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Extensions for Financial Services (XFS) interface specification -Release 3.0 - Part 10: Sensors and Indicators Unit Device Class Interface

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Foreword

This CWA is revision 3.0 of the XFS interface specification.

The move from an XFS 2.0 specification (CWA 13449) to a 3.0 specification has been prompted by a series of factors.

Initially, there has been a technical imperative to extend the scope of the existing specification of the XFS Manager to include new devices, such as the Card Embossing Unit.

Similarly, there has also been pressure, through implementation experience and the advance of the Microsoft technology, to extend the functionality and capabilities of the existing devices covered by the specification.

Finally, it is also clear that our customers and the market are asking for an update to a specification, which is now over 2 years old. Increasing market acceptance and the need to meet this demand is driving the Workshop towards this release.

The clear direction of the CEN/ISSS XFS Workshop, therefore, is the delivery of a new Release 3.0 specification based on a C API. It will be delivered with the promise of the protection of technical investment for existing applications and the design to safeguard future developments.

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

This CWA was formally approved by the XFS Workshop meeting on 2000-10-18. The specification is continuously reviewed and commented in the CEN/ISSS Workshop on XFS. It is therefore expected that an update of the specification will be published in due time as a CWA, superseding this revision 3.0.

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 Device Class Interface - Programmer's Reference

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

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

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

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

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

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

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

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

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

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

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

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

Part 16: Application Programming Interface (API) - Service Provider Interface (SPI) - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 17: Printer Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

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Part 18: Identification Card Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 19: Cash Dispenser Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 20: PIN Keypad Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 21: Depository Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 22: Text Terminal Unit Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 23: Sensors and Indicators Unit Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 24: Camera Device Class Interface - Migration from Version 2.0 (see CWA 13449) to Version 3.0 (this CWA) - Programmer's Reference

Part 25: Identification Card Device Class Interface - PC/SC Integration Guidelines

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

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

Revision History:

Revision mistory.		
1.0	May 24, 1993	Initial release of API and SPI specification
1.11	February 3, 1995	Separation of specification into separate documents for API/SPI and service class definitions
2.00	November 11, 1996	Update release encompassing the self-service environment
3.00	October 18, 2000	Addition of the reset command.
		Addition of the auxiliaries
		WFS_SIU_REMOTE_STATUS_MONITOR and
		WFS_SIU_AUDIBLE_ALARM
		• Addition of WFS_SIU_SCANNER,
		WFS_SIU_DOCUMENTPRINTER and
		WFS_SIU_COINACCEPTOR guidance lights.
		For a detailed description see CWA 14050-23
		SIU Migration from Version 2.00 to Version 3.00,
		Revision 1.00, October 18, 2000.

1. Introduction

1.1 Background to Release 3.0

The CEN XFS Workshop is a continuation of the Banking Solution Vendors Council workshop and maintains a technical commitment to the Win 32 API. However, the XFS Workshop has extended the franchise of multi vendor software by encouraging the participation of both banks and vendors to take part in the deliberations of the creation of an industry standard. This move towards opening the participation beyond the BSVC's original membership has been very succesful with a current membership level of more than 20 companies.

The fundamental aims of the XFS Workshop are to promote a clear and unambiguous specification for both service providers and application developers. This has been achieved to date by sub groups working electronically and quarterly meetings.

The move from an XFS 2.0 specification to a 3.0 specification has been prompted by a series of factors. Initially, there has been a technical imperative to extend the scope of the existing specification of the XFS Manager to include new devices, such as the Card Embossing Unit.

Similarly, there has also been pressure, through implementation experience and the advance of the Microsoft technology, to extend the functionality and capabilities of the existing devices covered by the specification.

Finally, it is also clear that our customers and the market are asking for an update to a specification, which is now over 2 years old. Increasing market acceptance and the need to meet this demand is driving the Workshop towards this release.

The clear direction of the XFS Workshop, therefore, is the delivery of a new Release 3.0 specification based on a C API. It will be delivered with the promise of the protection of technical investment for existing applications and the design to safeguard future developments.

1.2 WOSA/XFS Service-Specific Programming

The service classes are defined by their service-specific commands and the associated data structures, error codes, messages, etc. These commands are used to request functions that are specific to one or more classes of service providers, but not all of them, and therefore are not included in the common API for basic or administration functions.

When a service-specific command is common among two or more classes of service providers, the syntax of the command is as similar as possible across all services, since a major objective of the WOSA Extensions for Financial Services is to standardize command codes and structures for the broadest variety of services. For example, using the **WFSExecute** function, the commands to read data from various services are as similar as possible to each other in their syntax and data structures.

In general, the specific command set for a service class is defined as the union of the specific capabilities likely to be provided by the developers of the services of that class; thus any particular device will normally support only a subset of the defined command set.

There are three cases in which a service provider may receive a service-specific command that it does not support:

- The requested capability is defined for the class of service providers by the WOSA/XFS specification, the particular vendor implementation of that service does not support it, and the unsupported capability is *not* considered to be fundamental to the service. In this case, the service provider returns a successful completion, but does no operation. An example would be a request from an application to turn on a control indicator on a passbook printer; the service provider recognizes the command, but since the passbook printer it is managing does not include that indicator, the service provider does no operation and returns a successful completion to the application.
- The requested capability is defined for the class of service providers by the WOSA/XFS specification, the particular vendor implementation of that service does not support it, and the unsupported capability *is* considered to be fundamental to the service. In this case, a WFS_UNSUPP_COMMAND error is returned to the calling application. An example would be a request from an application to a cash dispenser to dispense coins; the service provider recognizes the command but, since the cash dispenser it is managing dispenses only notes, returns this error.
- The requested capability is *not* defined for the class of service providers by the WOSA/XFS specification. In this case, a WFS_ERR_INVALID_COMMAND error is returned to the calling application.

This design allows implementation of applications that can be used with a range of services that provide differing subsets of the functionalities that are defined for their service class. Applications may use the **WFSGetInfo** and **WFSAsyncGetInfo** commands to inquire about the capabilities of the service they are about to use, and modify their behavior accordingly, or they may use functions and then deal with WFS_ERR_UNSUPP_COMMAND error returns to make decisions as to how to use the service.

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, WFSExecute** and **WFSAsyncExecute** functions.

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

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

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.

3. References

1. XFS Application Programming Interface (API)/Service Provider Interface (SPI), Programmer's Reference Revision 3.00, October 18, 2000

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 ł WORD fwDevice; WORD fwSensors [WFS_SIU_SENSORS_SIZE]; WORD fwDoors [WFS_SIU_DOORS_SIZE]; fwIndicators [WFS_SIU_INDICATORS_SIZE]; WORD fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE]; WORD WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; LPSTR lpszExtra; } 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 or pulling out the
	device).
WFS_SIU_DEVPOWEROFF	The device is powered off or physically not
	connected.
WFS_SIU_DEVNODEVICE	There is no device intended to be there; e.g. this type
	of self service machine does not contain such a device
	or it is internally not configured.
WFS_SIU_DEVHWERROR	The device is inoperable due to a hardware error.
WFS_SIU_DEVUSERERROR	The device is present but a person is preventing
	proper operation.
WFS_SIU_DEVBUSY	The device is busy and unable to process an execute
	command at this time.

fwSensors [...]

