

VCC Data Models for use with Third Party Integrations

01/10/2024 5:03 pm EST

Summary

This describes the data model third party software should use to pass data in to Video Control Center.

This data model can be found in the [DevOps BoldGroupNuget](#) package under the [VideoControlCenter.Models](#) NuGet.

Data Classes

When sending this data model to VCC, everything follows from the `VccVideoRequest` class. This is the class that should be serialized to JSON or XML and passed to VCC.

VccVideoRequest

Base Class for all data to be send to VCC.

Members

- Operator
 - Required
 - Type: `VccOperator` class
 - Description: The operator making the request
- Customer
 - Required
 - Type: `VccCustomer` class
 - Description: The alarm customer related to the request
- Alarm
 - Optional
 - Type: `VccAlarm` class
 - Description: The alarm information related to the request
- Search
 - Optional
 - Type: `VccSearch` class
 - Description: The search results related to the request
- Devices

- Optional
- Type: List<VccDevice>
- Description: The devices related to the request
- Containers
 - Optional
 - Type: List<VccContainer>
 - Description: The containers related to the request
- Binaries
 - Optional
 - Type: List<VccBinary>
 - Description: The binaries related to the request
- Message
 - Optional
 - Type: VccMessage class
 - Description: The message associated with the request

VccOperator

Represents an alarm operator

Members

- Id
 - Not Currently Used
 - Type: string
 - Description: The operator ID
- Name
 - Conditional
 - Only used when launching the Sureview external viewer.
 - Not used otherwise.
 - Type: string
 - Description: The operator's username to use with external players
- Password
 - Conditional
 - Only used for launching Sureview external viewer.
 - Not used otherwise.

- Type: string
- Description: The operator's password to use with external players
- Extension
 - Conditional
 - Only used for one specific Manitou customer for their external viewer.
 - Not used otherwise.
 - Type: string
 - Description: The operator's phone extension to use with external players
- TranslationStrings
 - Only used with Advanced Integration.
 - This is passed in only using Advanced Integration with a separate message to inform VCC of user information.
 - Type: Dictionary<string, string>
 - Description: User's translation strings for localization.

VccCustomer

Represents an alarm customer for VCC.

Members

- SerialNo
 - Required
 - Type: int
 - Description: The unique numeric identifier for the customer
 - Used for associating videos with a customer.
- CustomerId
 - Required
 - Type: string
 - Description: The unique display identifier for the customer
 - Used for associating videos with a customer
- Name
 - Required
 - Type: string
 - Description: The customer's name
 - Used for associating videos with a customer
- TimezoneOffset

- Required
- Type: int
- Description: The offset (in minutes) from GMT for the customer
- VideoDateTime
 - Required
 - Type: DateTime
 - Description: Date and time for the video
 - Used in video card title text.
- DateFormat (optional) (Only used for Manitou legacy video types.)
 - Optional
 - Only used for Manitou legacy video types.
 - Not used for native VCC video.
 - Type: string
 - Description: A format mask to be used for displaying dates for this customer

VccAlarm

Represents an alarm that is reported to the VCC

Members

- AlarmNo
 - Required
 - Type: int
 - Description: The alarm number (unique identifier)
 - Used for associating videos with a specific alarm.
- UtcAlarmTime
 - Optional
 - Type: DateTime
 - Description: The timestamp of the alarm in UTC time
 - Used for labeling alarm video headers with the alarm time
 - Uses time now if excluded.
- TimezoneOffset
 - Optional
 - Only used for Manitou legacy video types.
 - Not used for native VCC video types.
 - Type: int

