



FACE RECOGNITION PLATFORM VIVOTEK INC.



VIVOTEK VAST Face User's Guide

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VIVOTEK INC.

VAST Face - User's Guide

VIVOTEK INC.

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Chapter

1. VIVOTEK VAST Face Introduction

Real time authentication, high security level, and increased customer experience with VIVOTEK VAST Face

V IVOTEK VAST Face is a state-of-the-art security enhanced face recognition system, capable of analyzing video streams from IP Cameras, tablets or still images in real-time, for the purposes of verifying a person's identity against an existing face profiles database. Likewise, VAST Face is capable of providing face recognition access reports, and triggering system actions upon detecting an individual in a watchlist.

Thanks to its unique dessign and platform agnostic web client, VAST Face allows operators to acquire data from multiple image sources, manage registered persons face profiles or face groups, generate face recognition reports, and program automated system responses, all under a single interface.

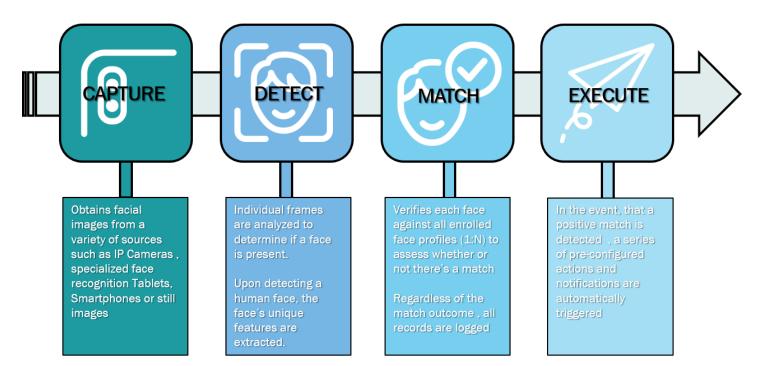


FIGURE 1.1 VAST Face System Process.

vivotek vast face - users' guide 1.1 How does it work?

VIVOTEK VAST Face receives images/video streams from a variety of video sources be it: IP cameras, Face Recognition tablets; each individual frame upon received is analyzed by an A.I engine, responsible for comparing each detected face against an existing face profiles database, a confidence level is then assigned to each match and results are ranked, with only the highest match result being logged as a face recognition events, this high confidence value match then used to deem whether or not this a positive face recognition events. These high confidence events then form the basis for generating reports as well as for triggering any user-defined action.

Users can access VAST Face through a web browser, which allows them to easily enroll and manage persons of interest, generate comprehensive reports, and define system actions. If multiple VAST Faces need to be administered, VIVOTEK FRSM server provides centralized management capabilities for such purposes.

Similarly, in the event that integration with external systems is required, VAST Face comes with a RESTful JSON API to allow 3rd party developers to build applications capable of receiving face recognition events or managing face profiles.

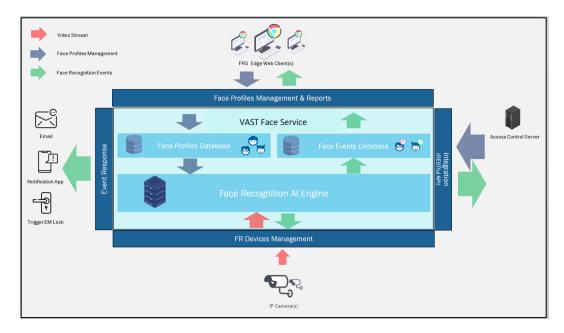


FIGURE 1.2 VAST Face system design.

1.2 System Architecture

VIVOTEK VAST Face is a docker container-based system that runs on Linux Ubuntu Server, it is worthwhile mentioning that VAST Face system is not a single service program, but a collection of dedicated components:

VAST FACE - USERS' GUIDE

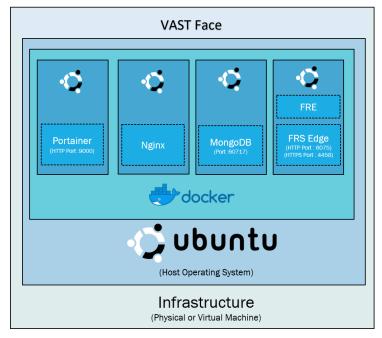


FIGURE 1.3 VAST Face system architecture.

System Component	Purpose						
Linux Ubuntu OS	Operating system used for hosting docker and its containers						
Docker	OS Level virtualization platform designed for running container-based applications.						
Portainer Docker	Management UI used for Docker containers management						
MongoDB	NO-SQL database engine used for storing enrolled person face profiles, face recognition events, logs, and system configurations						
Nginx	Web Reverse proxy used for redirecting traffic from any of the underlying containers to a specific port / protocol						
FRE	VIVOTEK's signature deep learning face Recognition A.I Engine						
VAST Face	Main application server responsible for:						
	Hosting the face profiles database (photo image and other profile data)						
	Interfacing with AI Engine						
	Issuing face recognition reports						
	Triggering user defined actions based of face recognition events						
	Providing integration capabilities with external systems						

Chapter 2

2. VAST Face Installation

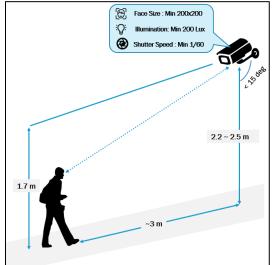
This chapter describes how to Setup VIVOTEK VAST Face

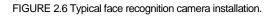
2.1 Camera Installation

VAST Face is capable of supporting virtually any IP camera brand with H.264 video streams, however, in order to effectively capture and accurately analyze all passersby faces, cameras must be able to produce a clear face image, as such, it is vitally important that they are mounted and configured properly. Some technical considerations include but are not limited to:

- Cameras must be mounted within a 15 degrees or less tilting angle, so that complete faces can be captured, important face features such as eyes, nose and mouth must not be occluded.
- While there's no specific camera resolution or focal length required, cameras must be mounted at a distance away from the target area such that they can produce a clear and visible face image, with a minimum size of 200 x 200 pixels for face recognition, or 100 x 100 for face detection
- Cameras must use a minimum shutter speed of 1/60 to prevent motion blur
- Cameras must be installed at locations with a minimum 200 Lux. Good constant and even illumination is always preferred, whenever possible locations with backlights or shadows must be avoided.

The below diagram depicts a typical camera installation. Under this scenario, the camera will be able to recognize faces at a distance for up to three meters





Note

• For face recognition tablets, please make sure that the faces are captured at an eye-level height, and at a distance of no more than 1 meter away from the image capturing device.

VIVOTEK VAST FACE - USERS' GUIDE 2.2 Face Profile Images

Just as important as it is properly mounting video sources for face recognition, the registered photos (aka golden samples) inside the faces database must also be as clear as possible. In general, it is recommended that the database image should minimally comply to the requirements for Passport images as specified by the International Civil Aviation Organization (ICAO). The ICAO Image requirements covers pose, illumination, image brightness, contrast color, etc.

Some technical considerations before enrolling a photo into the faces database, include but are not limited to:

- Face must be centered and show full face with eyes open.
- Avoid any shadows or reflections on face (or behind), neither the image must be overexposed / underexposed.
- Use natural expressions, and avoid wearing sunglasses or any caps.
- Image must show correct face aspect (not enlarged or stretched).
- Image must not be pixilated or show unnatural skin tones.



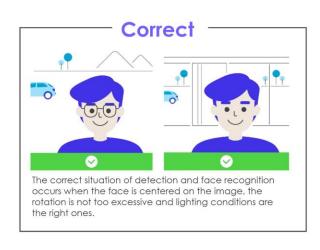


FIGURE 2.7 Good and bad examples for face profile photos.

Note

- Images must be in .PNG, .JPG or .JPEG format with a file size not greater than 1MB
- The enrolled photo must have a face size of at least 200 * 200 pixels

Chapter 3

2 VAST Face Operation

This chapter describes how to operate VAST Face for daily operations.

3.1 VAST Face General Operation

VAST Face allows users to effectively manage multiple video devices used for facial recognition. Supported video sources include: IP cameras, specialized face recognition tablets running signature face recognition app.