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

fwSensors [WFS_SIU_OPERATORSWITCH]

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

value	Wearing
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 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.

fwSensors [WFS_SIU_AMBLIGHT]

Specifies the state of the Ambient Light Sensor. This sensor indicates the level of ambient light around the terminal. 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 .

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 the state of the Cabinet Doors. 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	The Cabinet Doors are closed .
WFS_SIU_OPEN	At least one of the Cabinet Doors is open.
WFS_SIU_LOCKED	The Cabinet Doors are closed and locked.
WFS_SIU_BOLTED	The Cabinet Doors are closed, locked and bolted .

fwDoors [WFS_SIU_SAFE]

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

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

fwDoors [WFS_SIU_VANDALSHIELD]

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

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

fwIndicators [...]

Specifies the state of the Status Indicators. A number of Status 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:

Value	Meaning	Туре
WFS_SIU_NOT_AVAILABLE	The status is not available.	А
WFS_SIU_OFF	The Audio Indicator is turned off.	А
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key click signal.	В
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an exclamation	В
	signal.	
WFS_SIU_WARNING	The Audio Indicator sounds a warning signal.	В
WFS_SIU_ERROR	The Audio Indicator sounds an error signal.	В
WFS_SIU_CRITICAL	The Audio Indicator sounds a critical signal.	В
WFS_SIU_CONTINUOUS	The Audio Indicator sound is turned on	С
	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 Heating is turned off .	
WFS_SIU_ON	The Heating is turned on .	

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.

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 Uninterruptable Power Supply device as

WFS_SIU_NOT_AVAILABLE or as a combination of the following flags of type B:

Value	Meaning	Туре
WFS_SIU_NOT_AVAILABLE	There is no UPS available.	А
WFS_SIU_AVAILABLE	The UPS is available.	В
WFS_SIU_LOW	The charge level of the UPS is low.	В
WFS_SIU_ENGAGED	The UPS is engaged.	В
WFS_SIU_POWERING	The UPS is powering the system. The main power supply is off.	В
WFS_SIU_RECOVERED	The UPS was engaged when the main power went off.	В

fwAuxiliaries[*WFS_SIU_REMOTE_STATUS_MONITOR*]

Specifies the state of the Remote Status Monitor device as WFS_SIU_NOT_AVAILABLE or a combination of one of each flag of type B, C and D: Value Meaning Type

Value	Meaning	Type
WFS_SIU_NOT_AVAILABLE	The status of the device is not available	А
WFS_SIU_GREEN_LED_ON	The green LED is on.	В
WFS_SIU_GREEN_LED_OFF	The green LED is off.	В
WFS_SIU_AMBER_LED_ON	The amber LED is on.	С
WFS_SIU_AMBER_LED_OFF	The amber LED is off.	С
WFS_SIU_RED_LED_ON	The red LED is on.	D
WFS_SIU_RED_LED_OFF	The red LED is off.	D

fwAuxiliaries[WFS_SIU_AUDIBLE_ALARM]

Species the state of the Audible Alarm device as one of the following flags: Value Meaning

Value	Weaming
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.

fwGuidLights [...]

Specifies the state of the Guidance Light Indicators. A number of guidance light types are defined below. Vendor specific guidance lights are defined starting from the end of the array. The maximum guidance light index is WFS_SIU_GUIDLIGHTS_MAX. All member elements in this array are specified as one of the following flags:

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

fwGuidLights [WFS_SIU_CARDUNIT]

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

fwGuidLights [WFS_SIU_PINPAD]

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

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

fwGuidLights [WFS_SIU_COINDISPENSER] Specifies the state of the Guidance Light Indicator on the coin dispenser unit.

fwGuidLights [WFS_SIU_RECEIPTPRINTER] Specifies the state of the Guidance Light Indicator on the receipt printer unit.

fwGuidLights [WFS_SIU_PASSBOOKPRINTER] Specifies the state of the Guidance Light Indicator on the passbook printer unit.

fwGuidLights [WFS_SIU_ENVDEPOSITORY] Specifies the state of the Guidance Light Indicator on the envelope depository unit.

fwGuidLights [*WFS_SIU_CHEQUEUNIT*] Specifies the state of the Guidance Light Indicator on the cheque processing unit.

fwGuidLights [*WFS_SIU_BILLACCEPTOR*] Specifies the state of the Guidance Light Indicator on the bill acceptor unit.

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

Specifies 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 will be null-terminated, with the final string terminating with two null characters.

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.

WFS_INF_SIU_CAPABILITIES 4.2

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

Input Param

Output Param LPWFSSIUCAPS lpCaps;

None.

typedef struct _wfs_siu_caps WORD wClass; WORD fwType; WORD fwSensors [WFS_SIU_SENSORS_SIZE]; fwDoors [WFS_SIU_DOORS_SIZE]; WORD fwIndicators [WFS_SIU_INDICATORS_SIZE]; WORD fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE]; WORD WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; LPSTR lpszExtra; } WFSSIUCAPS, * LPWFSSIUCAPS;

wClass

Specifies the logical service class, value is: 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 Status 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.	Α
WFS_SIU_RUN	The switch can be set in Run mode.	В
WFS_SIU_MAINTENANCE	The switch can be set in Maintenance mode.	В
WFS_SIU_SUPERVISOR	The switch can be set in Supervisors mode.	В

fwSensors [WFS_SIU_TAMPER]

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

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

fwSensors [WFS_SIU_INTTAMPER]

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

WFS_SIU_NOT_AVAILABLEThere is no internal Tamper Sensor available.WFS_SIU_AVAILABLEThe internal Tamper Sensor is available.	Value	Meaning
		1

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.
<i>fwSensors [WFS_SIU_PROXIMITY]</i> Specifies whether the Proximity Sensor is available. Specified as one of the following flags:		
	Valua	Meaning

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.

