API Reference

WiseAI

API Version: 1.5.2

WiseAI App for Hanwha Camera

CONTACT

NAME: Hanwha Vision
URL: https://www.hanwhavision.com/

INDEX

SECURITY SCHEMES

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

URL FORMAT = {Scheme}://{Address}/{BasePath}

VARIABLES	DEFAULT VALUE
Scheme	http
Address	192.168.75.37
BasePath	opensdk/WiseAI

API

1. AI SETTINGS

1.1 GET /configuration/aisettings

Get AI settings

Get AI configurations, a device that indicates capability of aisettings in getcapability command shall support this command.
This API can selects 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 aisettings 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
isReadonly	boolean	If this boolean set to true, then "PUT" method will be disabled
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 analyticexcludesettings 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	int32		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. BLOCKED EXIT DETECTION

Factory pack only

3.1 GET /configuration/blockedexitdetection

Get Blocked Exit Detection configuration
Gets the Blocked Exit Detection configuration, suppport only if blockedexitdetection capability is set to true.

BlockedExitDetection Event
ONVIF EVENT / META
Topic
tns1:OpenApp/WiseAI/BlockedExitDetection

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<BlockedExitDetection 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>
</BlockedExitDetection>
```

SUNAPI EVENT STATUS
NORMAL TEXT RESPONSE

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

SCHEMABASED

TEXT RESPONSE

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

JSON RESPONSE

```json
{
    "EventName": "OpenSDK.WiseAI.BlockedExitDetection",
    "Time": "2023-03-15T02:58:52.820+00:00",
    "Source": {
        "Channel": 0,
        "AppName": "WiseAI",
        "AppID": "WiseAI",
        "AppEvent": "BlockedExitDetection",
        "Type": "Event",
        "RuleIndex": 1,
        "VideoSourceToken": "VideoSourceToken-0",
        "RuleName": "RuleName1"
    },
```

```
    "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: Blocked Exit Detection configuration

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
configurations	array of objects	
channel	integer	
enable	boolean	
areas	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	
duration	integer	duration in minutes refer to corresponding options for valid range.
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.

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"
      }
    }
```

3.2 PUT /configuration/blockedexitdetection

Set Blocked Exit Detection configuration

Configures the Blocked Exit Detection settings. For the supported values refer to blockedexitdetection/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 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	
duration	integer	duration in minutes refer to corresponding options for valid range.
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.

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

3.3 GET /configuration/blockedexitdetection/options

Get crowd counting options

Provides the supported values and ranges for the Blocked Exit Detection 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		
detectionOptions*	array of objects	
channel*	integer	
areaOptions	object	
index	object	
min	integer	
max	integer	
areaCoordinates	object	
min	integer	
max	integer	

NAME	TYPE	DESCRIPTION
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"
 }
}
```

3.4 DELETE /configuration/blockedexitdetection/areas

Delete area in Blocked Exit Detection rule
Delete an area based on requested area index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

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

4. CAPABILITY

4.1 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.
The AppSettingChanged event is generated only in JSON schema format.

ONVIF EVENT / META

TOPIC

tns1:OpenApp/WiseAI/AppSettingChanged

SCHEMA

```xml
<?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

```json
{
  "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
modelName	string	The app's model 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	

NAME	TYPE	DESCRIPTION
details*	string	
reason	string	

EXAMPLE:

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

4.2 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 obejct 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.
motiondetectionarea	boolean	

NAME	TYPE	DESCRIPTION
ivaarea	boolean	
linecrossing	boolean	
socialdistancing	boolean	
facemaskdetection	boolean	
slipAndFallDetection	boolean	
stoppedvehicledetection	boolean	
trafficjamdetection	boolean	
queuemanagement	boolean	
vehiclequeuemanagement	boolean	
shoppingcartqueuemanagement	boolean	
forkliftqueuemanagement	boolean	
heatmap	boolean	
shoppingcartheatmap	boolean	
vehicleheatmap	boolean	
forkliftheatmap	boolean	
forkliftspeeddetection	boolean	
blockedexitdetection	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, ShoppingCart, Forklift...
soundclassification	boolean	
dynamicprivacymask	boolean	
dataserver	boolean	
aiSettings	boolean	
license	boolean	
sightmind	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,
          "motiondetectionarea": true
         }
        ]
       }
```

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"
     }
    }
```

4.3 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		
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. COMMON ANALYTICS SETTINGS

5.1 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"
     }
    }
```

5.2 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

5.3 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"
 }
}
```

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

6. CROWD COUNTING

6.1 GET /configuration/crowdcounting

Get CrowdCounting configuration

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

CrowdCountDetection Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/CrowdCountDetection

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<CrowdCountDetection wstop:topic="true">
  <tt:MessageDescription IsProperty="true">
    <tt:Source>
      <tt:SimpleItemDescription Name="VideoSource" 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>
</CrowdCountDetection>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

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

SCHEMABASED

TEXT RESPONSE

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

JSON RESPONSE

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

```
        "State": 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
<?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

```json
{
    "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	
threshold	integer	The threshold can be set to 10 units; other values are rounded up
duration	integer	The event is triggered if there are more people than the configured threshold during this duration. The duration is configured in seconds
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"
 }
}
```

6.2 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	
threshold	integer	The threshold can be set to 10 units; other values are rounded up
duration	integer	The event is triggered if there are more people than the configured threshold during this duration. The duration is configured in seconds
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

6.3 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	
threshold	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	
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	
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"
 }
}
```

6.4 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	int32		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

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

6.5 GET /configuration/crowdcounting/report

Get Crowdcounting reporting configuraiton

Provides the reporting configuration of crowdcounting

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"
 }
}
```

6.6 PUT /configuration/crowdcounting/report

Update Crowdcounting reporting configuration

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

REQUEST

REQUEST BODY - application/json

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

NAME	TYPE	DESCRIPTION
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

6.7 GET /configuration/crowdcounting/report/options

Get Crowdcounting reporting options

Provides the supported values and ranges for the Crowdcounting 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"
 }
}
```

