

Maxxess eFusion MultiPort

Device Driver Specification. **MANUALLY MODIFIED; DO NOT REGENERATE.**

03/09/2018 13:25



A Whole World of Integration



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1 Document Versions

Version	Date	Name	Change
1.0	2018-06-25	LG	Document Created.
1.1	2018-08-09	AM	Updated document after JIRA cases DRV-162, DRV-91, DRV-174
1.2	2018-08-16	AM	Updated observations WRT offline events not providing an exhaustive list of 'missed' events
1.3	2018-08-16	AM	Updated with new server method as a consequence of JIRA case DRV-284
1.4	2018-09-03	AM	Updated with new server method as a consequence of JIRA case DRV-284

2 Referenced Documents

Document	Version	Description
Driver Project Requirements (DDK-PR)	1.0	The Maxxess eFusion MultiPort driver must conform to all the requirements detailed in this document.
Driver Connection and Online States Requirements (DDK-DC)	1.0	The Maxxess eFusion MultiPort driver must conform to all requirements in this document detailed in the section: Device Connection and Online States

3 Manufacturer

Name Maxxess



Website <http://www.maxxess-systems.com/>

Description Maxxess is leader in traditional access control systems.

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
Windows 7 64 bit	<input checked="" type="checkbox"/>

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
eFusion	Desktop EXpress 5.4.1.11262	None

7 Hardware Configurations

TODO

**Build configuration diagram
linking servers together.**

(ConfigurationDiagram.png)

8 Driver Package

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

9 Driver Features

9.1 eFusion MultiPort

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	
DC1.0 Device Online Status	None
DC2.0 Authentication	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
Database Server Name	string	The name of the database server.	Default: Min: Max:
Database Name	string	The name of the database.	Default: Min: Max:
Windows Authentication	bool	Specifies whether to use SQL Server or Windows Authentication to connect to the database.	Default: true Min: Max:
Database Username	string	The username to use to connect to the database.	Default: Min: Max:
Database Password	string	The password to use to connect to the database.	Default: Min: Max:
Ping timeout interval	int	The maximum interval (in seconds) expected between consecutive ping messages received from the Maxxess system. Make sure to set it to a value higher than the one configured in the Maxxess system.	Default: 80 Min: 5 Max: 300
Custom Event Definition File	string	(Deprecated) CSV file path for custom event definitions. Should be used for mapping default events that have been customized or for custom events	Default: Min: Max:

MultiPort Name	string	Name of the computer where the MultiPort is running.	Default: Min: Max:
Last Event Received (UTC)	String	Time of the last event that was received whilst IPSC was online, used for raising offline events	Default: Min: Max:
Maxxess Event Time Zone Offset (Hours)	int	The Maxxess EventTime values are not in UTC so need to be offset	Default: Min: Max:
Retrieve Offline events	bool	Flag to indicate if we should retrieve historic (offline) events	Default: true Min: Max:
Ping Enabled	bool	Whether ICMP ping is enabled or not in the network.	Default: true Min: Max:

9.1.4 Methods

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

9.1.4.1 Set Door Group State

Sets the state of the door group.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Door Group State Command Type	Enums.DoorGroupStateCommandType	The type of set door group state command.	Default: Min: Max:
Area Controller Address	string	The address of the area controller.	Default: Min: Max:
Door Group Name	string	The name of the door group.	Default: Min: Max:

9.1.4.2 Set Alarm Zone State

Sets the state of the alarm zone.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Alarm Zone State Command Type	Enums.AlarmZoneStateCommandType	The type of set alarm zone state command.	Default: Min: Max:

Area Controller Address	string	The address of the area controller.	Default: Min: Max:
Alarm Zone Name	string	The name of the alarm zone.	Default: Min: Max:

9.1.4.3 Set Output Group State

Sets the state of the output group.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Output Group State Command Type	Enums.OutputGroupStateCommandType	The type of set output group state command.	Default: Min: Max:
Area Controller Address	string	The address of the area controller.	Default: Min: Max:
Output Group Name	string	The name of the output group.	Default: Min: Max:

9.1.4.4 Delete Alarm

Deletes the specified alarm. NB: all the parameters of this method have to be filled in for it to actually perform the operation.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Alarming Point Address	string	The address of the alarming point.	Default: Min: Max:
Alarm Key	string	The internal key of the alarm.	Default: Min: Max:
Operator Name	string	The name of the operator.	Default: Min: Max:

9.1.4.5 Acknowledge Alarm

Acknowledges the specified alarm. NB: all the parameters of this method have to be filled in for it to actually perform the operation.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Alarming Point Address	string	The address of the alarming point.	Default: Min: Max:
Alarm Key	string	The internal key of the alarm.	Default: Min: Max:
Operator Name	string	The name of the operator.	Default: Min: Max:

9.1.4.6 Synchronize Panel Labels

Queries the MaXess database for its set of known panels and for every one in IPSC where the Label of the device does not match the device name within the database correct the Label in IPSC to match.

Returns bool. – True if the method completes successfully, otherwise false. Inspection of the logs will indicate the reason for the failure.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
N/A			

9.1.4.7 *Synchronize Controller Labels*

Queries the MaXess database for its set of known controllers and for every one in IPSC where the Label of the device does not match the device name within the database correct the Label in IPSC to match.

Returns bool. – True if the method completes successfully, otherwise false. Inspection of the logs will indicate the reason for the failure.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
N/A			

9.1.5 Events

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

9.1.5.1 General

Raised when an event occurs at the communication module.

Performance

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

Event Properties

Name	Type	Description
Priority	string	The priority of the event.
Name	string	The name of the point creating the event.
Event Type	string	The description of the type of event.
Details	string	Additional event details , if provided.
Address	string	The address of the point creating the event.
Badge	string	The cardholders badge number for badge events.
Department	string	The cardholders department for badge events.
Camera	string	The identifier of the camera, if there is one associated with the point.
Site	string	The site associated with the event, if using EndPoint.
Sound	string	The name of the wav sound file associated with the event.
State	string	The message code of the event.
Alarm Key	string	The internal key of the alarm.

9.1.5.2 Alarm Acknowledged

Raised when an alarm is acknowledged by a module.

Performance

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

Event Properties

Name	Type	Description
Alarm Key	string	The internal key of the alarm.
Address	string	The address of the alarm being acknowledged.

9.1.5.3 *Alarm Deleted*

Raised when an alarm is deleted by a module.

Performance

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

Event Properties

Name	Type	Description
Alarm Key	string	The internal key of the alarm.
Address	string	The address of the alarm being deleted.

9.1.5.4 *Shutdown*

Raised when a MultiPort is closed.

Performance

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

Event Properties

Name	Type	Description
Workstation	string	The name of the workstation where the module is running.
Module	string	The name of the module

9.1.5.5 *Area Controller Added*

Raised when an area controller is added to the display.

Performance

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

Event Properties

Name	Type	Description
Name	string	The name of the MultiPort sending the status.

Address	string	The address of the MultiPort sending the status.
Status	string	The overall status of the MultiPort.
Area Controller Name	string	The name of the area controller.
Area Controller Address	string	The address of the area controller.
Area Controller Short	string	The short address (type and number) of the area controller.
Area Controller Status	string	The status of the area controller.
Panel Name	string	The name of the panel.
Panel Address	string	The address of the panel.
Panel Short	string	The short address (type and number) of the panel.
Panel Status	string	The status of the panel.

9.1.5.6 *Interface Added*

Raised when an interface is added to the display.

Performance

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

Event Properties

Name	Type	Description
Name	string	The name of the MultiPort sending the status.
Address	string	The address of the MultiPort sending the status.
Status	string	The overall status of the MultiPort.
Module Status	string	The overall status of the interfaces.
Interface Name	string	The name of the interface.
Interface Address	string	The address of the interface.
Interface Short	string	The short address (number) of the interface.
Interface Status	string	The status of the interface.

9.1.5.7 *Display Cleared*

Raised when the display has been cleared.

Performance

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

Event Properties

Name	Type	Description
Name	string	The name of the MultiPort sending the status.

9.1.5.8 *Communication Status Changed*

Raised when the communication status of a module, area controller or panel has changed.

Performance

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

Event Properties

Name	Type	Description
Panel Address	string	The address of the module, area controller or panel.
Status	Enums.CommunicationStatusType	The status of the communication.