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 the Cabinet 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 Cabinet Door available.	А
WFS_SIU_CLOSED	The Cabinet Doors can be closed.	В
WFS_SIU_OPEN	The Cabinet Doors can be open.	В
WFS_SIU_LOCKED	The Cabinet Doors can be locked.	В
WFS_SIU_BOLTED	The Cabinet Doors can be bolted.	В

fwDoors [WFS_SIU_SAFE]

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

Value	Meaning	Туре
WFS_SIU_NOT_AVAILABLE	There is no Safe Door available.	А
WFS_SIU_CLOSED	The Safe Doors can be closed.	В
WFS_SIU_OPEN	The Safe Doors can be open.	В
WFS_SIU_LOCKED	The Safe Doors can be locked.	В
WFS_SIU_BOLTED	The Safe Doors can be bolted.	В

fwDoors [WFS_SIU_VANDALSHIELD]

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

Value	Meaning	Туре
WFS_SIU_NOT_AVAILABLE	There is no Vandal Shield available.	Α
WFS_SIU_CLOSED	The Vandal Shield can be closed.	В
WFS_SIU_OPEN	The Vandal Shield can be open.	В
WFS_SIU_LOCKED	The Vandal Shield can be locked.	В
WFS_SIU_SERVICE	The Vandal Shield can be in service position.	В
WFS_SIU_KEYBOARD	The Vandal Shield can be in position that	В
	permits access to the keyboard.	

fwIndicators [...]

Specifies which Status Indicators are available, and if so, which states they can take. A number of Status 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.

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 OTS device is available, and it 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.	А
WFS_SIU_AVAILABLE	The UPS is available.	В
WFS_SIU_LOW	The UPS can indicate that its charge level is	В
	low.	
WFS_SIU_ENGAGED	The UPS can be engaged and disengaged by	В
	the application.	
WFS_SIU_POWERING	The UPS can indicate that it is powering the	В
	system while the main power supply is off.	
WFS_SIU_RECOVERED	The UPS can indicate that it was engaged	В
	when the main power went off.	

Specifies whether the UPS device is available, and if so, which states it can take. Specified

fwAuxiliaries [WFS SIU REMOTE STATUS MONITOR]

Specifies whether the Remote Status Monitor device is available. 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.

fwGuidLights [...]

Specifies which Guidance Lights are available, and if so, which states they can take. A number of guidance light types are defined below. Vendor specific guidance lights are defined starting from the end of the array. The maximum guidance light index is WFS_SIU_GUIDLIGHTS_MAX. The elements of this array are specified as one of the following flags:

Value	Meaning
WFS_SIU_NOT_AVAILABLE	There is no Guidance Light available at this position.
WFS_SIU_AVAILABLE	A Guidance Light is available at this position.

fwGuidLights [WFS_SIU_CARDUNIT]

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

fwGuidLights [WFS_SIU_PINPAD]

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

fwGuidLights [WFS_SIU_NOTESDISPENSER] Specifies whether the Guidance Light Indicator on the note dispenser unit is available.

fwGuidLights [WFS_SIU_COINDISPENSER] Specifies whether the Guidance Light Indicator on the coin dispenser unit is available.

fwGuidLights [WFS_SIU_RECEIPTPRINTER] Specifies whether the Guidance Light Indicator on the receipt printer unit is available.

fwGuidLights [WFS_SIU_PASSBOOKPRINTER] Specifies whether the Guidance Light Indicator on the passbook printer unit is available.

fwGuidLights [WFS_SIU_ENVDEPOSITORY] Specifies whether the Guidance Light Indicator on the envelope depository unit is available.

fwGuidLights [WFS_SIU_CHEQUEUNIT] Specifies whether the Guidance Light Indicator on the cheque processing unit is available.

fwGuidLights [WFS_SIU_BILLACCEPTOR] Specifies whether the Guidance Light Indicator on the bill acceptor unit is available. *fwGuidLights [WFS_SIU_ENVDISPENSER]* Specifies whether the Guidance Light Indicator on the envelope dispenser unit is available.

fwGuidLights [*WFS_SIU_DOCUMENTPRINTER*] Specifies whether the Guidance Light Indicator on the document printer is available.

fwGuidLights [*WFS_SIU_COINACCEPTOR*] Specifies whether the Guidance Light Indicator on the coin acceptor is available.

fwGuidLights [WFS_SIU_SCANNER] Specifies whether the Guidance Light Indicator on the scanner unit is available.

lpszExtra

Specifies 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 will be null-terminated, with the final string terminating with two null characters.

- Error Codes Only the generic error codes defined in [Ref. 1] can be generated by this command.
- **Comments** Applications which require or expect specific information to be present in the *lpszExtra* parameter may not be device or vendor-independent.

5. Execute Commands

5.1 WFS_CMD_SIU_ENABLE_EVENTS

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

Input Param LPWFSSIUENABLE lpEnable;

typedef struct _wfs_siu_enable

{
WORD fwSensors [WFS_SIU_SENSORS_SIZE];
WORD fwDoors [WFS_SIU_DOORS_SIZE];
WORD fwIndicators [WFS_SIU_INDICATORS_SIZE];
WORD fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE];
WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE];
LPSTR lpszExtra;
} WFSSIUENABLE, * LPWFSSIUENABLE;

fwSensors [...]

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

fwSensors [WFS_SIU_OPERATORSWITCH]

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

Meaning
Do not change the current reporting status.
The Operators Switch should report whenever it
changes mode from Run to Maintenance or
Supervisor mode or vice versa.
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 Tamper Sensor should report whenever it detects
WFS SIU DISABLE EVENT	any tampering attempt. The Tamper Sensor should not report any changes of
WIS_SIC_DISABLE_EVENT	its status.

fwSensors [WFS_SIU_SEISMIC]

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

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
WFS_SIU_ENABLE_EVENT	The Seismic Sensor should report whenever it detects
WFS_SIU_DISABLE_EVENT	any seismic activity. 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.

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

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

fwDoors [WFS_SIU_SAFE]

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

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current reporting status.
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.

fwIndicators [...]

Specifies which of the Status Indicators should report changes. A number of Status 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.

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 or not. 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 or not. Specified as one of the following flags:

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

fwAuxiliaries[WFS_SIU_REMOTE_STATUS_MONITOR]

Specifies whether the Remote Status Monitor device should report whenever it is changed or not, 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 or not. 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.

fwGuidLights [...]

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

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

None.

Specifies a list of vendor-specific, or any other extended, information. The information is passed as a series of "key=value" strings so that it is easily extensible by service providers. Each string will be null-terminated, with the final string terminating with two null characters.

Output Param

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

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

Events	In addition to the generic events defined in [Ref. 1], the following events can be generated by this command:	
	Value	Meaning
	WFS_EXEE_SIU_PORT_ERROR	A error occurred while enabling or disabling events
	on one or more ports.	
Comments	No action has been taken if this command returns an error. If a hardware error occurs while executing the command, the command will return OK, but execute event(s) will be generated	

which indicate(s) the port(s) which have failed.

