I/O service

axisio = http://www.axis.com/vapix/ws/AxisIo

The I/O service handles which I/O is connected where.

The product's I/O:s can be assigned to `IoUser` items.

- Use `GetIoInfoList()` to get information about all I/O:s.
- Use `GetIoUserInfoList()` to get information about all `IoUser` items.
- Use `GetIoAssignmentList()` to get information about which I/O:s are assigned to which `IoUser` items.
- Use `SetIoAssignment()` to assign an I/O to one or more `IoUser` items.

PinInfo data structure

Information about a physical pin and which modes it can be used for.

The following fields are available:

`Name` -

Physical pin. Naming convention connector type name:pinnbr, some examples: Door IN 1:1:GND, Door IN 1:2:IN, Reader Data 1:5, Reader Data 1:6 GND means a dedicated ground pin, IN means this is an input, I/O means this is either an input or an output, OUT means this is an output.

`Description` -

Description of pin.

IoInfo data structure

Information about which physical pin/pins an I/O uses and which modes it can be used for.

The following fields are available:

`IoName` -

IoUser data structure

Entity to use for assigning I/O:s to a usage of a specific token.

The following fields are available:

`Type` -
Which type of I/O user is it.

`token` -
Token used to identify specific `IoUser` .

`Usage` -
Short name of usage.

`MultiIo` -
True if multiple I/O:s can be assigned to this `IoUser` .

IoUserInfo data structure

Information about an `IoUser` . E.g. `open/gnd` and `pu/gnd` are possible modes for usage `DoorLock` of Door0 with token Door1234 of type `Door` .

The following fields are available:

`Name` -
Informative name of the user.

`IoMode` -
Possible modes for `IoUser` .

`IoUser` -

IoAssignment data structure

The configuration entity to configure which mode an I/O should use and to assign it to one or more I/O users.

The following fields are available:

IoAssignmentErrorCode data structure

The possible errors when assigning I/Os.

The following values are available:

`Other` -

For future extension.

`Unknown` -

For unknown error code.

`IoDoesNotExist` -

`Io` does not exist.

`IoUserServiceDoesNotExist` -

`IoUser` service does not exist.

`IoUserTokenDoesNotExist` -

`IoUser` token does not exist.

`IoUserUsageDoesNotExist` -

`IoUser` `Usage` does not exist.

`MultipleIoNotAllowed` -

Multiple I/Os not allowed for this `IoUser` .

`ModeAlreadyAssignedInRequest` -

Different I/O modes assigned multiple times in same request.

`ModeNotAllowedForIo` -

Mode not allowed for `Io` .

`ModeNotAllowedForIoUser` -

Mode not allowed for `IoUser` .

`DuplicateIoAssignment` -

The same `Io` is assigned multiple times in the same request.

The mode to configure the I/O to use.

`IoUser` -

`IoUser` to assign `Io` to.

`Error` -

Error `IoUser` to assign `Io` to.

GetIoAssignmentList command

Use `GetIoAssignmentList` to retrieve all I/O assignments.

GetIoAssignmentList	Access Class: READ_SYSTEM_SENSITIVE
Message name	**Description**
`GetIoAssignmentListRequest`	This message shall be empty.
`GetIoAssignmentListResponse`	This message contains: • " `IoAssignment` ": `axisio:IoAssignment` **`IoAssignment [0][unbounded]`**

GetIoUserInfoList command

Use `GetIoUserInfoList` to retrieve all `IoUserInfo` items.

GetIoUserInfoList	Access Class: READ_SYSTEM
Message name	**Description**
`GetIoUserInfoListRequest`	This message shall be empty.

GetIoInfoList command

Use `GetIoInfoList` to retrieve all `IoInfo` items.

`GetIoInfoList`	Access Class: READ_SYSTEM
Message name	**Description**
`GetIoInfoListRequest`	This message shall be empty.
`GetIoInfoListResponse`	This message contains: • " `IoInfo` ": `axisio:IoInfo` **`IoInfo [0][unbounded]`**

SetIoAssignment command

Use `SetIoAssignment` to assign I/Os.

`SetIoAssignment`	Access Class: WRITE_SYSTEM
Message name	**Description**
`SetIoAssignmentRequest`	This message contains: • " `IoAssignment` ": `axisio:IoAssignment` **`IoAssignment [0][unbounded]`**
`SetIoAssignmentResponse`	This message contains: • " `IoAssignmentError` ": List of failed assignments, empty if assignments ok.