Moreover, VAST Face acts as a centralized face profiles repository in which users can enroll a person of interest by attaching a face photo and the person's particulars. In order to improve data sense making, face profiles can be assigned to one or multiple face groups. Similarly, VAST Face provides a reporting platform where users can verify face recognition events in real time, or query historical data.

For unattended system deployments, operators can configure VAST Face to trigger automated actions upon identifying a specific profile or a group member. Likewise, in the event that integration with external systems is required, a software development kit (SDK) is readily available.

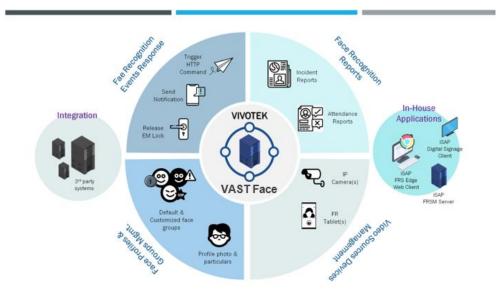


FIGURE 3.1 VAST Face core features.

VIVOTEK VAST FACE - USERS' GUIDE 3.1.1 Change User Account Password

- On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed ,login using the assigned credentials.
- 2. Click on the Admin, located on the top right corner, to display the user's profile information.

= 🔃 VASTFO	ace		🚔 Admin 🔨
🐣 Account		My Profile	
Q Investigation	>		Save
2≡ Person	>		
🗗 Video Source	>	Account	
Devices	>	Admin	
🛱 Schedule		Role System Administrator	
📮 Greeting		* Name	
Action	>	Admin	✓
😂 Settings	>	* Email	
🗂 Logs		Admin@service.com	✓
			Save



- 3. Click on Change Password icon, which is identified by a key(<-)
- 4. Enter the username's current password, the new password, and confirm the new password.
- 5. Click on "Save" to apply changes.

= 👤 VASTFace				🟺 Admin ^
🐣 Account	Change Password			
Q Investigation	Change rassword			
💶 Person 🔹 🕨				
🗗 Video Source 🛛 🔸				
Devices	Password rules:			
🛱 Schedule	 At least 8 characters At least 1 capital english alphabet 			
📮 Greeting	At least 1 lowercase english alphabet At least 1 number			
Action >	Recommended to use at least 1 special symbol	J		
📽 Settings 💦 🔸	* Previous Password	* Password	* Confirm Password	
📋 Logs	Previous Password	Password 💿	Confirm Password	۲
				Confirm
	FIGURE 3.3	VAST Face update password settings.		

6. Login to VAST Face using the new password.

VIVOTEK VAST FACE - USERS' GUIDE 3.1.2 Account Management (System Admin Only)

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an System Admin account.
- 3. Navigate to "Account Management" menu ⇒ A list of all created user account will be displayed.

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🛎 Account		Acc	oun	÷						
Q Investigation	>	ACC	.001	•						Delete
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🗗 Video Source	>	Key	/word							
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🛗 Schedule										
Greeting									Apply	Clear
Action	>									
📽 Settings	>	-								
📋 Logs										
				NO	Account	Role	Name	Email	Change Password	Actions
				1	frs_manager	FRS Manager	frs_manager	frs_manager@service.com	P	C
				2	APP	App Client	Aa123456!	wwf@wef.23	P	C D
				3	admin	Administrator	qwdq	qwdqwd@wqqwd.qwd	P	c û

FIGURE 3.4 VAST Face Account management

- 4. Use the Display filters to narrow down results by: account, name or email.
- 5. Click on the search button ()button, to display only profiles matching the filter criteria.
- 6. In order to see a account complete details, click on the "Profile Details" icon (¹), and select Edit, the selected profile full details will be displayed.
- 7. Edit any account information as needed.

= 🚺 VAST Face

	<pre> frs_manager save </pre>	
Q Investigation		e Cancel
∎= Person		
🛃 Video Source	Account	
Devices	frs_manager	
苗 Schedule	* Name frs_manager	~
- Greeting	* Email	
Action	frs_manager@service.com	✓
😂 Settings	Role	
📋 Logs	FRS Manager	
	Save	Cancel

🚔 | Admin 🔺

FIGURE 3.5 VAST Face Account details

- 8. Click on "Save" to apply changes.
- 9. To Delete a profile, click on the "Profile Details" icon (*), and select Delete (
- 10. A pop-up window will appear on-screen prompting the user to confirm the action.
- 11. Click on "Confirm" to delete the selected account(s).

12. To add a new account, click on the "+Create" button (* Create").

= 🔃 VASTFace		-	Admin 🔺
🚢 Account	< Create Account	-	
Q Investigation >		Save	Cancel
▲■ Person >			
🗗 Video Source 🔹 🔸	* Account		
Devices >	Account		
🛱 Schedule	Password rules:		
🖵 Greeting	At least 8 characters At least 1 capital english alphabet		
Action >	At least 1 lowercase english alphabet At least 1 number		
📽 Settings 💦 🔸	 Recommended to use at least 1 special symbol 		
â Logs	* Password * Confirm Password		
	Password O Confirm Password		0
	* Name		
	Name		
	* Email		

FIGURE 3.7 VAST Face create account

13. On the "Create account" menu, enter the new account information:

a. Account ➡ User account

- b. **Password ➡** User password
- c. Confirm Password ➡ Confirm again user password
- d. Name ➡ User name
- e. Email
 User's Email, if forgot the password need to use that email to account verify
- f. Role ➡ User role (access to platform functions)

14. Click on "Save" to create the Account.

2.2 Face Profiles Database

3.2.1 Face Profiles Management

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

= 🚺 VASTFace				👙 Admin 🔨
🛎 Account	Person			
Q Investigation			Delete Create Download Excel Download Enroll E	cel Batch Enroll
	Filter Condition			^
Person List	Keyword	Card #	Person Tags	
Person Tag List	Search for name, employee #, position or email	Card #	Person Tags	•
🗗 Video Source			Apply	Clear
Devices			(the)	Cicur
苗 Schedule				
Greeting				

FIGURE 3.8 VAST Face enrolled face profiles

- 4. Use the Display filters to narrow down results by: name, email, employee #, or face groups.
- 5. Click on the search button ()button, to display only profiles matching the filter criteria.
- 6. In order to see a face profile complete details, click on the "Profile Details" icon (¹), and select Edit, the selected profile full details will be displayed.
- 7. Edit any profile information as needed.

= 🤨 VASTFace	4 Admin o
🛎 Account	
Q Investigation	* Card # or photo should be filled in either
🛤 Person 👻	Photo
Person List	
Person Tag List	
🗗 Video Source 🔹 🔸	
Devices >	
苗 Schedule	
📮 Greeting	
Action >	
📽 Settings 💦 🔸	
🗎 Logs	

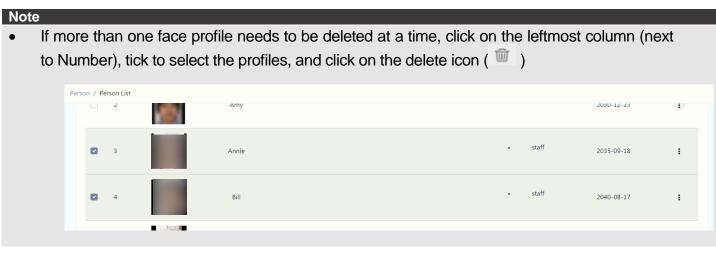
FIGURE 3.9 VAST Face enrolled person profile with full details

- 8. Click on "Save" to apply changes.
- 9. To Delete a profile, click on the "Profile Details" icon (¹), and select Delete (^{[] Delete}).
- 10. A pop-up window will appear on-screen prompting the user to confirm the action.