5.2 WFS_CMD_SIU_SET_PORTS

Description	n This command is used to set or clear one or more output ports (indicators) in the Sensors and Indicators Unit.	
Input Param	LPWFSSIUSETPORTS lpSet	Ports;
	WORD fwIndicat WORD fwAuxilia WORD fwGuidLig LPSTR lpszExtra } WFSSIUSETPORTS, * LE	WFS_SIU_DOORS_SIZE]; tors [WFS_SIU_INDICATORS_SIZE]; aries [WFS_SIU_AUXILIARIES_SIZE]; ghts [WFS_SIU_GUIDLIGHTS_SIZE]; a; WFSSIUSETPORTS;
	WFS_SIU_NO_CHANGE WFS_SIU_BOLT WFS_SIU_UNBOLT <i>fwDoors [WFS_SIU_SAFE]</i> Specifies whether the Safe Doo following flags: Value	Do not change the current status of the Cabinet doors. The Cabinet doors are bolted. The Cabinet doors are unbolted.

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.

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 indicator.	

WFS_SIU_NO_CHANGE	Do not change the current status of the indicator.
WFS_SIU_CLOSED	The indicator is changed to show that the terminal is
	closed for a consumer.

WFS_SIU_OPEN

The 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 of the beeper.	А
WFS_SIU_OFF	The Audio Indicator is turned off.	А
WFS_SIU_KEYPRESS	The Audio Indicator sounds a key click signal.	В
WFS_SIU_EXCLAMATION	The Audio Indicator sounds an exclamation	В
	signal.	
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	В
	signal.	
WFS_SIU_CONTINUOUS	The Audio Indicator sound is turned on	С
	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 light.
WFS_SIU_OFF	The Heating is turned off.
WFS_SIU_ON	The Heating is turned on.

fwAuxiliaries [WFS_SIU_VOLUME]

Specifies whether the value of the volume control should be changed or not. 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 light.
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

(dide	hieumig
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 or not. 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 of the	Α
	Remote Status Monitor device	
WFS_SIU_GREEN_LED_ON	Turn on the green LED on the Remote Status	В
	Monitor device	
WFS_SIU_GREEN_LED_OFF	Turn off the green LED on the Remote Status	В
	Monitor device.	
WFS_SIU_AMBER_LED_ON	Turn on the amber LED on the Remote Status	С
	Monitor device.	
WFS_SIU_AMBER_LED_OFF	Turn off the amber LED on the Remote Status	С
	Monitor device.	
WFS_SIU_RED_LED_ON	Turn on the red LED on the Remote Status	D
	Monitor device.	
WFS_SIU_RED_LED_OFF	Turn off the red LED on the Remote Status	D
	Monitor device.	

fwAuxiliaries[WFS_SIU_AUDIBLE_ALARM]

Specifies whether the state of the Audible Alarm device should be changed or not. 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.

fwGuidLights [...]

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

Value	Meaning
WFS_SIU_NO_CHANGE	Do not change the current status of the Light
	Indicator.
WFS_SIU_OFF	The Light Indicator is turned off.
WFS_SIU_SLOW_FLASH	The Light Indicator is set to flash slowly.
WFS_SIU_MEDIUM_FLASH	The light is blinking medium frequency.
WFS_SIU_QUICK_FLASH	The Light Indicator is set to flash quickly.
WFS_SIU_CONTINUOUS	The Light Indicator is turned on continuously (steady).

fwGuidLights [WFS_SIU_CARDUNIT]

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

fwGuidLights [WFS_SIU_PINPAD] Specifies the state of the Guidance Light Indicator on the PIN pad unit.

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

fwGuidLights [WFS_SIU_COINDISPENSER] Specifies the state of the Guidance Light Indicator on the coin dispenser unit.

fwGuidLights [WFS_SIU_RECEIPTPRINTER] Specifies the state of the Guidance Light Indicator on the receipt printer unit.

fwGuidLights [WFS_SIU_PASSBOOKPRINTER] Specifies the state of the Guidance Light Indicator on the passbook printer unit.

fwGuidLights [WFS_SIU_ENVDEPOSITORY] Specifies the state of the Guidance Light Indicator on the envelope depository unit.

fwGuidLights [*WFS_SIU_CHEQUEUNIT*] Specifies the state of the Guidance Light Indicator on the cheque processing unit.

	fwGuidLights [WFS_SIU_BILLACC. Specifies the state of the Guidance L	<i>EPTOR]</i> ight Indicator on the bill acceptor unit.
	fwGuidLights [WFS_SIU_ENVDISP] Specifies the state of the Guidance L	ENSER] ight Indicator on the envelope dispenser unit.
	fwGuidLights [WFS_SIU_DOCUME Specifies the state of the Guidance L	ENTPRINTER] ight Indicator on the document printer.
	<i>fwGuidLights</i> [<i>WFS_SIU_COINACC</i> Specifies the state of the Guidance L	
	<i>fwGuidLights</i> [<i>WFS_SIU_SCANNER</i>] Specifies the state of the Guidance Light Indicator on the scanner unit.	
	passed as a series of "key=value" str	any other extended, information. The information is ings so that it is easily extensible by service providers. with the final string terminating with two 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
	Value WFS_ERR_SIU_INVALID_PORT	Meaning An attempt to set a port to a new value was invalid because the port does not exist or the port is pre- configured as an input port.
		An attempt to set a port to a new value was invalid
Events	WFS_ERR_SIU_INVALID_PORT WFS_ERR_SIU_SYNTAX	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.
Events	WFS_ERR_SIU_INVALID_PORT WFS_ERR_SIU_SYNTAX In addition to the generic events define	An attempt to set a port to a new value was invalid because the port does not exist or the port is pre- configured as an input port. The command was invoked with incorrect input data.
Events	WFS_ERR_SIU_INVALID_PORT WFS_ERR_SIU_SYNTAX In addition to the generic events define this command:	An attempt to set a port to a new value was invalid because the port does not exist or the port is pre- configured as an input port. The command was invoked with incorrect input data. d in [Ref. 1], the following events can be generated by

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	;
	<pre>typedef struct _wfs_siu_set_d {</pre>	oor
	WORD wDoor;	
	WORD fwCommand;	
	} WFSSIUSETDOOR, * LPWFSS	IUSETDOOR;
	wDoor	
	Specifies the index of the Door to se	t as one of the following values:
	Value	Meaning
	WFS_SIU_CABINET	Bolt/unbolt the Cabinet doors.
	WFS_SIU_SAFE	Bolt/unbolt the Safe doors.
	WFS_SIU_VANDALSHIELD	Set position of the Vandal Shield.

fwCommand

	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	S command for a detailed description.
Output Param	None.	
Error Codes	In addition to the generic error codes de generated by this command:	efined in [Ref. 1], the following error codes can be
	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	•	d in [Ref. 1], the following events can be generated by
Events	this command:	
Events	this command: Value	Meaning
Events	this command:	

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:

5.4 WFS_CMD_SIU_SET_INDICATOR

Description	This command is used to set the status	of an Indicator.
Input Param	LPWFSSIUSETINDICATOR lp	SetIndicator;
	typedef struct _wfs_siu_set_i {	ndicator
	WORD wIndicator; WORD fwCommand;	
	WFSSIUSETINDICATOR, * L	PWFSSIUSETINDICATOR;
wIndicator		
	Specifies the index of the Status 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.
fv	fwCommand	
	Specifies the commands for the open	close indicator, fascia light, audio indicator and
	heating device, as one of the following flags:	
	Value	Meaning
	WFS_SIU_CLOSED	The Open/Close indicator is changed to show that the
		terminal is closed for a consumer.
	WFS_SIU_OPEN	The Open/Close indicator is changed to show that the
		terminal is open to be used by a consumer.

