Sentinel Camera Communication Protocols Specification Document (Draft 2c) Addendum

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Note: This is a confidential document.

Control

Diagnostics

To facilitate service and fault management, it should be possible for the control PC to get and/or reset diagnostics 'properties' similar to those shown in Table 6 below:

Property	Description	Get	Reset
TotalStartStops	otalStartStops The total number of times that the PTZ		
	camera device has moved, from a stationary	✓	
	position and back again, since manufacture.		
	This is a 32-bit integer value		
Total360°Rotations	The total number of 360° rotations performed		
	by the PTZ camera device since manufacture.	✓	
	This is a 32-bit integer value		
Flags	An array of bits that indicate any data		
	communications errors, mechanical failures,	√	✓
	etc, experienced by the camera device		

Table 6

To get diagnostics properties, the control PC must send a *Get Diagnostics* message to a particular camera device.

When a camera device receives a *Get Diagnostics* message, it sends a *Diagnostics* message to the control PC containing diagnostic values of interest.

To reset diagnostics properties, the control PC must send a *Reset Diagnostics* message instead.

Note: the *Flags* diagnostic property has been included for information purposes only, and will only be subject to implementation in a future revision of the specification

Reset Diagnostics (32)

The format is:

0	12	36	78	9
STX	MsgID	NetID	Mask	ETX

- Byte 0 represents the start of message character (ASCII 0x02)
- Bytes 1..2 represent the Reset Diagnostics message ID. These bytes consist of the hexadecimal characters ASCII 0x33, ASCII 0x32 (i.e. '32')

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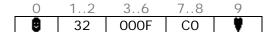
- Bytes 3..6 represent the 16-bit Sentinel network address assigned to the camera device. These bytes consist of 4 hexadecimal ASCII characters
- Bytes 7..8 represent an 8-bit property value mask encoded as 2 hexadecimal ASCII characters. The mask comprises the following bits:

7 6 5..0

TotalStartStops Total360°Rotations unused

- Bit 7 indicates that the *TotalStartStops* property value is to be reset to zero
- Bit 6 indicates that the Total360°Rotations property value is to be reset to zero
- Bits 5..0 are unused
- Byte 9 represents the end of message character (ASCII 0x03)

An example is:



This message requests that the TotalStartStops and $Total360^{\circ}Rotations$ diagnostics property values, for a camera device that has a NetID of 000F, be reset to zero

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