

# Gent Vigilon

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Device Driver Specification. DYNAMICALLY GENERATED; DO NOT MODIFY.

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## 1 Document Versions

Version	Date	Name	Change
<b>1.0</b>	2015-07-14	CNLUK\dauidm	Document Created.

## 2 Referenced Documents

Document	Version	Description
<b>Driver Project Requirements (DDK-PR)</b>	1.0	The Gent Vigilon driver must conform to all the requirements detailed in this document.
<b>Driver Connection and Online States Requirements (DDK-DC)</b>	1.0	The Gent Vigilon driver must conform to all requirements in this document detailed in the section: <a href="#">Device Connection and Online States</a>

### 3 Manufacturer

**Name** Gent



**Website** <https://www.gent.co.uk>

**Description** Gent by Honeywell is synonymous with quality and innovation in the fire detection and alarm industry.

## 4 IPsecSecurityCenter Versions

The driver must be compatible with the following IPsecSecurityCenter versions:

IPsecSecurityCenter Version	Supported
4.7	<input checked="" type="checkbox"/>

## 5 Operating Systems

### 5.1 Client Side Functionality

Operating Systems	Supported
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### 5.2 Server Side Functionality

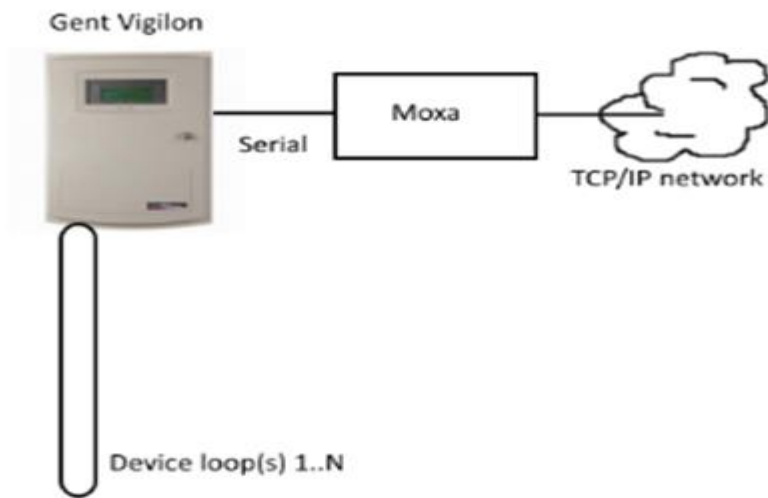
Operating Systems	Supported
Windows Server 2008 R2	<input checked="" type="checkbox"/>
Windows Server 2012	<input checked="" type="checkbox"/>



## 6 Models / Firmware Versions

Model	Versions	SDK
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## 7 Hardware Configurations



## 8 Driver Package

The driver package is named: `cnl_ipsc_gent_vigilon_[BUILD-VERSION].ipsc`



## 9 Driver Features

### 9.1 Vigilon

#### 9.1.1 Device Connection and Online States

The full requirements for these features can be found in the [Device Connection and Online States Requirements](#)

Feature	
<b>DC1.0 Device Online Status</b>	None
<b>DC2.0 Authentication</b>	None

### **9.1.2 Video**

This device does not support video.

### 9.1.3 Properties

General requirements for properties can be found in [Driver Project Requirements](#).

Name	Type	Description	Default Value & Ranges
<b>Status Check Interval</b>	int	Seconds between checking the servers status	Default: Min: 0 Max: 120
<b>Expected Heartbeat Interval</b>	long	Interval at which the Gent Vigilon sends heartbeat events, in seconds.	Default: 60 Min: 1 Max: 300
<b>Maximum Allowable Missed Heartbeats</b>	long	Maximum number of missing heartbeats before device is considered to be offline.	Default: 2 Min: 1 Max: 100

#### 9.1.4 Methods

General requirements for methods can be found in [Driver Project Requirements](#).



## 9.1.5 Events

General requirements for events can be found in [Driver Project Requirements](#).