6.8 DELETE /configuration/crowdcounting/data

Delete stored Crowdcounting data

Clears the Crowdcounting 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

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

6.9 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		

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"
 }
}
```

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

7. DATA SERVER

7.1 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		
enable	boolean	
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"
 }
}
```

7.2 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
enable	boolean	
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	

NAME	TYPE	DESCRIPTION
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

7.3 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"
 }
}
```

8. DATE/TIME

8.1 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"
 }
}
```

9. DYNAMIC PRIVACY MASK

9.1 GET /configuration/dynamicprivacymask

Get dynamic privacy mask configurations

Get the dynamic privacy mask event configurations, a device that indicates capability of dynamicprivacymask 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		
configurations*	array of objects	
channel*	integer	
enable	boolean	
objectTypes	array of string	List of objectTypes to be masked, 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"
 }
}
```

9.2 PUT /configuration/dynamicprivacymask

Update dynamic privacy mask configuration

dynamic privacy mask setting, a device that indicates capability of dynamicprivacymask 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 masked, 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

9.3 GET /configuration/dynamicprivacymask/options

Get dynamicprivacymask options

Get the dynamic privacy mask configurations options, a device that indicates capability of dynamicprivacymask 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		
options	array of objects	
channel	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"
 }
}
```

10. FACEMASK DETECTION

10.1 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
<?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

```json
{
    "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"
 }
}
```

10.2 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

10.3 GET /configuration/facemaskdetection/options

Get facemask detection options

Supported values and ranges reguired 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"
```

```
        }
    }
```

11. FORKLIFT HEATMAP

Factory pack only

11.1 GET /configuration/forkliftheatmap

Get Forklift configuration

Get the Forklift configuration, supported only if forkliftheatmap 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

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

EXAMPLE:

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

11.2 PUT /configuration/forkliftheatmap

Update Forklift heatmap configuration

Configures the Forklift heatmap settings. For the supported values refer to forkliftheatmap/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	

NAME	TYPE	DESCRIPTION
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 - 405: Validation exception

11.3 GET /configuration/forkliftheatmap/options

Get Forklift heatmap options

Provides the supported values and ranges for the Forklift 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	

NAME	TYPE	DESCRIPTION
channel	integer	
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"
 }
}
```

11.4 DELETE /configuration/forkliftheatmap/excludeareas

Delete Forklift heatmap exclude area

Delete the excludearea based on the requested exclude area index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

11.5 GET /configuration/forkliftheatmap/report

Get Forklift heatmap reporting configuraiton
Provides the reporting configuration of Forklift 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"
 }
}
```

11.6 PUT /configuration/forkliftheatmap/report

Set Forklift heatmap reporting configuration

Configures the Forklift heatmap reporting configuration, for supported values refer to forkliftheatmap/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

11.7 GET /configuration/forkliftheatmap/report/options

Get Forklift heatmap reporting options

Provides the supported values and ranges for the Forklift 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"
 }
}
```

11.8 DELETE /configuration/forkliftheatmap/data

Delete stored Forklift heatmap data

Clears the Forklift 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

11.9 GET /search/forkliftheatmap

Initiate forklift heatmap search

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

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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"
      }
    }
```

11.10 GET /search/forkliftheatmap/{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"
 }
}
```

11.11 PUT /search/forkliftheatmap/{searchToken}/cancel

Cancel Search Session

Client can cancel an intiated 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"
 }
}
```

11.12 GET /search/forkliftheatmap/{searchToken}/results

Get the search results

Once the search is complete, using the search token forklift 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"
  }
}
```

11.13 GET /search/forkliftheatmap/check

Check the current forklift heatmap levels

Getting the live forklift 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"
```

```
        }
    }
```

12. FORKLIFT QUEUE MANAGEMENT

Factory pack only

12.1 GET /configuration/forkliftqueuemanagement

Get Forklift QueueManagement configuration
Gets the forklift queue qanagement configuration, suppport only if forkliftqueuemanagement capability is set to true.
This configuration is specific to the forklift queue management.

ForkliftQueueMedium Event
ONVIF EVENT / META
Topic
tns1:OpenApp/WiseAI/ForkliftQueueMedium

SCHEMA
```xml
<?xml version="1.0" encoding="UTF-8"?>
<ForkliftQueueMedium 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>
</ForkliftQueueMedium>
```

SUNAPI EVENT STATUS
NORMAL TEXT RESPONSE
```
Channel.0.OpenSDK.WiseAI.ForkliftQueueMedium=True
Channel.0.OpenSDK.WiseAI.ForkliftQueueMedium.1=True
```
SCHEMABASED

TEXT RESPONSE
```
Channel.0.OpenSDK.WiseAI.ForkliftQueueMedium=True
Channel.0.OpenSDK.WiseAI.ForkliftQueueMedium.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.ForkliftQueueMedium.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.ForkliftQueueMedium.1.State=True
```
JSON RESPONSE
```json
{
    "EventName": "OpenSDK.WiseAI.ForkliftQueueMedium",
    "Time": "2022-03-15T02:58:52.820+00:00",
    "Source": {
        "Channel": 0,
        "AppName": "WiseAI",
        "AppID": "WiseAI",
        "AppEvent": "ForkliftQueueMedium",
        "Type": "Event",
        "RuleIndex": 1,
        "VideoSourceToken": "VideoSourceToken-0",
        "RuleName": "rulename"
```

```
    },
    "Data": {
        "State": true
    }
}
```

ForkliftQueueHigh Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/ForkliftQueueHigh

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ForkliftQueueHigh 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>
</ForkliftQueueHigh>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

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

SCHEMABASED

TEXT RESPONSE

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

JSON RESPONSE

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

ForkliftQueueCountChanged Event

The ForkliftQueueCountChanged 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/forkliftqueuemanagement"

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/ForkliftQueueCountChanged

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ForkliftQueueCountChanged 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>
</ForkliftQueueCountChanged>
```