Person J P	erson Dist								Adn	tin 😝 Togout
Pers	son							+ Crest	B Sporte See	± Ratch∓nroll
										*
Key	word			Card #			Pers	on.Tag		
		Email, Employee # or Po		Card #						÷
				Confirm Delete	×				1	Q Search
				Do You Want to delete selected person(s)	,					e •
	No	Photo	Name	Cancel Confirm	mail	Card #	Per	son Tags	Expiration Date	
	I.		Alex				19	staff	2025-02-04	1
	2		Ату				2	staff	2030-12-23	1
	1.81		Annie				88	staff	2035-09-18	I
		-								

FIGURE 3.10 VAST Face delete face profile

11. Click on "Confirm" to delete the selected face profile(s).



12. To add a new profile, click on the "+Create" button (+ Create).

🗏 🚺 VAST Face	y Admin 🔨 🗧	資源回收筒 iSA
🛎 Account		
Q Investigation	* Card # or photo should be filled in either	
🖪 Person 🗸 🗸	Photo	_Release N
Person List		
Person Tag List		0619Log_ P
🗗 Video Source 🔹 🔸		
Devices >		Chiyu Sh
🗰 Schedule		
📮 Greeting		
Action >		FaceMana s
📽 Settings 🔹 🔸		•
🗎 Logs		ffmpeg T
		GIANT Tra
		GIANT Tra photos

FIGURE 3.11 VAST Face create face profile

- 13. On the "Create profile" menu, enter the new profile information:
 - a. **Photo** ⇒ Profile photo image used for face recognition (selected image must be .PNG, .JPG or .JPEG and must be less than 1 MB).
 - b. Name ➡ Person's name.
 - c. Employee $\# \Rightarrow$ (Optional).
 - d. Position \Rightarrow (Optional).
 - e. Contact Number \Rightarrow (Optional).

 - g. Card # → (Optional) Virtual card number that is to be assigned to this face profile. In the event that no ACS system is linked to VAST Face, it's recommended to let the system auto-assign this number, else, users should input the Wiegand card # assigned to this profile under the 3rd party Access control system (ACS).
 - h. Person Group ➡ (Optional) Face group(s) to which the enrolled person will be a member of.
 - i. Remarks ➡ (Optional).
 - j. Expiration Date → Last approved day for the enrolled person to be able to authenticate at VAST Face, upon reaching this expiration date, the profile will be auto-deleted from the system.

VIVOTEK VAST FACE - USERS' GUIDE 14. Click on "Save" to create the profile.

VIVOTEK VAST FACE - USERS' GUIDE 3.2.2 Batch Enrollment

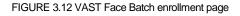
1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.

🚢 | Admin 🔺

- 2. Login to VAST Face using an Administrator account.
- 4. Click on the "Batch Enroll" button (Batch Enroll), the bulk enrollment page will be displayed.

=	A	VASTFace
_	Ľ	VASIFace

🐣 Account	<	R	atel	n Enr													
Q Investigation		D	uici														
Person List	(Only fir	rst 100 pe	erson car	n be enro	olled in or	ne single	file, other rec	ords will b	e dropec	я.						
Person Tag List		* Choo	ose .xlsx	file						* Ch	oose Imag	e Directo	ory				
		No fil	le chosei	n					Browse	No	file chose	n					Browse
Video Source																	
Devices														Down	load Exce	el Template	File
Schedule														_			
Greeting																	
Action >																	
📽 Settings 💦 🔸		NO	Photo	Photo 1	Photo 2	Photo 3	Photo 4	Employee #	Name	Position	Phone	Email	Card #	Person Tags	Remark	Expiration Date	API Messo
🗎 Logs									1		1				1	1	
															Sav	ve B	ack



- 5. Click on the "Download Excel template file".
- 6. On a PC with Microsoft Excel, open the template file, edit it as needed, and save all changes.

E	15-	¢, ±									Batch Enroll Person.	xlsx - Exce	1
Fil	e Ho	ome Insert	Page Layout	Formulas	Data R	eview View Deve	loper	Help	🖗 Tell me what you	want to do			
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D7		• : ×	√ f _×										
				D									м
1	No	Photo	Employee #	Name	Position	Contact Number	Email	Card #	Person Group	Remarks	Expiration Date		
2	1	rc1.jpg	123	test one					VIP		2025/02/05		
3	2	rc2.jpg	124	test two							2025/02/05		
4	3	rc3.jpg	125	test three					VIP		2025/02/05		

FIGURE 3.13 VAST Face bulk enrollment template file (mandatory fields are highlighted in yellow)

- 7. Back on VAST Face, click on the "Choose .xlsx file textbox", and browse to select the excel file containing the new profiles' information.
- 8. Click on the "Choose image directory textbox", and browse to select the working directory folder where the profiles' photo images are located.
- 9. In the event that the file has some data validation errors, VAST Face will highlight the cells whose data needs to be revised, please note that all errors must be corrected before the profiles can be created.

	-									
tch	Enro	oll Perso	on							
										3
Ľ	_					2				
Upload	File					Check Data				Send Res
No	Photo	Employee #	Name	Position	Contact Number	Email	Card #	Person Tags	Remark	Expiration Date
1		emp_1	Jack	RD	+0537710363	emp_1@gmail.com	11223344	• VIP • VIP		2025/02/05
2		emp_2	Mark	QA	+0256254159	emp_2@gmail.com	55667788	• Staff • Staff	Docker	2030/12/24
3		emp_3	Bill	Backend	+0512399351	emp_3@gmail.com	99001122	BlacklistBlacklist	iOS	2035/09/19
4		emp_4	Maria	Frontend	+0567952314	emp_4@gmail.com	33445566	Data not match Visitor;Visitor	Android	2040/08/18
5		emp_5	Joanne	PG	+0104275827	emp_5@gmail.com	77889900	Data not match Admin:Admin		2045/11/11
6		emp_6	Jack	RD	+0820202631	emp_6@gmail.com	9876543210	Data not match		2055/12/12

FIGURE 3.14 VAST Face bulk enrollment file and images showing an error

10. Once the file is error-free, upload again, click on "Save", and wait for the profiles to be created.

11. After all profiles have been created, the system will display the bulk upload results.

tch	Enroll P	Person									
	Linoiri	croon									
9)					-0-]
Upload	fla:					Check Data					Send Res
No	Photo	Employee #	Name	Position	Contact Number	Email	Card#	Person Group	Remarks	Expiration Date	API Message
1		123	test one					+ VP		2025/02/05	Enroll Success
2		124	test two							2025/02/05	Erroll Success
3		125	test three					* VP		2025/02/05	Emoli Success
											🛪 Close 🛛 🔶 Bac

FIGURE 3.15 VAST Face bulk enrollment results

vivotek vast face - users' guide 3.2.3 Person Tags

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 3. Navigate to "Person" menu ➡ "Person Tag List", a list of all created person group will be displayed.

= 🕕 VASTFace				👙 Adm	nin 🔨
🖶 Account					
Q Investigation	Keyword Search for tag name				
🖪 Person 🗸 🗸	Sedicition log name				
Person List			Apply	Clear	
Person Tag List					
🗗 Video Source 🔹 🔸					
Devices >					
🛱 Schedule	NO	Name	Default	Actions	
🖵 Greeting	1	Administrator	~		
Action >	2	Employee	~		
😂 Settings >	3	Blacklist	~		
🗎 Logs	4	VIP	~		Ť
	5	Watchlist	~		Ţ
	6	Figure 3.16 VAST Face person group list		2 1	

- 4. Use the Display filters to narrow down results by: group name.
- 5. Click on the search button ()button, to display only profiles matching the filter criteria.
- 6. In order to see a person group complete details, click on the "Profile Details" icon (¹), and select Edit, the selected profile full details will be displayed.
- 7. Edit any profile information as needed.

	VASTFace	FACE - USERS' GUIDE 🚔 Admin	^
🙁 Acc	ount	Create Person Tag Save Car	
Q Inve	stigation >		cel
E Perse			
Pers	on List	* Name	
Pers	on Tag List	Name	
🛃 Vide	eo Source >		
🗖 Devi	ices >	Save Cancel	
🛗 Sche	edule		
🖵 Gree	eting		
		FIGURE 3.17 VAST Face person group detail	

- 8. Click on "Save" to apply changes.
- 9. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (1).
- 10. A pop-up window will appear on-screen prompting the user to confirm the action.
- 11. Click on "Confirm" to delete the selected person group(s).
- 12. To add a new person group, click on the "+Create" button (+ Create").
- 13. On the "Create person group" menu, enter the new person group information:
 - a. **Group name** A user-friendly name to identify this person group.
- 14. Click on "Save" to create the person group.

