

API Reference

WiseAI

API Version: 1.5.0

WiseAI App for Hanwha Camera

CONTACT

NAME: [Hanwha Vision](#)

URL: <https://www.hanwhavision.com/>

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SECURITY SCHEMES

KEY	TYPE	DESCRIPTION
digestAuth	http, digest	Follows RFC:7616 (compatible with RFC:2617)

API

1. AI SETTINGS

1.1 GET /configuration/aisettings

Get AI settings

Get AI configurations, a device that indicates capability of aiseetings in getcapability command shall support this command.

This API can select channels to enable AI features, and if you turn off a channel, all AI features on that channel will be automatically disabled.

Conversely, if a particular AI channel is turned off, it will automatically be turned on when you turn on one of that channel's AI events.

If an event setting cannot be turned on due to limitations, it responds with an error code 617 Configuration Limited.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
aiSettings	array of objects	
channel*	integer	
enable	boolean	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

1.2 PUT /configuration/aisettings

Update AI settings

Update AI settings, a device that indicates capability of aisettings in getcapability command shall support this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
aiSettings	array of objects	
channel*	integer	
enable	boolean	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

1.3 GET /configuration/aisettings/options

Get AI settings options

Get AI settings options, a device that indicates capability of aiseetings in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
maxAvailableChannels	integer	Indicates how many channels the AI feature can enable simultaneously
aiSettingsOptions	array of objects	
channel	integer	
aiSupport	boolean	Indicates whether the channel supports AI features

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

2. ANALYTICS EXCLUDE SETTINGS

2.1 GET /configuration/analyticsexcludesettings

Get the exclude region settings

Common exclude region settings for all analytics detections

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
excludeAreaConfiguration	array of objects	
channel*	integer	
enableObjectMeta	boolean	When enabled object metadata would be generated for exclude regions.
excludeAreas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Name of the exclude region
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

2.2 PUT /configuration/analyticsexcludesettings

Update the exclude region settings

Update the common exclude region settings

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enableObjectMeta	boolean	When enabled object metadata would be generated for exclude regions.
excludeAreas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Name of the exclude region
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		

NAME	TYPE	DESCRIPTION
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

2.3 GET /configuration/analyticsexcludesettings/options

Get the exclude region setting options

Provide allowed values of each parameters in analyticsexcludesettings configuration. Ranges of parameters and max supported regions are provided here

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
excludeAreaConfigurationOptions	array of objects	
channel	integer	
excludeAreaOptions	object	
index	object	
min	integer	
max	integer	
areaCoordinates	object	
min	integer	
max	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

2.4 DELETE /configuration/analyticsexcludesettings/excludeareas

Delete exclude area

Delete the excludearea based on requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

3. CAPABILITY

3.1 GET /configuration/getservices

Get Services

Gets the list of services supported, based on request can optionally include the service details for each service.

Common Event

When the app's settings are changed, a setting change event will be delivered in following formats.

ONVIF EVENT / META

TOPIC

tns1:OpenApp/WiseAI/AppSettingChanged

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<AppSettingChanged wstop:topic="true" xmlns:tt="http://www.onvif.org/ver10/schema">
  <tt:MessageDescription IsProperty="true">
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="Path" Type="xsd:string"/>
    </tt>Data>
  </tt:MessageDescription>
</AppSettingChanged>
```

SUNAPI EVENT STATUS

SCHEMABASED

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.AppSettingChanged",
  "Time": "2021-10-27T07:36:14.509+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppEvent": "AppSettingChanged",
    "AppID": "WiseAI",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0"
  },
  "Data": {
    "Path": "/configuration/objectdetection"
  }
}
```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
------	------	---------	-------------

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.
includeDetails	boolean		Optional capability include service details, if set to true response will also have service details.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
appName	string	The app's name
appVersion	string	The app's version
cgiVersion	string	The app's version
manufacturer	string	Manufacturer's name
language	enum	ALLOWED:English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek The app's language
maxChannels	integer	Maximum number of channels supported.
serviceCapabilities	array of objects	List of services supported in the app
channel*	integer	
supportedServices*	array of string	The list of the supported services
serviceDetails	array of objects	
name*	string	service name
id*	string	actual service name as used in base url
baseUrl*	string	base url to access the service
urls	array of objects	
path	string	sub path / api supported in service
methods	array of enum	ALLOWED:get, put, delete, post

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	

NAME	TYPE	DESCRIPTION
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

3.2 GET /configuration/capability

Get configuration capability

Get service level capability for each channel, client can decide which api is supported and for which channel

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
capabilities	array of objects	
channel*	integer	
maxResolution*	object	Max resolution of source image without applying the rotation
width*	integer	
height*	integer	
rotation*	boolean	whether the source image is rotated or not
objectdetection	boolean	
imagetransfer	boolean	
imagetransferTypes	array of string	Image type that can be transmitted through metadata frame
frameMetaType	enum	ALLOWED: NotSupport, Basic, Classification, Detailed * NotSupport : no object tags in metadata frame * Basic : metadata frame contains object information * Classification : Provides class type information of objects such as Vehicle, Person. * Detailed : Provides detailed information of object such as color, gender.
ivaarea	boolean	
linecrossing	boolean	

NAME	TYPE	DESCRIPTION
socialdistancing	boolean	
facemaskdetection	boolean	
slipAndFallDetection	boolean	
stoppedvehicledetection	boolean	
trafficjamdetection	boolean	
queuemanagement	boolean	
heatmap	boolean	
crowdcounting	boolean	
wisedetector	boolean	capability to inform if wisedetector is supported or not, if supported custom object detection is possible.
wisedetectorMaxModels	integer	Max count of the wisedetector model data supported for a channel. Only if wisedetector feature is supported.
objectcounting	boolean	
objectcountingTypes	array of string	ObjectTypes Supported for counting, eg Vehicle, Person
dataserver	boolean	
aiSettings	boolean	

EXAMPLE 1:

Successful operation

```
{
  "capabilities": [
    {
      "channel": 0,
      "aiSettings": true,
      "crowdcounting": true,
      "dataserver": false,
      "facemaskdetection": true,
      "frameMetaType": "Detailed",
      "heatmap": true,
      "imagetransfer": true,
      "imagetransferTypes": [
        "Object"
      ],
      "ivaarea": true,
      "linecrossing": true,
      "maxResolution": {
        "height": 1080,
        "width": 1920
      },
      "objectcounting": true,
      "objectcountingTypes": [
        "Person",
        "Vehicle"
      ],
      "objectdetection": true,
      "queuemanagement": true,
      "rotation": false,
      "slipAndFallDetection": true,
      "socialdistancing": true,
      "stoppedvehicledetection": false,
      "trafficjamdetection": false,
      "wisedetector": true,
      "wisedetectorMaxModels": 2
    }
  ]
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

3.3 GET /search/capability

Get search capability

Gets the service capability, client can decide which api is supported and for which channel

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
systemlog	boolean	capability to check if systemlog search is supported
systemlogTypes	array of string	Supported log types in the system log, when systemlog search feature is supported.
utcTimeSearch	boolean	capability to inform UTC Time based search is supported.
localTimeSearch	boolean	capability to inform LocalTime based search is supported.
capabilities	array of objects	
channel	integer	
eventlog	boolean	capability to check if eventlog search is supported
eventlogTypes	array of string	Supported log types in the event log, when eventlog search feature is supported.

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		

NAME	TYPE	DESCRIPTION
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

4. COMMON ANALYTICS SETTINGS

4.1 GET /configuration/commonanalyticssettings

Get common analytics settings

To get the current common settings configured for analytics

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
commonSetup	array of objects	
channel*	integer	
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.
minimumObjectSize	object	
width*	integer	between 0 and 99 Normalized width
height*	integer	between 0 and 99 Normalized height
maximumObjectSize	object	
width*	integer	between 0 and 99 Normalized width
height*	integer	between 0 and 99 Normalized height
minimumObjectSizeInPixels	object	
width*	integer	width based on max resolution (Without applying rotation)
height*	integer	height based on max resolution (Without applying rotation)
maximumObjectSizeInPixels	object	
width*	integer	width based on max resolution (Without applying rotation)
height*	integer	height based on max resolution (Without applying rotation)

EXAMPLE 1:

Common analytics settings response