SUNAPI EVENT STATUS

SCHEMABASED

JSON RESPONSE

```json
{
    "EventName": "OpenSDK.WiseAI.ForkliftQueueCountChanged",
    "Time": "2022-03-15T02:58:52.820+00:00",
    "Source": {
        "Channel": 0,
        "AppName": "WiseAI",
        "AppID": "WiseAI",
        "AppEvent": "ForkliftQueueCountChanged",
        "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		
queuemanagementConfigurations	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"
 }
}
```

12.2 PUT /configuration/forkliftqueuemanagement

Set Forklift QueueManagement configuration

Configures the forklift QueueManagement settings. For the supported values refer to forkliftqueuemanagement/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

12.3 GET /configuration/forkliftqueuemanagement/options

Get Forklift QueueManagement options

Provides the supported values and ranges for the Forklift 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	

NAME	TYPE	DESCRIPTION
max	integer	
queueAreaCoordinates	object	
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"
 }
}
```

12.4 DELETE /configuration/forkliftqueuemanagement/queues

Delete Forklift QueueManagement rule

Delete an queue area based on requested queue index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

12.5 GET /configuration/forkliftqueuemanagement/report

Get Forklift 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	

NAME	TYPE	DESCRIPTION
code*	integer	
details*	string	
reason	string	

EXAMPLE:

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

12.6 PUT /configuration/forkliftqueuemanagement/report

Update Forklift QueueManagement reporting configuration

Configures the Forklift QueueManagement reporting configuration, for supported values refer to forkliftqueuemanagement/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

12.7 GET /configuration/forkliftqueuemanagement/report/options

Get Forklift QueueManagement reporting options

Provides the supported values and ranges for the Forklift 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"
  }
}
```

12.8 DELETE /configuration/forkliftqueuemanagement/data

Delete stored Forklift QueueManagement data
Clears the Forklift 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

12.9 GET /search/forkliftqueuemanagement

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

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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"
 }
}
```

12.10 GET /search/forkliftqueuemanagement/{searchToken}

Check the status of forklift 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"
 }
}
```

12.11 PUT /search/forkliftqueuemanagement/{searchToken}/cancel

Cancel Forklift Queuemanagement Search Session

Client can cancel an intiated 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"
 }
}
```

12.12 GET /search/forkliftqueuemanagement/{searchToken}/results

Get the search results

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

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"
 }
}
```

12.13 GET /search/forkliftqueuemanagement/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"
 }
}
```

13. FORKLIFT SPEED DETECTION

Factory pack only

13.1 GET /configuration/forkliftspeeddetection

Get forklift speed detection configurations
Gets the forklift speed detection settings, suppport only if forkliftspeeddetection capability is set to true.

ForkliftSpeedDetection Event
ONVIF EVENT / META
Topic
tns1:OpenApp/WiseAI/ForkliftSpeedDetection

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ForkliftSpeedDetection 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="Speed" Type="xsd:float"/>
      <tt:SimpleItemDescription Name="ObjectId" Type="xsd:integer"/>
      <tt:SimpleItemDescription Name="State" Type="xsd:boolean"/>
    </tt:Data>
  </tt:MessageDescription>
</ForkliftSpeedDetection>
```

SUNAPI EVENT STATUS
NORMAL TEXT RESPONSE

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

SCHEMABASED
TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.ForkliftSpeedDetection=True
Channel.0.OpenSDK.WiseAI.ForkliftSpeedDetection.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.ForkliftSpeedDetection.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.ForkliftSpeedDetection.1.Speed=3.5
Channel.0.OpenSDK.WiseAI.ForkliftSpeedDetection.1.ObjectId=1234
Channel.0.OpenSDK.WiseAI.ForkliftSpeedDetection.1.State=True
```

SCHEMABASED
JSON RESPONSE

```json
{
    "EventName": "OpenSDK.WiseAI.ForkliftSpeedDetection",
    "Time": "2022-03-15T02:58:52.820+00:00",
    "Source": {
        "Channel": 0,
        "AppName": "WiseAI",
        "AppID": "WiseAI",
```

```
    "AppEvent": "ForkliftSpeedDetection",
    "Type": "Event",
    "RuleIndex": 1,
    "VideoSourceToken": "VideoSourceToken-0",
    "RuleName": "rulename"
},
"Data": {
    "Speed": 3.5
    "ObjectId": 1234,
    "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		
forkliftSpeedDetection	array of objects	
channel	integer	
enable	boolean	
distanceSpeedUnit	string	
cameraHeight	number	Camera height from floor (unit depends on *distanceSpeedUnit* setting)
tilt	number	
roll	number	
focalLength	number	
speed	number	Speed of vehicle, if vehicles are moving above this speed event would be generated. Unit depends on *distanceSpeedUnit* parameter.
duration	integer	If vehicles are moving at configured speed for this duration, event is generated. Time is configured in seconds

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"
 }
}
```

13.2 PUT /configuration/forkliftspeeddetection

Update forklift speed detection configurations

Configures the forklift speed detection settings, for supported values and ranges refer to forkliftspeeddetection/ options response.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel	integer	
enable	boolean	
distanceSpeedUnit	string	
cameraHeight	number	Camera height from floor (unit depends on *distanceSpeedUnit* setting)
tilt	number	
roll	number	
focalLength	number	
speed	number	Speed of vehicle, if vehicles are moving above this speed event would be generated. Unit depends on *distanceSpeedUnit* parameter.
duration	integer	If vehicles are moving at configured speed for this duration, event is generated. Time is configured in seconds

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

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

13.3 GET /configuration/forkliftspeeddetection/options

Get forklift speed detection options
Supported values and ranges reguired for configuring forklift speed 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		
detectionOptions	array of objects	
channel	integer	
distanceSpeedUnit	array of string	Supported Distance and Speed units eg., meters,kph or feet,mph
tilt	object	
min	number	
max	number	
roll	object	
min	number	
max	number	
focalLength	object	

NAME	TYPE	DESCRIPTION
min	number	
max	number	
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	
kph	object	
cameraHeight	object	
min	number	
max	number	
speed	object	
min	number	
max	number	
mph	object	
cameraHeight	object	
min	number	
max	number	
speed	object	
min	number	
max	number	

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. HEATMAP

14.1 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"
 }
}
```