3.3 VAST FACE - USERS' GUIDE

3.3.1 Persons Report

Note

- This type of report aka "historical reports" is used to display past face recognition events, for the purposes of providing a reliable face recognition events access log.
- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 3. Navigate to "Investigation" menu ➡ "Person".

= 🤨 VASTFa	ice				🚔 Admin 🔺
🐣 Account		Filter Condition			^
Q Investigation	>	Keyword			
	~	Search for tag name			
Person List				Apply	Clear
Person Tag List					
🛃 Video Source	>				
Devices	>				
苗 Schedule		ΝΟ	Name	Default	Actions
🖵 Greeting		1	Administrator	~	
Action	>	2	Employee	~	
📽 Settings	>	3	Blacklist	~	
🗎 Logs		4	VIP	~	Ţ
		5	Watchlist	~	Ŧ

FIGURE 3.20 VAST Face persons report

- 4. Use the Display filters to narrow down results by: name, person type, or location.
- 5. Click on the "Search" button, only events matching the filter criteria will then be displayed on-screen.
- 6. In the event, that the face recognition to be exported, click on the "Export to Excel" button, which will export all on-screen face recognition events including the captured face snapshot.

VIVOTEK VAST FACE - USERS' GUIDE 3.3.2 Actions Report

Note

- This type of report aka "Action Log" is used to display which user-defined actions were automatically triggered in response to face recognition events.
- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

= 🔃 VASTFace						🚔 Admin 🔺
🐣 Account	Action Investi	aation				Download Excel
Q Investigation 🗸		gunon				
Person	Filter Condition					^
Action	Start Date	End Date		Start Time	End	lime
Attendance	Start Date	End Date	(++)	Start Time	() End	Time (0
🚨 Person 🛛 🔸	Keyword		Card #		Action Type	
🗗 Video Source 🛛 🔸	Search for name, employe	e #, action name or dev	Card #		Action Type	*
Devices >						Apply
🛱 Schedule						
Greeting						
Action >						
📽 Settings 💦 🔸	NO Datetime 🗸	Person 💠 🚯	Action Type	Action Name 🗘	Rule 🗘	Devices 🚯
â Logs	1 2022/06/06 1 17:13:41	Nicolas	Video Source	Demo	Both known and unkno	wn • VAST 2 / Demo

FIGURE 3.21 VAST Face actions report.

- 4. Use the Display filters to narrow down results by: name, person type, location or date range.
- 5. Click on "Search" button.
- 6. Only events matching the filter criteria will now be displayed on-screen.
- 7. In the event, that the action log needs to be exported, click on the "Export to Excel" button, results will be sent to a .XLSX file.

Note

- This type of report aka "attendance report" is used to display when an enrolled person has entered / exited the premises, possible applications for it include: security guards, shift supervisors, HR managers.
- Entry time and out time & location are defined as the first and last instance when and where the person was detected. Likewise, stay time is computed as the time difference (delta) between the OUT event minus the IN event.
- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

= 🧵 VASTFace					👙 Admin 🔺
🛎 Account	The condition				
Q Investigation 🗸	🜲 Date search tip:				
Person	👉 Can only sea 👉 When search		ithin 31 days. date, time left early than should be la	ter than time arrived late than.	
Action	\				'
Attendance	* Start Date		* End Date	Time Arrived Late Than	Time Left Early Than
	2022/06/06		2022/06/06	Time Arrived Late Than (3)	Time Left Early Than (3)
E Person	* Offset Time		Stay Time Min Hour(s)	Stay Time Max Hour(s)	Scope (Default: Show Up)
🛃 Video Source >	00:00	©	Hour(s) should be between 0 to 24	Hour(s) should be between 0 to 24	Show Up 🔻
Devices >	Keyword			Person Tags	
🛱 Schedule	Search for name or emplo	yee #		Person Tags	▼
Greeting					
Action >					Apply Clear
😂 Settings >					
🗎 Logs					Ŀ

FIGURE 3.22 VAST Face Attendance reports

- 4. Use the Display filters to narrow down results by: name, person type, location or date range.
- 5. Click on "Search" button, only records matching the filter criteria will be displayed on-screen.
- 6. In the event, that the attendance needs to be exported, click on "Export to Excel" button, which will export all records with thumbnails included into a .XLSX file.

3.4 Video Source management

3.4.1 Camera

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 3. Navigate to "Video Sources" menu ➡ "Camera", a list of all created camera will be displayed.

mera licenses c	are used	ł						De	Create
when FRS	Edge lic	ense count	large	r than camera	ıs can be creat	eed camera			
NO	Name	FR Threshold	ROI	Merge Face 🚯	Cap. Face Count	Face Radio 🚯	Decode Mode 🚯	Face Attribute	Side Face Filter
□ NO	Name VIVOTEK	FR Threshold	ROI	Merge Face () 0 sec / 80%	Cap. Face Count	Face Radio ()	All / 500	Face Attribute	Side Face Filter

FIGURE 3.23 Video Sources – camera list

- 4. In order to see a camera complete details, click on the "Profile Details" icon (¹), and select Edit, the selected camera full details will be displayed.
- 5. Edit any profile information as needed.

Name	
Name	
RTSP	
ex. rtsp://usemame:password@192.168.0.100/rstp_url	
econd Stream RTSP	
ex. rtsp://username:password@192.168.0.100/rstp_url/2	
FR Threshold (Between 0% to 100%)	
80	
Merge Face Interval (between 0 to 15 Seconds)	
5	
for not merge	
Merge Face Threshold (Between 0% to 100%)	
80	
Cap. Face Count	1
0	4

FIGURE 3.24 Video Sources - camera details

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

VIVOTEK VAST FACE - **USERS' GUIDE** 9. Click on "Confirm" to delete the selected camera(s).

10. To add a new camera, click on the "+Create" button (+ Create").

° Name	
Name	
* RTSP	
ex. rtsp://usemame:passward@192.168.0.100/rstp_uri	
Second Stream RTSP	
ex.rtsp://usemame:password@192.168.0.100/rstp_url/2	
* FR Threshold (Between 0% to 100%)	
80	
* Merge Face Interval (between 0 to 15 Seconds)	
5	
0 for not merge	
* Merge Face Threshold (Between 0% to 100%)	
80	
* Cap. Face Count	1
0	

FIGURE 3.26 Video Sources create camera

11. On the "Create camera" menu, enter the new camera information:

- a. **Camera name** \Rightarrow A user-friendly name to identify this camera.
- b. RTSP ➡ The IP camera Full RTSP URL path, including the device's username and passwords.

(i. e: rtsp://root:fstadmin@192.168.1.38:554/axis-media/media.amp)

Note

- Each IP camera manufacturer will normally use a different RTSP URL.
- Only H.264 RTSP video streams are supported.
 - c. Second Stream RTSP ➡ (Optional) The second stream position of the camera image for other live streaming needs. If there is no setting, use the first RTSP stream together.
 - d. FR Recognition Threshold ➡ The minimum face recognition confidence level value (aka match rate) between the captured image and the enrolled face in the database, a higher value (from 0.0 to 1.0) indicates that a closer resemblance to the golden sample image is required for the system to mark the event as positive face recognition.
 - e. Merge Face Interval ➡ Interval (in seconds) for how long the face recognition engine should wait before reporting a new face recognition event for the same person.
 - f. Minimum Face Width & Hight ➡ The minimum face width and height size (in pixels) that is required for analyzing a face, faces with smaller dimensions are discarded.

- g. Capture Interval → The frequency (in milliseconds) for how often a video frame is extracted from the video source, and analyzed by the face recognition engine.
- h. Comment \Rightarrow (Optional)
- j. Side Face Filter ➡ Specialized filter that if enabled, will discard all non-frontal full-face images.
- k. Biggest Face Only → Specialized filter that if enabled, and in the event that there are multiple faces within the same video frame, will result in only the largest face being analyzed.

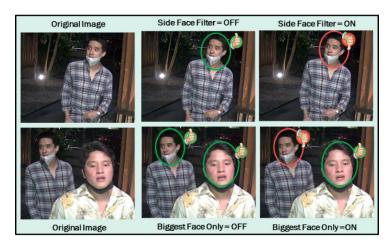


FIGURE 3.27 Face filter examples showing analyzed and rejected faces.

