# **User Guide**

# **VICON**

# Valerus-Aureus Insight® Integration

XX281-80-00





Vicon Industries Inc. does not warrant that the functions contained in this equipment will meet your requirements or that the operation will be entirely error free or perform precisely as described in the documentation. This system has not been designed to be used in lifecritical situations and must not be used for this purpose. Vicon, Valerus and their logos are registered trademarks of Vicon Industries. Aureus Insight is a registered trademark of CyberExtruder, Inc.

Document Number: 8009-8281-80-00 Rev: 4/24 Product specifications subject to change without notice

### Vicon Industries Inc.

Tel: 631-952-2288) Fax: 631-951-2288 Toll Free: 800-645-9116 24-Hour Technical Support: 800-34-VICON (800-348-4266) UK: 44/(0) 1489-566300

# **Table of Contents**

General	3
Adding Aureus Insight to Valerus	3
Integration Partners	3
Partner Resources	5
Alarms	6
Alarms Management	8
Search for Events/Alarms	9
Setting Up Aureus Face Recognition	11
Viewing camera connections	12
Set up an Aureus Insight Alert	14
Alert Criteria for Valerus	15
Alert Transport for Valerus	15
Alert Content for Valerus	16
Alert for Valerus	19
Switching the Alert On	21

#### General

As an enterprise level video management solution, Valerus VMS provides the opportunity to integrate with a variety of integration partners. CyberExtruder® Aureus Insight® Face Recognition is one of the supported integration partners. Once added into the Valerus system, Valerus can react to events that occur within the CyberExtruder's Aureus Insight® Face Recognition system within the Valerus Alarms Management, as well as the Alarms and Rules features. This guide assumes the user has a functioning Aureus Insight Face Recognition system and is familiar with its settings and operations.

The integration of Aureus Insight and Valerus provides a simple and seamless communication between the two software platforms to:

- Enter Valerus user credentials into Aureus Insight to facilitate authorized communication between the two systems.
- Automatically provide Aureus Insight with the list of cameras attached to the VMS, thus allowing Aureus Insight to provide live Facial Recognition (FR) processing and analysis on those camera streams.
- Automatically send Aureus Insight FR alerts to the VMS to provide the VMS user visual feedback when an FR event occurs.
- Ensure that the Aureus Insight alerts are bookmarked in the VMS thus allowing for searches of FR events.

#### Adding Aureus Insight to Valerus

## **Integration Partners**

The Aureus Insight Face Recognition program can be integrated into the Valerus system. Once the integration is complete, events from Aureus Insight can be received and viewed in Valerus. In this way, for example, if Aureus Insight recognizes a face, the face recognition is seen as a Resource and a related camera can provide video of the face.

• From the Valerus main interface, select the Configuration tab from the top. Under Network Devices, select Integration Partners.



• The Add Partner System screen displays as below.



#### 4 Valerus-Aureus Insight Integration Guide

• From the Partner Type, select Facial Recognition. From the Partner Name, select Aureus Insight.

ne	Add Partner System	×	
Partner Type:	Facial Recognition		
Partner Name:	Aureus Insight		
Properties			
Name:	Face		
Http Url	FR		
Extension:			
Target Endpoint URL:	http://10.10.10.120:80/appserver/api/v1		
	Cancel Next		

- Fill in the Properties fields as required. Enter a Name for the partner and an HTTP URL extension; the Target Endpoint URL will automatically populate. Click Next.
- From the Resources list, select the Resources (cameras) to associate with the event. Click Next.



• Click Save. The partner is now listed on the Integration Partner screen. The Properties of the partner are listed to the right. The FR resource can be changed by clicking the Edit Device button. Click on the blue symbol next to Target Endpoint URL to copy the URL; this is needed on the Aureus Insight

		Monitoring	Search	Configuration		Dashboard	Alarms			🔄 🐴	Po	9:45:57 AM 4/4/2024	ADMIN *	2
		Integration Par	nners											
ñ	Home Page	Add Partner	Delete Par	ther Search										
	Network Devices	Name -		Partner Type 🔿	^ Pai	rtner Name 🔿			Status	Partner Type:		Facial	Recognition	
	Start Quick Configuration	V 🔊 Face		Facial Recognition		reus Insight								
	NVRs NVRs	🗸 🖷 VAX 19	90	Access Control	Va	x Access Control							s Insight	
	Secording Failover													
	Lameras and Devices													
	XiconNet Gateway									Http Url Extension				-
	Integration Partners									Target Endpoint				0
-														~
°°										reesource coming	jurauori.	3000	ra resource	-
٢														
2	User Management													
\$														
ж														

# Partner Resources

After Aureus Insight Face Recognition has been added to Valerus, its resources can be added.