```
{
  "commonSetup": [
    {
      "channel": 0,
```

```

    "sensitivity": 5,
    "minimumObjectSize": {
      "width": 0,
      "height": 0
    },
    "maximumObjectSize": {
      "width": 99,
      "height": 99
    },
    "minimumObjectSizeInPixels": {
      "width": 0,
      "height": 0
    },
    "maximumObjectSizeInPixels": {
      "width": 1920,
      "height": 1080
    }
  },
  {
    "channel": 1,
    "sensitivity": 5,
    "minimumObjectSize": {
      "width": 0,
      "height": 0
    },
    "maximumObjectSize": {
      "width": 99,
      "height": 99
    },
    "minimumObjectSizeInPixels": {
      "width": 0,
      "height": 0
    },
    "maximumObjectSizeInPixels": {
      "width": 1920,
      "height": 1080
    }
  }
]
}

```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

4.2 PUT /configuration/commonanalyticssettings

Set common analytics settings
Configures the common analytics settings

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.
minimumObjectSize	object	
width*	integer	between 0 and 99 Normalized width
height*	integer	between 0 and 99 Normalized height
maximumObjectSize	object	
width*	integer	between 0 and 99 Normalized width
height*	integer	between 0 and 99 Normalized height
minimumObjectSizeInPixels	object	
width*	integer	width based on max resolution (Without applying rotation)
height*	integer	height based on max resolution (Without applying rotation)
maximumObjectSizeInPixels	object	
width*	integer	width based on max resolution (Without applying rotation)
height*	integer	height based on max resolution (Without applying rotation)

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		

NAME	TYPE	DESCRIPTION
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

4.3 GET /configuration/commonanalyticssettings/options

Get common analytics settings

Provide allowed values of each parameters in commonanalyticssettings configuration. Ranges of parameters and max supported regions are provided here

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
commonSetupOptions	array of objects	
channel	integer	
minimumObjectSizeInPixels	object	
width*	integer	width based on max resolution (Without applying rotation)
height*	integer	height based on max resolution (Without applying rotation)
maximumObjectSizeInPixels	object	
width*	integer	width based on max resolution (Without applying rotation)
height*	integer	height based on max resolution (Without applying rotation)

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

5. CROWD COUNTING

5.1 GET /configuration/crowdcounting

Get CrowdCounting configuration

Gets the crowdcounting configuration, support only if crowdcounting capability is set to true.

CrowdCountChanged Event

The CrowdCountChanged event is generated only in JSON schema format, this event occurs only when the Count value is changed.

"Count" data in ONVIF/SUNAPI event is counted over 1 second, not cumulative value.

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/CrowdCountChanged

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<CrowdCountChanged wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSource" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="Count" Type="xsd:integer"/>
    </tt>Data>
  </tt:MessageDescription>
</CrowdCountChanged>
```

SUNAPI EVENT STATUS

SCHEMABASED

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.CrowdCountChanged",
  "Time": "2023-03-15T02:58:52.820+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "CrowdCountChanged",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "rulename"
  },
  "Data": {
    "Count": 3
  }
}
```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: CrowdCounting configuration

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
crowdcountingConfigurations	array of objects	
channel*	integer	
enable	boolean	
areas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Area Name
enable	boolean	
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

5.2 PUT /configuration/crowdcounting

Set CrowdCounting configuration

Configures the CrowdCounting settings. For the supported values refer to crowdcounting/options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
areas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Area Name
enable	boolean	
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

5.3 GET /configuration/crowdcounting/options

Get crowd counting options

Provides the supported values and ranges for the CrowdCounting configuration.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
crowdcountingConfigurationOptions	array of objects	
channel	integer	
areaOptions	object	
index	object	
min	integer	
max	integer	
areaCoordinates	object	
min	integer	
max	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

5.4 DELETE /configuration/crowdcounting/areas

Delete area in crowdcounting rule

Delete an area based on requested area index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

5.5 GET /search/crowdcounting/check

Check the current crowd count

Getting the live crowd counting data

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.
index	int32 >=1		Optional counting rule index to filter the result for the specified counting rule.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
crowdCountingLive	array of objects	
channel	integer	
countingRules	array of objects	
index	integer	>=1
count	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
```

```
"error": {  
  "code": 607,  
  "details": "Unknown Error"  
}  
}
```

6. DATA SERVER

6.1 GET /configuration/dataserver

Get dataserver configurations

To get the dataserver configuration. Data server configuration to which app connects, a device that indicates capability of dataserver in getcapability command shall support this command.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
ipAddress	string	
port	integer	between 1 and 65535
id	string	1 to 15 chars
password	string	4 to 31 chars Plain text password
encryptedPassword	string	min:1 chars Encrypted password, this parameter must be used instead of 'password' if isPasswordEncrypted is requested as true in the query parameter
storeName	string	1 to 20 chars

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

6.2 PUT /configuration/dataserver

Set dataserver configurations

To set the dataServer configuration. Configures the datasever settting, a device that indicates capability of dataserver in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
isPasswordEncrypted	boolean		Optional parameter, when passed as true the password field is encrypted using the RSA Public Key, If not passed it would be considered as plain text password.

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
ipAddress	string	
port	integer	between 1 and 65535
id	string	1 to 15 chars
password	string	4 to 31 chars Plain text password
encryptedPassword	string	min:1 chars Encrypted password, this parameter must be used instead of 'password' if isPasswordEncrypted is requested as true in the query parameter
storeName	string	1 to 20 chars

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	

NAME	TYPE	DESCRIPTION
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

6.3 GET /configuration/dataserver/test

Test dataserver connection

To test the dataserver connection status. Data server connection status, a device that indicates capability of dataserver in getcapability command shall support this command.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
connectionState*	enum	ALLOWED:Failed, Connecting, Success

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

7. DATE/TIME

7.1 GET /configuration/date

Get system date/time information

The date and time information are provided in both local time and UTC time.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: System date/time information

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
localTime	string	
utcTime	string	
dstEnable	boolean	
timezone	string	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

8. FACEMASK DETECTION

8.1 GET /configuration/facemaskdetection

Get facemask detection configurations

gets the face mask detection settings that is configured. Can check if this feature is supported from the configuration/capability response.

MaskDetection Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/MaskDetection

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<MaskDetection wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
      <tt:SimpleItemDescription Name="ObjectId" Type="xsd:integer"/>
    </tt>Data>
  </tt:MessageDescription>
</MaskDetection>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.MaskDetection=True
Channel.0.OpenSDK.WiseAI.MaskDetection.1=True
```

SCHEMABASED

TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.MaskDetection=True
Channel.0.OpenSDK.WiseAI.MaskDetection.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.MaskDetection.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.MaskDetection.1.State=True
Channel.0.OpenSDK.WiseAI.MaskDetection.1.ObjectId=1
```

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.MaskDetection",
  "Time": "2022-03-15T02:58:52.820+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "MaskDetection",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
```

```

    "RuleName": "rulename"
  },
  "Data": {
    "State": true
    "ObjectId": 1
  }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
faceMaskDetection	array of objects	
channel	integer	
enable	boolean	
detectionMode	enum	ALLOWED:Mask, NoMask
duration	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

8.2 PUT /configuration/facemaskdetection

Update face mask detection configurations

Configures the face mask detection settings, for supported values and ranges refer to facemaskdeteciton/options

response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel	integer	
enable	boolean	
detectionMode	enum	ALLOWED:Mask, NoMask
duration	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

8.3 GET /configuration/facemaskdetection/options

Get facemask detection options

Supported values and ranges required for configuring face mask detection is provided in response.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
faceMaskDetectionOptions	array of objects	
channel	integer	
detectionMode	array of string	
duration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```


}
}

9. HEATMAP

9.1 GET /configuration/heatmap

Get heatmap configuration

Get the heatmap configuration, supported only if heatmap capability is set to true.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: heatmap configuration

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
heatmapConfigurations	array of objects	
channel*	integer	
enable	boolean	
backgroundColorMode	string	
enableManualReferenceMode	boolean	
autoReference	integer	READ-ONLY
manualReference	integer	
excludeAreas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Name of the exclude region
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	

NAME	TYPE	DESCRIPTION
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

9.2 PUT /configuration/heatmap

Update heatmap configuration

Configures the heatmap settings. For the supported values refer to heatmap/options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
backgroundColorMode	string	
enableManualReferenceMode	boolean	
autoReference	integer	READ-ONLY
manualReference	integer	
excludeAreas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Name of the exclude region
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	

NAME	TYPE	DESCRIPTION
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 405: Validation exception

9.3 GET /configuration/heatmap/options

Get heatmap options

Provides the supported values and ranges for the heatmap configuration.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
heatmapConfigurationOptions	array of objects	
channel	integer	

NAME	TYPE	DESCRIPTION
backgroundColorModes	array of string	Supported backgroundColor modes
manualReference	object	
min	integer	
max	integer	
excludeAreaOptions	object	
index	object	
min	integer	
max	integer	
areaCoordinates	object	
min	integer	
max	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

9.4 DELETE /configuration/heatmap/excludeareas

Delete heatmap exclude area

Delete the excludearea based on the requested exclude area index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

9.5 GET /configuration/heatmap/report

Get heatmap reporting configuraiton

Provides the reporting configuration of heatmap

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
reportingConfigurations	array of objects	
channel*	integer	
reportingRules	array of objects	
index	integer	>=1 rule index
reportEnable	boolean	
reportFileName	string	1 to 63 chars
reportFileType	string	
reportingSchedule	object	
scheduleType	string	
weekDay	enum	ALLOWED:SUN, MON, TUE, WED, THU, FRI, SAT
hour	integer	between 0 and 23
minute	integer	between 0 and 59