- Description: The number of minutes offset the customer is from UTC
- EventCodeId
 - Optional
 - Type: string
 - Description: The event code of the alarm
 - Used in:
 - Labeling alarm video
 - Displaying external Pelco video
 - Logging back to automation (for Advanced Integration)
- EventCategory
 - Optional
 - Type: string
 - Description: The event category of the alarm
 - Used in logging back to automation (for Advanced Integration)
- EventName
 - Optional
 - Type: string
 - Description: The name of the event
 - Used in:
 - Labeling alarm video
 - Displaying external Pelco video
 - Logging back to automation (for Advanced Integration)
- EventArea
 - Optional
 - Type: string
 - Description: The area in which the alarm occurred
 - Used in:
 - Labeling alarm video
 - Displaying external Pelco video
 - Logging back to automation (for Advanced Integration)
- EventZone
 - Optional
 - Type: string
 - Description: The zone in which the alarm occurred
 - Used in:
 - Labeling alarm video

- Displaying external Pelco video
 - Logging back to automation (for Advanced Integration)
- EventSensor
 - Required
 - Type: string
 - Description: The sensor which triggered the alarm
 - Used in:
 - Associating video to a specific alarm
 - Labeling alarm video
 - Logging back to automation (for Advanced Integration)
- LogSequence
 - Required
 - Type: int
 - Description: The sequence number of the activity log which represents this alarm
 - Used in associating video to a specific alarm
- PreTime
 - Not Used
 - Type: int
 - Description: The pre-alarm time
- PostTime
 - Not Used
 - Type: int
 - Description: The post-alarm time
- SystemNo
 - Optional
 - Type: int
 - Description: The system number of the customer on which the alarm occurred
 - Used in logging information back to automation (for Advanced Integration)
- TransitterNo
 - Optional
 - Type: string
 - Description: The transmitter No the reported the alarm
 - Used in logging information back to automation (for Advanced Integration)
- TransmitterId
 - Conditional
 - Only used for one specific Manitou customer

- Not used otherwise.
 - Type: string
 - Description: The transmitter Id the reported the alarm
- TransmitterVideoType
 - Conditional
 - Only used for launching alarm video using the Sureview external viewer
 - Type: string
 - Description: The video type of the video for the alarm
- ReceiverLinePrefix
 - Not Used
 - Type: string
 - Description: The receiver line prefix of the reporting receiver line
- TransmitterTypeid
 - Not Used
 - Type: string
 - Description: The transmitter type ID
- Tag
 - Conditional
 - Only used for launching alarm video using the Sureview external viewer.
 - Type: string
 - Description: A unique tag for the alarm

VccSearch

Represents a search query

Members

- SearchFrom
 - Required
 - Type: DateTime
 - Description: The starting date of the search)
- SearchTo
 - Required
 - Type: DateTime
 - Description: The ending date of the search

VccDevice

Members

- SerialNo
 - Required
 - Type: int
 - Description: The numeric unique identifier for this device
 - Used in:
 - Identifying and labeling device video
 - Exporting reference images to automation (Advanced Integration)
 - Logging information back to automation (Advanced Integration)
- DeviceId
 - Required
 - Type: string
 - Description: The displayed unique identifier for this device
 - Used in:
 - Identifying and labeling device video
 - Exporting reference images to automation (Advanced Integration)
 - Logging information back to automation (Advanced Integration)
- UnitId (conditional) (only used for one specific Manitou customer. Not used otherwise)
 - Conditional
 - Only used for one specific Manitou customer.
 - Not used otherwise.
 - Type: string
 - Description: The unit ID for this device
- UnitSubId
 - Conditional
 - Only used for one specific Manitou customer.
 - Not used otherwise.
 - Type: string
 - Description: The unit SubID for this device
- SystemNo
 - Required
 - Type: int
 - Description: The system number in which this device exists

