      lpdwSynchronizableCommands;
     LPWFSSIUTRMINFO
                     lpTerminalInformation;
                      fwGuidLightsEx [WFS SIU GUIDLIGHTS SIZE EX];
     DWORD
                    *LPWFSSIUCAPS;
     } WFSSIUCAPS,
```

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.	A
WFS_SIU_RUN	The switch can be set in Run mode.	В
WFS_SIU_MAINTENANCE	The switch can be set in Maintenance mode.	В
WFS_SIU_SUPERVISOR	The switch can be set in Supervisors mode	В

fwSensors [WFS SIU TAMPER]

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

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

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fwSensors [WFS SIU INTTAMPER]

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

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

fwSensors [WFS SIU SEISMIC]

Specifies whether the Seismic Sensor is available. Specified as one of the following flags:

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

fwSensors [WFS SIU HEAT]

Specifies whether the Heat Sensor is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Heat Sensor available.
WFS SIU AVAILABLE	The Heat Sensor is available.

fwSensors [WFS SIU PROXIMITY]

Specifies whether the Proximity Sensor is available. Specified as one of the following flags:

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

fwSensors [WFS SIU AMBLIGHT]

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

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Ambient Light Sensor available.
WFS_SIU_AVAILABLE	The Ambient Light Sensor is available.

fwSensors [WFS SIU ENHANCEDAUDIO]

Specifies whether the Audio Jack is present, and if so, which modes it supports. 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 Audio Jack available.	A
WFS_SIU_MANUAL	The Audio Jack is available and	В
	supports manual mode.	
WFS_SIU_AUTO	The Audio Jack is available and	В
	supports auto mode.	
WFS_SIU_SEMI_AUTO	The Audio Jack is available and	В
	supports semi-auto mode.	
WFS_SIU_BIDIRECTIONAL	The Audio Jack is available and	В
	can support headphones that have	
	an integrated microphone via a	
	single jack.	

fwSensors [WFS_SIU_BOOT_SWITCH]

Specifies whether the Boot Switch is available. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Boot Switch Sensor available.
WFS_SIU_AVAILABLE	The Boot Switch Sensor is available.

fwSensors [WFS SIU CONSUMER DISPLAY]

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

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Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Consumer Display Sensor
	available.
WFS_SIU_AVAILABLE	The Consumer Display Sensor is available.

fwSensors [WFS SIU OPERATOR CALL BUTTON]

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	Type
WFS_SIU_NOT_AVAILABLE	There is no Handset available.	A
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
WFS_SIU_MICROPHONE	The Handset is available and contains an embedded microphone for audio input.	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.
	1 1

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.

fwSensors [WFS SIU HEADSETMICROPHONE]

Specifies whether the Microphone Jack is present, and if so, which modes it supports. If the fwSensors [WFS_SIU_ENHANCEDAUDIO] capability indicates the presence of a bi-directional Audio Jack then both sensors reference the same physical jack. 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 Microphone Jack available.	A
WFS_SIU_MANUAL	The Microphone Jack is available and supports manual mode.	В
WFS_SIU_AUTO	The Microphone Jack is available and supports auto mode.	В
WFS_SIU_SEMI_AUTO	The Microphone Jack is available and supports semi-auto mode.	В

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fwSensors [WFS SIU FASCIAMICROPHONE]

Specifies whether a Fascia Microphone (for public audio input) is present. Specified as one of the following flags:

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

fwDoors [...]

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

fwDoors [WFS SIU CABINET]

Specifies whether at least one Cabinet Doors is available, and if so, which states they can take. Specified as WFS SIU NOT AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Cabinet Door available.	A
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
WFS_SIU_TAMPERED	At least one of the Cabinet Doors	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	Type
WFS_SIU_NOT_AVAILABLE	There is no Safe Door available.	A
WFS_SIU_CLOSED	The Safe Doors can be closed.	В
WFS_SIU_OPEN	The Safe Doors can be open.	В
WFS_SIU_LOCKED	The Safe Doors can be locked.	В
WFS_SIU_BOLTED	The Safe Doors can be bolted.	В
WFS_SIU_TAMPERED	The Safe Doors can detect	В
	potential tampering.	

fwDoors [WFS SIU VANDALSHIELD]

Specifies whether the Vandal Shield is available, and if so, which states it can take. Specified as WFS SIU NOT AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Vandal Shield	A
	available.	
WFS_SIU_CLOSED	The Vandal Shield can be closed.	В
WFS_SIU_OPEN	The Vandal Shield can be open.	В
WFS_SIU_LOCKED	The Vandal Shield can be locked.	В
WFS_SIU_SERVICE	The Vandal Shield can be in	В
	service position.	
WFS_SIU_KEYBOARD	The Vandal Shield can be in	В
	position that permits access to	
	the keyboard.	
WFS_SIU_TAMPERED	The Vandal Shield can detect	B
	potential tampering.	

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fwDoors [WFS SIU CABINET FRONT]

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

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Front Cabinet Door available.	A
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
WFS_SIU_TAMPERED	At least one of the Front Cabinet	В
	Doors can detect potential tamper	ing.

fwDoors [WFS SIU CABINET REAR]

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

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Rear Cabinet Door available.	A
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
WFS_SIU_TAMPERED	At least one of the Rear Cabinet	В
	Doors can detect potential tamper	ring.

fwDoors [WFS SIU CABINET LEFT]

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

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

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fwDoors [WFS SIU CABINET RIGHT]

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

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no Right Cabinet Door available.	A
WFS_SIU_CLOSED	At least one of the Right Cabinet	В
WFS_SIU_OPEN	Doors can detect a closed state. 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
WFS SIU BOLTED	Doors can be locked. At least one of the Right Cabinet	В
WFS SIU TAMPERED	Doors can be bolted. At least one of the Right Cabinet	В
WIS_SIC_IIIM ERBS	Doors can detect potential tamper	

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.

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fwIndicators [WFS SIU SIGNAGEDISPLAY]

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

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Signage Display available.
WFS_SIU_AVAILABLE	The Signage Display is available.

fwIndicators [WFS SIU TRANSINDICATOR]

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

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

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

Value	Meaning
WFS_SIU_LAMP1	Transaction Indicator 1.
WFS_SIU_LAMP2	Transaction Indicator 2.
WFS_SIU_LAMP16	Transaction Indicator 16.

fwIndicators [WFS_SIU_GENERALOUTPUTPORT]

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

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

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

Value	Meaning
WFS_SIU_GPP1	General-Purpose Output Port 1.
WFS_SIU_GPP2	General-Purpose Output Port 2.
 WFS_SIU_GPP16	General-Purpose Output Port 16.

fwAuxiliaries [...]

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

fwAuxiliaries [WFS SIU VOLUME]

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

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Volume Control available.
1,, 1000	The recommended increment/decrement
	value for the Volume Control.

fwAuxiliaries [WFS SIU UPS]

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

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	There is no UPS available.	A
WFS_SIU_AVAILABLE	The UPS is available.	В
WFS_SIU_LOW	The UPS can indicate that its	В
	charge level is low.	

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WFS_SIU_ENGAGED	The UPS can be engaged and	В
	disengaged by the application.	
WFS_SIU_POWERING	The UPS can indicate that it is	В
	powering the system while the	
	main power supply is off.	
WFS SIU RECOVERED	The UPS can indicate that it was	В
	engaged when the main power	
	went off.	

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	Type		
WFS_SIU_NOT_AVAILABLE	There is no Enhanced Audio	A		
	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			
	to indicate Privacy Device			
	activation/deactivation.			
WFS_SIU_MODE_CONTROLLABLE	The Enhanced Audio Controller	В		
	is available and supports			
	application control of the			
	Privacy Device mode via the			
	WFS_CMD_SIU_SET_PORTS as	nd		
	WFS_CMD_SIU_SET_AUXILIA	ARY		
	command.			

fwAuxiliaries [WFS SIU ENHANCEDMICROPHONECONTROL]

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

Value	Meaning	Type	
WFS_SIU_NOT_AVAILABLE	There is no Enhanced	A	
	Microphone Controller available.		
WFS_SIU_HEADSET_DETECTION	The Enhanced Microphone	В	
	Controller is available and supports		

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Privacy Device activation/deactivation.
The device is able to report events to indicate Privacy Device activation/deactivation.

WFS_SIU_MODE_CONTROLLABLE
The Enhanced Microphone B Controller is available and Supports application control of the Privacy Device mode via the WFS_CMD_SIU_SET_PORTS and WFS_CMD_SIU_SET_AUXILIARY command.

fwAuxiliaries [WFS SIU MICROPHONEVOLUME]

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

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Microphone Volume Control
	available.
1,, 1000	The recommended increment/decrement
	value for the Microphone Volume Control.

fwGuidLights [...]

Specifies which <u>Guidance Light Indicators guidance lights</u> are available. <u>A number of guidance light types are defined below.</u> Vendor specific guidance lights are defined starting from the end of the array. <u>The See WFS_INF_SIU_CAPABILITIES fwGuidLightsEx</u> for standard guidance light identifiers and states.

<u>Note the maximum guidance light indexidentifier</u> is WFS_SIU_GUIDLIGHTS_MAX. The elements of and direction flags (Type D) cannot be reported from this array are specified field as one of the following flagsfield type:

Value	
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 WORD. It 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.

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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.

recommended that applications use fwGuidLightsEx.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
	available.	
WFS_SIU_AUTOSTARTUP_SPECIFIC	The device supports one-time	В
	auto start-up on a specific date	
	at a specific time.	
WFS_SIU_AUTOSTARTUP_DAILY	The device supports auto	В
	start-up every day at a specific	
	time.	
WFS_SIU_AUTOSTARTUP_WEEKLY	The device supports auto	В
	start-up at a specified time	
	on a specific day of every week.	

bAntiFraudModule

Specifies whether the anti-fraud module is available. This can either be TRUE if available or FALSE if not available.

lpdwSynchronizableCommands

Pointer to a zero-terminated list of DWORDs which contains the execute command IDs that can be synchronized. If no execute command can be synchronized then this parameter will be NULL.

lpTerminalInformation

Specifies identification information about the terminal, for example the model ID and serial number of the terminal [Ref. 2].

typedef	struct	wfs	siu	trm	info	
{	_					
LP	WSTR		lps	szMod	delID;	:
LP	WSTR		lps	szSei	rialNu	imber;
} 1	WESSIUTR	MINF). *·	LPWF	SSTUTI	RMINFO:

<u>lpszModelID</u>

Specifies a UNICODE string which identifies the model ID of the terminal, This string value is terminated with a null character. *lpszModelID* is NULL when the model ID is unknown.

lpszSerialNumber

Specifies a UNICODE string which identifies the unique serial number of the terminal, This string value is terminated with a null character. *lpszSerialNumber* is NULL when the serial number is unknown.

fwGuidLightsEx [...]

Specifies which guidance light identifiers are available. Vendor specific guidance light identifiers are defined starting from the end of the array. The maximum guidance light identifier is WFS SIU GUIDLIGHTS MAX EX.

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The elements of this array are specified as a combination of the following flags and indicate all of the possible flash rates (type B), colors (type C) and directions (type D) that the guidance light indicator is capable of handling. If the guidance light indicator only supports one color then no value of type C is returned. If the guidance light indicator does not support direction then no value of type D is returned. A value of WFS_SIU_NOT_AVAILABLE indicates that the guidance light indicator is not available. In this case, the guidance light indicator may be available using the device specific Service Provider.

Note that direction flags (Type D) cannot be reported from *fwGuidLights* as the field type is <u>WORD.</u>

Value	Meaning	<u>Type</u>
WFS_SIU_NOT_AVAILABLE	There is no guidance light control	A
	available at this position.	
WFS_SIU_OFF	The light can be off.	В
WFS_SIU_SLOW_FLASH	The light can blink slowly.	В
WFS_SIU_MEDIUM_FLASH	The light can blink medium	В
	frequency.	
WFS_SIU_QUICK_FLASH	The light can blink quickly.	В
WFS_SIU_CONTINUOUS	The light can be	В
	continuous (steady).	
WFS SIU GUIDANCE RED	The light can be red.	<u>C</u>
WFS_SIU_GUIDANCE_GREEN	The light can be green.	<u>C</u>
WFS_SIU_GUIDANCE_YELLOW	The light can be yellow.	<u>C</u>
WFS_SIU_GUIDANCE_BLUE	The light can be blue.	C
WFS SIU GUIDANCE CYAN	The light can be cyan.	<u>C</u>
WFS SIU GUIDANCE MAGENTA	The light can be magenta.	C
WFS SIU GUIDANCE WHITE	The light can be white.	C
WFS SIU GUIDANCE ENTRY	The light can be in the entry state.	D
WFS SIU GUIDANCE EXIT	The light can be in the exit state.	D

The following standard guidance light identifiers are available.

WFS SIU CARDUNIT

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

WFS SIU PINPAD

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

WFS SIU NOTESDISPENSER

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

WFS SIU COINDISPENSER

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

WFS SIU RECEIPTPRINTER