• Under Configuration, select Partner Resources, Facial Recognition Sensors. The following screen displays, showing the Facial Recognitions resources that were configured under Integration Partners. From here the Related Resources are selected. Select the checkmark next to the desired camera(s); click Save.



• The Face Recognition Resource(s) will show in the Resources List and can be dragged to a tile for display. If there is an event, it displays as below. If there is no event, a message displays saying waiting for event.



# Alarms

The Alarms screen defines which events are elevated to an alarm level, what resources are bundled with it and the life cycle for the alarm.

• From the Configuration tab, navigate to Advanced > Alarms. Click "New." The alarms editor screen displays. From Event, select Integration Partner.





- Assign the alarm a name.
- The Enable/Disable button allows the alarm to be temporarily disabled as needed without deleting it. Use the slide button to enable/disable.
- Select a schedule from the dropdown list to define a schedule for this specific alarm to run on. This allows using an existing schedule or creating a new schedule using the scheduling system in Valerus. It is important to identify the correct schedule for each alarm to minimize the number of unwanted alarms.
- In the Event field, select Integration Partner for events that will be the trigger this alarm. Select Face Recognition event type and Aureus Insight from the next dropdown.



• Click on Configuration. The following screen displays.

Select an Parameter	operators 🗸	Enter Value			
			Match Person 🗸	Contains ^	Enter Value
Match Score			Additional criteria	Contains	
Match Status	*			Equals (=)	
Match Person				Not Equal (≭)	
Age Estimation					
Gender Estimation					
Facemask Present					
		Cancel Save			

- Select the parameter needed from Match Score, Match Status, Match Person, Age Estimation, Gender Estimation or Facemask Preset. Select an expression from the field for Equals/Not Equals; this field will display Contains if Match Person is selected. Finally, enter a Value or text, depending on what is selected. Click Save to complete the configuration. The typical type of alarm from a facial recognition system is Match Person.
- To add another option, click Additional criteria. This additional criteria can be defined as a logical And/Or, meaning either of these can occur or both must occur for an alarm to be triggered. For example, you might want to know if the Match Person was detected, what the Match Score was.
- From the Resources dropdown (Select button), choose the device (i.e., camera) that the event is expected to trigger an alarm for. Multiple resources can be selected and will be treated as a logical OR if an alarm occurs; if an event is detected on one or the other device, the alarm will be triggered. Up to 5 devices can be linked to an alarm, so if, for example, 10 cameras need to be selected, two alarms will need to be defined. An All button can be used to select all resources in the list.
- Enter a priority for the alarm, 1-5 with 1 being the highest. This priority level can be used later to sort the alarms in the Alarms Management screen.
- Using the Related Resources dropdown, select the resource(s) that will also be available when the alarm is triggered, creating an alarm bundle or package. This is useful if there are multiple cameras in the same area with different views (i.e., a face from camera A relates to camera B in the same area); having a related camera resource can provide a video display to see the alarm. The related resources will show on the Alarms Management screen along with the triggering resource. Note that the related resources selected here are those that will show in the alarm record in the Alarms Management screen, while the single related resource set for the face recognition is used for Rules.
- As an added option, one of the procedures created (remember to create procedures prior to defining the alarms) can be selected to go along with the alarm.
- Select the users who will receive this alarm notification from the roles or users dropdown (or a combination of both). This is important in situations where certain alarms should be shared with specific users while others may need to be shared with different users (for instances where it is inappropriate for some users to view video from certain areas, i.e., alarms from the women's wing in a mixed prison should only go to the women's wing operators).
- When finished, click "Save."

•

# Alarms Management

The Alarms tab on the top of the Valerus interface opens a dedicated screen for Alarms Management and shows the alarms along with their status. These are the events that have been elevated to alarm status set in the Advanced, Alarms screen in Configuration, including Face Recognition alarms. From this screen, the operator can work to review and categorize the alarms. This tab can be moved to another monitor for ease of use. **Refer to the Alarms Management Guide for details on using this screen**.

• At the top of the alarm page, there are several filtering options meant to simplify the selection of the alarms the operator needs to view and work on. In the Search field, Face Recognition can be entered to sort the alarm list for only those types of alarms.

*vicon VALERU	S Monitoring	Search (	Configuration VAX D	A Dashboard Alarms			🛐 🖻 🏳	15:27:59 ADMIN -
Facial Recognition	С	Refresh	New 6 Escala	lated 0 Assigned to me 0	Selected 0 0			
Alarm ID	Triggered Resource	Alarm Name	Event Type	Priority	Time	Assigned to	Status	Actions
14009	172.20.1.64_Camera	FR_Alarm	Facial Recognition Partne	ier Event 1	09-04-2024 15:14:09			
14010	172.20.1.64_Camera	FR_Alarm	Facial Recognition Partne		09-04-2024 15:15:12			
14011	172.20.1.64_Camera	FR_Alarm	Facial Recognition Partne				New	
14012	172.20.1.64_Camera	FR_Alarm	Facial Recognition Partne	ier Event 1				

• After the list is sorted to show Face Recognition alarms, each alarm can be selected to assign or handle. Multiple alarms can be selected. When an alarm has been selected, its details will display in the area at the bottom of the screen. The Additional Information area will display the details provided by the Face Recognition system. In the example below, the video of the matched person is shown with details on Match Score, Match Status, Matched Person, Age Estimation, Gender Estimation and Gender Probability. In the example, the person was matched.