	WFS_SIU_KEYPRESS WFS_SIU_EXCLAMATION WFS_SIU_WARNING WFS_SIU_ERROR WFS_SIU_CRITICAL WFS_SIU_CONTINUOUS WFS_SIU_OFF WFS_SIU_ON	The Audio Indicator sounds a key click signal. The Audio Indicator sounds a exclamation signal. The Audio Indicator sounds a warning signal. The Audio Indicator sounds a error signal. The Audio Indicator sounds a critical error signal. The Audio Indicator sound is turned on continuously. The Audio Indicator, Fascia Light or Heating is turned off. The Fascia Light or Heating is turned on. S command for a detailed description.
Orden de Drama		s command for a detailed description.
Output Param	None.	
Error Codes	generated by this command:	efined in [Ref. 1], the following error codes can be
	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 WFS_ERR_SIU_PORT_ERROR	The command was invoked with incorrect input data. A hardware error occurred while executing the command.
Events	In addition to the generic events define this command:	d in [Ref. 1], the following events can be generated by
	Value	Meaning
	WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set the status of the indicator.
Comments	None.	

5.5 WFS_CMD_SIU_SET_AUXILIARY

Description	This command is used to set the status	of an Auxiliary indicator.
Input Param	LPWFSSIUSETAUXILIARY lp:	SetAuxiliary;
	<pre>typedef struct _wfs_siu_set_a { WORD wAuxiliary;</pre>	uxiliary
	WORD wAuxiliary; WORD fwCommand;	
<pre>} WFSSIUSETAUXILIARY, * LPWFSSIUSETAUXILIARY;</pre>	PWFSSIUSETAUXILIARY;	
wAuxiliary		
	Specifies the index of the Auxiliary i	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_MO	ONITOR Set the value of the Remote Status Monitor.
	WFS_SIU_AUDIBLE_ALARM	Set the value of the Audible Alarm.
	fwCommand	
	-	e control or the command to the UPS device. 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.
	See WFS_CMD_SIU_SET_PORTS	S command for a detailed description.
Output Param	None.	
Error Codes	In addition to the generic error codes degenerated by this command:	efined in [Ref. 1], the following error codes can be
	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 define this command:	d in [Ref. 1], the following events can be generated by
	Value	Meaning
	WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set the status of the auxiliary indicator.

Comments

None.

5.6 WFS_CMD_SIU_SET_GUIDLIGHT

Description	This command is used to set the status	of a Guidance Light.
Input Param	LPWFSSIUSETGUIDLIGHT lp	SetGuidLight;
	typedef struct _wfs_siu_set_c	guidlight
	{ WORD wGuidLight;	
	WORD fwCommand;	
	} WFSSIUSETGUIDLIGHT, * L	PWFSSIUSETGUIDLIGHT;
	wGuidLights	
	Specifies the index of the Guidance	Light to set as one of the following values:
	Value	Meaning
	WFS_SIU_CARDUNIT	Set the state of the Guidance Light Indicator on the
		Card Unit (IDC).
	WFS_SIU_PINPAD	Set the state of the Guidance Light Indicator on the
		PIN pad unit.
	WFS_SIU_NOTESDISPENSER	Set the state of the Guidance Light Indicator on the note dispenser unit.
	WFS_SIU_COINDISPENSER	Set the state of the Guidance Light Indicator on the coin dispenser unit.
	WFS_SIU_RECEIPTPRINTER	Set the state of the Guidance Light Indicator on the receipt printer unit.
	WFS_SIU_PASSBOOKPRINTER	Set the state of the Guidance Light Indicator on the passbook printer unit.

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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 Light Indicator is turned off.
WFS_SIU_SLOW_FLASH	The Light Indicator is set to flash slowly.
WFS_SIU_MEDIUM_FLASH	The light is blinking medium frequency.
WFS_SIU_QUICK_FLASH	The Light Indicator is set to flash quickly.
WFS_SIU_CONTINUOUS	The Light Indicator is turned on continuously
	(steady).

See WFS_CMD_SIU_SET_PORTS command for a detailed description.

Output Param	None.	
Error Codes	In addition to the generic error codes defined in [Ref. 1], the following error codes can be generated by this command:	
	Value	Meaning
	WFS_ERR_SIU_INVALID_PORT	An attempt to set a port to a new value was invalid because the port does not exist or the port is pre- configured as an input port.
	WFS_ERR_SIU_SYNTAX	The command was invoked with incorrect input data.
Events	In addition to the generic events defined in [Ref. 1], the following events can be generated by this command:	
	Value	Meaning
	WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set or clear one or more output ports (indicators).
Comments	None.	

5.7 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 Error Codes	None. 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.

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Events	In addition to the generic events define this command:	d in [Ref. 1], the following events can be generated by
	Value	Meaning
	WFS_EXEE_SIU_PORT_ERROR	An error occurred while attempting to set or clear one or more output ports (indicators).
Comments	None.	

6. Events

6.1 WFS_SRVE_SIU_PORT_STATUS

Description This event id is used to specify that a port has changed its state, due to the result of a command or to some external condition. Reporting of this event is controlled by the WFS_CMD_SIU_ENABLE_EVENTS command. Event reporting is disabled as a default situation.

Event Param LPWFSSIUPORTEVENT lpPortEvent;

typedef struct _wfs_siu_port_event
 {
 WORD wPortType;
 WORD wPortIndex;
 WORD wPortStatus;
 LPSTR lpszExtra;
 } WFSSIUPORTEVENT; * LPWFSSIUPORTEVENT;

wPortType

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

Value	Meaning
WFS_SIU_SENSORS	A port in the input Sensors has changed state.
WFS_SIU_DOORS	A port in the Door sensors has changed state.
WFS_SIU_INDICATORS	A port in the Status 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

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_CABINET	The Cabinet Doors have changed their state.
WFS_SIU_SAFE	The Safe Doors have changed their state.
WFS_SIU_VANDALSHIELD	The Vandal Shield has changed its state.
WFS_SIU_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_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_CARDUNIT	The Guidance Light state for the card unit
	has changed.