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

WFS SIU PASSBOOKPRINTER

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

WFS SIU ENVDEPOSITORY

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

WFS SIU CHEQUEUNIT

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

WFS SIU BILLACCEPTOR

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

WFS SIU ENVDISPENSER

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

WFS SIU DOCUMENTPRINTER

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

WFS SIU COINACCEPTOR

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

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WFS SIU SCANNER

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

The following identifiers are only reported from fwGuidLightsEx as they are greater than WFS SIU GUIDLIGHTS MAX,

WFS SIU CONTACTLESS

Specifies whether the Guidance Light Indicator on contactless reader is available.

WFS SIU CARDUNIT2

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

WFS SIU NOTESDISPENSER2

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

WFS SIU BILLACCEPTOR2

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

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

Comments Applications which require or expect specific information to be present in the *lpszExtra* parameter

may not be device or vendor-independent.

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4.3 WFS_INF_SIU_GET_AUTOSTARTUP_TIME

Description This command is used to retrieve the availability 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;

wMode

Specifies the current auto start-up control mode configured 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 specific 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.

lpStartTime

Specifies the current auto start-up time configuration.

Win32 SYSTEMTIME structure:

wYear

Specifies the year. The value should be ignored if it is not relevant to the *wMode* value.

wMonth

Specifies the month. The value should be ignored if it is not relevant to the *wMode* value.

wDayOfWeek

Specifies the day of the week, in values from 0 (Sunday) to 6 (Saturday). The value should be ignored if it is not relevant to the *wMode* value.

wDay

Specifies the day of the month. The value should be ignored if it is not relevant to the *wMode* value.

wHou

Specifies the hour. The value should be ignored if it is not relevant to the wMode value.

wMinute

Specifies the minute. The value should be ignored if it is not relevant to the *wMode* value.

wSecond

This field is not used and will be zero.

wMilliseconds

This field is not used and will be zero.

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

Events None.

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Comments None.

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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. The events are only enabled or disabled for the session which sends the command, all other sessions are unaffected.

Input Param

LPWFSSIUENABLE lpEnable;

fwSensors [...]

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

fwSensors [WFS SIU OPERATORSWITCH]

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

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

fwSensors [WFS SIU TAMPER]

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

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

fwSensors [WFS SIU INTTAMPER]

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

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

fwSensors [WFS SIU SEISMIC]

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

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.

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

fwSensors [WFS SIU HEAT]

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

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

fwSensors [WFS SIU PROXIMITY]

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

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

fwSensors [WFS SIU AMBLIGHT]

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

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

fwSensors [WFS_SIU_ENHANCEDAUDIO]

Specifies whether the 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
	or shutdown.
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:

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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.

fwSensors [WFS SIU HEADSETMICROPHONE]

Specifies whether the Microphone Jack should report whenever it detects changes in the microphone 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 Microphone Jack should report whenever it detects a headset microphone
WFS_SIU_DISABLE_EVENT	being connected or disconnected. The Microphone Jack should not report any change in headset microphone connection state.

fwDoors [...]

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

fwDoors [WFS SIU CABINET]

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

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

fwDoors [WFS SIU SAFE]

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

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

fwDoors [WFS SIU VANDALSHIELD]

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

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

fwDoors [WFS SIU CABINET FRONT]

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

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

fwDoors [WFS SIU CABINET REAR]

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

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

fwDoors [WFS SIU CABINET LEFT]

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

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

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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:

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

fwIndicators [WFS SIU SIGNAGEDISPLAY]

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

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

fwIndicators [WFS SIU TRANSINDICATOR]

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

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

fwIndicators [WFS SIU GENERALOUTPUTPORT]

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

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

fwAuxiliaries [...]

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

fwAuxiliaries[WFS_SIU_VOLUME]

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

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Volume Control device should report
	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.

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WFS_SIU_ENABLE_EVENT
The UPS device should report whenever it is changed.
WFS_SIU_DISABLE_EVENT
The UPS device should not report any changes.

fwAuxiliaries[WFS SIU REMOTE STATUS MONITOR]

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

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

fwAuxiliaries[WFS SIU AUDIBLE ALARM]

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

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

fwAuxiliaries [WFS SIU ENHANCEDAUDIOCONTROL]

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

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

fwAuxiliaries [WFS SIU ENHANCEDMICROPHONECONTROL]

Specifies whether the Enhanced Microphone 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 Microphone Controller should
	report whenever it is changed.
WFS_SIU_DISABLE_EVENT	The Enhanced Microphone Controller device
	should not report any changes.

fwAuxiliaries[WFS_SIU_MICROPHONEVOLUME]

Specifies whether the Microphone 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 Microphone Volume Control device
	should report whenever it is changed.
WFS_SIU_DISABLE_EVENT	The Microphone Volume Control 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.

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WFS SIU ENABLE EVENT

WFS SIU DISABLE EVENT

The Guidance Light Indicators should report whenever any of them changes its state. 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.

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

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	Value	Meaning
	WFS_ERR_SIU_INVALID_PORT	An attempt to enable or disable events to a port was invalid because the port does not exist.
	WFS_ERR_SIU_SYNTAX	The command was invoked with incorrect input data. E.g. an attempt to both enable and disable events to the same port was made.
Events	In addition to the generic events defined in [Recommand:	f. 1], the following events can be generated by this
	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 return executing the command, the command will return which indicate(s) the port(s) which have failed	urn OK, but execute event(s) will be generated

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5.2 WFS_CMD_SIU_SET_PORTS

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

Indicators Unit.

Input Param LPWFSSIUSETPORTS lpSetPorts;

fwDoors [WFS SIU CABINET]

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

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.

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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
	consumer.
WFS_SIU_OPEN	The Open/Closed Indicator is changed to
	show that the terminal is open to be used by
	a consumer.

fwIndicators [WFS SIU FASCIALIGHT]

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

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	Type
WFS_SIU_NO_CHANGE	Do not change the current status	A
	of the Audio Indicator.	
WFS_SIU_OFF	The Audio Indicator is turned off.	A
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key 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 error signal.	В

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WFS_SIU_CONTINUOUS

The Audio Indicator sound is 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 SIGNAGEDISPLAY]

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.

fwIndicators [WFS_SIU_GENERALOUTPUTPORT]

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

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

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

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

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

fwAuxiliaries[WFS SIU AUDIBLE ALARM]

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

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

fwAuxiliaries [WFS SIU ENHANCEDAUDIOCONTROL]

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

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

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Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the status of the Enhanced Audio Controller.
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	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.
WFS_SIU_PRIVATEAUDIO_AUTO	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 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	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.

fwAuxiliaries [WFS SIU ENHANCEDMICROPHONECONTROL]

Specifies whether the state of the Enhanced Microphone 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_ENHANCEDMICROPHONECONTROL auxiliary in the

WFS_INF_SIU_CAPABILITIES command. Specified as one of the following flags:

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the status of the Enhanced
	Microphone Controller.
WFS_SIU_PUBLICAUDIO_MANUAL	Set the Enhanced Microphone Controller to
	manual mode, public state (i.e. only the
	microphone in the fascia is active).
WFS_SIU_PUBLICAUDIO_AUTO	Set the Enhanced Microphone Controller to
	auto mode, public state (i.e. only the
	microphone in the fascia is active). When a
	Privacy Device with a microphone is
	activated (headset connected/handset off-
	hook), the device will go to the private state.

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WFS_SIU_PUBLICAUDIO_SEMI_AUTO	Set the Enhanced Microphone Controller to semi-auto mode, public state (i.e. only the microphone in the fascia is active). When a Privacy Device with a microphone is activated, the device will go to the private state.
WFS_SIU_PRIVATEAUDIO_MANUAL	Set the Enhanced Microphone Controller to manual mode, private state (i.e. audio input will be only via a microphone in the Privacy Device). In private mode, no audio input is transmitted through the fascia microphone.
WFS_SIU_PRIVATEAUDIO_AUTO	Set the Enhanced Microphone Controller to auto mode, private state (i.e. audio input will be only via a microphone in the Privacy Device). In private mode, no audio input is transmitted through the fascia microphone. When a Privacy Device with a microphone is deactivated (headset disconnected/handset on-hook), the device will go to the public state.
WFS_SIU_PRIVATEAUDIO_SEMI_AUTO	Set the Enhanced Microphone Controller to semi-auto mode, private state (i.e. audio input will be only via a microphone in the Privacy Device). In private mode, no audio input is transmitted through the fascia microphone. When a Privacy Device with a microphone is deactivated, the device will remain in the private state.

fwAuxiliaries [WFS_SIU_MICROPHONEVOLUME]

Specifies whether the value of the Microphone Volume Control should be changed. If so, the value of Microphone 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
	Microphone Volume Control.
1,, 1000	The volume level. This field is handled as an unsigned short. If a value greater than 1000
	e e
	is used, the provider will map the value to
	1000.

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: Specifies the state of the guidance light indicator. See

WFS INF SIU CAPABILITIES fwGuidLights for supported guidance light indicators and states.

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).

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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.

Note that direction flags (Type D) cannot be specified as the field type is WORD. It is recommended that applications use the WFS CMD SIU SET GUIDLIGHT EX command.

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.

Error Codes

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

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

Events

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

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

Comments

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

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
                     wDoor;
     WORD
                     fwCommand;
     } WFSSIUSETDOOR, *LPWFSSIUSETDOOR;
```