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

9.6 PUT /configuration/heatmap/report

Set heatmap reporting configuration

Configures the heatmap reporting configuration, for supported values refer to heatmap/report/options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
reportingRules	array of objects	

NAME	TYPE	DESCRIPTION
index	integer	>=1 rule index
reportEnable	boolean	
reportFileName	string	1 to 63 chars
reportFileType	string	
reportingSchedule	object	
scheduleType	string	
weekDay	enum	ALLOWED:SUN, MON, TUE, WED, THU, FRI, SAT
hour	integer	between 0 and 23
minute	integer	between 0 and 59

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

9.7 GET /configuration/heatmap/report/options

Get heatmap reporting options

Provides the supported values and ranges for the heatmap reporting configuration.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
reportingConfigurationOptions	array of objects	
channel	integer	
ruleReportingOptions	object	
index	object	
min	integer	
max	integer	
reportFileTypes	array of string	supported report file types (file type extension)
reportingScheduleOptions	object	
scheduleTypes	array of string	supported scheduleTypes like weekly, daily etc.,
weekDays	array of string	
hour	object	
min	integer	
max	integer	
minute	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

9.8 DELETE /configuration/heatmap/data

Delete stored heatmap data

Clears the heatmap that is stored.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

9.9 GET /search/heatmap

Initiate heatmap search

Initiate the heatmap search based on search time duration and returns a search token

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer		Required channel parameter, operation is applicable only for the specified channel.
*fromDate	date-time		To filter results after the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
*toDate	date-time		To filter results till the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
resultImageType	enum ALLOWED: WithBackground, WithoutBackground	WithBackground	Result Image type selection, if not passed WithBackground will be selected.

RESPONSE

STATUS CODE - 200: Search Response

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
searchToken*	string	Whether the request was successful

EXAMPLE:

```
{
  "searchToken": "SearchToken-122212"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

9.10 GET /search/heatmap/{searchToken}

Check the status of search

Search token can be used to check if the search status is complete.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: Search status response

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
status*	enum	ALLOWED:Completed, NotCompleted, Failed Whether the request was successful
errorDescription	string	Description of error when search failed

EXAMPLE 1:

When the search has completed

```
{
  "status": "Completed"
}
```

EXAMPLE 2:

When the search is not completed yet

```
{
  "status": "NotCompleted"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

9.11 PUT /search/heatmap/{searchToken}/cancel

Cancel Search Session

Client can cancel an initiated search session using this method. Should pass a valid search token to cancel.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
```

```

    "response": "Success"
  }

```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

9.12 GET /search/heatmap/{searchToken}/results

Get the search results

Once the search is complete, using the search token heatmap image can be downloaded.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: successful operation, heatmap image is returned.

RESPONSE MODEL - image/png

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

9.13 GET /search/heatmap/check

Check the current heatmap levels

Getting the live heatmap levels

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
heatmap	array of objects	
channel	integer	
level	array of integer	matrix values area provided as linear array row wise
resolution	object	
width*	integer	
height*	integer	
descriptor	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

}
}

10. IVA AREA

10.1 GET /configuration/ivaarea

Get IVA area configurations

Get the area based analytics configurations.

Area based analytics configurations, a device that indicates capability of ivaarea in getcapability command shall support this command.

When this ivaarea feature is enabled event will be delivered following below schema format.

ONVIF EVENT / META

SCHEMA Topic:

tns1:OpenApp/WiseAI/IvaArea

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<IvaArea wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
      <tt:SimpleItemDescription Name="ObjectId" Type="tt:StringList"/>
      <tt:SimpleItemDescription Name="Action" Type="tt:StringList"/>
    </tt>Data>
  </tt:MessageDescription>
</IvaArea>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.IvaArea=True

SCHEMABASED

TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.IvaArea=True
Channel.0.OpenSDK.WiseAI.IvaArea.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.IvaArea.1.RuleName=Rule1
Channel.0.OpenSDK.WiseAI.IvaArea.1.State=True
Channel.0.OpenSDK.WiseAI.IvaArea.1.ObjectId=1
Channel.0.OpenSDK.WiseAI.IvaArea.1.Action=Intrusion
Channel.0.OpenSDK.WiseAI.IvaArea.2.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.IvaArea.2.RuleName=Rule2
Channel.0.OpenSDK.WiseAI.IvaArea.2.State=True
Channel.0.OpenSDK.WiseAI.IvaArea.2.ObjectId=2
Channel.0.OpenSDK.WiseAI.IvaArea.2.Action=Enter
```

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.IvaArea",
  "Time": "2021-10-27T07:36:14.509+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
```

```

    "AppID": "WiseAI",
    "AppEvent": "IvaArea",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "Rule1",
  },
  "Data": {
    "State": true,
    "ObjectId": "1",
    "Action": "Enter"
  }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
ivaArea*	array of objects	
channel*	integer	
enable	boolean	
definedArea	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
detectionModes	array of string	can be used to set detection types Enter,Exit, Loitering, based on the values provided in ivaarea/options response.
appearanceDuration	integer	duration in secs refer to corresponding options for valid range.
intrusionDuration	integer	duration in secs refer to corresponding options for valid range.
loiteringDuration	integer	duration in secs refer to corresponding options for valid range.
objectTypeFilter	array of string	optional object type filter, when set the rule will be active only for the configured object types

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

10.2 PUT /configuration/ivaarea

Update IVA area configurations

Update or enable area based analytics configuration. Area based analytics configurations, a device that indicates capability of ivaarea in getcapability command shall support this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
definedArea	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
detectionModes	array of string	can be used to set detection types Enter,Exit, Loitering, based on the values provided in ivaarea/options response.
appearanceDuration	integer	duration in secs refer to corresponding options for valid range.
intrusionDuration	integer	duration in secs refer to corresponding options for valid range.
loiteringDuration	integer	duration in secs refer to corresponding options for valid range.
objectTypeFilter	array of string	optional object type filter, when set the rule will be active only for the configured object types

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

10.3 GET /configuration/ivaarea/options

Get IVA area options

Provide allowed values of each parameters in area based analytics configuration. Ranges of parameters in area based analytcis configuration, a device that indicates capability of ivaarea in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
ivaAreaOptions*	array of objects	
channel*	integer	
definedAreaOptions	object	
detectionModes	array of string	Specifies the list of detection modes like, Enter, Exit, Loitering
index	object	
min	integer	
max	integer	
areaCoordinates	object	
min	integer	
max	integer	
appearanceDuration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	
intrusionDuration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	
loiteringDuration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	

NAME	TYPE	DESCRIPTION
objectTypeFilter	array of string	Specifies the list of supported objectTypes like, Face, Person, LicensePlate, Vehicle

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

10.4 DELETE /configuration/ivaarea/definedarea

Delete IVA defined area

Delete the area for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

11. IMAGE TRANSFER

11.1 GET /configuration/imagetransfer

Get imagetransfer configurations

To get the list of object types for which imagetransfer is supported. Only for provided object type, meta image sending would be supported, a device that indicates capability of imagetransfer in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with object types configured for image transfer.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
imageTransfer*	array of objects	
channel*	integer	
enable	boolean	
objectTypes	array of string	List of objectTypes to be detected, supported list is provided in options. Eg, Face, Vehicle, Person etc.,
imageQuality	integer	between 1 and 100 Parameter to control the quality of image, 100 refers to highest quality image.

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```


}

11.2 PUT /configuration/imagetransfer

Update imagetransfer configurations

To set the list of object types for which imagetransfer is required. Only for provided object type, image sending would be supported. A device that indicates capability of imagetransfer in getcapability command shall support this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
objectTypes	array of string	List of objectTypes to be detected, supported list is provided in options. Eg, Face, Vehicle, Person etc.,
imageQuality	integer	between 1 and 100 Parameter to control the quality of image, 100 refers to highest quality image.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
```