*vicon					Valerus Aureus insight integration	Ould
VALERUS	Monitoring Search Configuration	VAX Dashboa	rd Alarms		₩ 🔁 🏳 15:34:45 11-04-2024 ADM	N* 🖌
«	Event/Alarm Search					
Thumbnail Search	My Query	Query Properties				
Museum Search     Events Framework Search		Name	FR Events	Туре	Public Private Ø	
Analytics Search	searcn Q					
Event/Alarm Search	Name 🔺	Search for	Events Alarms			
Audit Log	<ul> <li>v Private Query</li> <li>aaa</li> <li>LPR_Event</li> <li>UOP_Atarm</li> <li>FR Events</li> <li>v Public Query</li> <li>LPR_Alarm</li> <li>FREArm</li> <li>Motion_Event</li> </ul>	Select timeframe	Fadal Recognition Event            Advanced Filters             Ø              OR             Abd            Ø             Additional criteria             Last 1 day	on	2 selected <ul> <li>Name</li> <li>1722.01.64, Camera, 5, FRTest, FRSensor</li> <li>1723.01.64, Camera, FRMahveh, FRTest, FRSensor</li> </ul>	
					Search U	pdate Query

# Search for Events/Alarms

Under the Search tab, select Event/Alarm Search. Refer to the full Valerus user manual for details about the Search function.



• Select the Event or Alarm to start the search.

When Racial Recognition Event is selected, an Advanced Filters button is provided that allows the user to refine their search.

	Monitoring Search Configuration	A VAX Dashboard	Alarms	🖓 🕰 🏳 12.01:19 PM ADMIN - 🦯
«	Event/Alarm Search			
Thumbnail Search	My Query	Query Properties		
Museum Search				
Events Framework Search			Туре	Public Private Ø
Event/Alarm Search	Name 🔺	Search for	Events Alarms	
Auditog			Facial Recognition Event	Salect resource(s)
		Select timetrame	Select days V	