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

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

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

Events

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

Comments

None.

5.4 WFS_CMD_SIU_SET_INDICATOR

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

Input Param LPWFSSIUSETINDICATOR lpSetIndicator;

wIndicator

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

Value	Meaning
WFS_SIU_OPENCLOSE	Set Open/Close Indicator for the consumer.
WFS_SIU_FASCIALIGHT	Turn on/off the Fascia Light.
WFS_SIU_AUDIO	Turn on/off the Audio Indicator.
WFS_SIU_HEATING	Turn on/off the Heating device.
WFS_SIU_CONSUMER_DISPLAY_BACKLI	GHT
	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
WEG GIV WEVENEGG	a consumer.
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key click
WEG CHI EVOLAMATION	signal.
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an exclamation
WFS SIU WARNING	signal. The Audio Indicator sounds a warning
WF3_SIO_WARNING	signal.
WFS SIU ERROR	The Audio Indicator sounds an error signal.
WFS SIU CRITICAL	The Audio Indicator sounds a critical error
WIS_SIG_CIATIONE	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.

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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 by this command:

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

Comments

None.

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5.5 WFS_CMD_SIU_SET_AUXILIARY

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

Input Param LPWFSSIUSETAUXILIARY lpSetAuxiliary;

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.
WFS_SIU_ENHANCEDMICROPHONECONT	FROL Set the value of the Enhanced
	Microphone Controller.
WFS_SIU_MICROPHONEVOLUME	Set the value of the Microphone Volume
	Control.

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 or Microphone
	Controller to manual mode, public state (i.e.
	audio will be played through speakers only).
WFS_SIU_PUBLICAUDIO_AUTO	Set the Enhanced Audio or Microphone
	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.
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WFS_SIU_PUBLICAUDIO_SEMI_AUTO	Set the Enhanced Audio or Microphone 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	Set the Enhanced Audio or Microphone 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.
WFS_SIU_PRIVATEAUDIO_AUTO	Set the Enhanced Audio or Microphone 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 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	Set the Enhanced Audio or Microphone 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

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

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

Events

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

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

Comments

When wAuxiliary is any value other than WFS SIU REMOTE STATUS MONITOR the fwCommand parameter should contain one of the values that correspond to the auxiliary defined in wAuxiliary.

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

Value	Meaning	Type
WFS_SIU_GREEN_LED_ON	Turn on the green LED on the	A
	Remote Status Monitor device.	
WFS_SIU_GREEN_LED_OFF	Turn off the green LED on the	A
	Remote Status Monitor device.	
WFS_SIU_AMBER_LED_ON	Turn on the amber LED on the	В
	Remote Status Monitor device.	

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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	C
	Remote Status Monitor device.	
WFS_SIU_RED_LED_OFF	Turn off the red LED on the	C
	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. This command has been retained for backwards compatibility only. It is recommended that applications use the WFS CMD SIU SET GUIDLIGHT EX command.

Input Param

LPWFSSIUSETGUIDLIGHT lpSetGuidLight;

wGuidLight

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

<u> </u>
The maximum guidance light identifier supported by this command is
WFS_SIU_CARDUNIT Set the state of the
Guidance Light Indicator on the Card Unit
(IDC).

Meaning

WFSGUIDLIGHTS MAX. See WFS INF SIU PINPAD Set the state of the Guidance Light Indicator on the PIN pad unit CAPABILITIES fwGuidLights for supported guidance light indicator identifiers.

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WFS_SIU_NOTESDISPENSER	Set the state of the Guidance Light Indicator
	on the note dispenser unit.
WFS_SIU_COINDISPENSER	Set the state of the Guidance Light Indicator
	on the coin dispenser unit.
WFS_SIU_RECEIPTPRINTER	Set the state of the Guidance Light Indicator
	on the receipt printer unit.
WFS_SIU_PASSBOOKPRINTER	Set the state of the Guidance Light Indicator
	on the passbook printer unit.
WFS_SIU_ENVDEPOSITORY	Set the state of the Guidance Light Indicator
	on the envelope depository unit.
WFS_SIU_CHEQUEUNIT	Set the state of the Guidance Light Indicator
	on the cheque processing unit.
WFS_SIU_BILLACCEPTOR	Set the state of the Guidance Light Indicator
	on the bill acceptor unit.
WFS_SIU_ENVDISPENSER	Set the state of the Guidance Light Indicator
	on the envelope dispenser unit.
WFS_SIU_DOCUMENTPRINTER	Set the state of the Guidance Light Indicator
	on the document printer.
WFS_SIU_COINACCEPTOR	Set the state of the Guidance Light Indicator
	on the coin acceptor.
WFS_SIU_SCANNER	Set the state of the Guidance Light Indicator
	on the scanner.