備註

- If there are multiple faces in the captured snapshot, the recognition engine of VAST Face may preferentially select the first face to the left (or right). When Biggest Face Only is turned on, it will capture all faces in the snapshot. Choose the face that recognizes the biggest, so performance may be affected.
- 12. Click on "Save" to create the camera.

3.4.2 Tablet

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 3. Navigate to "Video Sources" menu ➡ "Tablet", a list of all created Tablet will be displayed.

🛎 Account	Tablet Create
Q Investigation >	Delete Create 0 of 32 licenses are used Create
Person >	
🗗 Video Source 🗸 🗸	
Camera	
Tablet	NO Name Account FR Threshold Status Face Attribute Side Face Filter Comment Change Password Actions
Devices	Show Rows $10 \sim$ of 0 Item(s) $(< 1) > >$
🛱 Schedule	
📮 Greeting	
Action >	
📽 Settings 💦 🔸	

FIGURE 3.28 Video Sources – Tablet list

- 4. In order to see a tablet complete details, click on the "Profile Details" icon (¹), and select Edit, the selected tablet full details will be displayed.
- 5. Edit any profile information as needed.
- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon ($^{\square}$), and select Delete ($^{\square Delete}$).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.
- 9. Click on "Confirm" to delete the selected tablet (s).
- 10. To add a new tablet, click on the "+Create" button (+ Create").
- 11. On the "Create tablet" menu, enter the new tablet information:
 - a. Tablet name \Rightarrow A user-friendly name to identify this tablet.
 - b. Account ➡ A unique username account that the tablet will use to connect to VAST Face.
 - c. Password ➡ System password used to protect the tablet's username account.
 - d. Confirm Password ➡ Confirm Password again
 - e. Threshold → The minimum face recognition confidence level value (aka match rate) between the captured image and the enrolled face in the database, a higher value (from 0.0 to 1.0) indicates that a closer resemblance to the golden sample image is required.

FIGURE 3.32 FR Threshold Comparison.

- g. Comment \Rightarrow (Optional)
- h. Remark
 ➡ (Optional)
- 12. Click on "Save" to create the tablet.

3.5 Device Management

3.5.1 **I/O Box**

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 3. Navigate to "Devices" menu ➡ "I/O Box", a list of all created Ethernet I/O Relay will be displayed.

= 👤 VASTFace									👙 Admin 🥎
🖶 Account	I/C	Box							Delete Create
Q Investigation >									
E Person >									
Video Source >									
Devices 👻			NO	Name	IP	Port	Delay Seconds	Out Point 📵	Actions
I/O Box		Show Rows	0 v of 0 Item(s)	« < 1 > »					
Moxa									
Wiegand									
Advantech ADAM									
HTTP Command									
AO-20W I/O									
AO-20W WG									
Email Notification									
VAST 2									
📋 Schedule									
Creeting									
Action >									
¢€ Settings →									
🗎 Logs									

FIGURE 3.33 Device – I/O Box list

- 4. In order to see a tablet complete details, click on the "Profile Details" icon (1), and select Edit, the selected I/O Box full details will be displayed.
- 5. Edit any profile information as needed.

= 🔃 VASTFace		€ /	Admin
😩 Account	< Create I/O Box	Save	Cance
Q Investigation >		0010	Conci
E Person >			
🗗 Video Source 🔷 🔸	* Name		
Devices 🗸	Name		
I/O Box	- 1d		
Моха	P		
Wiegand	* Port		
- Advantech ADAM	Port should be between 0 to 65535		
HTTP Command	* Delay Seconds		
AO-20W I/O			
AO-20W WG	Out Point		
Email Notification	* Channel * Status		
VAST 2	Channel		Ŧ
🗰 Schedule			
Greeting	Test Save	Ca	ncel
Action >	FIGURE 3.34 Device – I/O Box details		

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (1).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

U VASTFace									Admin 😣 Log
FRS 2.0	Devices /	L/О Вож							
	1/0	Box							+ Crest
	1/0	DOX							
									a •
		No	Name	Protocol	IP	Port	Delay Seconds	Out Points - Channel / Status	
	0	1	an	tcp	10.66.2.89	12345	1	Channel: Channel 1 / Status: Open	1
	_								_
	Shov	y 10 C Ent	ries Showing 1	to 1 of 1 entries	Confirm Dele	te	×		« Prev 2. Next »
					Are you sur	e you want to delete	the selected I/O Box(s) ?		
						(ancel Confirm		
					_				
	Copyriat	nt @ 2009-20.	21 VIVOTEK INC. A	All rights reserved.					

FIGURE 3.35 Device delete I/O Box

9. Click on "Confirm" to delete the selected I/O Box (s).

10. To add a new I/O B	ox, click on the "+Create" butto	n (+ ^{Create}).
	Create I/O Box	Save Cance
	" Name	
	Name	
	• [p	
	* Port	
	Port should be between 0 to 65535	
	* Delay Seconds	
	Out Point	
	* Channel	* Status
	Channel *	Status 👻

FIGURE 3.36 Device - create I/O Box

- 11. On the "Create I/O Box" menu, enter the new Ethernet I/O Relay information:
 - a. Name \Rightarrow A user-friendly name to identify this device.
 - b. Protocol ➡ The communication protocol that will be used (TCP, UDP, or others).

- c. $IP \Rightarrow$ The device's IP address.
- d. Port ➡ The device's communication port.
- e. Delay Seconds ➡ Corresponds to a timer (in seconds) for how long VAST Face should wait before triggering the device's normal state signal after receiving a face recognition event.
- f. Channel ➡ Control relay output channel that is to be triggered upon receiving a face recognition event.
- g. Status ➡ Whether the appliance connected to the control relay output requires to be
 - i. Open ➡ Normally Closed device
 - ii. Close ➡ Normally Open device

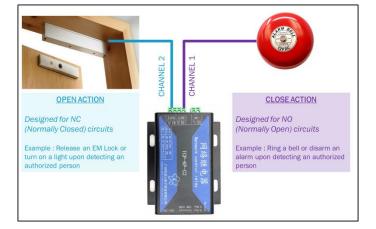


FIGURE 3.37 Channel and status explanation.

- 12. Click "Test" to test whether the IP and port can connect to the I/O Box correctly. If the test fails, the device data cannot be saved
- 13. Click on "Save" to create the I/O Box.

VIVOTEK VAST FACE - USERS' GUIDE 3.5.2 Moxa

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 4. In order to see a Moxa complete details, click on the "Profile Details" icon (1), and select Edit, the selected Moxa full details will be displayed.
- 5. Edit any profile information as needed.
- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (¹), and select Delete (^{Delete}).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.
- 9. Click on "Confirm" to delete the selected Moxa (s).
- 10. To add a new Moxa, click on the "+Create" button (+ Create").
- 11. On the "Create Moxa" menu, enter the new Moxa information:
 - a. Name \Rightarrow A user-friendly name to identify this device.
 - b. $IP \Rightarrow$ The device's IP address.
 - c. Sync Moxa Channel ➡ There are several DO outputs to get from Moxa I/O
 - d. Delay Seconds ➡ Corresponds to a timer (in seconds) for how long VAST Face should wait before triggering the device's normal state signal after receiving a face recognition event.
 - e. Channel → Control relay output channel that is to be triggered upon receiving a face recognition event.
 - f. Status ➡ Whether the appliance connected to the control relay output requires to be
 - i. Open ➡ Normally Closed device
 - ii. Close ➡ Normally Open device
- 12. Click "Test" to test whether the IP can connect to the Moxa correctly. If the test fails, the device data cannot be saved
- 13. Click on "Save" to create the Moxa.

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

= 🔃 VASTFace							틒 Admin 🔨
🐣 Account	Wie	gand					Delete Create
Q Investigation >		-					
💵 Person 🔹 🕨							
🗗 Video Source 🔹 🔸							
Devices		NO	Name	IP	Port	Mode	Actions
I/O Box		Show Rows 10 - of 0 Item	n(s) < l	> >>			
Моха							
Wiegand							
Advantech ADAM							
HTTP Command							

FIGURE 3.42 Device - Wiegand list

- 4. In order to see a Wiegand complete details, click on the "Profile Details" icon (1), and select Edit, the selected Wiegand full details will be displayed.
- 5. Edit any profile information as needed.