\$\u03e9 Contract       \$\u03e9 Contract <td< th=""><th>*vicon VALERUS</th><th>Monitoring Searc</th><th>ch Configuration</th><th>VAX Dast</th><th>1 33 11 Nooard Alarms</th><th></th><th></th><th></th><th>🛐 É</th><th>βP</th><th>15:36:00 11-04-2024</th><th>ADMIN -</th><th>2</th></td<>	*vicon VALERUS	Monitoring Searc	ch Configuration	VAX Dast	1 33 11 Nooard Alarms				🛐 É	βP	15:36:00 11-04-2024	ADMIN -	2
Induction In		Event/Alarm Search											
Maxeum Search       -       10 04 4024 1535 02       NA       Facial Recognition P 17220 1.64 Camera         Advance Search       -       10 04 4024 1535 00       NA       Facial Recognition P 17220 1.64 Camera         Detert Aam Search       -       10 04 4024 1535 00       NA       Facial Recognition P 17220 1.64 Camera         Maxeum Search       -       10 04 4024 1535 00       NA       Facial Recognition P 17220 1.64 Camera         -       10 04 4024 1535 30       NA       Facial Recognition P 17220 1.64 Camera       -         -       10 04 4024 1535 30       NA       Facial Recognition P 17220 1.64 Camera       -         -       10 04 4024 1535 30       NA       Facial Recognition P 17220 1.64 Camera       -         -       10 04 4024 1535 30       NA       Facial Recognition P 17220 1.64 Camera       -         -       10 04 4024 1535 30       NA       Facial Recognition P 17220 1.64 Camera       -         -       10 04 4024 1537 30       NA       Facial Recognition P 17220 1.64 Camera       -         -       10 04 4024 1537 35       NA       Facial Recognition P 17220 1.64 Camera       -         -       10 04 4024 1537 35       NA       Facial Recognition P 17220 1.64 Camera       -	Thumbnail Search	Start Time ^	End Time	Event	Resource	Play 🚮 📩 💿	Facial Recognition Details						
Image: Control Search       Image: Control Se	Search Museum Search												
A Adapties Search <ul> <li>I 0.04.2024 15.35.00</li> <li>NA</li> <li>Facial Recognition P.: 172.201.64_Camera</li> <li>I 0.04.2024 15.37.00</li> <li>I 0.04.2024 15.37.00</li> <li>I 0.04.2024 15.37.00</li> <li>I 0.04.2</li></ul>	EVENTS Framework Search	<ul> <li>10-04-2024 15:35:52</li> </ul>	N/A	Facial Recognition P	172.20.1.64_Camera				172 هر	.20.1.64_Camer	니 ☆	ଷ୍ ଜ୍ର	×
Image: Section in the section sectin sectin section section section section section sectin	Analytics Search	✓ 10-04-2024 15:36:00	N/A	Facial Recognition P				Const.			28		
Image: A use Log <ul> <li>             1004-2024 1536:10             NA             Acid Recognition P.: 17220 1.64 Camera             1004-2024 1536:30             NA             Pacial Recognition P.: 17220 1.64 Camera             1004-2024 1536:30             NA             Pacial Recognition P.: 17220 1.64 Camera             1004-2024 1536:30             NA             Pacial Recognition P.: 17220 1.64 Camera             1004-2024 1537:00             NA             Pacial Recognition P.: 17220 1.64 Camera             1004-2024 1537:00             NA             Pacial Recognition P.: 17220 1.64 Camera             1004-2024 1537:00             NA             Pacial Recognition P.: 17220 1.64 Camera             1004-2024 1537:00             NA             Pacial Recognition P.: 17220 1.64 Camera             Recommention             Recommention             Recommention             Recommention             Recommention             Recommention             Recommention             Recommention             Recommentio</li></ul>	Event/Alarm Search	<ul> <li>10-04-2024 15:36:05</li> </ul>	N/A	Facial Recognition P			A 24.	5 3		401.01	IN GAMEN	EETEYE"	j,
<ul> <li>             10.44.2024 15.36.10             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.36.54             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.56             NA             Facial Recognition P 172.201.64_Camera         </li> </ul> Camera Location <ul> <li>             10.44.2024 15.37.56             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.56             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.56             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.56             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.56             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.36             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.36             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             10.44.2024 15.37.36             NA             Facial Recognition P 172.201.64_Camera         </li> <li>             Tacial Recognition P 172.201.64_Camera         </li> <li>             Rach States             Zvytocla         </li> <li>             Rach States             Scientation             Sa             Sa</li></ul>	Audit Log	10.04.0004.45-05-40			-			EY		0			
<ul> <li>             10-04-2024 153.6519             NA             Facal Recognition P 172:20.164 Camera         </li> <li>             10-04-2024 153.6534             NA             Facal Recognition P 172:20.164 Camera         </li> <li>             10-04-2024 153.758             NA             Facal Recognition P 172:20.164 Camera         </li> </ul> Camera Location: <ul> <li>             canera Location:             <li>             canera Location:             <li>             canera Location:             </li> <li>             10-04-2024 153.758             NA             Facial Recognition P 172:20.164 Camera         </li> </li></li></ul> Match Store: <ul> <li>             Facial Recognition P 172:20.164 Camera</li> <li>             10-04-2024 153.752             NA             Facial Recognition P 172:20.164 Camera         </li></ul> Match Store: <ul> <li>             Facial Recognition P 172:20.164 Camera</li> <li>             10-04-2024 153.736             NA             Facial Recognition P 172:20.164 Camera         </li> <li>             10-04-2024 153.736             NA             Facial Recognition P 172:20.164 Camera         </li> <li>             10-04-2024 153.736             NA             Facial Recognition P 172:20.164 Camera         </li> </ul> Matched Person: <ul> <li>             2/////////////////////////</li></ul>		10-04-2024 15.36.10	N/A	Facial Recognition P	172.20.1.64_Camera		Gallery Image C	aptured Image	<b>1</b>	0 4 4		11-04-2024	
<ul> <li>             10-04-2024 15.36.34</li> <li>             NA             Facial Recognition P 172.20.164_Camera</li> </ul> Cameral Location:             Cameral Accounts: <ul> <li>             10-04-2024 15.36.34</li> <li>             NA             Facial Recognition P 172.20.164_Camera</li> </ul> Match Score: <ul> <li>             10-04-2024 15.37.08</li> <li>             NA             Facial Recognition P 172.20.164_Camera</li> </ul> Match Stafus: <ul> <li>             Vertified</li> </ul> Sole              Match Stafus: <ul> <li>             Vertified</li> <li>             10-04-2024 15.37.36</li> <li>             NA             Facial Recognition P 172.20.164_Camera</li>                Match Stafus:             <ul> <li>             Vertified</li> <li>             10-04-2024 15.37.36</li> <li>             NA             Facial Recognition P 172.20.164_Camera</li> <li>             Matched Preson:             <ul> <li>             2/ytoCab</li> <li>             3a -</li></ul></li></ul></ul>		<ul> <li>10-04-2024 15:36:19</li> </ul>	N/A	Facial Recognition P	172.20.1.64_Camera				01:53 P!	M 01: 4 PM	01:55:BM 01:56	PM ORSTEN	2
<ul> <li>             10-04-2024 15:37:30             N/A             Facial Recognition P 172:20.164_Camera             </li> <li>             10-04-2024 15:37:30             N/A             Facial Recognition P 172:20.164_Camera             </li> <li>             10-04-2024 15:37:30             N/A             Facial Recognition P 172:20.164_Camera             </li> <li>             10-04-2024 15:37:30             N/A             Facial Recognition P 172:20.164_Camera             </li> <li>             10-04-2024 15:37:30             N/A             Facial Recognition P 172:20.164_Camera             </li> <li>             10-04-2024 15:37:30             N/A             Facial Recognition P 172:20.164_Camera             </li> <li>             10-04-2024 15:37:30             N/A             Facial Recognition P 172:20.164_Camera             </li> <li>             Hatched Preson:</li></ul>		/ 10-04-2024 15:36:34	N/A	Facial Recognition P	172.20.1.64_Camera		Camera Location : Unknown	94.522					
Image: Construction of Construction		<ul> <li>10-04-2024 15:36:54</li> </ul>	N/A	Facial Recognition P			Match Score :	Faremask Present					
Match Status: Verified 10-04-2024 15 37 36 N/A Facial Recognition P 172 20.164_Camera 10-04-2024 15 37 36 N/A Facial Recognition P 172 20.164_Camera Matched Person: 2VyOCab Age Estimation : 33 Gender Estimation : Matched Person : 2VyOCab		10.04.2024 15:27:09	NIA	Eacial Decognition D	172 20 1 64 Camera		91	No					
Vertified       Vertified       10-04-2024 15:37:36     N/A       Facial Recognition P 172:20.1.64_Camera       Matched Person :       ZVyBCab       Age Estimation :       33       Gender Estimation :       Male		· 10-04-2024 13.37.00		Facial Recognition P	172.20.1.04_Callera		Match Status :						
I 10-04-2024 15:37:36 N/A Facial Recognition P 172:20.1.64_Camera          Matched Person :       2VyBCab         Age Estimation :       33         Gender Estimation :       Male		√ 10-04-2024 15:37:22	N/A	Facial Recognition P	172.20.1.64_Camera		Verified						
2VybCab Age Estimation : 33 Gender Estimation : Male		√ 10-04-2024 15:37:36	i n/A	Facial Recognition P	172.20.1.64_Camera		Matched Person :						
Age Estimation : 33 Gender Estimation : Male Male							2VybCab						
33 Gender Estimation : Male Male I : 10 of 880 items							Age Estimation :						
Gender Estimation : Male							33						
ivade							Gender Estimation :						
I I 1 10 I Store 1 : 10 of 860 Rems							Maic						
Image: Image     1 give image     1 give image													
Image:													
			• • •	10 V items per page		1 <u>-</u> 10 of 890 items							
Back To Query						Back To Query							