WFS_SIU_PINPAD	The Guidance Light state for the PIN pad unit has changed.
WFS_SIU_NOTESDISPENSER	The Guidance Light state for the note dispenser unit has changed.
WFS_SIU_COINDISPENSER	The Guidance Light state for the coin dispenser unit has changed.
WFS_SIU_RECEIPTPRINTER	The Guidance Light state for the receipt printer unit has changed.
WFS_SIU_PASSBOOKPRINTER	The Guidance Light state for the passbook printer unit has changed.
WFS_SIU_ENVDEPOSITORY	The Guidance Light state for the envelope depository unit has changed.
WFS_SIU_CHEQUEUNIT	The Guidance Light state for the cheque unit has changed.
WFS_SIU_BILLACCEPTOR	The Guidance Light state for the bill acceptor unit has changed.
WFS_SIU_ENVDISPENSER	The Guidance Light state for the envelope dispenser unit has changed.
WFS_SIU_DOCUMENTPRINTER	The Guidance Light state for the Document Printer unit has changed.
WFS_SIU_COINACCEPTOR	The Guidance Light state for the coin acceptor has changed.
WFS_SIU_SCANNER	Set the state of the Guidance Light state for the scanner has changed.

wPortStatus

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

lpszExtra

Specifies 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 will be null-terminated, with the final string terminating with two null characters.

Comments None.

6.2 WFS_EXEE_SIU_PORT_ERROR

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

Event Param LPWFSSIUPORTERROR pPortError;

typedef struct _wfs_siu_port_error
{
 WORD wPortType;
 WORD wPortIndex;
 HRESULT PortError;
 WORD wPortStatus;
 LPSTR lpszExtra;
 } WFSSIUPORTERROR, * LPWFSSIUPORTERROR;

wPortType

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

Value	Meaning
WFS_SIU_SENSORS	A port in the input Sensors has detected an error.
WFS_SIU_DOORS	A port in the Door sensors has detected an error.
WFS_SIU_INDICATORS	A port in the Status 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.

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wPortIndex	
Specifies the index of the port that has detected Value	an error by one of the following values: 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_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_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
WFS_SIU_HEATING	error. The Heating device state has detected an
WIS_SIU_HEATING	The Heating device state 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_CARDUNIT	The Guidance Light state for the card unit
	has detected an error.
WFS_SIU_PINPAD	The Guidance Light state for the PIN pad
	unit has detected an error.
WFS_SIU_NOTESDISPENSER	The Guidance Light state for the note
	dispenser unit has detected an error.

WFS_SIU_COINDISPENSER WFS_SIU_RECEIPTPRINTER

WFS_SIU_PASSBOOKPRINTER

WFS_SIU_ENVDEPOSITORY

WFS_SIU_CHEQUEUNIT

WFS_SIU_BILLACCEPTOR

WFS_SIU_ENVDISPENSER

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

The Guidance Light state for the cheque

The Guidance Light state for the bill

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

The Guidance Light state for the receipt printer unit has detected an error.

The Guidance Light state for the passbook printer unit has detected an

The Guidance Light state for the envelope depository unit has detected an

unit has detected an error.

error.

error.

WFS_SIU_DOCUMENTPRINTER	The Guidance Light state for the document printer has detected an error.
WFS_SIU_COINACCEPTOR	The Guidance Light state for the coin acceptor has detected an error.
WFS_SIU_SCANNER	The Guidance Light state for the scanner has detected an error.

PortError

Specifies the error of the port indicated in the <i>wPortType</i> and <i>wPortIndex</i> 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	
WIS_ERR_SIU_FORT_ERROR	command.	
	command.	

wPortStatus

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

lpszExtra

None.

Specifies 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 will be null-terminated, with the final string terminating with two null characters.

Comments

7. C - header file

* xfssiu.h WOSA/XFS - definitions for the Sensors and Indicators Unit - services Version 3.00 (10/18/00) #ifndef __INC_XFSSIU__H #define __INC_XFSSIU__H #ifdef __cplu
extern "C" { _cplusplus #endif #include <xfsapi.h> /* be aware of alignment */ #pragma pack (push, 1) /* values of WFSSIUCAPS.wClass */ #define WFS_SERVICE_CLASS_SIU (8) "SIU" #define WFS_SERVICE_CLASS_NAME_SIU #define WFS_SERVICE_CLASS_VERSION_SIU 0x0003 #define SIU_SERVICE_OFFSET (WFS_SERVICE_CLASS_SIU * 100) /* SIU Info Commands */ (SIU_SERVICE_OFFSET + 1) #define WFS_INF_SIU_STATUS #define WFS_INF_SIU_CAPABILITIES (SIU_SERVICE_OFFSET + 2) /* SIU Command Verbs */ WFS_CMD_SIU_ENABLE_EVENTS (SIU_SERVICE_OFFSET + 1) #define #define WFS_CMD_SIU_SET_PORTS (SIU_SERVICE_OFFSET + 2) #define WFS_CMD_SIU_SET_DOOR (SIU_SERVICE_OFFSET + 3) WFS_CMD_SIU_SET_NDICATOR (SIU_SERVICE_OFFSET + 4) #define #define (SIU_SERVICE_OFFSET + 5) WFS_CMD_SIU_SET_AUXILIARY #define #define WFS_CMD_SIU_SET_GUIDLIGHT (SIU_SERVICE_OFFSET + 6) WFS_CMD_SIU_RESET (SIU_SERVICE_OFFSET + 7) /* SIU Messages */ (SIU_SERVICE_OFFSET + 1) #define WFS SRVE SIU PORT STATUS WFS_EXEE_SIU_PORT_ERROR #define (SIU_SERVICE_OFFSET + 2) /* Values of WFSSIUSTATUS.fwDevice */ WFS_SIU_DEVONLINE WFS_STAT_DEVONLINE #define #define WFS_SIU_DEVOFFLINE WFS_STAT_DEVOFFLINE #define WFS_STAT_DEVPOWEROFF WFS_SIU_DEVPOWEROFF #define WFS_SIU_DEVNODEVICE WFS_STAT_DEVNODEVICE #define WFS_SIU_DEVHWERROR WFS_STAT_DEVHWERROR #define WFS_SIU_DEVUSERERROR WFS_STAT_DEVUSERERROR #define WFS_SIU_DEVBUSY WFS_STAT_DEVBUSY /* Size and max index of fwSensors array */

#define	WFS_SIU_SENSORS_SIZE	(32)
#define	WFS_SIU_SENSORS_MAX	(WFS_SIU_SENSORS_SIZE - 1)