= 🧵 VAST Face		블 Admin 🔺
 Account Investigation 	Create Wiegand	Save Cancel
21 Person >		
Video Source >	* Name	
Devices 🗸	Name	
I/O Box	* IP	
Моха	P Port	
Wiegand	Port should be between 0 to 65535	
Advantech ADAM	* Mode	
HTTP Command	Mode	•
AO-20W I/O		

FIGURE 3.43 Device - Wiegand details

6. Click on "Save" to apply changes.

- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (1).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

U VASTFace	≡						RubyAd 🙁 Logout
FRS 2.0		Devices / Wiegand					
 Investigation 	<	Wiegand					+ Creste
🎄 Person	<						· ·
Video Sources	< <						
Devices	~	No	Name	IP	Port	Mode	
🗖 I/O Box		Show 10 ¢ Entries 0					# Prev 1 Next #
් Moxa			Confirm Delete	×			
🐑 Wiegand			Do you want	to delete this Wiegand?			
🖵 Advantech ADAM							
HTTP Command				Cancel Confirm			
🗖 AO-20W I/O				conten			
🜐 Schedule							
Greetings							
Action	<						

FIGURE 3.44 Device delete Wieand

- 9. Click on "Confirm" to delete the selected Wiegand (s).
- 10. To add a new Wiegand, click on the "+Create" button (+ Create).

= 🔃 VASTFace	4 Admin
 Account Investigation 	Create Wiegand Save Conce
Person >	
🗗 Video Source 🔹 🔸	* Name
Devices 🗸	Name
I/O Box	• 19
Моха	IP
Wiegand	* Port Port should be between 0 to 65535
Advantech ADAM	* Mode
HTTP Command	Mode
AO-20W I/O	



- 11. On the "Create Wiegand" menu, enter the new Wiegand information:
 - a. Name A user-friendly name to identify this device.
 - b. IP ➡ The device's IP address.
 - c. Port \Rightarrow The device's communication port.
 - d. Mode ➡ Corresponds to the Card technology (iClass or Mifare) and Wiegand bits (26 or 34) format that the converter will output.

- 12. Click "Test" to test whether the IP and Port can connect to the Wiegand correctly. If the test fails, the device data cannot be saved
- 13. Click on "Save" to create the Wiegand.

3.5.3 Advantech ADAM

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

= 🤨 VASTFace								-	Admin 🔨
🐣 Account	۵d	vanteo	ch ADAM	٨				Delete	Create
Q Investigation		annes						Delete	Create
💵 Person 🔹 🕨									
🗗 Video Source 🔹 🔸									
Devices 🗸			NO	Name	IP	Delay Seconds	Out Point 🚯	Ac	tions
I/O Box		Show Rows	10 • of 0 Iter	m(s) <	< 1 > »				
Моха									
Wiegand									
Advantech ADAM									
HTTP Command									
AO-20W I/O									
AO-20W WG	l								

FIGURE 3.46 Device – Advantech ADAM list

- 4. In order to see a Advantech ADAM complete details, click on the "Profile Details" icon (¹), and select Edit, the selected Advantech ADAM full details will be displayed.
- 5. Edit any profile information as needed.

<	Create Advantech ADAM	1	Save	Cana
	Name			
	Name			
	Delay Seconds			
	1			
	wantech ADAM Channel Connection information			
	P			
	P			
	Account			
	Appount			
	Password			
	Password			0
	Sync Advantech ADAM Channel			
	ut Point			
	Channel * Status	15		
	Channel * Status	8		-

FIGURE 3.47 Device - Advantech ADAM details

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (1).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

	≡						RubyAd 😝 Logout
FRS 2.0		levices / Advantech ADAM					
Investigation	<	Advantech ADAM					+ Create
Person	1						
Video Sources	- 3						
Devices	- * 1	No	Name	IP	Delay Seconds	Out Points - Channel / Status	
🖂 VO Box		Show 10 C Entries 0					- Prev 1 Next -
⊴) Moxa					Confirm Delete	×	
					Do you want to delete this Advantech ADAM?		
						_	
					Cancel	onfirm	
Action	8						

FIGURE 3.48 Device delete Advantech ADAM

- 9. Click on "Confirm" to delete the selected Advantech ADAM (s).
- 10. To add a new Advantech ADAM, click on the "+Create" button (+ Create").

<	Create Advantech ADAM	Save	Cance
	* Name		
	Name		
	* Delay Seconds		
	1		
	Advantech ADAM Channel Connection information		
	. Ib		
	p		
	* Account		
	Account		
	* Password		
	Password		0
	Sync Advantech ADAM Channel		
	Out Point		
	* Channel * Status		
	Channel • Status		*

FIGURE 3.49 Device - create Advantech ADAM

- 11. On the "Create Advantech ADAM" menu, enter the new Advantech ADAM information:
 - a. Name A user-friendly name to identify this device.
 - b. Delay Seconds ➡ Corresponds to a timer (in seconds) for how long VAST Face should wait before triggering the device's normal state signal after receiving a face recognition event.
 - c. $IP \Rightarrow$ The device's IP address.
 - d. Account ➡ An account to connect Advantech ADAM with the server
 - e. Password
 An Password to connect Advantech ADAM with the server
 - f. Sync Advantech ADAM Channel ➡ There are several DO outputs to get from Advantech ADAM I/O
 - g. Channel ➡ Control relay output channel that is to be triggered upon receiving a face recognition event.
 - h. Status ➡ Whether the appliance connected to the control relay output requires to be
 - i. Open
 Normally Closed device
 - ii. Close ➡ Normally Open device
- 12. Click "Test" to test whether the IP can connect to the Advantech ADAM correctly. If the test fails, the device data cannot be saved
- 13. Click on "Save" to create the Advantech ADAM.

VIVOTEK VAST FACE - USERS' GUIDE 3.5.4 HTTP Command

In the event that notifying external systems is required upon detecting a person belonging to a face group, VAST Face provides an effective, yet simple integration method that allows sending notifications to 3rd party systems using a HTTP RESTful API. In order to allow for the utmost flexibility, system administrators can define the notification method, and can customize the notifications message contents to suit their needs.

Note

- Since configuration steps are very similar for same device type, only one device model per type will be covered in this section. Differences lay only in the communication port number, and whether the device requires a username & password. For most cases and when available, external devices must be set to TCP Server or UDP Server Mode.
- At the time of this writing, only JSON format is supported.
- While users can define their own key names in the HTTP template message, key values are limited to a list of predefined variables. These variables are invoked by using double curled brackets, plus the variable name. Similarly, variables can be used either on the body message or as part of the destination URL. For example: The recognized person's name is Jay, and the emplyoeed number # is 24768547

```
Host: http://172.16.10.43/alarm?personName={{ personName }}
body:
{
"personEmployeeId":"{{ personEmployeeId }}"
}
When the action triggered, the variable on the host and body will be replace to:
Host: http://172.16.10.43/alarm?personName=Jay
body:
{
"personEmployeeId":"24768547"
}
```

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

NO Name Basic Auth Header	Method	Format	URL	Actions
Show Rows 10 V of Oltem(s) (())				

- 4. In order to see a HTTP Command complete details, click on the "Profile Details" icon (¹), and select Edit, the selected HTTP Command full details will be displayed.
- 5. Edit any profile information as needed.
- Create HTTP Command