14.2 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

14.3 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"
 }
}
```

14.4 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	int32		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

14.5 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"
 }
}
```

14.6 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

14.7 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"
 }
}
```

14.8 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

14.9 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	int32		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"
  }
}
```

14.10 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"
 }
}
```

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

Cancel Search Session

Client can cancel an intiated 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"
 }
}
```

14.12 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"
     }
    }
```

14.13 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"
```

```
        }
    }
```

15. IVA AREA

15.1 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
<?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
Channel.0.OpenSDK.WiseAI.IvaArea.1=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

```json
{
  "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"
 }
}
```

15.2 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

15.3 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"
 }
}
```

15.4 DELETE /configuration/ivaarea/definedarea

Delete IVA defined area

Delete the area for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

16. IMAGE TRANSFER

16.1 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.
base64ObjectImage	boolean	Whether to include base64 image in metadata

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/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.
base64ObjectImage	boolean	Whether to include base64 image in metadata

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/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,
```

```json
      "details": "Unknown Error"
    }
  }
```

17. LICENSE

17.1 GET /configuration/license/status

Get license status

Get the current license status of the app

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
licences	array of objects	
activationState	string	
activationType	enum	ALLOWED:Online, Offline
licenseType	string	
expirationDate	string	
licenseKey	string	
requestCode	string	
activationCode	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"
 }
}
```

17.2 GET /configuration/license/activation

Get license activation code

Get offline activation information for the entered license key

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*licenseKey	string 1 to 40 chars		License Key

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
requestCode	string	
qrImagePath	string	
activationUrl	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"
 }
}
```

17.3 POST /configuration/license/activation

License activation

Request license activation

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
activationType*	enum	ALLOWED:Online, Offline, OfflineWithFile Depending on the activation type selected, the parameters are used as shown below and the rest are ignored - Online: Activate license online, requires a licenseKey parameter - Offline: Activate license offline, requires licenseKey, requestCode and activationCode parameters - OfflineWithFile: Activate license offline, requires a licenseFile parameter
licenseKey	string	

NAME	TYPE	DESCRIPTION
requestCode	string	
activationCode	string	
licenseFile	string	

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

18. LINE CROSSING

18.1 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
<?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
Channel.0.OpenSDK.WiseAI.LineCrossing.1=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

```json
{
  "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"
 }
}
```

18.2 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

18.3 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 analytcis 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"
 }
}
```

18.4 DELETE /configuration/linecrossing/line

Delete linecrossing line

Delete the lines based on requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

19. LOG

19.1 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"
 }
}
```

19.2 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"
 }
}
```

20. META TRANSFER

20.1 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 sended, 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 sended 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"
 }
}
```

20.2 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 sended, 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 sended 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

20.3 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"
 }
}
```

21. MOTION DETECTION AREA

AIBOX only

21.1 GET /configuration/motiondetectionarea

Get MotionDetectionArea configurations

Get the roi information based motion detection configurations.
Area based motion detection configurations, a device that indicates capability of motiondetectionarea in getcapability command shall support this command.
When this motiondetectionarea feature is enabled event will be delivered following below schema format.

ONVIF EVENT / META

SCHEMA Topic:

tns1:OpenApp/WiseAI/MotionDetectionArea

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<MotionDetectionArea 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="Level" Type="xsd:integer"/>
    </tt:Data>
  </tt:MessageDescription>
</MotionDetectionArea>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.MotionDetectionArea=True

SCHEMABASED

TEXT RESPONSE

Channel.0.OpenSDK.WiseAI.MotionDetectionArea=True
Channel.0.OpenSDK.WiseAI.MotionDetectionArea.1.VideoSourceToken=vs-0
Channel.0.OpenSDK.WiseAI.MotionDetectionArea.1.RuleName=Rule1
Channel.0.OpenSDK.WiseAI.MotionDetectionArea.1.State=True
Channel.0.OpenSDK.WiseAI.MotionDetectionArea.1.Level=15

JSON RESPONSE

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

```
    },
    "Data": {
      "State": true
      "Level": 15
    }
}
```

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		
motionDetectionArea*	array of objects	
channel*	integer	
enable	boolean	
mdArea	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	
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.
thresholdLevel	integer	between 1 and 100 ThresholdLevel.
duration	integer	>=0 minimum 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	

NAME	TYPE	DESCRIPTION
code*	integer	
details*	string	
reason	string	

EXAMPLE:

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

21.2 PUT /configuration/motiondetectionarea

Update Motion detection area configurations

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

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
mdArea	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	
sensitivity	integer	between 1 and 100 Higher the number higher the sensitivity.
thresholdLevel	integer	between 1 and 100 ThresholdLevel.
duration	integer	>=0 minimum 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

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

STATUS CODE - 405: Validation exception

21.3 GET /configuration/motiondetectionarea/options

Get MD 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		
mdAreaOptions*	array of objects	
channel*	integer	
mdAreaOptions	object	
index	object	
min	integer	
max	integer	
areaCoordinates	object	
min	integer	
max	integer	
sensitivity	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	
thresholdLevel	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	
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	
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		

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"
 }
}
```

21.4 DELETE /configuration/motiondetectionarea/mdarea

Delete MD defined area

Delete the area for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

21.5 GET /configuration/motiondetectionarea/check

Provide a set of current levels of motion detection

Provide a set of current levels of motion detection. Users can request numbers of levels to be recevied.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
channel	array of integer		Optional channel parameter if passed, operation is applicable only for the specified channels.
mdAreaIndex	integer		Required rule index parameter, unique indentifier of the rule
*numberOfSample	integer		Required number of sample parameter to be received.