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/* Size and	d max index of fwDoors array */	
#define #define	WFS_SIU_DOORS_SIZE WFS_SIU_DOORS_MAX	(16) (WFS_SIU_DOORS_SIZE - 1)
/* Size and	d max index of fwIndicators array */	
#define #define	WFS_SIU_INDICATORS_SIZE WFS_SIU_INDICATORS_MAX	(16) (WFS_SIU_INDICATORS_SIZE - 1)
/* Size max	x index of fwAuxiliaries array */	
#define #define	WFS_SIU_AUXILIARIES_SIZE WFS_SIU_AUXILIARIES_MAX	(16) (WFS_SIU_AUXILIARIES_SIZE - 1)
/* Size and	d max index of fwGuidLights array */	
#define #define	WFS_SIU_GUIDLIGHTS_SIZE WFS_SIU_GUIDLIGHTS_MAX	(16) (WFS_SIU_GUIDLIGHTS_SIZE - 1)
T T	of WFSSIUSTATUS.fwSensors [] WFSSIUCAPS.fwSensors [] WFSSIUENABLE.fwSensors [] WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex */	
<pre>#define #define #define #define #define #define #define #define</pre>	WFS_SIU_OPERATORSWITCH WFS_SIU_TAMPER WFS_SIU_INTTAMPER WFS_SIU_SEISMIC WFS_SIU_HEAT WFS_SIU_PROXIMITY WFS_SIU_AMBLIGHT	<pre>(0) (1) (2) (3) (4) (5) (6)</pre>
/* Indices	of WFSSIUSTATUS.fwDoors [] WFSSIUCAPS.fwDoors [] WFSSIUENABLE.fwDoors [] WFSSIUSETPORT.fwDoors [] WFSSIUSETDOORS.wDoor WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex */	
#define	WFS_SIU_CABINET	(0)
#define #define	WFS_SIU_SAFE WFS_SIU_VANDALSHIELD	(1) (2)
/* Indices	of WFSSIUSTATUS.fwIndicators [] WFSSIUCAPS.fwIndicators [] WFSSIUENABLE.fwIndicators [] WFSSIUSETPORT.wIndicators [] WFSSIUSETINDICATORS.wIndicator WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex */	
#define #define #define #define	WFS_SIU_OPENCLOSE WFS_SIU_FASCIALIGHT WFS_SIU_AUDIO WFS_SIU_HEATING	(0) (1) (2) (3)
/* Indices	of WFSSIUSTATUS.fwAuxiliaries [] WFSSIUCAPS.fwAuxiliaries [] WFSSIUENABLE.fwAuxiliaries [] WFSSIUSETPORT.wAuxiliaries [] WFSSIUSETAUXILIARIES.wAuxiliary WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex */	

#define #define #define #define	WFS_SIU_VOLUME WFS_SIU_UPS WFS_SIU_REMOTE_STATUS_MONIT WFS_SIU_AUDIBLE_ALARM	(0) (1) COR (2) (3)
/* Indice	s of WFSSIUSTATUS.fwGuidLights WFSSIUCAPS.fwGuidLights [WFSSIUENABLE.fwGuidLights [. WFSSIUSETPORT.wGuidLights [. WFSSIUSETGUIDLIGHTS.wGuidLig WFSSIUPORTEVENT.wPortIndex WFSSIUPORTERROR.wPortIndex *]]] ght
<pre>#define #define #define</pre>	WFS_SIU_CARDUNIT WFS_SIU_PINPAD WFS_SIU_NOTESDISPENSER WFS_SIU_COINDISPENSER WFS_SIU_RECEIPTPRINTER WFS_SIU_PASSBOOKPRINTER WFS_SIU_ENVDEPOSITORY WFS_SIU_CHEQUEUNIT WFS_SIU_CHEQUEUNIT WFS_SIU_BILLACCEPTOR WFS_SIU_ENVDISPENSER WFS_SIU_DOCUMENTPRINTER WFS_SIU_COINACCEPTOR WFS_SIU_SCANNER	<pre>(0) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)</pre>
/* Values	of WFSSIUSTATUS.fwSensors [WFSSIUSTATUS.fwDoors [] WFSSIUSTATUS.fwIndicators [WFSSIUSTATUS.fwAuxiliaries [. WFSSIUSTATUS.fwGuidLights [WFSSIUCAPS.fwSensors [] WFSSIUCAPS.fwDoors [] WFSSIUCAPS.fwIndicators [] WFSSIUCAPS.fwAuxiliaries [] WFSSIUCAPS.fwGuidLights []	.] .]
#define #define	WFS_SIU_NOT_AVAILABLE WFS_SIU_AVAILABLE	(0x0000) (0x0001)
/* Values	alues of WFSSIUSTATUS.fwSensors [WFS_SIU_OPERATORSWITCH] WFSSIUCAPS.fwSensors [WFS_SIU_OPERATORSWITCH] WFSSIUPORTEVENT.fwPortStatus WFSSIUPORTERROR.fwPortStatus */	
#define #define #define	WFS_SIU_RUN WFS_SIU_MAINTENANCE WFS_SIU_SUPERVISOR	(0x0001) (0x0002) (0x0004)
/* Values	of WFSSIUSTATUS.fwDoors [] WFSSIUSTATUS.fwIndicators [WF WFSSIUCAPS.fwDoors [] WFSSIUCAPS.fwIndicators [WFS_ WFSSIUSETPORT.fwIndicators [W WFSSIUSETPORT.fwIndicators [W WFSSIUSETDOOR.wDoor WFSSIUSETINDICATOR.wCommand WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus *	'S_SIU_OPENCLOSE] _SIU_OPENCLOSE] IFS_SIU_OPENCLOSE]
<pre>#define #define #define #define #define #define #define #define #define</pre>	WFS_SIU_CLOSED WFS_SIU_OPEN WFS_SIU_LOCKED WFS_SIU_BOLTED WFS_SIU_SERVICE WFS_SIU_KEYBOARD WFS_SIU_AJAR WFS_SIU_JAMMED	(0x0001) (0x0002) (0x0004) (0x0010) (0x0020) (0x0020) (0x0040) (0x0080)

/*	Values	of WFSSIUSTATUS.fwIndicators [WFS_SIU_AUDIO]
		WFSSIUSETPORT.fwIndicators [WFS_SIU_AUDIO]
		WFSSIUSETINDICATOR.wCommand
		WFSSIUPORTEVENT.wPortStatus
		WFSSIUPORTERROR.wPortStatus */

#define	WFS_SIU_KEYPRESS	(0x0002)
#define	WFS_SIU_EXCLAMATION	(0x0004)
#define	WFS_SIU_WARNING	(0x0008)
#define	WFS_SIU_ERROR	(0x0010)
#define	WFS_SIU_CRITICAL	(0x0020)

/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS_SIU_REMOTE_STATUS_MONITOR]
 WFSSIUSETPORT.fwAuxiliaries [WFS_SIU_REMOTE_STATUS_MONITOR]
 WFSSIUSETAUXILIARY.fwCommand
 WFSSIUPORTEVENT.wPortStatus
 WFSSIUPORTERROR.wPortStatus */