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
	toguidance light indicator. This command
	only supports flash rate (type B) commands.
	See WFS_INF_SIU_CAPABILITIES
	fwGuidLights for supported flash at a
	medium frequency.
WFS_SIU_QUICK_FLASH	The Guidance Light Indicator is set to flash
	quickly.

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WFS_SIU_CONTINUOUS

The Guidance Light Indicator is turned on continuously (steady).

See WFS_CMD_SIU_SET_PORTS command for a detailed description rates.

Output Param None.

Error Codes In ad

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

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

Events

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

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

Comments

The slow and medium flash rates must not be greater than 2.0 Hz. It should be noted that in order to comply with American Disabilities Act guidelines only a slow or medium flash rate must be used.

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5.7 WFS_CMD_SIU_RESET

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

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

another application or service handle.

Input Param None.

Output Param None.

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

generated by this command:

 Value
 Meaning

 WFS_ERR_SIU_PORT_ERROR
 A hardware error occurred while executing the command.

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.

Events

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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;
```

usMaxPowerSaveRecoveryTime

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

Output Param

None.

Error Codes

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

Value	Meaning
WFS_ERR_SIU_POWERSAVETOOSHORT	The power saving mode has not been activated because the device is not able to resume from the power saving mode within the specified usMaxPowerSaveRecoveryTime value.
n addition to the generic events defined in [Ref. 1], ommand:	the following events can be generated by this

Events

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Value	Meaning
WFS_SRVE_SIU_POWER_SAVE_CHANGE	The power save recovery time has changed.

Comments

None.

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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.

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.

Input Param

LPWFSSIUSETSTARTUPTIME lpSetStartupTime;

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 <i>lpStartTime</i> parameter, <i>wYear</i> , <i>wMonth</i> , <i>wDay</i> , <i>wHour</i> and <i>wMinute</i>
WFS_SIU_AUTOSTARTUP_DAILY	must be set and all other fields are ignored. Auto start-up at the same time every day. In the <i>lpStartTime</i> parameter, <i>wHour</i> and <i>wMinute</i> must be set and all other fields are ignored.
WFS_SIU_AUTOSTARTUP_WEEKLY	Auto start-up at a specified time on a specific day of every week. In the <i>lpStartTime</i> parameter, <i>wDayOfWeek</i> , <i>wHour</i> and <i>wMinute</i> must be set and all other fields are ignored.

lpStartTime

Specifies the auto start-up time.

Win32 SYSTEMTIME structure:

wYear

Specifies the year. This value is ignored if it is not relevant to the wMode value.

wMonth

Specifies the month. This value is ignored if it is not relevant to the *wMode* value.

wDayOfWeek

Specifies the day of the week, in values from 0 (Sunday) to 6 (Saturday). This value is ignored if it is not relevant to the *wMode* value.

wDay

Specifies the day of the month. This value is ignored if it is not relevant to the *wMode* value.

wHou

Specifies the hour. This value is ignored if it is not relevant to the *wMode* value.

wMinute

Specifies the minute. This value is ignored if it is not relevant to the wMode value.

wSecond

This field is not used and must be zero.

wMilliseconds

This field is not used and must be zero.

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Output Param None.

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

Events None.

Comments None.

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5.10 WFS CMD SIU SYNCHRONIZE COMMAND

Description

This command is used to reduce response time of a command (e.g. for synchronization with display) as well as to synchronize actions of the different device classes. This command is intended to be used only on hardware which is capable of synchronizing functionality within a single device class or with other device classes.

The list of execute commands which this command supports for synchronization is retrieved in the *lpdwSynchronizableCommands* parameter of the WFS INF SIU CAPABILITIES.

This command is optional, i.e. any other command can be called without having to call it in advance. Any preparation that occurs by calling this command will not affect any other subsequent command. However, any subsequent execute command other than the one that was specified in the *dwCommand* input parameter will execute normally and may invalidate the pending synchronization. In this case the application should call the

WFS_CMD_SIU_SYNCHRONIZE_COMMAND again in order to start a synchronization.

Input Param

$LPWFSSIUSYNCHRONIZECOMMAND\ lpSynchronizeCommand;$

dwCommand

The command ID of the command to be synchronized and executed next.

lpCmdData

Pointer to data or a data structure that represents the parameter that is normally associated with the command that is specified in *dwCommand*. For example, if *dwCommand* is WFS_CMD_SIU_SET_INDICATOR then *lpCmdData* will point to a WFSSIUSETINDICATOR structure. This parameter can be NULL if no command input parameter is needed or if this detail is not needed to synchronize for the command.

It will be device-dependent whether the synchronization is effective or not in the case where the application synchronizes for a command with this command specifying a parameter but subsequently executes the synchronized command with a different parameter. This case should not result in an error; however, the preparation effect could be different from what the application expects. The application should, therefore, make sure to use the same parameter between *lpCmdData* of this command and the subsequent corresponding execute command.

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_COMMANDUNSUPP	The command specified in the dwCommand
	field is not supported by the Service
	Provider.
WFS_ERR_SIU_SYNCHRONIZEUNSUPP	The preparation for the command specified in the <i>dwCommand</i> with the parameter specified in the <i>lpCmdData</i> is not supported by the Service Provider.

Events

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

Comments

For sample flows of this synchronization see the [Ref 1] Appendix C.

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5.11 WFS CMD SIU SET GUIDLIGHT EX

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

Input Param LPWFSSIUSETGUIDLIGHTEX lpSetGuidLightEx;

wGuidLight

Specifies the identifier of the guidance light indicator to set. See WFS_INF_SIU_CAPABILITIES fwGuidLightsEx for supported guidance light indicator identifiers.

fwCommand

Specifies the state of the guidance light indicator. See WFS_INF_SIU_CAPABILITIES fwGuidLightsEx for supported states.

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:

<u>Value</u>	<u>Meaning</u>
WFS ERR SIU INVALID PORT	An attempt to set a port to a new value was
	invalid because the port does not exist or the
	port is pre-configured as an input port.
WFS ERR SIU SYNTAX	The command was invoked with incorrect
	input data.

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

Value	<u>Meaning</u>
WFS EXEE SIU PORT ERROR	An error occurred while attempting to set or
	clear one or more output ports (indicators).

Comments

The slow and medium flash rates must not be greater than 2.0 Hz. It should be noted that in order to comply with American Disabilities Act guidelines only a slow or medium flash rate must be used.

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;

wPortType

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

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

wPortIndex

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

Value	Meaning	
WFS_SIU_OPERATORSWITCH	The Operator Switch has changed its state.	
WFS_SIU_TAMPER	The Tamper Sensor has changed its state.	
WFS_SIU_INTTAMPER	The Internal Tamper Sensor has changed its state.	
WFS_SIU_SEISMIC	The Seismic Sensor has changed its state.	
WFS_SIU_HEAT	The Heat Sensor has changed its state.	
WFS_SIU_PROXIMITY	The Proximity Sensor has changed its state.	
WFS_SIU_AMBLIGHT	The Ambient Light Sensor has changed its state.	
WFS_SIU_ENHANCEDAUDIO	The Audio Jack has changed its state (a headset has been plugged-in or removed).	
WFS_SIU_BOOT_SWITCH	The Boot Switch Sensor has changed its state.	
WFS_SIU_CONSUMER_DISPLAY	The Consumer Display Sensor has changed its state.	
WFS_SIU_OPERATOR_CALL_BUTTON	The Operator Call Button has changed its 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_HEADSETMICROPHONE	The Microphone Jack has changed its state (a headset microphone has been plugged-in or removed).	
WFS SIU CABINET	The Cabinet Doors have changed their state.	

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WFS_SIU_SAFE
WFS_SIU_VANDALSHIELD
WFS_SIU_CABINET_FRONT
The Safe Doors have changed their state.
The Vandal Shield has changed its state.
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_ENHANCEDMICROPHONECONTROL The Enhanced Microphone

Controller has changed state.

WFS_SIU_MICROPHONEVOLUME The Microphone Volume Control device has

changed its value.

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. The Guidance Light Indicator state for the

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.

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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	The Guidance Light Indicator state for the
	coin acceptor has changed.
WFS_SIU_SCANNER	The Guidance Light Indicator state for the
	scanner has changed.
WFS SIU CONTACTLESS	The Guidance Light Indicator state for the
	Contactless Reader unit has changed.
WFS_SIU_CARDUNIT2	The Guidance Light Indicator state for the
	second card unit has changed.
WFS_SIU_NOTESDISPENSER2	The Guidance Light Indicator state for the
	second notes dispenser has changed

WFS_SIU_BILLACCEPTOR2 The Guidance Light Indicator state for the second bill acceptor has changed_wPortStatus

Specifies the new state of the port indicated by wPortType and wPortIndex. 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.

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.

<u>dwPortStatus</u>

Specifies the new state of the port indicated by *wPortType* and *wPortIndex*. See the WFS_INF_SIU_STATUS information command for the possible values. This field allows additional values/flags to be reported which cannot be reported by *wPortStatus* as its type is WORD. Applications are recommended to use this field.

Comments None.

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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;

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:

1	J
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 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_HEADSETMICROPHONE	The Microphone Jack Sensor 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.

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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

rror

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.

WFS_SIU_UPS

The UPS device has detected an error.

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_ENHANCEDMICROPHONECONTROL The Enhanced Microphone

Controller has detected an error.

WFS_SIU_MICROPHONEVOLUME The Microphone Volume Control device 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

enon.

WFS_SIU_CHEQUEUNIT The Guidance Light Indicator for the cheque

unit has detected an error.

WFS_SIU_BILLACCEPTOR The Guidance Light Indicator for the bill

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

error.

WFS SIU DOCUMENTPRINTER The Guidance Light Indicator for the

WFS SIU ENVDISPENSER

document printer has detected an error.

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WFS_SIU_COINACCEPTOR	The Guidance Light Indicator for the coin acceptor has detected an error.
WFS SIU SCANNER	The Guidance Light Indicator for the scanner
	has detected an error.
WFS_SIU_CONTACTLESS	The Guidance Light Indicator state for the
	Contactless Reader unit has changed.
WFS_SIU_CARDUNIT2	The Guidance Light Indicator state for the
	second card unit has changed.
WFS_SIU_NOTESDISPENSER2	The Guidance Light Indicator state for the
	second notes dispenser has changed.
WFS_SIU_BILLACCEPTOR2	The Guidance Light Indicator state for the
	second bill acceptor has changed.

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 by *wPortType* and *wPostIndex.wPortIndex*. 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.

dwPortStatus

Specifies the new state of the port indicated in the *wPortType* and *wPortIndex*. See the WFS_INF_SIU_STATUS information command for the possible values. This field allows additional values/flags to be reported which cannot be reported by *wPortStatus* as its type is WORD. Applications are recommended to use this field.

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.

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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;

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.

CWA 16926-69:2020 (E)

7. C - Header file