- Used in:
 - Identifying and labeling device video
 - Exporting reference images to automation (Advanced Integration)
 - Logging information back to automation (Advanced Integration)
- TransmitterId (required) (Used in identifying device video, and logging information back to automation)
 - Required
 - Type: string
 - Description: The transmitter ID associated with this device
 - Used in:
 - Identifying device video
 - Logging information back to automation (Advanced Integration)
- TransmitterNo
 - Required
 - Type: string
 - Description: The transmitter No associated with this device
 - Used in:
 - Identifying and labeling device video
 - Exporting reference images to automation (Advanced Integration)
 - Logging information back to automation (Advanced Integration)
- TransmitterDescription
 - Not Used
 - Type: string
 - Description: The transmitter description associated with this device
- Area
 - Optional
 - Type: string
 - Description: The area for this device
 - Used in labeling device video
- Zone
 - Optional
 - Type: string
 - Description: The zone for this device
 - Used in labeling device video
- Description
 - Optional
 - Type: string

- Description: The description of this device
 - Used in labeling device video
- Address (required) (Network address or identifier of camera to connect to)
 - Required
 - Type: string
 - Description: The address of this device
 - Depending on device type:
 - IP address or
 - Web Address or
 - Site identifier
 - See VCC Video Device Integrations for more information on setting up particular video types.
- Options
 - Required
 - Type: string
 - Description: The options string for this device
 - Camera specific options for connecting to a camera.
 - e.g. username, password, ports, camera name, etc.
 - See VCC Video Device Integrations for options strings for particular video types.
- AlarmNo
 - Not Used
 - Type: int
 - Description: The alarm number for this device
- DeviceType
 - Required
 - Type: VccDeviceType enum
 - Description: The type of this device
 - Typically, will be one of:
 - Camera
 - VideoSequence
 - Container
- MediaType
 - Required
 - Type: string
 - Description: The media type of this device
 - See VCC Video Device Integrations for details for particular video types.
- BjsData

- Conditional
 - Used only for legacy Manitou video types
 - Not used otherwise.
- Type: byte[]
- Description: A Bold Javascript binary to use when displaying this device
- Disabled
 - Required
 - Type: bool
 - Description: True if this device is disabled
 - VCC will not display video devices tagged as disabled.

VccContainer

Represents a container of multiple devices

Members

- ContainerId
 - Required
 - Type: string
 - Description: The unique identifier of the container
- SubContainers
 - Optional
 - Type: List<VccContainer>
 - Description: The list of containers contained by this container
- Devices
 - Optional
 - Type: List<VccDevice>
 - Description: The list of devices contained by this container

VccBinary

Represents a binary object to be displayed by the VCC

Members

- BinaryType (required) (String describing media type. e.g. jpg, mpg, etc.)

- Required
- Type: string
- Description: The type of binary data
 - jpg
 - mpg
 - etc.
- BinaryData
 - Required
 - Type: byte[]
 - Description: The physical binary data
- EvDate
 - Required
 - Type: DateTime
 - Description: The event date to which this binary data applies
- FrameNumber
 - Optional
 - Type: int
 - Description: If this binary data is a frame of video, this specifies the frame number
- FrameSize
 - Required
 - Type: int
 - Description: The size of the frame
- AvFormat
 - Required
 - Type: VccAudioVideoFormat enum
 - Description: The format of this binary data
- Activity
 - Optional
 - Type: VccActivity class
 - Description: The activity log information related to this binary content

VccMessage

Represents a message to the VCC

Currently only supports:

- - Notification that VCC should close alarm video currently being viewed
 - Additional binary log data (Advanced Integration)

Members

- MessageType
 - Required
 - Type: VccMessageType enum
 - Description: The type of the message
- MessageText
 - Not currently used
 - Type: string
 - Description: The text of the message

VccActivity

Represents an customer activity entry

Members

- DateTime
 - Required
 - Type: DateTime
 - Description: The activity timestamp
- UtcTime
 - Required
 - Type: DateTime
 - Description: The activity UTC timestamp
- EventNo
 - Required
 - Type: int
 - Description: The activity event number
- SerialNo
 - Required
 - Type: int
 - Description: The event serial number
- Sequence

- Required
- Type: int
- Description: The sequence number of the activity (allows grouping of events to an event number)
- BinaryObjectType
 - Required
 - Type: string
 - Description: The binary type of the activity
- Text
 - Required
 - Type: string
 - Description: The description of the activity