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
motionDetectionAreaLive	array of objects	
channel*	integer	
mdArea	array of objects	
index	integer	
sequenceId	integer	
level	integer	between 0 and 100

22. OBJECT COUNTING

22.1 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
<?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

```json
{
    "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"
 }
}
```

22.2 PUT /configuration/objectcounting

Set ObjectCounting configuration

Configurest the generic objectcounting rule, can be used to count objectypes 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

22.3 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"
 }
}
```

22.4 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	int32		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

22.5 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	int32		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

22.6 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"
 }
}
```

22.7 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

22.8 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"
 }
}
```

22.9 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

22.10 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	int32		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"
  }
}
```

22.11 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"
 }
}
```

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

Cancel objectcounting Search Session

Client can cancel an intiated 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"
 }
}
```

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

Get the search results

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

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	
genderAgeInfo	array of objects	

NAME	TYPE	DESCRIPTION
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"
 }
}
```

22.14 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

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",
```

```
               "count": 0
              },
              {
               "vehicleType": "Bus",
               "count": 0
              },
              {
               "vehicleType": "Truck",
               "count": 0
              }
             ]
            },
            {
             "direction": "OUT",
             "count": 0,
             "vehicleInfo": [
              {
               "vehicleType": "Bicycle",
               "count": 0
              },
              {
               "vehicleType": "Motorcycle",
               "count": 0
              },
              {
               "vehicleType": "Car",
               "count": 0
              },
              {
               "vehicleType": "Bus",
               "count": 0
              },
              {
               "vehicleType": "Truck",
               "count": 0
              }
             ]
            }
           ]
          }
         ]
        }
       ]
      }
     ]
    }
```

EXAMPLE 2:

ObjectCounting response when the counting rule is configured for Human.

```
    {
     "objectCountingLive": [
      {
       "channel": 0,
       "countingRules": [
        {
         "index": 1,
         "lines": [
          {
           "index": 1,
           "directionBasedResult": [
            {
             "direction": "IN",
             "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
      }
      ]
    }
    ]
  },
  {
    "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"
  }
}
```

23. OBJECT DETECTION

23.1 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
<?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=True
Channel.0.OpenSDK.WiseAI.ObjectDetection.1=True
```

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

```json
{
  "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"
  }
}
```

23.2 PUT /configuration/objectdetection

Update objectdetection configuration

object detecion 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

23.3 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"
}
}
```

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

24. QUEUE MANAGEMENT

24.1 GET /configuration/queuemanagement

Get QueueManagement configuration

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

QueueMedium Event
ONVIF EVENT / META
Topic

tns1:OpenApp/WiseAI/QueueMedium

SCHEMA

```xml
<?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
Channel.0.OpenSDK.WiseAI.QueueMedium.1=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

```json
{
    "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
<?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
Channel.0.OpenSDK.WiseAI.QueueHigh.1=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

```json
{
    "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
<?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

```json
{
    "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		
queuemanagementConfigurations	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"
  }
}
```

24.2 PUT /configuration/queuemanagement

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

24.3 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"
 }
}
```

24.4 DELETE /configuration/queuemanagement/queues

Delete queuemanagement rule

Delete an queue area based on requested queue index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

24.5 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"
 }
}
```

24.6 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

24.7 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"
 }
}
```

24.8 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

24.9 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	int32		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"
  }
}
```

24.10 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"
 }
}
```

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

Cancel Queuemanagement Search Session

Client can cancel an intiated 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"
 }
}
```

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

Get the search results

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

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"
 }
}
```

24.13 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"
 }
}
```

25. SECURITY

25.1 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"
>  }
> }
> ```

26. SETTINGS

26.1 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"
 }
}
```

26.2 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"
 }
}
```

26.3 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"
 }
}
```

27. SHOPPING CART HEATMAP

Retail pack only

27.1 GET /configuration/shoppingcartheatmap

Get Shopping Cart configuration

Get the Shopping Cart configuration, supported only if shoppingcartheatmap 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

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

EXAMPLE:

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

27.2 PUT /configuration/shoppingcartheatmap

Update Shopping Cart heatmap configuration

Configures the Shopping Cart heatmap settings. For the supported values refer to shoppingcartheatmap/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	

NAME	TYPE	DESCRIPTION
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 - 405: Validation exception

27.3 GET /configuration/shoppingcartheatmap/options

Get Shopping Cart heatmap options

Provides the supported values and ranges for the Shopping Cart 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	

NAME	TYPE	DESCRIPTION
channel	integer	
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"
 }
}
```

27.4 DELETE /configuration/shoppingcartheatmap/excludeareas

Delete Shopping Cart heatmap exclude area

Delete the excludearea based on the requested exclude area index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

27.5 GET /configuration/shoppingcartheatmap/report

Get Shopping Cart heatmap reporting configuraiton
Provides the reporting configuration of Shopping Cart 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"
 }
}
```

27.6 PUT /configuration/shoppingcartheatmap/report

Set Shopping Cart heatmap reporting configuration

Configures the Shopping Cart heatmap reporting configuration, for supported values refer to shoppingcartheatmap/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

27.7 GET /configuration/shoppingcartheatmap/report/options

Get Shopping Cart heatmap reporting options

Provides the supported values and ranges for the Shopping Cart 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"
 }
}
```

27.8 DELETE /configuration/shoppingcartheatmap/data

Delete stored Shopping Cart heatmap data

Clears the Shopping Cart 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

27.9 GET /search/shoppingcartheatmap

Initiate shoppingcart heatmap search

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

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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"
  }
}
```

27.10 GET /search/shoppingcartheatmap/{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"
 }
}
```

27.11 PUT /search/shoppingcartheatmap/{searchToken}/cancel

Cancel Search Session

Client can cancel an intiated 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"
 }
}
```

27.12 GET /search/shoppingcartheatmap/{searchToken}/results

Get the search results

Once the search is complete, using the search token shoppingcart 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"
 }
}
```

27.13 GET /search/shoppingcartheatmap/check

Check the current shoppingcart heatmap levels

Getting the live shoppingcart 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"
```

```
        }
    }
```

28. SHOPPING CART QUEUE MANAGEMENT

Retail pack only

28.1 GET /configuration/shoppingcartqueuemanagement

Get Shopping Cart QueueManagement configuration
Gets the shopping cart queue qanagement configuration, suppport only if shoppingcartqueuemanagement capability is set to true.
This configuration is specific to the shopping cart queue management.