```
/************************
                     XFS - Sensors and Indicators Unit (SIU) definitions
                         Version 3.<del>30 (March 19 2015) 40</del> (December 6 2019)
 *************************
 #ifndef __INC_XFSSIU__H
#define __INC_XFSSIU__H
#ifdef cplusplus extern \overline{\ ^{"}C"} {
 #endif
#include <xfsapi.h>
/* be aware of alignment */
#pragma pack (push, 1)
 /* values of WFSSIUCAPS.wClass */
 #define
                WFS SERVICE CLASS SIU
                                                                          (8)
                                                                          "STU"
             WFS SERVICE CLASS NAME SIU
 #define
                WFS SERVICE CLASS VERSION SIU
                                                                          (0 \times 1 \times 0.03) /* Version 3.3040 */
#define
 #define
                 SIU SERVICE OFFSET
                                                                          (WFS SERVICE CLASS SIU * 100)
 /* SIU Info Commands */
                  WFS INF SIU STATUS
                                                                         (SIU SERVICE OFFSET + 1)
                  WFS_INF_SIU_CAPABILITIES (SIU_SERVICE_OFFSET + 1)
WFS_INF_SIU_GET_AUTOSTARTUP_TIME (SIU_SERVICE_OFFSET + 3)
#define
 #define
/* SIU Command Verbs */
                  WFS CMD SIU ENABLE EVENTS
                                                                      (SIU_SERVICE_OFFSET + 1)
(SIU_SERVICE_OFFSET + 2)
#define WFS CMD SIU ENABLE EVENTS (SIU SERVICE OFFSET + 1)
#define WFS CMD SIU SET PORTS (SIU SERVICE OFFSET + 2)
#define WFS CMD SIU SET DOOR (SIU SERVICE OFFSET + 3)
#define WFS CMD SIU SET INDICATOR (SIU SERVICE OFFSET + 4)
#define WFS CMD SIU SET AUXILIARY (SIU SERVICE OFFSET + 5)
#define WFS CMD SIU SET GUIDLIGHT (SIU SERVICE OFFSET + 6)
#define WFS CMD SIU RESET (SIU SERVICE OFFSET + 7)
#define WFS CMD SIU POWER SAVE CONTROL (SIU SERVICE OFFSET + 8)
#define WFS CMD SIU SET AUTOSTARTUP TIME (SIU SERVICE OFFSET + 9)
#define WFS CMD SIU SYNCHRONIZE COMMAND (SIU SERVICE OFFSET + 10)
#define WFS CMD SIU SET GUIDLIGHT EX (SIU SERVICE OFFSET + 11)
                                                                          (SIU SERVICE OFFSET + 10)
                                                                          (SIU SERVICE OFFSET + 11)
/* SIU Messages */
                  WFS_SRVE_SIU_PORT_STATUS (SIU_SERVICE_OFFSET + 1)
WFS_EXEE_SIU_PORT_ERROR (SIU_SERVICE_OFFSET + 2)
#define
#define
                WFS SRVE SIU POWER SAVE CHANGE
                                                                        (SIU SERVICE OFFSET + 3)
#define
/* Values of WFSSIUSTATUS.fwDevice */
                WFS_SIU_DEVONLINE
WFS_SIU_DEVOFFLINE
                                                                         WFS_STAT_DEVONLINE WFS_STAT_DEVOFFLINE
#define
#define
#define WFS_SIU_DEVPOWEROFF
                                                                        WFS STAT DEVPOWEROFF
                                                                       WFS_STAT_DEVNODEVICE
WFS_STAT_DEVHWERROR
WFS_STAT_DEVUSERERROR
#define WFS_SIU_DEVNODEVICE
#define WFS_SIU_DEVHWERROR
#define WFS_SIU_DEVUSERERROR
                                                                      WFS_STAT_DEVBUSY
WFS_STAT_DEVFRAUDATTEMPT
WFS_STAT_DEVPOTENTIALFRAUD
#define
                WFS SIU DEVBUSY
                  WFS_SIU_DEVFRAUDATTEMPT
#define
                WFS_SIU_DEVFRAUDATTEMPT
WFS_SIU_DEVPOTENTIALFRAUD
#define
```

```
/* Size and max index of fwSensors array */
#define
            WFS SIU SENSORS SIZE
                                                   (32)
#define
            WFS SIU SENSORS MAX
                                                   (WFS SIU SENSORS SIZE - 1)
/* Size and max index of fwDoors array */
            WFS SIU DOORS SIZE
#define
            WFS SIU DOORS MAX
                                                   (WFS SIU DOORS SIZE - 1)
#define
/* Size and max index of fwIndicators array */
            WFS SIU INDICATORS SIZE
#define
#define
            WFS SIU INDICATORS MAX
                                                   (WFS SIU INDICATORS SIZE - 1)
/* Size max index of fwAuxiliaries array */
            WFS SIU AUXILIARIES SIZE
                                                   (16)
            WFS SIU AUXILIARIES MAX
                                                   (WFS SIU AUXILIARIES SIZE - 1)
#define
/* Size and max index of fwGuidLights array */
#define
            WFS SIU GUIDLIGHTS SIZE
#define
            WFS SIU GUIDLIGHTS MAX
                                                   (WFS SIU GUIDLIGHTS SIZE - 1)
/* Size and max index of fwGuidLightsEx array */
#define
            WFS SIU GUIDLIGHTS SIZE EX
            WFS SIU GUIDLIGHTS MAX EX
                                                   (WFS SIU GUIDLIGHTS SIZE EX - 1)
#define
/* Indices of WFSSIUSTATUS.fwSensors [...]
          WFSSIUCAPS.fwSensors [...]
          WFSSIUENABLE.fwSensors [...]
          WFSSIUPORTEVENT.wPortIndex
          WFSSIUPORTERROR.wPortIndex */
            WFS SIU OPERATORSWITCH
                                                   (0)
          WFS SIU TAMPER
#define
                                                   (1)
#define
          WFS SIU INTTAMPER
                                                   (2)
          WFS_SIU_SEISMIC
WFS_SIU_HEAT
#define
                                                   (3)
#define
                                                   (4)
          WFS SIU PROXIMITY
#define
                                                   (5)
        WFS_SIU_AMBLIGHT
WFS_SIU_ENHANCEDAUDI
WFS_SIU_BOOT_SWITCH
#define
                                                   (6)
#define
            WFS SIU ENHANCEDAUDIO
                                                   (7)
#define
                                                   (8)
#define
          WFS SIU CONSUMER DISPLAY
                                                   (9)
          WFS_SIU_OPERATOR_CALL_BUTTON
WFS_SIU_HANDSETSENSOR
#define
                                                   (10)
#define
                                                   (11)
#define
          WFS SIU GENERALINPUTPORT
                                                   (12)
            WFS_SIU_HEADSETMICROPHONE
#define
                                                   (13)
#define
           WFS SIU FASCIAMICROPHONE
                                                   (14)
/* Indices of WFSSIUSTATUS.fwDoors [...]
           WFSSIUCAPS.fwDoors [...]
           WFSSIUENABLE.fwDoors [...]
           WFSSIUSETPORTS.fwDoors [...]
           WFSSIUSETDOOR.wDoor
           WFSSIUPORTEVENT.wPortIndex
           WFSSIUPORTERROR.wPortIndex */
           WFS_SIU_CABINET WFS_SIU_SAFE
#define
                                                   (0)
#define
                                                   (1)
#define
          WFS SIU VANDALSHIELD
                                                   (2)
#define
            WFS_SIU_CABINET_FRONT
                                                   (3)
#define
           WFS SIU CABINET REAR
                                                   (4)
          WFS SIU CABINET LEFT
#define
                                                   (5)
           WFS SIU CABINET RIGHT
#define
                                                   (6)
```