```

    "response": "Fail",
    "error": {
      "code": 607,
      "details": "Unknown Error"
    }
  }
}

```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

11.3 GET /configuration/imagetransfer/options

Get image transfer options

To provide the supported object types for which image transfer is possible. ObjectTypes signalled here can be used in imagetransfer api, a device that indicates capability of imagetransfer in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with all object types for which imagetransfer is possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
imageTransferOptions*	array of objects	
channel*	integer	
objectTypes	array of string	List of objectTypes supported. Eg, Face, Vehicle, Person etc.,

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```


12. LINE CROSSING

12.1 GET /configuration/linecrossing

Get line crossing configurations

Get the line based analytics configurations.

Line based analytics configurations, a device that indicates capability of linecrossing in getcapability command shall support this command.

When linecrossing feature is enabled event will be delivered following below schema format.

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/LineCrossing

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<LineCrossing wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
      <tt:SimpleItemDescription Name="ObjectId" Type="tt:StringList"/>
      <tt:SimpleItemDescription Name="Action" Type="tt:StringList"/>
    </tt>Data>
  </tt:MessageDescription>
</LineCrossing>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.LineCrossing=True

SCHEMABASED

TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.LineCrossing=True
Channel.0.OpenSDK.WiseAI.LineCrossing.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.LineCrossing.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.LineCrossing.1.State=1
Channel.0.OpenSDK.WiseAI.LineCrossing.1.ObjectId=1
Channel.0.OpenSDK.WiseAI.LineCrossing.1.Action=Left

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.LineCrossing",
  "Time": "2021-10-27T07:36:14.509+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "LineCrossing",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
```

```

    "RuleName": "RuleName1",
  },
  "Data": {
    "State": true,
    "ObjectId": "1"
  }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
lineCrossing*	array of objects	
channel*	integer	
enable	boolean	
line	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
lineCoordinates	array of objects	Line coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
mode	enum	ALLOWED:Off, Left, Right, BothDirections
objectTypeFilter	array of string	optional object type filter, when set the rule will be active only for the configured object types

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

12.2 PUT /configuration/linecrossing

Update line crossing configurations

Update or enable line based analytics configuration. Line based analytics configurations, a device that indicates capability of linecrossing in getcapability command shall support this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
line	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
lineCoordinates	array of objects	Line coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
mode	enum	ALLOWED:Off, Left, Right, BothDirections
objectTypeFilter	array of string	optional object type filter, when set the rule will be active only for the configured object types

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

12.3 GET /configuration/linecrossing/options

Get line crossing options

Provide allowed values of each parameters in line based analytics configuration. Ranges of parameters in line based analytcis configuration, a device that indicates capability of linecrossing in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
lineCrossingOptions*	array of objects	
channel	integer	
lineOptions	object	
index	object	
min	integer	
max	integer	

NAME	TYPE	DESCRIPTION
lineCoordinates	object	
min	integer	
max	integer	
mode	array of string	Specifies the list of supported line based analytcs like, Off, Left, Right, BothDirections
objectTypeFilter	array of string	Specifies the list of supported objectTypes like, Person, Vehicle

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

12.4 DELETE /configuration/linecrossing/line

Delete linecrossing line

Delete the lines based on requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful

NAME	TYPE	DESCRIPTION
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

13. LOG

13.1 GET /search/eventlog

Get event log

To get the eventlog of all the events, filtering is possible based on time range and eventtype. A device that indicates capability of eventlog in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.
type	array of string		Optional type parameter to pass the event types to be filtered, refer to capability eventLogTypes field for the supported values.
fromDate	date-time		Optional parameter, to filter results after the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
toDate	date-time		Optional parameter, to filter results till the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
eventLogDatas*	array of objects	
channel*	integer	
logs*	array of objects	
date*	string	Datetime information, example format 2021-07-28T04:40:16Z, if UTC time requested response provided in UTC format.
type*	string	Log type information.
description*	string	Additional information regarding the log

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	

NAME	TYPE	DESCRIPTION
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

13.2 GET /search/systemlog

Get system log

To get the system log, filtering is possible based on time range and logtype. A device that indicates capability of systemlog in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
type	array of string		Optional type parameter to pass the system log type to be filtered, refer to capability systemLogTypes field for the supported values.
fromDate	date-time		Optional parameter, to filter results after the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
toDate	date-time		Optional parameter, to filter results till the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
logs*	array of objects	
date*	string	Datetime information, example format 2021-07-28T04:40:16Z, if UTC time requested response provided in UTC format.
type*	string	Log type information.
description*	string	Additional information regarding the log

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	

NAME	TYPE	DESCRIPTION
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

14. META TRANSFER

14.1 GET /configuration/metatransfer

Get meta transfer configurations

To get list of object types that provide meta transfer. Only for provided object type, frame metadata with detail attribute would be send, Indicates that the device will support this command if the getcapability command specifies that the Metadata is "Detailed".

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with object types configured for the metatransfer.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
metaTransfer*	array of objects	
channel*	integer	
enable	boolean	
objectTypes	array of string	List of objectTypes to be send detail metadata attributes, supported list is provided in options. Eg, Face, Vehicle, Person etc.,

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

14.2 PUT /configuration/metatransfer

Update metatransfer configurations

To set the list of object types for which detail metatransfer is required. Only for provided object type, frame metadata with detail attribute would be send, Indicates that the device will support this command if the getcapability command specifies that the Metadata is "Detailed".

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
objectTypes	array of string	List of objectTypes to be send detail metadata attributes, supported list is provided in options. Eg, Face, Vehicle, Person etc.,

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

14.3 GET /configuration/metatransfer/options

Get metatransfer options

To provide the supported attribute types for which meta attribute transfer is possible. ObjectTypes signalled here can be used in metatransfer api. Indicates that the device will support this command if the getcapability command specifies that the Metadata is "Detailed".

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with all object types for which metatransfer is possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
metaTransferOptions*	array of objects	
channel*	integer	
objectTypes	array of string	List of objectTypes supported. Eg, Face, Vehicle, Person etc.,

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15. OBJECT COUNTING

15.1 GET /configuration/objectcounting

Get ObjectCounting configuration

Generic object counting configuration, that can be used for counting objects that crosses the configured lines. For supported objecttypes you can refer to objectcounting/options command response.

Event Description

The ObjectCounting event is generated only in JSON schema format, this event occurs only when the Count value is changed.

Currently only "Punctual" ReportType is supported, but it may be extended to other ReportTypes such as "Summary" in the future.

"Count" data in ONVIF/SUNAPI event is counted over 1 second, not cumulative value.

Also, if you want to know the counting result for a specific period, check the contents of "search/objectcounting"

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/ObjectCounting

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<ObjectCounting wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSource" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="CountingRuleIndex" Type="xsd:integer"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="ReportType" Type="xsd:string"/>
      <tt:SimpleItemDescription Name="ObjectType" Type="xsd:string"/>
      <tt:SimpleItemDescription Name="Direction" Type="xsd:string"/>
      <tt:SimpleItemDescription Name="Count" Type="xsd:integer"/>
    </tt>Data>
  </tt:MessageDescription>
</ObjectCounting>
```

SUNAPI EVENT STATUS

SCHEMABASED

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.ObjectCounting",
  "Time": "2022-03-15T02:58:52.820+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "ObjectCounting",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "CountingRuleIndex": 1,
  }
}
```



```

    "RuleName": "rulename"
  },
  "Data": {
    "ReportType": "Punctual",
    "ObjectType": "Vehicle",
    "Direction": "IN",
    "Count": 3
  }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: objectcounting configuration

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
objectCountingConfiguration	array of objects	
channel*	integer	
countingRules	array of objects	
index	integer	>=1
enable	boolean	
objectType	string	check options command for supported objectTypes
lines	array of objects	
index	integer	>=1
name	string	1 to 45 chars
mode	enum	ALLOWED:LeftToRightIn, RightToLeftIn
lineCoordinates	array of objects	Line coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
excludeAreas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Name of the exclude region
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.

NAME	TYPE	DESCRIPTION
x*	integer	
y*	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.2 PUT /configuration/objectcounting

Set ObjectCounting configuration

Configure the generic objectcounting rule, can be used to count objecttypes provided in the objectcounting/options.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
countingRules	array of objects	
index	integer	>=1
enable	boolean	
objectType	string	check options command for supported objectTypes
lines	array of objects	
index	integer	>=1
name	string	1 to 45 chars
mode	enum	ALLOWED:LeftToRightIn, RightToLeftIn
lineCoordinates	array of objects	Line coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
excludeAreas	array of objects	

NAME	TYPE	DESCRIPTION
index*	integer	>=1
name	string	1 to 63 chars Name of the exclude region
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

15.3 GET /configuration/objectcounting/options

Get ObjectCounting options

Provides the values supported in objectcounting rule

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
objectCountingConfigurationOptions	array of objects	
channel	integer	
countingRuleOptions	object	
index	object	
min	integer	
max	integer	
objectTypes	array of string	Object types supported by counting rule, example Person. Vehicle etc., (Multiple rules cannot be configured with same object type)
vehicleTypes	array of string	Vehicle types supported by counting rule, example Car, Bus, Truck, Motorcycle, Bicycle etc., (If objectTypes contains a Vehicle, supported vehicle type items)
lineOptions	object	
index	object	
min	integer	
max	integer	
lineCoordinates	object	
min	integer	
max	integer	
mode	array of string	Mode of movement direction to be counted
excludeAreaOptions	object	
index	object	
min	integer	
max	integer	
areaCoordinates	object	
min	integer	
max	integer	

NAME	TYPE	DESCRIPTION
indexBasedLimits	array of objects	The limitations of the rule by index
index	integer	>=1
objectTypes	array of string	Object types supported by counting rule

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.4 DELETE /configuration/objectcounting/countingrules/lines

Delete counting rule line

Delete the line based on requested counting rule index and line index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer		Required channel parameter, operation is applicable only for the specified channel.
*countingruleindex	integer >=1		counting rule index in which the line has to be deleted
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful

NAME	TYPE	DESCRIPTION
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

15.5 DELETE /configuration/objectcounting/countingrules/excludeareas

Delete counting rule exclude area

Delete the excludearea based on the requested counting rule index and exclude area index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer		Required channel parameter, operation is applicable only for the specified channel.
countingruleindex	integer >=1		Optional counting rule index in which the exclude area has to be deleted
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

15.6 GET /configuration/objectcounting/report

Get ObjectCounting reporting configuraiton

Provides the reporting configuration of ObjectingCounting

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
reportingConfigurations	array of objects	
channel*	integer	
countingRules	array of objects	
index	integer	>=1 counting rule index
reportEnable	boolean	
reportFileName	string	1 to 45 chars
reportFileType	string	
reportingSchedule	object	
scheduleType	string	
weekDay	enum	ALLOWED:SUN, MON, TUE, WED, THU, FRI, SAT
hour	integer	between 0 and 23
minute	integer	between 0 and 59

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.7 PUT /configuration/objectcounting/report

Set ObjectCounting reporting configuration

Configures the ObjectCounting reporting configuration, for supported values refer to objectcounting/report/options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
countingRules	array of objects	
index	integer	>=1

NAME	TYPE	DESCRIPTION
		counting rule index
reportEnable	boolean	
reportFileName	string	1 to 45 chars
reportFileType	string	
reportingSchedule	object	
scheduleType	string	
weekDay	enum	ALLOWED:SUN, MON, TUE, WED, THU, FRI, SAT
hour	integer	between 0 and 23
minute	integer	between 0 and 59

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

15.8 GET /configuration/objectcounting/report/options

Get object counting reporting options

Provides the supported values and ranges for the objectcounting reporting configuration.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
reportingConfigurationOptions	array of objects	
channel	integer	
countingRuleReportingOptions	object	
index	object	
min	integer	
max	integer	
reportFileTypes	array of string	supported report file types (file type extension)
reportingScheduleOptions	object	
scheduleTypes	array of string	supported scheduleTypes like weekly, daily etc.,
weekDays	array of string	
hour	object	
min	integer	
max	integer	
minute	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.9 DELETE /configuration/objectcounting/data

Delete stored counting data

Clears the counting data that is stored.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.
index	array of integer		Optional parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

15.10 GET /search/objectcounting

Initiate objectcounting search

Initiate the objectcounting search based on search time duration and returns a search token

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer		Required channel parameter, operation is applicable only for the specified channel.
*fromDate	date-time		To filter results after the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
*toDate	date-time		To filter results till the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
index	int32 >=1		Optional counting rule index to filter the result for the specified counting rule.

RESPONSE

STATUS CODE - 200: Search Response

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
searchToken*	string	Whether the request was successful

EXAMPLE:

```
{
  "searchToken": "SearchToken-122212"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.11 GET /search/objectcounting/{searchToken}

Check the status of objectcounting search

Search token can be used to check if the search status is complete.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: Search status response

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
status*	enum	ALLOWED:Completed, NotCompleted, Failed Whether the request was successful
errorDescription	string	Description of error when search failed

EXAMPLE 1:

When the search has completed

```
{
  "status": "Completed"
}
```

EXAMPLE 2:

When the search is not completed yet

```
{
  "status": "NotCompleted"
}
```

}

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.12 PUT /search/objectcounting/{searchToken}/cancel

Cancel objectcounting Search Session

Client can cancel an initiated search session using this method. Should pass a valid search token to cancel.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.13 GET /search/objectcounting/{searchToken}/results

Get the search results

Once the search is complete, using the search token objectcounting results can be retrieved.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
includeAIData	boolean		Optional field to request AI data in the result

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
resultInterval	enum	ALLOWED:Hourly, Daily, Monthly
countingRules	array of objects	
index*	integer	>=1
lineBasedResults*	array of objects	
index*	integer	>=1
directionBasedResult*	array of objects	
direction*	enum	ALLOWED:IN, OUT
result*	array of integer	

NAME	TYPE	DESCRIPTION
genderAgeInfo	array of objects	
gender*	enum	ALLOWED:Male, Female, Unknown
age*	array of objects	
ageType*	enum	ALLOWED:Young, Adult, Middle, Senior, Unknown
result*	array of integer	
vehicleInfo	array of objects	
vehicleType*	enum	ALLOWED:Bicycle, Motorcycle, Car, Bus, Truck
result*	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

15.14 GET /search/objectcounting/check

Check the current object count
Getting the live object counting data

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.
index	int32 >=1		Optional counting rule index to get the result for the specified counting rule. If index is not specified, index is specified as 1.
includeAIData	boolean		Optional field to request AI data in the result

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
objectCountingLive	array of objects	
channel	integer	
countingRules	array of objects	
index	integer	>=1
lines	array of objects	
index*	integer	>=1
directionBasedResult*	array of objects	
direction*	enum	ALLOWED:IN, OUT
count*	integer	
genderAgeInfo	array of objects	
gender*	enum	ALLOWED:Male, Female, Unknown
age*	array of objects	
ageType*	enum	ALLOWED:Young, Adult, Middle, Senior, Unknown
count*	integer	
vehicleInfo	array of objects	
vehicleType*	enum	ALLOWED:Bicycle, Motorcycle, Car, Bus, Truck
count*	integer	

EXAMPLE 1:

ObjectCounting response when the counting rule is configured for Vehicle.

```
{
  "objectCountingLive": [
    {
      "channel": 0,
      "countingRules": [
        {
          "index": 1,
          "lines": [
            {
              "index": 1,
              "directionBasedResult": [
                {
                  "direction": "IN",
                  "count": 0,
                  "vehicleInfo": [
                    {
                      "vehicleType": "Bicycle",
                      "count": 0
                    },
                    {
                      "vehicleType": "Motorcycle",
                      "count": 0
                    },
                    {
                      "vehicleType": "Car",

```



```

    },
    {
      "ageType": "Adult",
      "count": 0
    },
    {
      "ageType": "Middle",
      "count": 0
    },
    {
      "ageType": "Senior",
      "count": 0
    }
  ]
},
{
  "gender": "Female",
  "age": [
    {
      "ageType": "Young",
      "count": 0
    },
    {
      "ageType": "Adult",
      "count": 0
    },
    {
      "ageType": "Middle",
      "count": 0
    },
    {
      "ageType": "Senior",
      "count": 0
    }
  ]
},
{
  "gender": "Unknown",
  "age": [
    {
      "ageType": "Unknown",
      "count": 0
    }
  ]
}
],
{
  "direction": "OUT",
  "count": 0,
  "genderAgeInfo": [
    {
      "gender": "Male",
      "age": [
        {
          "ageType": "Young",
          "count": 0
        },
        {
          "ageType": "Adult",
          "count": 0
        },
        {
          "ageType": "Middle",
          "count": 0
        },
        {
          "ageType": "Senior",
          "count": 0
        }
      ]
    }
  ]
},

```

```
{
  "gender": "Female",
  "age": [
    {
      "ageType": "Young",
      "count": 0
    },
    {
      "ageType": "Adult",
      "count": 0
    },
    {
      "ageType": "Middle",
      "count": 0
    },
    {
      "ageType": "Senior",
      "count": 0
    }
  ]
},
{
  "gender": "Unknown",
  "age": [
    {
      "ageType": "Unknown",
      "count": 0
    }
  ]
}
]
}
]
}
]
}
]
}
]
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

16. OBJECT DETECTION

16.1 GET /configuration/objectdetection

Get object detection configurations

Get the object detection event configurations, a device that indicates capability of objectdetection in getcapability command shall support this command.

When this objectdetection feature is enabled event will be delivered in following formats.

ONVIF EVENT / META

TOPIC

tns1:OpenApp/WiseAI/ObjectDetection

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<ObjectDetection wstop:topic="true" xmlns:tt="http://www.onvif.org/ver10/schema">
  <tt:MessageDescription IsProperty="true">
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="ClassTypes" Type="tt:StringList"/>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
    </tt>Data>
  </tt:MessageDescription>
</ObjectDetection>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.ObjectDetection=False

SCHEMABASED

TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.ObjectDetection=True
Channel.0.OpenSDK.WiseAI.ObjectDetection.1.VideoSourceToken=Token1
Channel.0.OpenSDK.WiseAI.ObjectDetection.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.ObjectDetection.1.ClassType=Person Vehicle
Channel.0.OpenSDK.WiseAI.ObjectDetection.1.State=True

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.ObjectDetection",
  "Time": "2021-10-27T07:36:14.509+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppEvent": "ObjectDetection",
    "AppID": "WiseAI",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "Rule1",
  },
  "Data": {
```

```

    "ClassTypes": "Person Vehicle",
    "State": true
  }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
objectDetection*	array of objects	
channel*	integer	
enable	boolean	
duration	integer	Minimum duration for which object is detected before raising event. Valid range is provided in options.
objectTypes	array of string	List of objectTypes to be detected, supported list is provided in options. Eg, Face, Vehicle, Person etc.,

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

16.2 PUT /configuration/objectdetection

Update objectdetection configuration

object detection setting, a device that indicates capability of objectdetection in getcapability command shall support

this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
duration	integer	Minimum duration for which object is detected before raising event. Valid range is provided in options.
objectTypes	array of string	List of objectTypes to be detected, supported list is provided in options. Eg, Face, Vehicle, Person etc.,

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

16.3 GET /configuration/objectdetection/options

Get objectdetection options

Get the object detection event configurations options, a device that indicates capability of objectdetection in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
objectDetectionOptions	array of objects	
channel	integer	
duration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	
objectTypes	array of string	Specifies the list of supported objectTypes like, Face, Person, LicensePlate, Vehicle

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

{


```
"response": "Fail",  
"error": {  
  "code": 607,  
  "details": "Unknown Error"  
}  
}
```

17. QUEUE MANAGEMENT

17.1 GET /configuration/queuemanagement

Get QueueManagement configuration

Gets the queuemanagement configuration, support only if queuemanagement capability is set to true.