9.2 eFusion Door

9.2.1 Device Connection and Online States

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

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.2.2 Video

This device does not support video.

9.2.3 Properties

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

Name	Type	Description	Default Value & Ranges
Address	string	The address of the door.	Default: Min: Max:
Identifier	string	SDK identifier	Default: Min: Max:
Name	string	Name	Default: Min: Max:
State	Enums.DoorStateType	State	Default: Min: Max:
EnabledState	Enums.EnabledStateType	Whether device is enabled or not.	Default: Min: Max:

9.2.4 Methods

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

9.2.4.1 *Get Door State*

Gets the current state of the specified door. The result is returned raising Door state returned event.

Returns Enums.DoorStateType.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
N/A			

9.2.4.2 *Set Door State*

Sets the state of the door.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Door State Command Type	Enums.DoorStateCommandType	The type of set door state command.	Default: Min: Max:

9.2.4.3 *Get Door Enabled*

Returns whether a specific door is enabled.

Returns Enums.EnabledStateType.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
N/A			

9.2.5 Events

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

9.2.5.1 Door Forced

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.2 Door Held Open

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	

Details	string
Address	string
Badge	string
Department	string
Camera	string
Site	string
Sound	string
State	string
AlarmKey	string

9.2.5.3 Door Closed After Held Open

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.4 *Locked*

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.5 *Door Closed After Forced*

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	

Badge	string
Department	string
Camera	string
Site	string
Sound	string
State	string
AlarmKey	string

9.2.5.6 *Lost Badge*

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.7 *Unlocked*

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.8 Valid Access (Antipassback)

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	

Site	string
Sound	string
State	string
AlarmKey	string

9.2.5.9 *Valid Access Duress*

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.10 *Valid Access Learn*

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.11 Invalid Badge

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	

State	string
AlarmKey	string

9.2.5.12 Valid Access Trace

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.13 Valid Access Learn MR

Performance

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

Event Properties

Name	Type	Description
Priority	string	

Name	string
Details	string
Address	string
Badge	string
Department	string
Camera	string
Site	string
Sound	string
State	string
AlarmKey	string

9.2.5.14 Expired Badge

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.15 Valid Access

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.16 Voided Card

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	

Badge	string
Department	string
Camera	string
Site	string
Sound	string
State	string
AlarmKey	string

9.2.5.17 Door Closed

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.18 Invalid Site

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.2.5.19 Custom

Raised when an event occurs at the communication module.

Performance

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

Event Properties

Name	Type	Description
Priority	string	The priority of the event.
Name	string	The name of the point creating the event.
Event Type	string	The description of the type of event.
Details	string	Additional event details , if provided.
Address	string	The address of the point creating the event.
Badge	string	The cardholders badge number for badge events.

Department	string	The cardholders department for badge events.
Camera	string	The identifier of the camera, if there is one associated with the point.
Site	string	The site associated with the event, if using EndPoint.
Sound	string	The name of the wav sound file associated with the event.
State	string	The message code of the event.
Alarm Key	string	The internal key of the alarm.

9.2.5.20 Door State Returned

Performance

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

Event Properties

Name	Type	Description
The current state of the door	Enums.DoorStateType	State

9.2.5.21 Door Enabled Returned

Performance

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

Event Properties

Name	Type	Description
Enabled State	Enums.EnabledStateType	

9.3 eFusion Sensor

9.3.1 Device Connection and Online States

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

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.3.2 Video

This device does not support video.

9.3.3 Properties

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

Name	Type	Description	Default Value & Ranges
Address	string	The address of the sensor.	Default: Min: Max:
Identifier	string	SDK identifier	Default: Min: Max:
Name	string	Name	Default: Min: Max:
State	Enums.SensorStateType	State	Default: Min: Max:
EnabledState	Enums.EnabledStateType	Whether device is enabled or not.	Default: Min: Max:

9.3.4 Methods

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

9.3.4.1 *Get Sensor Enabled*

Returns whether a specific sensor is enabled.

Returns Enums.EnabledStateType.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
N/A			

9.3.4.2 *Get Sensor State*

Gets the current state of the specified sensor. The result is returned raising Sensor state returned event.