ShoppingCartQueueMedium Event
ONVIF EVENT / META
Topic
tns1:OpenApp/WiseAI/ShoppingCartQueueMedium

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ShoppingCartQueueMedium 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>
</ShoppingCartQueueMedium>
```

SUNAPI EVENT STATUS
NORMAL TEXT RESPONSE

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

SCHEMABASED
TEXT RESPONSE

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

JSON RESPONSE

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

```
        "RuleName": "rulename"
    },
    "Data": {
        "State": true
    }
}
```

ShoppingCartQueueHigh Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/ShoppingCartQueueHigh

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ShoppingCartQueueHigh 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>
</ShoppingCartQueueHigh>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

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

SCHEMABASED

TEXT RESPONSE

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

JSON RESPONSE

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

ShoppingCartQueueCountChanged Event

The ShoppingCartQueueCountChanged 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/shoppingcartqueuemanagement"

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/ShoppingCartQueueCountChanged

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ShoppingCartQueueCountChanged 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>
</ShoppingCartQueueCountChanged>
```

SUNAPI EVENT STATUS

SCHEMABASED

JSON RESPONSE

```json
{
    "EventName": "OpenSDK.WiseAI.ShoppingCartQueueCountChanged",
    "Time": "2022-03-15T02:58:52.820+00:00",
    "Source": {
        "Channel": 0,
        "AppName": "WiseAI",
        "AppID": "WiseAI",
        "AppEvent": "ShoppingCartQueueCountChanged",
        "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		
queuemanagementConfigurations	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"
 }
}
```

28.2 PUT /configuration/shoppingcartqueuemanagement

Set Shopping Cart QueueManagement configuration

Configures the shopping cart QueueManagement settings. For the supported values refer to shoppingcartqueuemanagement/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

28.3 GET /configuration/shoppingcartqueuemanagement/options

Get Shopping Cart QueueManagement options

Provides the supported values and ranges for the Shopping Cart 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	

NAME	TYPE	DESCRIPTION
max	integer	
queueAreaCoordinates	object	
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"
 }
}
```

28.4 DELETE /configuration/shoppingcartqueuemanagement/queues

Delete Shopping Cart QueueManagement rule

Delete an queue area based on requested queue index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

28.5 GET /configuration/shoppingcartqueuemanagement/report

Get Shopping Cart 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	

NAME	TYPE	DESCRIPTION
code*	integer	
details*	string	
reason	string	

EXAMPLE:

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

28.6 PUT /configuration/shoppingcartqueuemanagement/report

Update Shopping Cart QueueManagement reporting configuration

Configures the Shopping Cart QueueManagement reporting configuration, for supported values refer to shoppingcartqueuemanagement/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

28.7 GET /configuration/shoppingcartqueuemanagement/report/options

Get Shopping Cart QueueManagement reporting options

Provides the supported values and ranges for the Shopping Cart 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"
 }
}
```

28.8 DELETE /configuration/shoppingcartqueuemanagement/data

Delete stored Shopping Cart QueueManagement data
Clears the Shopping Cart 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

28.9 GET /search/shoppingcartqueuemanagement

Initiate Shopping Cart queuemanagement Search
Initiate the shopping cart queuemanagement search based on search time duration and returns a search token

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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"
 }
}
```

28.10 GET /search/shoppingcartqueuemanagement/{searchToken}

Check the status of shopping cart 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"
 }
}
```

28.11 PUT /search/shoppingcartqueuemanagement/{searchToken}/cancel

Cancel Shopping Cart Queuemanagement Search Session

Client can cancel an intiated 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"
  }
}
```

28.12 GET /search/shoppingcartqueuemanagement/{searchToken}/results

Get the search results

Once the search is complete, using the search token shopping cart queuemanagement results can be retreived.

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"
 }
}
```

28.13 GET /search/shoppingcartqueuemanagement/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"
 }
}
```

29. SIGHTMIND

29.1 GET /configuration/sightmind

Get sightmind configurations

To get the sightmind configuration. Sightmind configuration to which app connects, a device that indicates capability of sightmind 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		
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"
 }
}
```

29.2 PUT /configuration/sightmind

Set sightmind configurations

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

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
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

30. SLIP AND FALL DETECTION

30.1 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
<?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

```json
{
    "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"
      }
    }
```

30.2 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

30.3 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	int32		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

30.4 GET /configuration/slipandfalldetection/options

Get Slip & fall detection options

Supported values and ranges reguired 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"
 }
}
```

31. SOCIAL DISTANCING VIOLATION

31.1 GET /configuration/socialdistancingviolation

Get social distancing violation detection configurations
Gets the social distancing violation detecion settings.

SocialDistancingViolation Event

ONVIF EVENT / META

Topic
tns1:OpenApp/WiseAI/SocialDistancingViolation

SCHEMA

```xml
<?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

```json
{
    "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"
 }
}
```

31.2 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

31.3 GET /configuration/socialdistancingviolation/options

Get social distancing violation options

Supported values and ranges reguired 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"
 }
}
```

32. SOUND CLASSIFICATION

Sound Classification pack only

32.1 GET /configuration/soundclassification

Get sound classification configurations

Get the sound classification event configurations, a device that indicates capability of soundclassification in getcapability command shall support this command.
When this soundclassification feature is enabled event will be delivered in following formats.

ONVIF EVENT / META

TOPIC

tns1:OpenApp/WiseAI/SoundClassification

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<SoundClassification wstop:topic="true" xmlns:tt="http://www.onvif.org/ver10/schema">
  <tt:MessageDescription>
    <tt:Source>
      <tt:SimpleItemDescription Name="AudioSource" 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>
</SoundClassification>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

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

SCHEMABASED

TEXT RESPONSE