### 9.1.5.1 Heartbeat Event

Heartbeat event from Vigilon Panel

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablingmentsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.

<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases bu the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

### 9.1.5.2 Fire Reset Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.

<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases by the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

### 9.1.5.3 Alarms Silenced Event

#### Performance

The driver must be able to handle 4000 events per hour.

### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range

		0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases by the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

#### 9.1.5.4 All Disablements Cleared Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.

<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases by the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

#### 9.1.5.5 All Faults Cleared Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablesCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn,

		SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases bu the Heartbeat Event, which returns a list of total counts.

<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

### 9.1.5.6 Alarms Sounded Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.



<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases bu the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

#### 9.1.5.7 Supervisory ON Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.

<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases by the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

### 9.1.5.8 Supervisory OFF Event

#### Performance

The driver must be able to handle 4000 events per hour.

### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range

		0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases by the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

### 9.1.5.9 Fault Outstation Loop Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.

<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases by the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

#### 9.1.5.10 Fault System Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablesCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn,

		SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases bu the Heartbeat Event, which returns a list of total counts.

<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

### 9.1.5.11 Disablement Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.

<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases bu the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

#### 9.1.5.12 Super Fire Event

#### Performance

The driver must be able to handle 4000 events per hour.

#### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.



<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range 0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases by the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

### 9.1.5.13 Fire Event

#### Performance

The driver must be able to handle 4000 events per hour.

### Event Properties

Name	Type	Description
<b>Event Code</b>	string	Contains the event code, being one of the following: FireReset, AllFaultsCleared, AllDisablementsCleared, AlarmsSilenced, AlarmsSounded, SupervisoryOn, SupervisoryOff, FaultSystem, FaultOutstationLoop, Disablement, Fire, and SuperFire
<b>Outstation Address</b>	int	This may be any number from 0 - 207 and gives the address of a sensor, source, etc on a specific system loop. Note that if this number is zero, the event is card/loop related and the label information will contain spaces.
<b>Outstation Channel Number</b>	int	This may be any number from 0 - 7 and gives the channel number. Note that if this number is zero, the event is either for the whole outstation or is card/loop related.
<b>Sector Bit Array</b>	string	An outstation may be assigned to any combination of sectors as part of the system fire plan. These four numbers indicate which sector(s) this outstation has been assigned to.
<b>Zone Number</b>	int	An outstation may be assigned to one zone for fire display or general grouping purposes. This number may be any number from 0 - 128. (If zone is 0 then the outstation is not in a zone)
<b>Loop/Card/Slot Number</b>	string	This may be any number from 0 - 15. The control panel unit may contain up to 16 individual cards where slot 0 is always the local controller card, and the loops can only exist in slots 1 through 8.
<b>Panel Number</b>	int	This is the control panel unit address and can be any number in the range 0 - 31, this may be modified via a switch on the network card.
<b>Event Time</b>	DateTime	This contains the actual time that the event occurred. The DateTime is returned in UTC.
<b>Domain Number</b>	int	This is the address of the domain (network) the control panel is in. This number is in the range

		0 - 255, this address may be modified via a switch on the I/O card.
<b>Master Sector Number</b>	string	Master sectors are used for network fire plan actions. This number indicates the master sector associated with this event. Master sector range is 0 - 255.
<b>Event Parameters</b>	string	The event parameters should be ignored in all cases bu the Heartbeat Event, which returns a list of total counts.
<b>Label</b>	string	This contains an ASCII string associated with an outstation, zone supervisory or panel event.
<b>Checksum</b>	string	A sixteen bit checksum of the message.

## 10 Installation

### 10.1 Prerequisites

Install the SDK on all machines running the following services / software:

- Connection Manager

## 10.2 Driver Installation

- Start the IPSecurityCenter™ client and any supporting services
- Open the Device Driver Manager from the System Configuration
- Click the ***Install*** button
- Select the Gent Vigilon Driver Package in the Open file dialog
- Wait for the driver to be uploaded

The driver packages should be listed in the Device Driver Manager.