Returns Enums.SensorStateType.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
N/A			

9.3.4.3 *Set Sensor State*

Sets the state of the sensor.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Sensor State Command Type	Enums.SensorStateCommandType	The type of set sensor state command.	Default: Min: Max:

9.3.4.4 *Simulate Event*

Simulates an event.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Exception Code	string	The 2 byte exception code.	Default: Min: Max:

9.3.5 Events

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

9.3.5.1 Sensor Open

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Details	string	
Address	string	
Badge	string	
Department	string	
Camera	string	
Site	string	
Sound	string	
State	string	
AlarmKey	string	

9.3.5.2 Sensor Closed

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	

Details	string
Address	string
Badge	string
Department	string
Camera	string
Site	string
Sound	string
State	string
AlarmKey	string

9.3.5.3 Custom

Raised when an event occurs at the communication module.

Performance

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

Event Properties

Name	Type	Description
Priority	string	The priority of the event.
Name	string	The name of the point creating the event.
Event Type	string	The description of the type of event.
Details	string	Additional event details , if provided.
Address	string	The address of the point creating the event.
Badge	string	The cardholders badge number for badge events.
Department	string	The cardholders department for badge events.
Camera	string	The identifier of the camera, if there is one associated with the point.
Site	string	The site associated with the event, if using EndPoint.

Sound	string	The name of the wav sound file associated with the event.
State	string	The message code of the event.
Alarm Key	string	The internal key of the alarm.

9.3.5.4 *Sensor State Returned*

Performance

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

Event Properties

Name	Type	Description
The current state of the door	Enums.SensorStateType	State

9.3.5.5 *Sensor Enabled Returned*

Performance

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

Event Properties

Name	Type	Description
Enabled State	Enums.EnabledStateType	

9.3.5.6 *Sensor Secure*

Event raised when sensor is set to secure

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Address	string	

State	string
AlarmKey	string

9.3.5.7 *Sensor Alarm*

Event raised when sensor is set to alarm

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Address	string	
State	string	
AlarmKey	string	

9.4 eFusion Output

9.4.1 Device Connection and Online States

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

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.4.2 Video

This device does not support video.

9.4.3 Properties

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

Name	Type	Description	Default Value & Ranges
Address	string	The address of the output.	Default: Min: Max:
Identifier	string	SDK identifier	Default: Min: Max:
Name	string	Name	Default: Min: Max:
State	Enums.OutputStateType	State	Default: Min: Max:
EnabledState	Enums.EnabledStateType	Whether device is enabled or not.	Default: Min: Max:

9.4.4 Methods

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

9.4.4.1 Set Output State

Sets the state of the output.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Output State Command Type	Enums.OutputStateCommandType	The type of set output state command.	Default: Min: Max:

9.4.5 Events

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

9.4.5.1 Custom

Raised when an event occurs at the communication module.

Performance

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

Event Properties

Name	Type	Description
Priority	string	The priority of the event.
Name	string	The name of the point creating the event.
Event Type	string	The description of the type of event.
Details	string	Additional event details , if provided.
Address	string	The address of the point creating the event.
Badge	string	The cardholders badge number for badge events.
Department	string	The cardholders department for badge events.
Camera	string	The identifier of the camera, if there is one associated with the point.
Site	string	The site associated with the event, if using EndPoint.
Sound	string	The name of the wav sound file associated with the event.
State	string	The message code of the event.
Alarm Key	string	The internal key of the alarm.

9.4.5.2 Output Energized

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Address	string	
State	string	
AlarmKey	string	

9.4.5.3 *Output Deenergized*

Performance

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

Event Properties

Name	Type	Description
Priority	string	
Name	string	
Address	string	
State	string	
AlarmKey	string	

9.5 eFusion Panel

9.5.1 Device Connection and Online States

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

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.5.2 Video

This device does not support video.

9.5.3 Properties

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

Name	Type	Description	Default Value & Ranges
Address	string	The address of the sensor.	Default: Min: Max:
Identifier	string	SDK identifier	Default: Min: Max:
Name	string	Name	Default: Min: Max:
State	Enums.SensorStateType	State	Default: Min: Max:
EnabledState	Enums.EnabledStateType	Whether device is enabled or not.	Default: Min: Max:

9.5.4 Methods

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

There are no specific methods for this device type.