# Setting Up Aureus Face Recognition

### Configuring the Connections

#### Obtain a list of cameras connected to Valerus VMS

Login to Aureus Insight and select the Video tab in the top bar. Locate and click the VMS button above the list.



A VMS selection window displays. Select Vicon Valerus

Usage: 1. Select VMS. 2. Input details. 3. Click 'Submit'				Save Submit	:		
1440	Construction of the local distance					Select	
VMS:	Vicon Valerus			Ň		Vicon Valerus	
IP Address:							
Username:							
Password:							
Bookmark Endpoint	:80/appserver/api/v1/exter	nal-events/event					
Name	Resolution	Present	Machine	Select			

- Enter the following information:
  - The local IP address of the server on which Valerus is running, e.g. 192.168.1.200
  - The Valerus username, e.g., admin
  - The Valerus password, e.g., 1234
  - Bookmark endpoint (Target endpoint link mentioned on page 4)
- After entering the Valerus credentials, click *Save* and *Submit*. A list of cameras obtained directly from the Valerus displays. In the example below there is a single camera.

Usage: 1. Select VMS. 2. Input details. 3. Click 'Submit'				Save Submi	it X				
VMS:	Vicon Valerus								
IP Address:	192.168.1.200								
Username:	admin								
Password:						1	. Select ca	mera(s)	
Bookmark Endpoint	:80/appserver/api/v1/exterr								
Name	Resolution	Present	Machine	Select					
Valerus Camera	1920x1080		DESKTOP-CO3H	12H ~ 🗙					
				Add Selected Came	eras	2.	'Add Seleo	cted Cam	eras'

• Click the small red cross (x) to select the cameras to add to the Aureus Insight camera list. Click the blue Add Selected Cameras button. The camera(s) will be added to Aureus Insight, and they will be shown as present in the VMS selection window.