#define	WFS_SIU_GREEN_LED_ON	(0x0001)
#define	WFS_SIU_GREEN_LED_OFF	(0x0002)
#define	WFS_SIU_AMBER_LED_ON	(0x0004)
#define	WFS_SIU_AMBER_LED_OFF	(0x0008)
#define	WFS_SIU_RED_LED_ON	(0x0010)
#define	WFS_SIU_RED_LED_OFF	(0x0020)

/* Values	of WFSSIUSTATUS.fwSensors []
	WFSSIUSTATUS.fwIndicators []
	WFSSIUSTATUS.fwAuxiliaries []
	WFSSIUSTATUS.fwGuidLights []
	WFSSIUCAPS.fwSensors []
	WFSSIUCAPS.fwIndicators []
	WFSSIUCAPS.fwGuidLights []
	WFSSIUSETPORT.fwIndicators []
	WFSSIUSETPORT.fwAuxiliaries []
	WFSSIUSETPORT.fwGuidLights []
	WFSSIUSETINDICATORS.fwCommand []
	WFSSIUSETAUXILIARY.fwCommand []
	WFSSIUSETGUIDLIGHTS.fwCommand []
	WFSSIUPORTEVENT.wPortStatus
	WFSSIUPORTERROR.wPortStatus */

#define	WFS SIU OFF	(0x0001)
#define	WFS SIU ON	(0x0002)
#define	WFS SIU SLOW FLASH	(0×0004)
#define	WFS SIU MEDIUM FLASH	(0x0008)
#define	WFS_SIU_QUICK_FLASH	(0x0010)
#define	WFS_SIU_CONTINUOUS	(0x0080)

#define	WFS_SIU_PRESENT	(0x0001)
#define	WFS_SIU_NOT_PRESENT	(0x0002)

#define	WFS_SIU_VERY_DARK	(0x0001)
#define	WFS_SIU_DARK	(0x0002)
#define	WFS_SIU_MEDIUM_LIGHT	(0x0004)
#define	WFS_SIU_LIGHT	(0x0008)
#define	WFS_SIU_VERY_LIGHT	(0x0010)

/* Values of WFSSIUSTATUS.fwAuxiliaries [WFS_SIU_UPS] WFSSIUCAPS.fwAuxiliaries [WFS_SIU_UPS]

WFSSIUPORTEVENT.wPortStatus WFSSIUPORTERROR.wPortStatus */ #define WFS_SIU_LOW (0x0002)#define WFS_SIU_ENGAGED (0×0.004) #define WFS_SIU_POWERING (0x0008)#define WFS_SIU_RECOVERED (0×0.010) /* Values of WFSSIUCAPS.fwType */ #define (0x0001) WFS_SIU_SENSORS #define WFS_SIU_DOORS (0x0002)#define WFS_SIU_INDICATORS (0x0004)#define WFS_SIU_AUXILIARIES #define WFS_SIU_GUIDLIGHTS (0x0008) (0x0010)/* 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 (0x0000)WFS_SIU_ENABLE_EVENT WFS_SIU_DISABLE_EVENT (0x0001) #define #define (0×0.002) /* Values of WFSSIUSETPORTS.fwDoors [...] WFSSIUSETDOORS.fwCommand [...] */ #define WFS_SIU_BOLT (0x0001) #define WFS_SIU_UNBOLT (0x0002)/* Values of WFSSIUSETPORTS.fwAuxiliaries [WFS_SIU_UPS] WFSSIUSETAUXILIARY.wAuxiliary [WFS_SIU_UPS] */ #define WFS_SIU_ENGAGE (0x0001) #define WFS_SIU_DISENGAGE (0x0002) /* XFS SIU Errors */ #define #define WFS_ERR_SIU_INVALID_PORT (-(SIU_SERVICE_OFFSET + 1))
#define WFS_ERR_SIU_SYNTAX (-(SIU_SERVICE_OFFSET + 2))
#define WFS_ERR_SIU_PORT_ERROR (-(SIU_SERVICE_OFFSET + 3)) /*=============*/ /* SIU Info Command Structures and variables */ /*_____*/ typedef struct _wfs_siu_status { WORD fwDevice; fwSensors [WFS_SIU_SENSORS_SIZE]; WORD WORD fwDoors [WFS_SIU_DOORS_SIZE]; fwIndicators [WFS_SIU_INDICATORS_SIZE];
fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE]; WORD WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; WORD LPSTR lpszExtra; } WFSSIUSTATUS, * LPWFSSIUSTATUS; typedef struct _wfs_siu_caps { WORD wClass; WORD fwType; WORD fwSensors [WFS_SIU_SENSORS_SIZE];

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WORD fwDoors [WFS_SIU_DOORS_SIZE]; fwIndicators [WFS_SIU_INDICATORS_SIZE]; WORD WORD fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE]; WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; LPSTR lpszExtra; } WFSSIUCAPS, * LPWFSSIUCAPS; /* SIU Execute Command Structures */ typedef struct _wfs_siu_enable WORD fwSensors [WFS_SIU_SENSORS_SIZE]; WORD fwDoors [WFS_SIU_DOORS_SIZE]; fwIndicators [WFS_SIU_INDICATORS_SIZE]; WORD fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE]; WORD WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; LPSTR lpszExtra; } WFSSIUENABLE, * LPWFSSIUENABLE; typedef struct _wfs_siu_set_ports WORD fwDoors [WFS_SIU_DOORS_SIZE]; WORD fwIndicators [WFS_SIU_INDICATORS_SIZE]; WORD fwAuxiliaries [WFS_SIU_AUXILIARIES_SIZE]; WORD fwGuidLights [WFS_SIU_GUIDLIGHTS_SIZE]; LPSTR lpszExtra; } WFSSIUSETPORTS, * LPWFSSIUSETPORTS; typedef struct _wfs_siu_set_door ł WORD wDoor; WORD fwCommand; } WFSSIUSETDOOR, * LPWFSSIUSETDOOR; typedef struct _wfs_siu_set_indicator ł WORD 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; fwCommand; WORD } WFSSIUSETGUIDLIGHT, * LPWFSSIUSETGUIDLIGHT; /*_____* /* SIU Message Structures */ typedef struct _wfs_siu_port_event { WORD wPortType; WORD wPortIndex; WORD wPortStatus; LPSTR lpszExtra; } WFSSIUPORTEVENT, * LPWFSSIUPORTEVENT;

```
typedef struct _wfs_siu_port_error
{
    WORD         wPortType;
    WORD         wPortIndex;
    HRESULT     PortError;
    WORD        wPortStatus;
    LPSTR     lpszExtra;
} WFSSIUPORTERROR, * LPWFSSIUPORTERROR;
/* restore alignment */
#pragma pack (pop)
#ifdef __cplusplus
}    /*extern "C"*/
#endif
#endif /* __INC_XFSSIU_H */
```