```
/* Indices of WFSSIUSTATUS.fwIndicators [...]
            WFSSIUCAPS.fwIndicators [...]
             WFSSIUENABLE.fwIndicators [...]
             WFSSIUSETPORTS.wIndicators [...]
             WFSSIUSETINDICATOR.wIndicator
             WFSSIUPORTEVENT.wPortIndex
             WFSSIUPORTERROR.wPortIndex */
#define
            WFS SIU OPENCLOSE
                                                        (0)
            WFS_SIU_FASCIALIGHT
#define
                                                        (1)
            WFS_SIU_AUDIO
WFS_SIU_HEATING
#define
                                                        (2)
#define
                                                        (3)
            WFS SIU CONSUMER DISPLAY BACKLIGHT
#define
                                                        (4)
             WFS_SIU_SIGNAGEDISPLAY
WFS_SIU_TRANSINDICATOR
#define
                                                        (5)
#define
                                                        (6)
#define
            WFS SIU GENERALOUTPUTPORT
                                                        (7)
/* Indices of WFSSIUSTATUS.fwAuxiliaries [...]
             WFSSIUCAPS.fwAuxiliaries [...]
             WFSSIUENABLE.fwAuxiliaries [...]
             WFSSIUSETPORTS.wAuxiliaries [...]
             WFSSIUSETAUXILIARY.wAuxiliary
             WFSSIUPORTEVENT.wPortIndex
             WFSSIUPORTERROR.wPortIndex */
             WFS SIU VOLUME
                                                        (0)
            WFS SIU UPS
#define
                                                        (1)
#define
            WFS SIU REMOTE STATUS MONITOR
                                                        (2)
            WFS_SIU_AUDIBLE_ALARM
#define
                                                        (3)
#define
             WFS SIU ENHANCEDAUDIOCONTROL
                                                        (4)
           WFS SIU ENHANCEDMICROPHONECONTROL
#define
                                                        (5)
#define
            WFS SIU MICROPHONEVOLUME
                                                        (6)
/* Indices of WFSSIUSTATUS.fwGuidLights [...]
            WFSSIUCAPS.fwGuidLights [...]
             WFSSIUENABLE.fwGuidLights [...]
             WFSSIUSETPORTS.wGuidLights [...]
             WFSSIUSETGUIDLIGHT.wGuidLight
             WFSSIUPORTEVENT.wPortIndex
             WFSSIUPORTERROR.wPortIndex */
#define
            WFS SIU CARDUNIT
                                                        (0)
            WFS_SIU_PINPAD
WFS_SIU_NOTESDISPENSER
#define
                                                        (1)
#define
                                                        (2)
            WFS SIU COINDISPENSER
#define
                                                        (3)
#define WFS_SIU_RECEIPTPRINTER
#define WFS_SIU_PASSBOOKPRINTER
#define WFS_SIU_ENVDEPOSITORY
#define WFS_SIU_ENVDEPOSITORY
#define WFS_SIU_ENVDISPENSER
#define WFS_SIU_ENVDISPENSER
#define WFS_SIU_DOCUMENTPRINTER
                                                        (4)
                                                        (5)
                                                        (6)
                                                        (7)
                                                        (8)
                                                        (9)
#define
            WFS_SIU_COINACCEPTOR
                                                        (11)
             WFS_SIU_SCANNER
WFS_SIU_CONTACTLESS
#define
                                                        (12)
#define
                                                        (16)
#define
              WFS_SIU_CARDUNIT2
                                                        (17)
             WFS SIU NOTESDISPENSER2
WFS SIU BILLACCEPTOR2
#define
#define
                                                        (19)
/* Values of WFSSIUSTATUS.fwSensors [...]
           WFSSIUSTATUS.fwDoors [...]
           WFSSIUSTATUS.fwIndicators [...]
            WFSSIUSTATUS.fwAuxiliaries [...]
           WFSSIUSTATUS.fwGuidLights [...]
            WFSSIUCAPS.fwSensors [...]
           WFSSIUCAPS.fwDoors [...]
           WFSSIUCAPS.fwIndicators [...]
           WFSSIUCAPS.fwAuxiliaries [...]
           WFSSIUCAPS.fwGuidLights [...] */
```

```
WFS SIU NOT AVAILABLE
#define
                                                             (0x0000)
               WFS SIU AVAILABLE
#define
                                                             (0 \times 0.001)
WFSSIUPORTEVENT.wPortStatus
             WFSSIUPORTERROR.wPortStatus */
              WFS SIU RUN
                                                             (0x0001)
             WFS_SIU_MAINTENANCE
                                                             (0x0002)
#define
               WFS SIU SUPERVISOR
#define
                                                             (0x0004)
/* Values of WFSSIUSTATUS.fwDoors [...]
             WFSSIUSTATUS.fwIndicators [WFS SIU OPENCLOSE]
             WFSSIUCAPS.fwDoors [...]
             WFSSIUCAPS.fwIndicators [WFS_SIU_OPENCLOSE]
             WFSSIUSETPORTS.fwDoors [...]
             WFSSIUSETPORTS.fwIndicators [WFS SIU OPENCLOSE]
             WFSSIUSETDOOR.wDoor
             WFSSIUSETINDICATOR.fwCommand
             WFSSIUPORTEVENT.wPortStatus
             WFSSIUPORTERROR.wPortStatus */
#define WFS_SIU_CLOSED
#define WFS_SIU_OPEN
#define WFS_SIU_LOCKED
#define WFS_SIU_BOLTED
#define WFS_SIU_SERVICE
#define WFS_SIU_KEYBOARD
#define WFS_SIU_TATAB
                                                             (0x0001)
                                                             (0x0002)
                                                             (0x0004)
                                                             (0x0008)
                                                             (0 \times 0.010)
                                                             (0x0020)
#define
             WFS_SIU_AJAR
WFS_SIU_JAMMED
                                                             (0x0040)
#define
                                                             (0 \times 0.080)
#define
             WFS SIU TAMPERED
/* Values of WFSSIUSTATUS.fwIndicators [WFS SIU AUDIO]
             WFSSIUSETPORTS.fwIndicators [WFS SIU AUDIO]
             WFSSIUSETINDICATOR.fwCommand
             WFSSIUPORTEVENT.wPortStatus
             WFSSIUPORTERROR.wPortStatus */
               WFS SIU KEYPRESS
           WFS SIU EXCLAMATION
#define
                                                             (0x0004)
#define
             WFS SIU WARNING
                                                             (0x0008)
             WFS_SIU_ERROR
WFS_SIU_CRITICAL
#define
                                                             (0x0010)
#define
                                                             (0 \times 0.020)
/* Values of WFSSIUSTATUS.fwSensors [WFS_SIU_CONSUMER_DISPLAY]
             WFSSIUPORTEVENT.wPortStatus
             WFSSIUPORTERROR.wPortStatus */
#define
               WFS SIU DISPLAY ERROR
                                                             (0x0004)
/* Flags for WFSSIUSTATUS.fwIndicators [WFS SIU TRANSINDICATOR]
             {\tt WFSSIUSETPORTS.fwIndicators} \ \ [{\tt WFS\_\overline{S}IU\_\overline{T}RANSINDICATOR}]
             WFSSIUSETINDICATOR.fwCommand
             WFSSIUPORTEVENT.wPortStatus[WFS_SIU TRANSINDICATOR]
             WFSSIUPORTERROR.wPortStatus[WFS SIU TRANSINDICATOR] */
#define
             WFS_SIU LAMP1
                                                             (0 \times 0.001)
#define WFS_SIU_LAMP2
#define WFS_SIU_LAMP3
#define WFS_SIU_LAMP4
#define WFS_SIU_LAMP5
                                                             (0x0002)
                                                             (0x0004)
                                                             (0x0008)
                                                             (0x0010)
#define WFS_SIU_LAMP6
#define WFS_SIU_LAMP6
#define WFS_SIU_LAMP7
#define WFS_SIU_LAMP8
#define WFS_SIU_LAMP9
#define WFS_SIU_LAMP10
#define WFS_SIU_LAMP11
#define WFS_SIU_LAMP12
#define WFS_SIU_LAMP13
                                                             (0x0020)
                                                             (0x0040)
                                                             (0 \times 0.080)
                                                             (0x0200)
                                                             (0x0400)
                                                             (0x0800)
                                                             (0x1000)
```