QueueMedium Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/QueueMedium

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<QueueMedium wstop:topic="true">
  <tt:MessageDescription IsProperty="true">
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
    </tt>Data>
  </tt:MessageDescription>
</QueueMedium>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.QueueMedium=True

SCHEMABASED

TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.QueueMedium=True
Channel.0.OpenSDK.WiseAI.QueueMedium.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.QueueMedium.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.QueueMedium.1.State=True

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.QueueMedium",
  "Time": "2022-03-15T02:58:52.820+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "QueueMedium",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "rulename"
  },
  "Data": {
    "State": true
  }
}
```

```
}  
}
```

QueueHigh Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/QueueHigh

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>  
<QueueHigh wstop:topic="true">  
  <tt:MessageDescription IsProperty="true">  
    <tt:Source>  
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>  
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>  
    </tt:Source>  
    <tt>Data>  
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>  
    </tt>Data>  
  </tt:MessageDescription>  
</QueueHigh>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.QueueHigh=True

SCHEMABASED

TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.QueueHigh=True
Channel.0.OpenSDK.WiseAI.QueueHigh.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.QueueHigh.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.QueueHigh.1.State=True

JSON RESPONSE

```
{  
  "EventName": "OpenSDK.WiseAI.QueueHigh",  
  "Time": "2022-03-15T02:58:52.820+00:00",  
  "Source": {  
    "Channel": 0,  
    "AppName": "WiseAI",  
    "AppID": "WiseAI",  
    "AppEvent": "QueueHigh",  
    "Type": "Event",  
    "RuleIndex": 1,  
    "VideoSourceToken": "VideoSourceToken-0",  
    "RuleName": "rulename"  
  },  
  "Data": {  
    "State": true  
  }  
}
```

QueueCountChanged Event

The QueueCountChanged event is generated only in JSON schema format, this event occurs only when the Count value is changed.

"Count" data in ONVIF/SUNAPI event is counted over 1 second, not cumulative value.

Also, if you want to know the counting result for a specific period, check the contents of "search/queuemanagement"

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/QueueCountChanged

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<QueueCountChanged wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSource" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="Count" Type="xsd:integer"/>
    </tt>Data>
  </tt:MessageDescription>
</QueueCountChanged>
```

SUNAPI EVENT STATUS

SCHEMABASED

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.QueueCountChanged",
  "Time": "2022-03-15T02:58:52.820+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "QueueCountChanged",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "rulename"
  },
  "Data": {
    "Count": 3
  }
}
```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: queuemanagement configuration

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		

NAME	TYPE	DESCRIPTION
queuemangementConfigurations	array of objects	
channel*	integer	
enable	boolean	
queues	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Queue Name
enable	boolean	
maxCount	integer	
queueAreaCoordinates	array of objects	Queue Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
queueLevelHigh	object	
count	integer	
enableEventNotification	boolean	
duration	integer	
queueLevelMedium	object	
count	integer	
enableEventNotification	boolean	
duration	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

17.2 PUT /configuration/queuemangement

Set QueueManagement configuration

Configures the QueueManagement settings. For the supported values refer to queuemanagement/options response.

- NOTE: The count of queueLevelMedium is automatically set to half of the count value of queueLevelHigh. Therefore, even if you set the count value of queueLevelMedium, that value is ignored.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
queues	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Queue Name
enable	boolean	
maxCount	integer	
queueAreaCoordinates	array of objects	Queue Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	
queueLevelHigh	object	
count	integer	
enableEventNotification	boolean	
duration	integer	
queueLevelMedium	object	
count	integer	
enableEventNotification	boolean	
duration	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

17.3 GET /configuration/queuemanagement/options

Get QueueManagement options

Provides the supported values and ranges for the QueueManagement configuration.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
queuemanagementConfigurationOptions	array of objects	
channel	integer	
queueOptions	object	
index	object	
min	integer	
max	integer	
queueAreaCoordinates	object	

NAME	TYPE	DESCRIPTION
min	integer	
max	integer	
queueMaxCount	object	
min	integer	
max	integer	
queueLevelHighOptions	object	
count	object	
min	integer	
max	integer	
duration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	
queueLevelMediumOptions	object	
count	object	
min	integer	
max	integer	
duration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:


```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

17.4 DELETE /configuration/queuemanagement/queues

Delete queuemanagement rule

Delete an queue area based on requested queue index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel 1	integer		Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Success"
}

```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

17.5 GET /configuration/queuemanagement/report

Get QueueManagement reporting configuraiton

Provides the reporting configuration of queuemanagement

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
reportingConfigurations	array of objects	
channel*	integer	
reportingRules	array of objects	
index	integer	>=1 rule index
reportEnable	boolean	
reportFileName	string	1 to 63 chars
reportFileType	string	
reportingSchedule	object	
scheduleType	string	
weekDay	enum	ALLOWED:SUN, MON, TUE, WED, THU, FRI, SAT
hour	integer	between 0 and 23
minute	integer	between 0 and 59

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	

NAME	TYPE	DESCRIPTION
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

17.6 PUT /configuration/queuemanagement/report

Update QueueManagement reporting configuration

Configures the QueueManagement reporting configuration, for supported values refer to queuemanagement/report/options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
reportingRules	array of objects	
index	integer	>=1 rule index
reportEnable	boolean	
reportFileName	string	1 to 63 chars
reportFileType	string	
reportingSchedule	object	
scheduleType	string	
weekDay	enum	ALLOWED:SUN, MON, TUE, WED, THU, FRI, SAT
hour	integer	between 0 and 23
minute	integer	between 0 and 59

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

17.7 GET /configuration/queuemanagement/report/options

Get QueueManagement reporting options

Provides the supported values and ranges for the QueueManagement reporting configuration.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
reportingConfigurationOptions	array of objects	
channel	integer	
ruleReportingOptions	object	
index	object	
min	integer	

NAME	TYPE	DESCRIPTION
max	integer	
reportFileTypes	array of string	supported report file types (file type extension)
reportingScheduleOptions	object	
scheduleTypes	array of string	supported scheduleTypes like weekly, daily etc.,
weekDays	array of string	
hour	object	
min	integer	
max	integer	
minute	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

17.8 DELETE /configuration/queuemanagement/data

Delete stored QueueManagement data

Clears the QueueManagement that is stored.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

17.9 GET /search/queuemanagement

Initiate queuemanagement search

Initiate the queuemanagement search based on search time duration and returns a search token

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer		Required channel parameter, operation is applicable only for the specified channel.
*fromDate	date-time		To filter results after the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
*toDate	date-time		To filter results till the specified date time, example format 2021-07-28T04:40:16Z, if suffix Z not specified will be considered as local time.
searchParams	object		Advanced result filtering based on queue name

RESPONSE

STATUS CODE - 200: Search Response

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
searchToken*	string	Whether the request was successful

EXAMPLE:

```
{
  "searchToken": "SearchToken-122212"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

17.10 GET /search/queuemanagement/{searchToken}

Check the status of queuemanagement search

Search token can be used to check if the search status is complete.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: Search status response

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
status*	enum	ALLOWED:Completed, NotCompleted, Failed Whether the request was successful
errorDescription	string	Description of error when search failed

EXAMPLE 1:

When the search has completed

```
{
  "status": "Completed"
}
```

EXAMPLE 2:

When the search is not completed yet

```
{
  "status": "NotCompleted"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

17.11 PUT /search/queuemanagement/{searchToken}/cancel

Cancel Queuemanagement Search Session

Client can cancel an initiated search session using this method. Should pass a valid search token to cancel.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

17.12 GET /search/queuemanagement/{searchToken}/results

Get the search results

Once the search is complete, using the search token queuemanagement results can be retrieved.

REQUEST

PATH PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
------	------	---------	-------------

NAME	TYPE	EXAMPLE	DESCRIPTION
*searchToken	string		search token received after initiating search

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
resultInterval	enum	ALLOWED:Hourly, Daily, Monthly
queues	array of objects	
index	integer	
averagePeopleResult	array of integer	
queueLevelHigh	object	
cumulativeTimeResult	array of integer	
queueLevelMedium	object	
cumulativeTimeResult	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

17.13 GET /search/queuemanagement/check

Check the current queue count

Getting the live queue count

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

NAME	TYPE	EXAMPLE	DESCRIPTION
index	array of integer		Optional parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
queueCount	array of objects	
channel	integer	
queues	array of objects	
index	integer	
count	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

18. SECURITY

18.1 GET /configuration/rsa

Get RSA Public Key

RSA Public Key in PKCS1 or X509 Format, this can be used to encrypt password.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
format	enum ALLOWED: PKCS1, X509		Optional format parameter to get the public key in requested format. Default format is PKCS1.

RESPONSE

STATUS CODE - 200: OK

RESPONSE MODEL - text/plain

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

19. SETTINGS

19.1 GET /configuration/settings

Backup app settings

To take configuration backup of the app settings. configuration backup file in binary format.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: configuration backup file as binary content

RESPONSE MODEL - application/octet-stream

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

19.2 POST /configuration/settings

Restore app settings

To restore the app settings. configuration backup file can be sent to app to restore its settings from backup file (as application/octet-stream)

REQUEST

REQUEST BODY - application/octet-stream

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		

NAME	TYPE	DESCRIPTION
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

19.3 DELETE /configuration/settings

Reset app setting to default

Reset application's configuration to default state. This operation will delete current setting and reset the application to default state.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	

NAME	TYPE	DESCRIPTION
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

20. SLIP AND FALL DETECTION

20.1 GET /configuration/slipandfalldetection

Get Slip & fall detection settings

gets the slip and fall detection settings that is configured. Can check if this feature is supported from the configuration/capability response.

SlipAndFallDetection Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/SlipAndFallDetection

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<SlipAndFallDetection wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
      <tt:SimpleItemDescription Name="ObjectId" Type="xsd:integer"/>
    </tt>Data>
  </tt:MessageDescription>
</SlipAndFallDetection>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.SlipAndFallDetection=True
Channel.0.OpenSDK.WiseAI.SlipAndFallDetection.1=True
```

SCHEMABASED

TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.SlipAndFallDetection=True
Channel.0.OpenSDK.WiseAI.SlipAndFallDetection.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.SlipAndFallDetection.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.SlipAndFallDetection.1.State=True
Channel.0.OpenSDK.WiseAI.SlipAndFallDetection.1.ObjectId=1
```

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.SlipAndFallDetection",
  "Time": "2022-03-15T02:58:52.820+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "SlipAndFallDetection",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
```



```

        "RuleName": "rulename"
    },
    "Data": {
        "State": true
        "ObjectId": 1
    }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
slipAndFallDetection	array of objects	
channel	integer	
enable	boolean	
detectionAreas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {

```

```

    "code": 607,
    "details": "Unknown Error"
  }
}

```

20.2 PUT /configuration/slipandfalldetection

Update slip and fall detection setting.

Configures the slip and fall detection settings, for supported values and ranges refer to slipandfalldetection/options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel	integer	
enable	boolean	
detectionAreas	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Success"
}

```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful

NAME	TYPE	DESCRIPTION
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

20.3 DELETE /configuration/slipandfalldetection/areas

Delete stored slip & fall detection areas

Delete the area for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel 1	integer		Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

20.4 GET /configuration/slipandfalldetection/options

Get Slip & fall detection options

Supported values and ranges required for configuring slip and fall detection is provided in response.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
slipAndFallDetectionOptions	array of objects	
channel	integer	
detectionAreaOptions	object	
index	object	
min	integer	
max	integer	
duration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	

NAME	TYPE	DESCRIPTION
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	
areaCoordinates	object	
min	integer	
max	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

21. SOCIAL DISTANCING VIOLATION

21.1 GET /configuration/socialdistancingviolation

Get social distancing violation detection configurations

Gets the social distancing violation detection settings.

SocialDistancingViolation Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/SocialDistancingViolation

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<SocialDistancingViolation wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
      <tt:SimpleItemDescription Name="ObjectId" Type="tt:StringList"/>
    </tt>Data>
  </tt:MessageDescription>
</SocialDistancingViolation>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.SocialDistancingViolation=True
Channel.0.OpenSDK.WiseAI.SocialDistancingViolation.1=True
```

SCHEMABASED

TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.SocialDistancingViolation=True
Channel.0.OpenSDK.WiseAI.SocialDistancingViolation.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.SocialDistancingViolation.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.SocialDistancingViolation.1.State=True
Channel.0.OpenSDK.WiseAI.SocialDistancingViolation.1.ObjectId=1 2 3 4
```

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.SocialDistancingViolation",
  "Time": "2022-03-15T02:58:52.820+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "SocialDistancingViolation",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
```

```

    "RuleName": "rulename"
  },
  "Data": {
    "State": true
    "ObjectId": "1 2 3 4"
  }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
socialDistancingViolation	array of objects	
channel	integer	
enable	boolean	
cameraHeight	number	Camera height from floor (unit depends on distanceUnit setting)
tilt	number	
roll	number	
focalLength	number	
minimumAllowedDistance	number	
duration	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

21.2 PUT /configuration/socialdistancingviolation

Update social distancing violation detection configurations

Configures the social distancing violation detection settings, for supported values and ranges refer to socialdistancingviolation/options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel	integer	
enable	boolean	
cameraHeight	number	Camera height from floor (unit depends on distanceUnit setting)
tilt	number	
roll	number	
focalLength	number	
minimumAllowedDistance	number	
duration	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
```



```

    "response": "Fail",
    "error": {
      "code": 607,
      "details": "Unknown Error"
    }
  }
}

```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

21.3 GET /configuration/socialdistancingviolation/options

Get social distancing violation options

Supported values and ranges required for configuring socialdistancing violation is provided in response.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
socialDistancingViolationOptions	array of objects	
channel	integer	
cameraHeight	object	
min	number	
max	number	
minimumAllowedDistance	object	
min	number	
max	number	
tilt	object	
min	number	
max	number	
roll	object	
min	number	
max	number	
focalLength	object	
min	number	
max	number	
duration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	

NAME	TYPE	DESCRIPTION
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

22. STOPPED VEHICLE DETECTION

22.1 GET /configuration/stoppedvehicledetection

Get the stopped-vehicle detection configurations

Area and rule based stopped-vehicle detection configurations, a device that indicates capability of stoppedvehicledetection in getcapability command shall support this command.
When StoppedVehicleDetection is enabled, event is delivered in below formats,

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/StoppedVehicleDetection

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<StoppedVehicleDetection wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
      <tt:SimpleItemDescription Name="VehicleTypes" Type="tt:StringList"/>
      <tt:SimpleItemDescription Name="ObjectIDs" Type="tt:StringList"/>
    </tt>Data>
  </tt:MessageDescription>
</StoppedVehicleDetection>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection=True

SCHEMABASED

TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection=True
Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection.1.RuleName=rulename
Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection.1.State=True
Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection.1.VehicleTypes=Car Bus Truck
Motorcycle Bicycle
Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection.1.ObjectIDs=258 260 261 278 280

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.StoppedVehicleDetection",
  "Time": "2021-10-27T07:36:14.509+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "StoppedVehicleDetection",
    "Type": "Event",
    "RuleIndex": 1,

```

```

    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "rulename",
  },
  "Data": {
    "State": true,
    "VehicleTypes": "Car Bus Truck Motorcycle Bicycle",
    "ObjectIDs": "258 260 261 278 280"
  }
}

```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
stoppedVehicleDetectionConfiguration	array of objects	
channel*	integer	
enable	boolean	
detectionArea	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
vehicleTypes	array of objects	
vehicleType	enum	ALLOWED: Car, Bus, Truck, Motorcycle, Bicycle Specifies the list of supported vehicle types like, Car, Bus, Truck, Motorcycle, Bicycle
enable	boolean	
duration	integer	between 1 and 15 duration (in minutes) for the stopped-vehicle event to occur. can use 1, 5, 10, 15
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
------	------	-------------

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

22.2 PUT /configuration/stoppedvehicledetection

Update stopped-vehicle detection configurations

Area and rule based stopped-vehicle detection configurations, a device that indicates capability of stoppedvehicledetection in getcapability command shall support this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
detectionArea	array of objects	
index*	integer	>=1
name	string	1 to 63 chars Rule name of this configuration
vehicleTypes	array of objects	
vehicleType	enum	ALLOWED:Car, Bus, Truck, Motorcycle, Bicycle Specifies the list of supported vehicle types like, Car, Bus, Truck, Motorcycle, Bicycle
enable	boolean	
duration	integer	between 1 and 15 duration (in minutes) for the stopped-vehicle event to occur. can use 1, 5, 10, 15
areaCoordinates	array of objects	Area coordinates based on the maxresolution provided in capability, considering top-left as the origin.
x*	integer	
y*	integer	

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

22.3 GET /configuration/stoppedvehicledetection/options

Get stopped-vehicle detection options

Provide allowed values of each parameters in stopped-vehicle detection configuration. Ranges of parameters in stopped-vehicle detection configuration, a device that indicates capability of stoppedvehicledetection in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
stoppedVehicleDetectionOptions	array of objects	
channel	integer	
detectionAreaOptions	array of objects	
index	object	
min	integer	
max	integer	
vehicleTypeOptions	array of objects	
duration	object	It can either have intrange (min and max) or intlist
ONE:OF	object	
OPTION:1	object	
min	integer	
max	integer	
OPTION:2	object	
intList	array of integer	
vehicleType	array of string	Specifies the list of supported vehicleTypes like, Car, Bus, Truck, Motorcycle, Bicycle
areaCoordinates	object	
min	integer	
max	integer	

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

22.4 DELETE /configuration/stoppedvehicledetection/areas

Delete stopped-vehicle detection areas

Delete the area for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```


23. TRAFFIC JAM DETECTION

23.1 GET /configuration/trafficjamdetection

Get the traffic-jam detection configurations

line based traffic-jam detection configurations, a device that indicates capability of trafficjamdetection in getcapability command shall support this command.

When traffic-jam detection is enabled, event is delivered in below formats,

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/TrafficJamDetection

SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<TrafficJamDetection wstop:topic="true">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSourceToken" Type="tt:ReferenceToken"/>
      <tt:SimpleItemDescription Name="RuleName" Type="xsd:string"/>
    </tt:Source>
    <tt>Data>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
    </tt>Data>
  </tt:MessageDescription>
</TrafficJamDetection>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.TrafficJamDetection=True

SCHEMABASED

TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.TrafficJamDetection=True
Channel.0.OpenSDK.WiseAI.TrafficJamDetection.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.TrafficJamDetection.1.RuleName=rulename
Channel.0.OpenSDK.WiseAI.TrafficJamDetection.1.State=True

JSON RESPONSE