All the cameras listed on the Aureus Insight Video tab can be processed by Aureus. Consult the Aureus Insight User Guide for more details.

# Viewing camera connections

View the video stream of the camera(s) that were just added by right clicking on the camera in the Aureus Insight list and selecting *Open Here*.

Aureus	Insight Hom Valerus Desk	e	Video	Gallery
	Edit			
	Ealt			
📩 Vide				
	Delete			
Access Control	Copy Link to Clipboard			
	Copy Link to Cipboard			
Airport				
	Open in New Tab			
Checkpoints				
	Open in New Window			
Corridor				
Corridor	<b>A</b>		2 Seler	t 'Onen here'
	<u>Open Here</u>		2. Jelec	t opennere
Entrance				
	Play			
	i iay			
Safe city			4	Party second and
	Stop		1. Right (	click on the
Valerus Camera			cam	era icon
Contract	State of the second			
	Play Selected			

• A floating, resizable window opens on the Aureus Insight desktop. Click Start to begin processing the stream.



• The stream begins processing; the camera icon color changes to blue during this process.



Note that the stream can be processed in the background; it is not required to have the stream visible. To do this, simply close the visible window <u>or</u> select *Play* from the right click menu.



• The camera icon changes color to blue while the stream is being processed.



# Set up an Aureus Insight Alert

Aureus Insight provides a powerful and flexible mechanism to make use of the analytics that Aureus provides while processing video streams. An Aureus Insight alert is constructed through three sub items: (1) Criteria (2) Transport (3) Content.

- Criteria: To create an alert, it is necessary to define trigger criteria that determines when (and if) the alert is generated. For example, the alert may be triggered when a verified face identification has occurred, or a person has entered a region of interest.
- 2) Transport: To send an alert, decide how the alert will be transported. For example, the alert could be transported to a HTTP endpoint, a file, a server-side event or an email.
- 3) Content: The alert must contain some useful information in a format that is acceptable by the receiver of the alert. The content should be JSON format for Valerus integration.

# Alert Criteria for Valerus

Although a broad range of Criteria that will trigger an Alert can be defined, most users are interested in knowing when a Verified match has been made against a person who is in the Gallery.

Aureus	Insight	Home	Video	Gallery	Alerts
Alerts	$\equiv$ Criteria Option	IS			
Critoria	Name				
Griteria	Al_Listener				
Transport	AII				
Content	All				
Render	DwellTime				
Health	ROI				
Video	Verified				

# Alert Transport for Valerus

Aureus Insight has a built-in transport type called VMS. This transport uses the VMS credentials (set up in the previous section) to log into the VMS and transfer the alert content to the appropriate VMS endpoint. Aureus Insight has a built-in Valerus transport. Use this transport to ensure that alert content is correctly sent to the VMS.

Aureus	Insight	Home	Vi	ideo	Gallery	
Alerts	$\equiv$ Transport Opti	ons				
Criteria	Name					
Transport	MyFile					
Content	MyNetBINARY					
Render	MyNetHTML					
Health	MyNetJSON					
Video	MyNetTEXT					
Access	MyNetXML					
Email	MV SSE HTML					
	QVMS	Valerus				
	Salient_VMS	New				
	Symphia VMS	Edit				
	Valerus					
	WAVE	Delete				

The built-in transport type can be viewed by selecting the *Alerts* tab at the top. Select the *Transport* item from the left-hand side menu and right click on the *Valerus* item; select *Edit*.

Aureus	Insight Home Video Gallery Alerts Monitors History Machines Users Licens	е	admin
Alerts	Transport: Valerus	Save	Close
Criteria			
Transport	Transport Name: Valerus		
Content	Transport Type: VMS	~	
Render	Select VMS		
Health	VMS: Vicon Valerus	~	
Video	Test		
Access			

# Alert Content for Valerus

The Valerus service expects to receive a specifically formatted JSON payload. Aureus Insight has a built in Alert Content that delivers the required alert content to Valerus.

• From the Alerts tab, select the Content menu on the left-hand side. Right click on the Valerus item in the list of contents and click Edit.

Aureus	Insight Home Video Gallery Alerts Mo	onitors History Machines Users License
Alerts	≡ Content Options	
Criteria	Name	Format
Transport	TestSSE2	техт
Content	Valerus	ИОЗС
Render	Valerus	Логи
Health	WAVE Edit	техт
Video	XML te Delete	XML

• The JSON content Valerus requires will be presented.