```
#define
            WFS SIU LAMP14
                                                    (0x2000)
            WFS_SIU_LAMP15
WFS_SIU_LAMP16
#define
                                                    (0x4000)
#define
                                                    (0x8000)
/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS SIU REMOTE STATUS MONITOR]
          WFSSIUSETPORTS.fwAuxiliaries [WFS SIU REMOTE STATUS MONITOR]
          WFSSIUSETAUXILIARY.fwCommand
          WFSSIUPORTEVENT.wPortStatus
          WFSSIUPORTERROR.wPortStatus */
                                                    (0x0001)
#define
            WFS SIU GREEN LED ON
#define
            WFS SIU GREEN LED OFF
                                                    (0x0002)
          WFS SIU AMBER_LED_ON
#define
                                                    (0 \times 0.004)
                                                    (0x0008)
#define
          WFS SIU AMBER LED OFF
#define
            WFS_SIU_RED_LED_ON
                                                    (0x0010)
        WFS_SIU_RED_LED_OFF
#define
                                                    (0x0020)
/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS SIU ENHANCEDAUDIOCONTROL]
          WFSSIUSETPORTS.fwAuxiliaries [WFS SIU_ENHANCEDAUDIOCONTROL]
          WFSSIUSTATUS.fwAuxiliaries [WFS SĪU ENHANCEDMICROPHONECONTROL]
          WFSSIUSETPORTS.fwAuxiliaries [WFS SIU ENHANCEDMICROPHONECONTROL]
          WFSSIUSETAUXILIARY.fwCommand
          WFSSIUPORTEVENT.wPortStatus
          WFSSIUPORTERROR.wPortStatus */
#define
            WFS SIU PUBLICAUDIO MANUAL
                                                    (0x0001)
          WFS SIU PUBLICAUDIO AUTO
#define
                                                   (0x0002)
          WFS SIU PUBLICAUDIO SEMI AUTO
#define
                                                    (0x0004)
            WFS_SIU_PRIVATEAUDIO_MANUAL
WFS_SIU_PRIVATEAUDIO_AUTO
#define
                                                   (0 \times 0008)
#define
                                                   (0x0010)
#define WFS SIU PRIVATEAUDIO SEMI AUTO
                                                   (0x0020)
/* Values of WFSSIUSTATUS.fwSensors [...]
          WFSSIUSTATUS.fwIndicators [...]
          WFSSIUSTATUS.fwAuxiliaries [...]
          WFSSIUSTATUS.fwGuidLights [...]
          WFSSIUCAPS.fwSensors [...]
          WFSSIUCAPS.fwIndicators [...]
          WFSSIUCAPS.fwGuidLights [...]
          WFSSIUSETPORTS.fwIndicators [...]
          WFSSIUSETPORTS.fwAuxiliaries [...]
          WFSSIUSETPORTS.fwGuidLights [...]
          WFSSIUSETINDICATOR.fwCommand [...]
          WFSSIUSETAUXILIARY.fwCommand [...]
          WFSSIUSETGUIDLIGHT.fwCommand [...]
          WFSSIUPORTEVENT.wPortStatus
          WFSSIUPORTERROR.wPortStatus */
            WFS_SIU_OFF
#define
                                                    (0 \times 0.001)
#define
            WFS SIU ON
                                                    (0x0002)
          WFS SIU SLOW FLASH
#define
                                                    (0 \times 0.004)
          WFS_SIU_MEDIUM FLASH
#define
                                                    (0x0008)
         WFS_SIU_QUICK_FLASH
WFS_SIU_CONTINUOUS
#define
                                                    (0x0010)
#define
                                                    (0 \times 0.080)
            WFS SIU GUIDANCE RED
#define
                                                    (0 \times 00000100)
#define
            WFS SIU GUIDANCE GREEN
                                                    (0x00000200)
                     GUIDANCE
                                                    (0x00000400)
#define
                 SIU
#define
            WFS SIU GUIDANCE BLUE
                                                    (0x00000800)
#define
            WFS_SIU_GUIDANCE_CYAN
                                                    (0 \times 00001000)
            WFS SIU GUIDANCE MAGENTA
WFS SIU GUIDANCE WHITE
#define
                                                    (0x00002000)
#define
                                                    (0x00004000)
#define
            WFS SIU GUIDANCE ENTRY
                                                    (0x00100000)
#define
            WFS SIU GUIDANCE EXIT
                                                    (0x00200000)
```

```
WFSSIUPORTERROR.wPortStatus[WFS SIU GENERALOUTPUTPORT] */
                                                       (0x0001)
#define
             WFS SIU GPP1
#define
             WFS SIU GPP2
                                                       (0x0002)
#define
             WFS_SIU_GPP3
                                                       (0~0004)
#define
             WFS SIU GPP4
                                                       (0x0008)
             WFS SIU GPP5
#define
                                                       (0x0010)
#define
           WFS SIU GPP6
                                                       (0x0020)
#define WFS_SIU_GPP7
#define WFS_SIU_GPP8
#define WFS_SIU_GPP9
#define WFS_SIU_GPP10
#define WFS_SIU_GPP11
#define WFS_SIU_GPP12
                                                       (0x0040)
                                                       (0 \times 0.080)
                                                       (0x0100)
                                                       (0x0200)
                                                       (0x0400)
                                                       (0 \times 0 \times 0 \times 0)
#define
           WFS SIU GPP13
                                                       (0x1000)
             WFS_SIU_GPP14
WFS_SIU_GPP15
#define
                                                       (0x2000)
#define
                                                       (0x4000)
#define
            WFS SIU GPP16
                                                       (0x8000)
/* Values of WFSSIUSTATUS.fwSensors [WFS SIU PROXIMITY]
           WFSSIUSTATUS.fwSensors [WFS SIU ENHANCEDAUDIO]
           WFSSIUPORTEVENT.wPortStatus
           WFSSIUPORTERROR.wPortStatus */
#define
             WFS_SIU_PRESENT
                                                       (0x0001)
             WFS SIU NOT PRESENT
#define
                                                       (0x0002)
/* Values of WFSSIUSTATUS.fwSensors [WFS SIU HANDSETSENSOR] */
#define
            WFS SIU OFF THE HOOK
                                                       (0x0001)
            WFS SIU ON THE HOOK
#define
                                                       (0x0002)
/* Values of WFSSIUCAPS.fwSensors [WFS SIU ENHANCEDAUDIO]
           WFSSIUCAPS.fwSensors [WFS SIU HANDSETSENSOR] */
#define
             WFS SIU MANUAL
                                                       (0 \times 0001)
             WFS_SIU_AUTO
WFS_SIU_SEMI_AUTO
#define
                                                       (0x0002)
#define
                                                       (0X0004)
/* Values of WFSSIUCAPS.fwSensors [WFS SIU HANDSETSENSOR] */
             WFS_SIU MICROPHONE
#define
                                                       (0x0010)
/* Values of WFSSIUCAPS.fwSensors [WFS SIU ENHANCEDAUDIO] */
             WFS SIU BIDIRECTIONAL
#define
                                                       (0 \times 0.020)
/* Values of WFSSIUSTATUS.fwSensors [WFS SIU AMBLIGHT]
           WFSSIUCAPS.fwSensors [WFS SIU AMBLIGHT]
           WFSSIUPORTEVENT.wPortStatus
           WFSSIUPORTERROR.wPortStatus */
#define
             WFS_SIU_VERY_DARK
                                                       (0x0001)
             WFS SIU DARK
#define
                                                       (0x0002)
             WFS SIU MEDIUM LIGHT
#define
                                                       (0x0004)
#define
             WFS SIU LIGHT
                                                       (0x0008)
             WFS SIU VERY LIGHT
#define
/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS SIU UPS]
               WFSSIUCAPS.fwAuxiliaries [WFS SIU UPS]
               WFSSIUPORTEVENT.wPortStatus
               WFSSIUPORTERROR.wPortStatus */
#define WFS SIU LOW
                                                       (0x0002)
                                                       (0x0004)
#define WFS SIU ENGAGED
#define WFS_SIU_POWERING
#define WFS_SIU_RECOVERED
                                                       (0x0008)
                                                       (0x0010)
```