### Additional Installation Details

When disconnecting the Gent Vigilon device, beware that while it is shown as disconnected this may take a few seconds to occur. Reconnecting in this period will result in disconnection due to the final closure message being received from the previous TCP socket. Users should leave at least ten seconds between disconnecting the device through IPSC and reconnecting it.

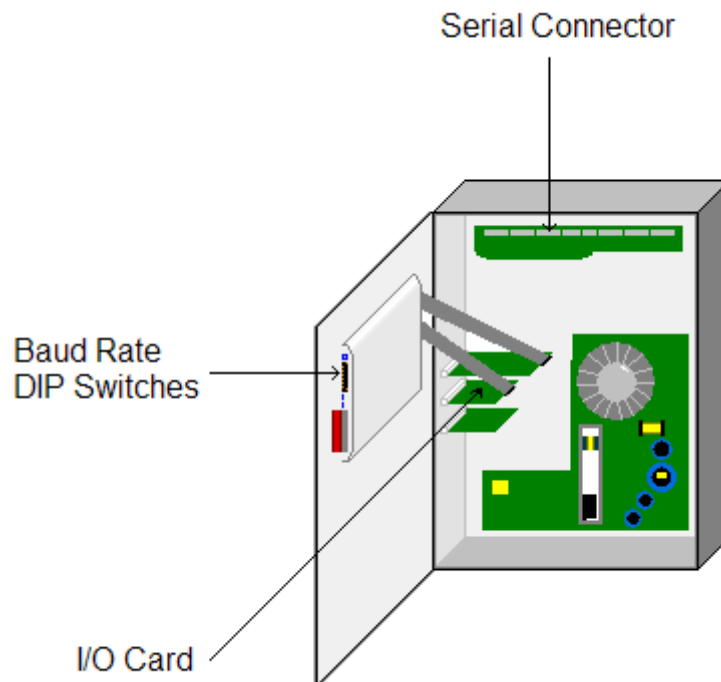
### 10.2.1 Device Configuration

- Right click in a folder (e.g. Devices) in the System Configuration: **New** → **Device On** → **Server**
- Click **Next** on the introduction
- Select **Gent** in the **Device Manufacturer** list
- Select **Vigilon** in the Available Devices list
- Click **Next** to enter the device details: Enter the Gent Vigilon hostname or IP address, the port (use 0 to use the default port), and user name and password if integrated security is not being used.
- Click **Next** and **Finish** to add the device.
- Enable the device to bring it online.

#### Additional Configuration Details

The Gent Vigilon communicates via an I/O card in the panel (second card down). The panel should be wired for an RS232 connection on the third bus from the left. Only the RX, TX and 0v should be connected.

The I/O card rotary switch should be set to number 6, and the panel on the door should have its DIP switches set so that serial communication is at a baud rate of 9600 (switches 1 and 8 should be on / to the right and all the others should be set to off / to the left.) The baud rate can be confirmed by looking at the LCD panel on the front of the door as you are setting it.



Additional configuration properties:

**Expected heartbeat interval** : Interval at which the Gent Vigilon sends heartbeat events, in seconds. Any event from the Vigilon will be treated as a heartbeat, since it may not send null (heartbeat)

events if busy with other event types. This property is the maximum number of seconds to wait before counting the expected event as 'missed'. The recommended value for this is 60.

**Maximum allowable missed heartbeats** : Maximum number of missing heartbeats before device is considered to be offline. Once this number has been passed the device will be disconnected and a reconnect will occur after the configured retry interval has elapsed. The recommended value for this is 2.

**Status check interval** : Seconds between checking the servers status, this is a basic check that the Vigilon is present and uses a ping to determine if the intermediary equipment (such as a Moxa) is still responding to a ping. If it is not the device is marked as offline. Set to 0 for equipment that does not support this functionality, such as Comtrol boxes.

## 10.2.2 Driver Compatibility

The following devices are known to be incompatible with the Gent Vigilon.

Model
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