None Image:	ave
Nome I balc Auh teader { Key : Yolve] [Key - Only english letters, numbes_ end -] Key Voue Wathod Marriso Store Autor Marriso Store Autor Marriso Store Autor Store Autor Marriso Store Autor Store Autor <	
size Auth eader (Key: Value Key- Only english lefters. numbersand -] Key Method Method Some ex. mbg://121.161.100.1800/n/u/nampe ex. mbg://121.161.100.1800/n/u/nampe Extended interPoint homAcak inopation personPanion personContactNumber personEanal personPanawod personEigniedDote comercial comercial comercial comercial interPoint homAcak inopation of ex. Method Me	
eder (Key: Vale Key - Only english lefter, numbes_ end -) Key Vale Key - Only english lefter, numbes_ end -) Key Method Method Kind Key Key Key Key Key Key Key Ke	
Key Voue Method Method Method ommod SON Keit	
Mathod Mathod comed SON UR ex. http://152.163.1001880/uVu/tample objectIdi personName personNames personCandactNumber personCandactNumber personNamic personName	
Method SON SON URL ex. http://192.163.1100.1680/url/url/somple commercit/ype: socre: threahold linkatch date lime@oint hasMask snapshotSic ed	
Son Son URL ex. http://192.146.1.100:1460/url/ut/somple objectidi personName personTags personEmployeeld personFastion personContactNumber personEmail personCand personRemark personPassword personExpiredDate comercid comercid comercidings score it treated is Match date immeRoint hastMask anapshotice ext MITP Command Tips * Person Information can be used on host and request body. {{variable}} will be replaced by specific data. For example: PersonEmployeeld":{{personEmployeeld}}; personEmployeeld":{{personEmployeeld}}; personEmployeeld":{{personEmployeeld}}; personEmployeeld":{{personEmployeeld}}; personEmployeeld"; personEmployeeld"; personEmployeeld; pe	
N IRL An http://12.16.1.00.1880/url/url/ampie	
ARI es. http://f21.61.1001880/ur/ur/somple commercitype coner three-how in the sono in	
At http://12.143.1.001880/ut/ut/ample Attraction on be used on host and request body. {variable} will be replaced by specific data. For example: PersonEmployeeid ::/{ personEmployeeid];' ;	
kjactid personName personTags personEmployeeld personPastion personContactNumber personEmail personRemark personPastword personExpiredDate cameraid cameraid ameraiType some threshold iMatch dote timePoint hasMatk mapshotSic ed If IP Command Tips resonEmployeeld versonEmployeeld yesonEmployeeld yeson	
kjectid personName personTags personEmployeekd personContactNumber personEmail personRemark personPassword personExpiredDate comercid comercid amercitype some threshold isMatch dote timePoint hasMatk angshotSic ext If IP Command Tips reprontimemore reprontemore timePoint hasMatk angshotSic ext If IP Command Tips reprontemore reprontemore reprontemore timePoint kill reprontemore rep	
HTTP Command Tips Person information can be used on host and request body. {{variable}} will be replaced by specific data. For example: Person name is Jay, and the card # is 24768547 Hatthitp://12.10.43/alorm?personName=([personName]) body: f pronEmployeeld:::([personEmployeeld]): j	
Person information can be used on host and request body, {{variable}} will be replaced by specific data. For example: Person name is Jay, and the oard # is 24768547 Hosthiftp://172.16.10.43/alarm?personName={{ personName }} body; { "personEmployee!d":`{{ personEmployee!d }}"	
For example: Person name is Jay, and the card # is 247.685.47 Hasthytty/172.16.10.43/alarm?personName={{ personName }} body: { personEmployeeId";"{{ personEmployeeId }}" }	
Person nome is Jay, and the card # is 24768547 Host:http://172.16.10.43/alami?personName={{ personName }} body: { { personEmployeeId":`{{ personEmployeeId }}` }	
Hathttp://172.16.10.43/alarm?personName={{ personName }} body: { personEmployeeId";"{{ personEmployeeId }};" }	
{ "personEmployeeId":"{{ personEmployeeId }}" }	
1	
1	
When the action triggered, the variable on the host and body will be replace to:	
Host.http://172.16.10.43/olorm?personName=Joy	
body:	
{ 	

FIGURE 3.51 Device – HTTP Command details

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (1).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

U VASTFace								RubyAd	Logout
FRS 2.0	Devices / HTTP Co	mmand							
Investigation	HTTP C	ommai	nd						+ Create
Person									
🔲 Video Sources									
Devices	No	Name	Basic Auth.	Header (Key: Value) Meth	od Form	at Hostname		
🗆 I/O Box	1	Http 1	*	• Header1:Header111	GET	iost i	N http://172.22.28.30:65531/test?personId={[personId]}&score={[score]}&personName=Name		•
🗗 Moxa	2	Http 2			POS	T JSOI	N http://172.22.28.30.65530/test		
🕞 Wiegand	_								
🖵 Advantech ADAM	Show 10 🗢	Entries Sho	wing 1 to 2 of 2 entries					« Prev 1	Next »
HTTP Command					Confirm Delete		×		
🗖 AO-20W I/O					Are you sure you wa	ant to delete the	selected HTTP Command(s) ?		
🛗 Schedule									
Greetings							· · · · · · · · · · · · · · · · · · ·		
Action							Cancel Confirm		

FIGURE 3.52 Device delete HTTP Command

- 9. Click on "Confirm" to delete the selected HTTP Command (s).
- 10. To add a new HTTP Command, click on the "+Create" button (+ Create).

Create HTTP Command		Save	Car
Name			
Name			
Basic Auth			
leader (Key : Value Key - Only english letters, numbers,_ and -)			
Key	Value		
Method			
Method			,
rmat			
ON .			
RL			
x. http://192.168.1.100:1880/url/url/sample			
objectid personid personName personTags personImageSrc personEmployeeld personP cameraType score threshold isMatch date timePoint hasMask snapshotSrc ext		cameraName	
HTTP Command Tips			
Person information can be used on host and request body, {{variable}} will be replaced by spec	ffic		
data. For example:			
Person name is Jay, and the card # is 24768547			
Host:http://172.16.10.43/alarm?personName={{ personName }} body:			
(
"personEmployeeId":"{{ personEmployeeId }}" }			
When the action triggered, the variable on the host and body will be replace to:			
Host:http://172.16.10.43/alarm?personName=Jay			
body: {			
"personEmployeeId":"24768547"			

FIGURE 3.53 Device - create HTTP Command

- 11. On the "Create HTTP Command" menu, enter the new HTTP Command information:
 - a. Name A user-friendly name to better identify this command.
 - b. Base Auth. → Whether to enable Basic Authentication, if enable it, must set an authentication account and password
 - c. Header ➡ HTTP Header and key values.
 - d. Method ➡ HTTP data transfer method (GET or POST).
 - e. Host ➡ Destination URL where the HTTP message is to be sent.

 - g. Request Body ➡ HTTP Message Body.

12. Click on "Save" to create the HTTP Command.

VIVOTEK VAST FACE - USERS' GUIDE 3.5.5 AO-20W I/O

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

AC	0-20W I/O								Delete Create
		NO	Name	Protocol	IP	Port	Delay Seconds	Out Point 0	Actions
	Show Rows 10 🗸	of 0 Item(s)							

FIGURE 3.54 Device – AO-20W I/O list

- 4. In order to see a AO-20W I/O complete details, click on the "Profile Details" icon (¹), and select Edit, the selected AO-20W I/O full details will be displayed.
- 5. Edit any profile information as needed.

< Create AO-20W I/O	Sove Conc
* Name	
Name	
* Protocol	
TCP	*
* IP	
p	
* Port	
1601	
* Delay Seconds	
1	
Out Point	
* Channel	* Status
Channel *	Status *
	Test Save Cancel
FIGURE 3.55 Device	e – AO-20W I/O details

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (1).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

U VASTFace									RubyAd 😣 Logout
FRS 2.0		Devices / AO-20W I/O							
	<	AO-20W I/O							+ Create
	- S								8 ×
	< <								
	×.	No	Name	Protocol	IP	Port	Delay Seconds	Out Points - Channel / Status	
	- 1	Show 10 C Entries 0				Confirm Delete	×		= Prev 1 Next =
	- 1					Do you want to delete	this A0-20W I/O ?		
	- 1								
							Cancel Confirm		
						_			
	4								

FIGURE 3.56 Device delete AO-20W I/O

- 9. Click on "Confirm" to delete the selected AO-20W I/O (s).
- 10. To add a new AO-20W I/O, click on the "+Create" button (+ Create).

< Create AO-20W I/O		Save Cancel
* Name		
Name		
* Protocol		
TCP		•
• IP		
p		
" Port		
1601		
* Delay Seconds		
1		
Out Point		
* Channel	* Status	
Channel	Status	*
		Test Save Cancel

FIGURE 3.57 Device - create AO-20W I/O

11. On the "Create AO-20W I/O" menu, enter the new AO-20W I/O information:

- a. Name A user-friendly name to identify this device.
- b. Protocol ➡ The communication protocol that will be used (TCP, UDP, or others).
- c. IP ➡ The device's IP address.
- d. Port ➡ The device's communication port.
- e. Delay Seconds ➡ Corresponds to a timer (in seconds) for how long VAST Face should wait before triggering the device's normal state signal after receiving a face recognition event.