```
{
  "EventName": "OpenSDK.WiseAI.TrafficJamDetection",
  "Time": "2021-10-27T07:36:14.509+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppID": "WiseAI",
    "AppEvent": "TrafficJamDetection",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "rulename",
  },
  "Data": {
    "State": true
  }
}
```

```
}  
}
```

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
trafficJamDetectionConfiguration	array of objects	
channel*	integer	
enable	boolean	
distanceSpeedUnit	enum	ALLOWED:meters, kph, feet, mph
detectionRules	array of objects	
index*	integer	>=1
name	string	1 to 63 chars
lines	object	Object to configure start and end lines between which passing vehicles would be monitored.
startLine*	array of objects	Start Line Coordinates
x*	integer	
y*	integer	
endLine*	array of objects	End Line Coordinates
x*	integer	
y*	integer	
distance	integer	Approximate distance between start line and end line. Unit of distance is based on the *distanceSpeedUnit* parameter.
speed	integer	Speed of vehicle, if vehicles are moving below this speed event would be generated. Unit depends on *distanceSpeedUnit* parameter.
time	integer	If vehicles are moving at configured speed for this duration, event is generated. Time is configured in Minutes.

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful

NAME	TYPE	DESCRIPTION
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

23.2 PUT /configuration/trafficjamdetection

Update traffic-jam detection configurations

line based traffic-jam detection configurations, a device that indicates capability of trafficjamdetection in getcapability command shall support this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
distanceSpeedUnit	enum	ALLOWED:meters, kph, feet, mph
detectionRules	array of objects	
index*	integer	>=1
name	string	1 to 63 chars
lines	object	Object to configure start and end lines between which passing vechiles would be monitored.
startLine*	array of objects	Start Line Coordinates
x*	integer	
y*	integer	
endLine*	array of objects	End Line Coordinates
x*	integer	
y*	integer	
distance	integer	Approximate distance between start line and end line. Unit of distance is based on the *distanceSpeedUnit* parameter.
speed	integer	Speed of vehicle, if vehicles are moving below this speed event would be generated. Unit depends on *distanceSpeedUnit* parameter.
time	integer	If vehicles are moving at configured speed for this duration, event is generated. Time is configured in Minutes.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

23.3 GET /configuration/trafficjamdetection/options

Get traffic-jam detection options

Provide allowed values of each parameters in traffic-jam detection configuration. Ranges of parameters in traffic-jam detection configuration, a device that indicates capability of trafficjamdetection in getcapability command shall support this command.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: response with parameters possible.

RESPONSE MODEL - application/json		
NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
trafficJamDetectionOptions	array of objects	
channel	integer	
distanceSpeedUnit	array of string	Supported Distance and Speed units eg., meters,kph or feet,mph
detectionRules	array of objects	
index	object	
min	integer	
max	integer	
lines	object	
lineCoordinates	object	
min	integer	
max	integer	
kph	object	
distance	array of integer	List of Approximate distance list.
speed	array of integer	List of supported speeds.
mph	object	
distance	array of integer	List of Approximate distance list.
speed	array of integer	List of supported speeds.
time	array of integer	List of time duration supported (in Minutes)

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json		
NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

23.4 DELETE /configuration/trafficjamdetection/rules

Delete Traffic-Jam detection rules

Delete the rule for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*index	array of integer		Required parameter, used to set a specific index.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

24. WISE DETECTOR

24.1 GET /configuration/wisedetector

Get the wisedetector configuration

Gets the list of wisedetector models available and its configuration

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
wisedetectorConfigurations*	array of objects	
channel*	integer	
wisedetectors	array of objects	
enable*	boolean	
objectName*	string	ObjectName configured for modelID
modelID	string	READ-ONLY Unique identifier for the model file.
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.
colorFilter	array of objects	Optional Color list defining the color combination of the object to be detected. Would help in reducing false detections.
rgbHexCode*	string	rgbColor as hex code, example '#FF0000' refers RED

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

24.2 PUT /configuration/wisedetector

Set the wisedetector configuration

Sets the configuration for the wisedetector of a particular channel, multiple wisedetectors can be configured at the same time.

Here objectName parameter cannot be changed, to change the object name please refer to "PUT /configuration/wisedetector/model"

Note

Please check the options response for the supported values.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
wisedetectors	array of objects	
enable*	boolean	
objectName*	string	ObjectName configured for modelID
modelID	string	READ-ONLY Unique identifier for the model file.
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.
colorFilter	array of objects	Optional Color list defining the color combination of the object to be detected. Would help in reducing false detections.
rgbHexCode*	string	rgbColor as hex code, example '#FF0000' refers RED

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED: Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
```

```

    "response": "Success"
  }

```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```

{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}

```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

24.3 GET /configuration/wisedetector/options

Get options for the wisedetector configuration.

Based on this response, wisedetector can be configured.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
wisedetectorConfigurationOptions*	array of objects	
channel*	integer	
wisedetectorOptions*	object	
objectNames	array of string	list of objectNames supported
colorFilterOptions	object	
colorFilterMinMax	object	

NAME	TYPE	DESCRIPTION
min	integer	
max	integer	
supportedColors	array of string	Optional list of supported colors as RGB HexCode

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

24.4 GET /configuration/wisedetector/model

Get the list of model files

Get the complete list of model data available.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
modelDataConfiguration	array of objects	
channel	integer	
modelDatas	array of objects	
modelID*	string	Unique identifier for the model file, fixed value cannot be updated.
objectName*	string	1 to 63 chars ObjectName of the model data indentified by modelID.

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

24.5 PUT /configuration/wisedetector/model

Update modeldata configuration

This api can be used to update objectName name of already uploaded model data based on modelID.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel	integer	
modelDatas	array of objects	
modelID*	string	Unique identifier for the model file, fixed value cannot be updated.
objectName*	string	1 to 63 chars ObjectName of the model data identified by modelID.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

}

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

STATUS CODE - 404: configuration not found

STATUS CODE - 405: Validation exception

24.6 POST /configuration/wisedetector/model

Upload model data

Trained model data is uploaded using this api as binary file (application/octet-stream). Here channel parameter is used to associate the uploaded model file to a channel incase of multi channel camera. If the camera is single channel camera, channel '0' is used.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*objectName	string 1 to 63 chars		Required objectName parameter.
*channel	integer		Required channel parameter, operation is applicable only for the specified channel.

REQUEST BODY - application/octet-stream

RESPONSE

STATUS CODE - 200: On successful upload below response is provided.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
modelID*	string	Unquie id for model managed by app.

EXAMPLE:

```
{
  "modelID": "modelInd-1"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```

24.7 DELETE /configuration/wisedetector/model

Delete model data

Delete model data based on unique modelID.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	integer	1	Required channel parameter, operation is applicable only for the specified channel.
*modelID	string	D	Required modelID parameter, unique identifier of the model data.

RESPONSE

STATUS CODE - 200: A response was provided according to the request.

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Success"
}
```

STATUS CODE - 400: Invalid configuration supplied or operation failed

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
response*	enum	ALLOWED:Success, Fail Whether the request was successful
error	object	
code*	integer	
details*	string	
reason	string	

EXAMPLE:

```
{
  "response": "Fail",
  "error": {
    "code": 607,
    "details": "Unknown Error"
  }
}
```