```
/* Values of WFSSIUCAPS.fwType */
#define WFS_SIU_SENSORS
#define WFS_SIU_DOORS
                                                        (0 \times 0001)
                                                        (0x0002)
#define WFS_SIU_INDICATORS
#define WFS_SIU_AUXILIARIES
#define WFS_SIU_GUIDLIGHTS
                                                        (0x0004)
                                                        (0x0008)
                                                        (0 \times 0.010)
/* Values of WFSSIUCAPS.fwAuxiliaries [WFS SIU ENHANCEDAUDIOCONTROL]
           WFSSIUCAPS.fwAuxiliaries [WFS_SIU_ENHANCEDMICROPHONECONTROL] */
           WFS_SIU_HEADSET_DETECTION (0x0001)
#define
             WFS SIU MODE CONTROLLABLE
                                                      (0x0002)
#define
/* Values of WFSSIUENABLE.fwSensors [...]
           WFSSIUENABLE.fwDoors [...]
            WFSSIUENABLE.fwIndicators [...]
           WFSSIUENABLE.fwAuxiliaries [...]
           WFSSIUENABLE.fwGuidLights [...]
           WFSSIUSETPORTS.fwDoors [...]
           WFSSIUSETPORTS.fwIndicators [...]
           WFSSIUSETPORTS.fwAuxiliaries [...]
           WFSSIUSETPORTS.fwGuidLights [...] */
            WFS SIU NO CHANGE
#define
                                                        (0 \times 0 0 0 0)
#define WFS_SIU_ENABLE_EVENT
#define WFS_SIU_DISABLE_EVENT
                                                        (0x0001)
                                                       (0x0002)
/* Values of WFSSIUSETPORTS.fwDoors [...]
           WFSSIUSETDOOR.fwCommand [...] */
#define
            WFS SIU BOLT
                                                        (0x0001)
#define
            WFS SIU UNBOLT
                                                        (0x0002)
/* Values of WFSSIUSETPORTS.fwAuxiliaries [WFS SIU UPS]
       WFSSIUSETAUXILIARY.wAuxiliary [WFS SIU UPS] */
#define
            WFS SIU ENGAGE
                                                        (0x0001)
#define
            WFS SIU DISENGAGE
                                                       (0x0002)
/* Values of WFSSIUCAPS.fwAutoStartupMode
           WFSSIUSETSTARTUPTIME.wMode
           WFSSIUGETSTARTUPTIME.wMode */
                                                    (0x0001)
(0x0002)
            WFS_SIU_AUTOSTARTUP_CLEAR
#define
#deiine
#define WFS_SIU_AUTOSTARTUP_SPECIFIC
#define WFS_SIU_AUTOSTARTUP_DAILY
#define WFS_SIU_AUTOSTARTUP_WEEKLY
                                                       (0x0004)
                                                       (0x0008)
/* Values of WFSSIUSTATUS.wAntiFraudModule */
#define WFS_SIU_AFMNOTSUPP
#define WFS_SIU_AFMOK
#define WFS_SIU_AFMINOP
#define WFS_SIU_AFMDEVICEDETECTED
                                                        (0)
                                                       (1)
                                                       (2)
                                                       (3)
#define
            WFS SIU AFMUNKNOWN
                                                        (4)
/* XFS SIU Errors */
#define WFS_ERR_SIU_INVALID_PORT
#define WFS_ERR_SIU_SYNTAX
#define WFS_ERR_SIU_PORT_ERROR
#define WFS_ERR_SIU_POWERSAVETOOSHORT
#define WFS_ERR_SIU_COMMANDUNSUPP
#define WFS_ERR_SIU_SYNCHRONIZEUNSUPP
                                                   (-(SIU_SERVICE OFFSET + 1))
                                                      (-(SIU_SERVICE_OFFSET + 2))
                                                      (-(SIU_SERVICE_OFFSET + 3))
                                                      (-(SIU_SERVICE_OFFSET + 4))
(-(SIU_SERVICE_OFFSET + 5))
                                                      (-(SIU_SERVICE_OFFSET + 6))
/*========*/
/* SIU Info Command Structures and variables */
typedef struct _wfs_siu_status
```

```
WORD
                   fwDevice;
   WORD
                   fwSensors [WFS SIU SENSORS SIZE];
                   fwDoors [WFS SIU DOORS SIZE];
   WORD
                  fwIndicators [WFS_SIU_INDICATORS_SIZE];
                   fwAuxiliaries [WFS SIU AUXILIARIES SIZE];
   WORD
                  fwGuidLights [WFS SIU GUIDLIGHTS SIZE];
   WORD
   LPSTR
                  lpszExtra;
   USHORT
                   usPowerSaveRecoveryTime;
   WORD
                   wAntiFraudModule;
                   fwGuidLightsEx [WFS SIU GUIDLIGHTS SIZE EX];
} WFSSIUSTATUS, *LPWFSSIUSTATUS;
typedef struct wfs siu trm info
    LPWSTR
                   lpszModelID;
                   lpszSerialNumber;
   LPWSTR
} WFSSIUTRMINFO, *LPWFSSIUTRMINFO;
typedef struct _wfs_siu_caps
   WORD
                   wClass:
   WORD
                   fwTvpe;
                   fwSensors [WFS SIU SENSORS SIZE];
   WORD
                  fwDoors [WFS STU DOORS SIZE];
                  fwIndicators [WFS_SIU_INDICATORS_SIZE];
   WORD
   WORD
                   fwAuxiliaries [WFS SIU AUXILIARIES SIZE];
                  fwGuidLights [WFS_SIU_GUIDLIGHTS SIZE];
   WORD
   LPSTR
                   lpszExtra;
   BOOT
                   bPowerSaveControl;
                   fwAutoStartupMode;
   WORD
                  bAntiFraudModule;
   BOOL
   LPDWORD
                  lpdwSynchronizableCommands;
   LPWFSSIUTRMINFO lpTerminalInformation;
DWORD fwGuidLightsEx [WFS_SIU_GUIDLIGHTS_SIZE_EX];
} WFSSIUCAPS, *LPWFSSIUCAPS;
typedef struct wfs siu get startup time
   WORD
                   wMode;
                  lpStartTime;
   LPSYSTEMTIME
} WFSSIUGETSTARTUPTIME, *LPWFSSIUGETSTARTUPTIME;
/* SIU Execute Command Structures */
/*=============*/
typedef struct wfs siu enable
                   fwSensors [WFS SIU SENSORS SIZE];
                   fwDoors [WFS_SIU_DOORS SIZE];
   WORD
   WORD
                   fwIndicators [WFS SIU INDICATORS SIZE];
                   fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
   WORD
   WORD
                   lpszExtra;
} WFSSIUENABLE, *LPWFSSIUENABLE;
typedef struct wfs siu set ports
   WORD
                   fwDoors [WFS SIU DOORS SIZE];
   WORD
                   fwIndicators [WFS SIU INDICATORS SIZE];
                   fwAuxiliaries [WFS_SIU_AUXILIARIES SIZE];
   WORD
   WORD
                   fwGuidLights [WFS SIU GUIDLIGHTS SIZE];
   LPSTR
                   lpszExtra;
} WFSSIUSETPORTS, *LPWFSSIUSETPORTS;
typedef struct wfs siu set door
   WORD
   WORD
                   fwCommand;
} WFSSIUSETDOOR, *LPWFSSIUSETDOOR;
```

```
typedef struct wfs siu set indicator
                  wIndicator;
   WORD
                  fwCommand;
} WFSSIUSETINDICATOR, *LPWFSSIUSETINDICATOR;
typedef struct _wfs_siu_set_auxiliary
   WORD
                  wAuxiliary;
   WORD
                  fwCommand;
} WFSSIUSETAUXILIARY, *LPWFSSIUSETAUXILIARY;
typedef struct _wfs_siu_set_guidlight
   WORD
                  wGuidLight;
   WORD
                  fwCommand;
} WFSSIUSETGUIDLIGHT, *LPWFSSIUSETGUIDLIGHT;
typedef struct wfs siu set guidlight ex
   WORD
                   wGuidLight;
   DWORD
                   fwCommand;
 WFSSIUSETGUIDLIGHTEX, *LPWFSSIUSETGUIDLIGHTEX;
typedef struct wfs siu power save control
   USHORT
                   usMaxPowerSaveRecoveryTime;
} WFSSIUPOWERSAVECONTROL, *LPWFSSIUPOWERSAVECONTROL;
typedef struct wfs_siu_set_startup_time
                   wMode;
                   lpStartTime;
   LPSYSTEMTIME
} WFSSIUSETSTARTUPTIME, *LPWFSSIUSETSTARTUPTIME;
/*----*/
/* SIU Message Structures */
typedef struct _wfs_siu_port_event
   WORD
                  wPortType;
   WORD
                  wPortIndex;
   WORD
                  wPortStatus;
   LPSTR
                  lpszExtra;
                   dwPortStatus:
   DWORD
} WFSSIUPORTEVENT, *LPWFSSIUPORTEVENT;
typedef struct wfs siu port error
   WORD
                   wPortType;
                  wPortIndex;
   WORD
   HRESULT
                  PortError;
   WORD
                  wPortStatus;
                  lpszExtra;
   LPSTR
                   dwPortStatus;
} WFSSIUPORTERROR, *LPWFSSIUPORTERROR;
typedef struct _wfs_siu_power_save_change
                   usPowerSaveRecoveryTime;
} WFSSIUPOWERSAVECHANGE, *LPWFSSIUPOWERSAVECHANGE;
typedef struct _wfs_siu_synchronize_command
   DWORD
                  dwCommand;
                  lpCmdData;
   LPVOID
```

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} WFSSIUSYNCHRONIZECOMMAND, *LPWFSSIUSYNCHRONIZECOMMAND;