9.5.5 Events

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

9.5.5.1 Custom

Raised when an event occurs at the communication module.

Performance

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

Event Properties

Name	Type	Description
Priority	string	The priority of the event.
Name	string	The name of the point creating the event.
Event Type	string	The description of the type of event.
Details	string	Additional event details , if provided.
Address	string	The address of the point creating the event.
Badge	string	The cardholders badge number for badge events.
Department	string	The cardholders department for badge events.
Camera	string	The identifier of the camera, if there is one associated with the point.
Site	string	The site associated with the event, if using EndPoint.
Sound	string	The name of the wav sound file associated with the event.
State	string	The message code of the event.
Alarm Key	string	The internal key of the alarm.

9.6 eFusion Controller

9.6.1 Device Connection and Online States

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

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.6.2 Video

This device does not support video.

9.6.3 Properties

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

Name	Type	Description	Default Value & Ranges
Address	string	The address of the sensor.	Default: Min: Max:
Name	string	Name	Default: Min: Max:

9.6.4 Methods

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

9.6.4.1 Clear Door Group Lockdown

Clears the lockdown of the specified door group.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Door Group Name	string	The name of the door group.	Default: Min: Max:

9.6.4.2 Lockdown Door Group

Locks down the specified door group.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Door Group Name	string	The name of the door group.	Default: Min: Max:

9.6.4.3 Update Controller

Updates the specified Controller with the specified entity from the database .

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Entity Command Type	Enums.EntityCommandType	The entity to update from the database.	Default: Min: Max:

9.6.4.4 *Forgive APB Global*

Set one-time APB exemption For all

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
N/A			

9.6.4.5 *Forgive APB*

Set one-time APB exemption

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Card Holder Id	int		Default: 0 Min: Max:
Area In	int		Default: -1 Min: Max:

Area To Move int

Default: -1

Min:

Max:

9.6.5 Events

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

9.6.5.1 Custom

Raised when an event occurs at the communication module.

Performance

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

Event Properties

Name	Type	Description
Priority	string	The priority of the event.
Name	string	The name of the point creating the event.
Event Type	string	The description of the type of event.
Details	string	Additional event details , if provided.
Address	string	The address of the point creating the event.
Badge	string	The cardholders badge number for badge events.
Department	string	The cardholders department for badge events.
Camera	string	The identifier of the camera, if there is one associated with the point.
Site	string	The site associated with the event, if using EndPoint.
Sound	string	The name of the wav sound file associated with the event.
State	string	The message code of the event.
Alarm Key	string	The internal key of the alarm.

10 Installation

10.1 Prerequisites

There is no SDK to install for this integration.

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 Maxxess eFusion MultiPort 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

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 **Maxxess** in the **Device Manufacturer** list
- Select **eFusion MultiPort** in the Available Devices list
- Click **Next** to enter the device details: Enter the Maxxess eFusion MultiPort 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.

11 Known issues and Observations

- If wrong connection credentials are entered, the driver times out with the message: "The connection has timed out. If trying to go online for the first time, check connection credentials."
- -The methods *GetDoorState*, *GetSensorState*, *GetDoorEnabled* and *GetSensorEnabled* return the result as an enumeration, however due to a limitation of the current IPSC windows client (version 4.7.6) these enumeration types are not available when creating script variables.
As a workaround, the underlying "Whole number" type can be used. Below is shown the mapping between the two types:

DoorStateType:

Unknown = 0
Locked = 1
Unlocked = 2

SensorStateType:

Unknown = 0
Secure = 1
Alarm = 2

EnabledStateType:

Unknown = 0
Enabled = 1
Disabled = 2

- For the 'General' events, the 'Event Type' property can be one of these values:

<i>Access Level Allowed</i>	<i>Alarm</i>	<i>Alarm ended</i>
<i>Alarm High+</i>	<i>Alarm Low+</i>	<i>Alarm started</i>
<i>Allow access</i>	<i>Analog+</i>	<i>Antipassback</i>
<i>Antipassback timeout</i>	<i>Any badge alarm</i>	<i>Asset Authorized</i>
<i>Asset Unauthorized</i>	<i>Asset Unknown</i>	<i>Asset without badge</i>
<i>Bad PIN voided</i>	<i>Bad quality+</i>	<i>Badge Decode Error+</i>
<i>Battery fail</i>	<i>Battery Low</i>	<i>Battery restore</i>
<i>Before activation</i>	<i>Comm Quality+</i>	<i>Command discarded+</i>
<i>Command+</i>	<i>Communication back</i>	<i>Communication error+</i>
<i>Communication lost</i>	<i>Controller Log+</i>	<i>Controller Misc+</i>
<i>Controller Password Cleared</i>	<i>Controller Status+</i>	<i>Daily Code</i>
<i>DB Error+</i>	<i>Denied access</i>	<i>Diagnostic+</i>
<i>Disabled</i>	<i>Disabled</i>	<i>Door Fault (foreign)</i>
<i>Door Fault (ground)</i>	<i>Door Fault (short)</i>	<i>Door Fault clear</i>
<i>Door fault open</i>	<i>Door unknown</i>	<i>Duress</i>
<i>Enabled</i>	<i>Encryption error+</i>	<i>Fault (foreign)</i>
<i>Fault (ground)</i>	<i>Fault (open)</i>	<i>Fault (short)</i>
<i>Firmware Corrupted</i>	<i>Hardware error+</i>	<i>Humidity+</i>
<i>Initialization sequence+</i>	<i>Invalid Asset</i>	<i>Invalid biometric</i>
<i>Invalid Daily</i>	<i>Invalid Facility+</i>	<i>Invalid group</i>
<i>Invalid PIN</i>	<i>Invalid site</i>	<i>Library status+</i>
<i>Lighting changed</i>	<i>Lighting restored</i>	<i>Lockdown</i>
<i>Lockdown clear</i>	<i>Locked</i>	<i>Module shutdown</i>
<i>Momentary</i>	<i>Motion ended</i>	<i>Motion started</i>
<i>New Controller Password</i>	<i>No Modem Connection</i>	<i>No response+</i>
<i>No second card presented</i>	<i>Normal+</i>	<i>Output deenergized</i>
<i>Output energized</i>	<i>Output unknown</i>	<i>Panel Command+</i>
<i>Panel has lost power</i>	<i>Panel has totally reset</i>	<i>Panel not responding</i>
<i>Panel on battery power</i>	<i>Panel on main power</i>	<i>Panel unknown</i>
<i>PDA Service ERROR+</i>	<i>PDA Service EVENT+</i>	<i>PDA Service WARNING+</i>
<i>Perimeter breached</i>	<i>Perimeter secure</i>	<i>Points+</i>
<i>Pre-alarm High+</i>	<i>Pre-alarm Low+</i>	<i>Reader not enabled</i>
<i>Readhead fault</i>	<i>Recording ended</i>	<i>Recording started</i>
<i>Reload Cardholders</i>	<i>Request to Exit</i>	<i>Revision+</i>
<i>REX Fault (foreign)</i>	<i>REX Fault (ground)</i>	<i>REX Fault (short)</i>
<i>REX fault open</i>	<i>Secure</i>	<i>Selected</i>
<i>Sensor arm</i>	<i>Sensor closed</i>	<i>Sensor Disarm</i>
<i>Sensor open</i>	<i>Sensor unknown</i>	<i>Site offline</i>
<i>Status+</i>	<i>Stolen</i>	<i>System Status+</i>
<i>Tamper</i>	<i>Tamper restore</i>	<i>Temperature+</i>
<i>Transaction Data Lost</i>	<i>Unknown Command+</i>	<i>Unknown PIN</i>
<i>Usage Count</i>	<i>Video loss</i>	<i>Video restored</i>

Voided card
Zone Arm
Zone Disarmed
Zone not ready+

Warning+
Zone Armed
Zone force arm

Wrong shift
Zone disarm
Zone not ready

- Maxxess database time format – The offline events access the database directly and the driver requires time information in the database to be in a US format of “**mm/dd/yyyy hh:mm:ss**”
- The Maxxess system does not store a comprehensive log of events it has raised. As a consequence it will not be possible to raise offline events against such incidents. The following are some of the events types that are not logged (This is NOT an exhaustive list) Acknowledging/ deleting of alarms, locking/unlocking of doors.

12 Driver Compatibility

The following devices are known to be incompatible with the Maxxess eFusion MultiPort.

Model
N/A