```
Channel.0.OpenSDK.WiseAI.SoundClassification=True
Channel.0.OpenSDK.WiseAI.SoundClassification.1.AudioSource=AudioSourceToken-0
Channel.0.OpenSDK.WiseAI.SoundClassification.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.SoundClassification.1.ClassTypes=Scream GunShot GlassBreaking
Channel.0.OpenSDK.WiseAI.SoundClassification.1.State=True
```

JSON RESPONSE

```json
{
  "EventName": "OpenSDK.WiseAI.SoundClassification",
  "Time": "2021-10-27T07:36:14.509+00:00",
  "Source": {
    "Channel": 0,
    "AppName": "WiseAI",
    "AppEvent": "SoundClassification",
    "AppID": "WiseAI",
    "Type": "Event",
    "RuleIndex": 1,
    "AudioSource": "AudioSourceToken-0,
    "RuleName": "Rule1",
```

```
    },
    "Data": {
      "ClassTypes": "Scream GunShot GlassBreaking",
      "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		
configurations*	array of objects	
channel*	integer	
enable	boolean	
noiseReduction	boolean	
thresholdLevel	integer	between 1 and 100
classTypes	array of string	List of classTypes to be detected, supported list is provided in options. Eg, Scream, Gunshot, GlassBreak 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"
 }
}
```

32.2 PUT /configuration/soundclassification

Update soundclassification configuration

object detecion setting, a device that indicates capability of soundclassification in getcapability command shall support this command.

REQUEST

REQUEST BODY - application/json

NAME	TYPE	DESCRIPTION
channel*	integer	
enable	boolean	
noiseReduction	boolean	
thresholdLevel	integer	between 1 and 100
classTypes	array of string	List of classTypes to be detected, supported list is provided in options. Eg, Scream, Gunshot, GlassBreak 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

32.3 GET /configuration/soundclassification/options

Get soundclassification options

Get the sound classification event configurations options, a device that indicates capability of soundclassification 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		
configurationOptions	array of objects	
channel	integer	
classTypes	array of string	Specifies the list of supported objectTypes like Scream, Gunshot, GlassBreak

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"
 }
}
```

32.4 GET /search/soundclassification/check

Check the current sound classification levels

Getting the sound classification 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.
maxSamples	int32 between 1 and 10		Optional maximum samples

RESPONSE

STATUS CODE - 200: successful operation

RESPONSE MODEL - application/json

NAME	TYPE	DESCRIPTION
OBJECT WITH BELOW STRUCTURE		
soundClassificationLevel	array of objects	
channel	integer	
samples	array of objects	
sequenceId	integer	
level	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"
 }
}
```

33. STOPPED VEHICLE DETECTION

33.1 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
<?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
Channel.0.OpenSDK.WiseAI.StoppedVehicleDetection.1=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

```json
{
  "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 minutes of duration for the stopped-vehicle event to occur.
durationSeconds	integer	between 0 and 59 seconds of duration for the stopped-vehicle event to occur.
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"
 }
}
```

33.2 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 minutes of duration for the stopped-vehicle event to occur.
durationSeconds	integer	between 0 and 59 seconds of duration for the stopped-vehicle event to occur.
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

33.3 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

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	
durationSeconds	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

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

EXAMPLE:

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

33.4 DELETE /configuration/stoppedvehicledetection/areas

Delete stopped-vehicle detection areas

Delete the area for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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		

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

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

34. TRAFFIC JAM DETECTION

34.1 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
<?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
Channel.0.OpenSDK.WiseAI.TrafficJamDetection.1=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

```json
{
  "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	string	
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	number	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		

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"
 }
}
```

34.2 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	string	
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	number	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

34.3 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	object	It can either have double range (min and max) or double list
ONE:OF	object	
OPTION:1	object	
min	number	
max	number	
OPTION:2	object	
doubleList	array of number	
speed	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	
mph	object	
distance	object	It can either have double range (min and max) or double list
ONE:OF	object	
OPTION:1	object	
min	number	

NAME	TYPE	DESCRIPTION
max	number	
OPTION:2	object	
doubleList	array of number	
speed	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	
time	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"
 }
}
```

34.4 DELETE /configuration/trafficjamdetection/rules

Delete Traffic-Jam detection rules

Delete the rule for the requested index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

35. VEHICLE HEATMAP

Traffic pack only

35.1 GET /configuration/vehicleheatmap

Get Vehicle configuration
Get the Vehicle configuration, supported only if vehicleheatmap 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

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

EXAMPLE:

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

35.2 PUT /configuration/vehicleheatmap

Update Vehicle heatmap configuration

Configures the Vehicle heatmap settings. For the supported values refer to vehicleheatmap/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	

NAME	TYPE	DESCRIPTION
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 - 405: Validation exception

35.3 GET /configuration/vehicleheatmap/options

Get Vehicle heatmap options

Provides the supported values and ranges for the Vehicle 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	

NAME	TYPE	DESCRIPTION
channel	integer	
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"
 }
}
```

35.4 DELETE /configuration/vehicleheatmap/excludeareas

Delete Vehicle heatmap exclude area

Delete the excludearea based on the requested exclude area index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

35.5 GET /configuration/vehicleheatmap/report

Get Vehicle heatmap reporting configuraiton
Provides the reporting configuration of Vehicle 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"
 }
}
```

35.6 PUT /configuration/vehicleheatmap/report

Set Vehicle heatmap reporting configuration

Configures the Vehicle heatmap reporting configuration, for supported values refer to vehicleheatmap/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

35.7 GET /configuration/vehicleheatmap/report/options

Get Vehicle heatmap reporting options

Provides the supported values and ranges for the Vehicle 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"
 }
}
```

35.8 DELETE /configuration/vehicleheatmap/data

Delete stored Vehicle heatmap data

Clears the Vehicle 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

35.9 GET /search/vehicleheatmap

Initiate vehicle heatmap search

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

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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"
  }
}
```

35.10 GET /search/vehicleheatmap/{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"
 }
}
```

35.11 PUT /search/vehicleheatmap/{searchToken}/cancel

Cancel Search Session
Client can cancel an intiated 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"
 }
}
```

35.12 GET /search/vehicleheatmap/{searchToken}/results

Get the search results

Once the search is complete, using the search token vehicle 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"
     }
    }
```

35.13 GET /search/vehicleheatmap/check

Check the current vehicle heatmap levels

Getting the live vehicle 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"
```

```
        }
    }
```

36. VEHICLE QUEUE MANAGEMENT

Traffic pack only

36.1 GET /configuration/vehiclequeuemanagement

Get Vehicle QueueManagement configuration
Gets the vehicle queue qanagement configuration, suppport only if shoppingcartqueuemanagement capability is set to true.
This configuration is specific to the vehicle queue management.