Aureus	Sinsight Home Video Gallery Alerts Monitors History	Machines	Users	License	admin
Alerts				Test	Save Close
Criteria	Name: Valerus Format JSC	N Y			
Transport	Taos: cx aureus version				~
Content	cx aureus version : The version of aureus (string)				
Render					
Health					
Video	{     "Camera Information": {     "Camera Information": {     """""""""""""""""""""""""""""""				Î
Access	"Camera Location": "cx when Jostion",	er",			
Email	<pre>}, Cx_map_location }, "Date Time Info": {     "Local time": "cx_local_date_time" }, "Analytics": {     "Age Estimation": "cx_age",     "Gender Probability": "cx_gender_type",     "Gender Probability": "cx_gender_prob",     "Facemask Present": "cx_face mask",     "Liveness Score": "cx_liveness_score",     "Face Detection Box": "cx_face_box",     "Normalized Eve_Positions": {     "Normalized Eve_Positions": {     "State Detection Box": "cate Detection Box"; "cate Dotaction Box"; "cate Dotactions";</pre>				

• Following is a list of the JSON content with the relevant parts highlighted: *WARNING*: If anything is changed from the JSON script then the Aureus integration will not work in Valerus!

```
{
        "Camera Information": {
         "Valerus Resource ID": "cx video context identifier",
         "Camera Location": "cx location",
         "Camera Map": "cx map location"
        }.
        "Date Time Info": {
         "Local time": "cx local date time"
        "Analytics": {
         "Age Estimation": "cx age",
         "Gender Estimation": "cx gender type",
         "Gender Probability": "cx gender prob",
             "Facemask Present": "cx_face_mask",
         "Liveness Score": "cx_liveness_score",
         "Face Detection Box": "cx_face_box",
         "Normalized Eye Positions": {
         "Right Eye": "cx_right_eye_position",
         "Left Eye": "cx_left_eye_position"
        },
        "Facial Recognition Results": {
                 "Match score": "cx matched score",
         "Match status": "cx_matched_status",
         "Probe Image": "cx_probe_image_jpg",
         "Main Person Image": "cx_matched_person_main_image_jpg",
         "Matched Person": "cx_matched_person_name",
         "Match person GUID": "cx_matched_person_guid",
         "People Group Membership": "cx_people_groups",
         "Image Group Membership": "cx_image_groups"
        }
}
```

• The JSON items highlighted in yellow are replaced by Aureus Insight when the alert is generated, as follows:

#### cx\_video\_context\_identifier

This is a unique identifier obtained from the VMS when the list of cameras is obtained. It identifies the camera that generated the Aureus event. Aureus Insight will replace this item with the identifier obtained from the VMS.

cx\_location Aureus Insight will replace this item with the camera geographic coordinates.

cx\_map\_location Aureus Insight will replace this item with the google maps URL (camera geographic coordinates).

cx\_local\_date\_time Aureus Insight will replace this item with time stamp of the event.

cx\_age

Aureus Insight will replace this item with estimation of the person's age.

cx\_gender\_type

Aureus Insight will replace this item with estimation of the person's gender.

#### 18 Valerus-Aureus Insight Integration Guide

#### cx\_gender\_prob

Aureus Insight will replace this item with estimation of the person's gender in percentage.

#### cx face mask

Aureus Insight will replace this item with estimation of face mask presence, from 0 to 1. Lower value indicates no face mask, higher values indicate face mask presence.

#### cx\_liveness\_score

Aureus Insight will replace this item with an estimation of liveness detection, from 0 to 1. Lower value indicates likelihood of a spoof attack.

#### cx\_face\_box

Aureus Insight will replace this item with the face detection box for this person. Normalized coordinates are used with the origin at the bottom left of the image.

#### cx\_right\_eye\_position

Aureus Insight will replace this item with the location of the person's right eye. Normalized coordinates are used with the origin at the bottom left of the image.

#### cx\_left\_eye\_position

Aureus Insight will replace this item with the location of the person's left eye. Normalized coordinates are used with the origin at the bottom left of the image.

#### cx\_matched \_score

Aureus Insight will replace this item with the FR match score.

#### cx\_matched\_status

Aureus Insight will replace this item with a string, either 'Verified' or 'Unverified' depending on whether the detected face produced a verified match to a gallery person.

#### cx\_probe\_image\_jpg

Aureus Insight will replace this item with a string of the detected face image. This string contains a base 64 encoded jpeg.

#### cx\_matched\_person\_main\_image\_jpg

Aureus Insight will replace this item with a string of matched person image. This string contains a base 64 encoded jpeg.

#### cx\_matched\_person\_verified\_name

Aureus Insight will replace this item with the name of the matched gallery person, if, and only if, the match was a verified match; otherwise, the item will be replaced with the string 'Unknown'.

#### cx\_matched\_person\_guid

Aureus Insight will replace this item with the solution wide gallery GUID (Globally Unique Identifier) of the matched person, only if there is a verified match.