VehicleQueueMedium Event
ONVIF EVENT / META
Topic
tns1:OpenApp/WiseAI/VehicleQueueMedium

SCHEMA
```xml
<?xml version="1.0" encoding="UTF-8"?>
<VehicleQueueMedium 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>
</VehicleQueueMedium>
```
SUNAPI EVENT STATUS
NORMAL TEXT RESPONSE
```
Channel.0.OpenSDK.WiseAI.VehicleQueueMedium=True
Channel.0.OpenSDK.WiseAI.VehicleQueueMedium.1=True
```
SCHEMABASED
TEXT RESPONSE
```
Channel.0.OpenSDK.WiseAI.VehicleQueueMedium=True
Channel.0.OpenSDK.WiseAI.VehicleQueueMedium.1.VideoSourceToken=VideoSourceToken-0
Channel.0.OpenSDK.WiseAI.VehicleQueueMedium.1.RuleName=RuleName1
Channel.0.OpenSDK.WiseAI.VehicleQueueMedium.1.State=True
```
JSON RESPONSE
```json
{
    "EventName": "OpenSDK.WiseAI.VehicleQueueMedium",
    "Time": "2022-03-15T02:58:52.820+00:00",
    "Source": {
        "Channel": 0,
        "AppName": "WiseAI",
        "AppID": "WiseAI",
        "AppEvent": "VehicleQueueMedium",
        "Type": "Event",
        "RuleIndex": 1,
        "VideoSourceToken": "VideoSourceToken-0",
```

```
            "RuleName": "rulename"
        },
        "Data": {
            "State": true
        }
    }
}
```

VehicleQueueHigh Event

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/VehicleQueueHigh

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<VehicleQueueHigh 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>
</VehicleQueueHigh>
```

SUNAPI EVENT STATUS

NORMAL TEXT RESPONSE

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

SCHEMABASED

TEXT RESPONSE

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

JSON RESPONSE

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

VehicleQueueCountChanged Event

The VehicleQueueCountChanged 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/vehiclequeuemanagement"

ONVIF EVENT / META

Topic

tns1:OpenApp/WiseAI/VehicleQueueCountChanged

SCHEMA

```xml
<?xml version="1.0" encoding="UTF-8"?>
<VehicleQueueCountChanged 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>
</VehicleQueueCountChanged>
```

SUNAPI EVENT STATUS

SCHEMABASED

JSON RESPONSE

```json
{
    "EventName": "OpenSDK.WiseAI.VehicleQueueCountChanged",
    "Time": "2022-03-15T02:58:52.820+00:00",
    "Source": {
        "Channel": 0,
        "AppName": "WiseAI",
        "AppID": "WiseAI",
        "AppEvent": "VehicleQueueCountChanged",
        "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		
queuemanagementConfigurations	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"
 }
}
```

36.2 PUT /configuration/vehiclequeuemanagement

Set Vehicle QueueManagement configuration

Configures the vehicle QueueManagement settings. For the supported values refer to vehiclequeuemanagement/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

36.3 GET /configuration/vehiclequeuemanagement/options

Get Vehicle QueueManagement options

Provides the supported values and ranges for the Vehicle 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	

NAME	TYPE	DESCRIPTION
max	integer	
queueAreaCoordinates	object	
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"
 }
}
```

36.4 DELETE /configuration/vehiclequeuemanagement/queues

Delete Vehicle QueueManagement rule

Delete an queue area based on requested queue index.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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

36.5 GET /configuration/vehiclequeuemanagement/report

Get Vehicle 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	

NAME	TYPE	DESCRIPTION
code*	integer	
details*	string	
reason	string	

EXAMPLE:

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

36.6 PUT /configuration/vehiclequeuemanagement/report

Update Vehicle QueueManagement reporting configuration

Configures the Vehicle QueueManagement reporting configuration, for supported values refer to vehiclequeuemanagement/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

36.7 GET /configuration/vehiclequeuemanagement/report/options

Get Vehicle QueueManagement reporting options

Provides the supported values and ranges for the Vehicle 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"
 }
}
```

36.8 DELETE /configuration/vehiclequeuemanagement/data

Delete stored Vehicle QueueManagement data

Clears the Vehicle 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

36.9 GET /search/vehiclequeuemanagement

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

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		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"
  }
}
```

36.10 GET /search/vehiclequeuemanagement/{searchToken}

Check the status of vehicle 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"
  }
}
```

36.11 PUT /search/vehiclequeuemanagement/{searchToken}/cancel

Cancel Vehicle Queuemanagement Search Session

Client can cancel an intiated 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"
  }
}
```

36.12 GET /search/vehiclequeuemanagement/{searchToken}/results

Get the search results

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

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"
 }
}
```

36.13 GET /search/vehiclequeuemanagement/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"
 }
}
```

37. WISE DETECTOR

37.1 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	

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

37.2 PUT /configuration/wisedetector

Set the wisedetector configuration

Sets the confirguration 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 reponse 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

37.3 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"
 }
}
```

37.4 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"
 }
}
```

37.5 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 indentified 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

37.6 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 prameter.
*channel	int32		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"
      }
    }
```

37.7 DELETE /configuration/wisedetector/model

Delete model data

Delete model data based on unique modelID.

REQUEST

QUERY PARAMETERS

NAME	TYPE	EXAMPLE	DESCRIPTION
*channel	int32		Required channel parameter, operation is applicable only for the specified channel.
*modelID	string		Required modelID prameter, 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"
 }
}
```