#### cx\_people\_groups

Aureus Insight will replace this item with the people groups membership for this person. This information is only relevant for verified match.

#### cx\_image\_groups

Aureus Insight will replace this item with the image groups membership for the matched gallery image. This information is only relevant for verified match.

# Alert for Valerus

Aureus Insight contains a built-in alert for Valerus. Choose the *Alerts* menu in the *Alerts* tab. Right click on the Valerus item and select *Edit*.

Aureus	Insigl	nt Home Vide	eo Gallery A	lerts Monitors Histo	ory Machines Users	License 🔒 admi
Alerts	$\equiv$ Alerts	Valerus				
Oritoria	Name	Nou	ria	Transport	Content	Initialized
Criteria	OpenEye	New	iedStart	OpenEye_VMS (Unknown)	OpenEyeStart (JSON)	
Transport	OVMS	Edit	iedStart	OVMS (Unknown)	OVMS (TEXT)	
Content	Q111D					
Render	Salient_V	Delete	iedStart	Salient_VMS (Unknown)	Salient_VMS (JSON)	
Health	Symphia_	Fund	iedStart	Symphia VMS (Unknown)	Symphia (XML)	
Video	Valerus	Export	iedStart	Valerus (Network)	ValerusII (JSON)	
Access	WAVE	Import	iedStart	WAVE (Network)	WAVE (TEXT)	
Email						
	WAVE5.1_	Launch Web Listener	iedStart	WAVE5.1_VMS (Unknown)	WAVE (TEXT)	

• The alert contains relevant, pre-selected criteria, transport and content. Clicking the *Test* button generates synthesized FR content and sends the alert to Valerus. Note that this test will determine the correct connectivity; the event will not show in the VMS events list, as the video unique identifier will be randomly constructed.

Aureus	Insight	Home	Video	Gallery	Alerts	Monitors	History	Machines	Users	License		admin
Alerts	Alert:	Valerus									Save	Close
Criteria			A14 NI									
Transport			Alert Na	ame: vale	rus							
Content		С	hoose Crit	teria: Veri	fiedStart						~	
Render		0	-									
Health		Cho	ose Trans	port: Vale	rus						ř	
Video		Cł	ioose Con	tent: Vale	rusli						~	
Access	Test											
Email												

• VMS will display the received Aureus Alerts into its layout using the FRSensor.



**NOTE:** In addition to displaying the Aureus Alerts, the Aureus Insight Listener can also be displayed in an external web page. The example below demonstrates the Aureus Insight Listener displaying recent FR events.

Aureus Ins	sight Listener		<b>b</b> 0	Logout
Contraction of the second	?	Name: Unknown Match Score: 0.74 Local Time: 2024-04-02T04:16:30 Camera Name: 74.208.22.253_Camera_1		
	Name: Unknown Match Score: 0.74 Unverified:			
	Name: 2YPtdLm Match Score: 1.00 Verified Match			
	Name: Unknown Match Score: 0.68 Unverified:			
	Name: Unknown Match Score: 0.68 Unverified:			
	Name: Unknown Match Score: 0.69 Unverified:			

 To display the listener simply open a new web browser or tab with the URL: <u>http://IP\_Address:1984/AI\_Listener.html</u> (where IP\_Address is the IP address of the server running Aureus Insight).

# Switching the Alert On

The final step to ensure that all processed alerts are sent to the VMS is to activate the alert within Aureus Insight.

• Go to the *Alerts* tab and choose the *Video* menu from the left-hand side. Click the *Valerus* alert on the top row; this will activate the alert for all the video streams in Aureus Insight. Alternatively, click on the individual ticks or crosses to enable/disable the alerts for each stream. Remember to click *Save* when done.

Aureus	Insight	Home Vi	deo Galle	ery Alerts	Monitors	History	Machines	Users Lice	nse	admir
Alerts									Sav	e Reset
Criteria	Use this page t The left hand o	o assign Alerts i olumn contains	to Videos. the video nam	es and the top ro	w contains th	e Alert na	mes.			
Transport	Right click top I	eft 'Video' to se	lect/clear all.	e tows.						
Content	Video	MyNetAlert	MyNetROI	My_SSE_HTML	OpenEye	QVMS	Salient_VMS	Symphia_VMS	Valerus	WAVE
Render	Access Control	×	×	×	×	×	×	×	<u>~</u>	×
Health	Airport	×	×	×	×	×	×	×	<b>V</b>	×
Video	Checkpoints	×	×	×	×	×	×	×	<b>S</b>	×
Access	Corridor	×	×	×	×	×	×	×		×
Email	Entrance	×	×	×	×	×	×	×	<b>~</b>	×
										••• • *

• If additional cameras are added, revisit this web page to ensure the alert is activated for the new cameras.



# VICON INDUSTRIES INC.

For office locations, visit the website: vicon-security.com