- f. Channel ➡ Control relay output channel that is to be triggered upon receiving a face recognition event.
- g. Status ➡ Whether the appliance connected to the control relay output requires to be
 - i. Open ➡ Normally Closed device
 - ii. Close ➡ Normally Open device
- 12. Click "Test" to test whether the IP and Port can connect to the AO-20W I/O correctly. If the test fails, the device data cannot be saved
- 13. Click on "Save" to create the AO-20W I/O.

3.5.6 AO-20W WG

- 14. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 15. Login to VAST Face using an Administrator account.

16. Navigate to "Devices" menu ➡ "AO-20W WG", a list of all created Wiegand will be displayed.

= 🔃 VASTFac	e									ŧ	Admin ^
🛎 Account		۸0	-20W WG							_	
Q Investigation	•	70	-2011 110							Delet	e Create
2 Person	•										
Video Source	•										
Devices	*			NO		Name	IP	Port	Mode	Ac	tions
I/O Box			Show Rows 10 🗸	of 0 Item(s) <	< 1 > »						
Моха											
Wiegand											
Advantech ADAM											
HTTP Command											
AO-20W I/O											
AO-20W WG											
Email Notification											
VAST 2											
📋 Schedule											
📮 Greeting											
Action	•										
😂 Settings	•										
📋 Logs											

FIGURE 3.51 Device – Wiegand list

- 17. In order to see a Wiegand complete details, click on the "Profile Details" icon (¹⁾), and select Edit, the selected Wiegand full details will be displayed.
- 18. Edit any profile information as needed.

= 👥 VASTFace	4 4	dmin ^
🛎 Account	< Create AO-20W WG	
Q Investigation		Cancel
E Person >		
🔄 Video Source 🔹 🔸	*Name	
	Rome	
I/O Box	19	
Moxa	p	
Wiegand	* Rot	
Advantech ADAM	Port should be between 0 to 65535	
	Mode	*
AO-20W WG	Test Save Can	cel
Email Notification		
📋 Schedule		
- Greeting		
Action >		
	FIGURE 3.52 Device – Wiegand details	

19. Click on "Save" to apply changes.

- 20. To Delete a profile, click on the "Profile Details" icon (^I), and select Delete (^I).
- 21. A pop-up window will appear on-screen prompting the user to confirm the action.
- 22. Click on "Confirm" to delete the selected Wiegand (s).
- 23. To add a new Wiegand, click on the "+Create" button (+ Create").

= 😰 VASTFace		🚔 Admin ^
🖶 Account	< Create AO-20₩ WG	
Q Investigation >		Save Cancel
E Person >		
🗗 Video Source 🔹 🕨	* Name	
	Create AC-20W WG	~
I/O Box	· Ib	
Моха	127.0.0.1	~
Wiegand	* Port	~
Advantech ADAM	* Mode]
HTTP Command	iCloss_WG26	-
AO-20W I/O		
AO-20W WG	Test Sav	ve Cancel
Email Notification		

FIGURE 3.53 Device - Create Wiegand

24. On the "Create Wiegand" menu, enter the new Wiegand information:

- a. Name A user-friendly name to identify this device.
- b. IP \Rightarrow The device's IP address.
- c. Port \Rightarrow The device's communication port.

- d. Mode ➡ Corresponds to the Card technology (iClass or Mifare) and Wiegand bits (26 or 34) format that the converter will output.
- 25. Click "Test" will pop up a test window for sending test card NO to test whether the IP and Port can connect to the Wiegand correctly.

				😄 Admin 🥎
🛎 Account	T	< Create AO-20W WG		_
Q Investigation		Credie AO-20W WG		Save Cancel
E Person 3				
🛃 Video Source		* Name		
Devices		Create AO-20W WG		✓
I/O Box		* IP		
Моха				✓
		* Port	×	
Wiegand			* Card No.	✓
Advantech ADAM		* Mode	123456	
HTTP Command		iClass_WG26		•
AO-20W I/O			Test Cancel	
AO-20W WG			Less Cuicer	Test Save Cancel
Email Notification				



26. If the test fails, the device data cannot be saved

27. Click on "Save" to create the Wiegand.

3.5.7 VAST 2

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

e Hostname	Port	Data Source	SSL Enable	Actions
0 192.168.0.99	3454	VAST FACE		c 🖻
0		192.168.0.99 3454	192.168.0.99 3454 VAST FACE	192.168.0.99 3454 VAST FACE



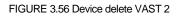
- 4. In order to see a VAST 2 complete details, click on the "Profile Details" icon (¹), and select Edit, the selected VAST 2 full details will be displayed.
- 5. Edit any profile information as needed.

< Demo	Save Cancel
* Name	
Demo	
* Hoshome	
192.168.0.99	~
* Port	
3454	~
* Account	
admin	~
* Password	
	✓ ④
* Dala Source	
VAST FACE	~
SSI Enable	
Test	Save Cancel

FIGURE 3.55 Device – VAST 2 details

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

FRS 2.0	Devices	evices / VAST2							
Investigation <	VA	ST 2						+ Create	
🛎 Person <									
■ Video Sources <								T	
Devices		No	Name	Hostname	Port	Data Source	SSL Enable		
🗖 I/O Box		1	Adv Test1	172.22.28.161	3455	Adv Test1	×	•	
🗗 Moxa		2	Adv Test2	172.22.28.161	3456	Adv Test2	v		
Wiegand		3	Adv Test-1	1. Confirm Delete	1 Confirm Delete × Ad				
Advantech ADAM				Are you sure you want to delete the s	elected Missend(s) 2				
HTTP Command		4	VA	1 Are you sure you want to delete the s	elected Wiegand(s) r	VAT		•	
O AO-20W I/O	Sho	w 10 🗢 Entries	Showing 1 to 4 of 4 entries	Cancel Confirm					
C Email Notification				Can					
VAST 2									
iii Schedule									
👳 Greetings									
Action <									



9. Click on "Confirm" to delete the selected VAST 2 (s).

10. To add a new VAST 2, click on the "+Create" button (+ Create).

< Demo	Save Cancel
* Name	
Demo	✓
* Hostname	
192.168.0.99	×
" Port	
3454	✓
" Account	
admin	×
* Password	
	✓ ⊚
* Data Source	
VAST FACE	✓
SSL Enable	
	Test Save Cancel

FIGURE 3.57 Device - create VAST 2

- 11. On the "Create VAST 2" menu, enter the new VAST 2 information:
 - a. Name A user-friendly name to identify this device.
 - b. Hostname ➡ The device's communication address.
 - c. Port ➡ The device's communication port.
 - d. Account ➡ An account to connect VAST 2
 - e. Password ➡ An Password to connect VAST 2
 - f. Data Source ➡ Set the Data Source name of VAST 2 Client to get the corresponding video source
- 12. Click "Test" to test whether the IP and Port can connect to the VAST 2 correctly. If the test fails, the device data cannot be saved
- 13. Click on "Save" to create the VAST 2.

Schedule Configuration 3.6

Note

Schedule templates are used by VAST Face for multiple purposes, these include:

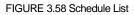
A. Define when face recognition devices are allowed to authenticate enrolled staff

B. Define trigger event responses active time

C.Define which greeting message should be displayed on Welcome page.

- In general, if no schedule is defined, it is widely understood that the device, rule or greeting will run continuously
- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 3. Navigate to "Schedule" menu ⇒ A list of all created Schedule will be displayed.

	Actions
Welcome	Actions C D
	Name Welcome



4. In order to see a Schedule complete details, click on the "Profile Details" icon (1), and select Edit, the selected Schedule full details will be displayed.

5. Edit any profile information as needed.

= 🔃 VASTFace					🚔 Admin ^
🛎 Account	< Create Schedule				Save Cancel
Q Investigation					Save Cancel
E Person >					
🗗 Video Source 🔷 🔸	* Name				
Devices	Name				
🗰 Schedule	⁻ Schedules				
Greeting	If end time is set to 00:00, it means schedule end time is 00:00				
Action >	Monday	Custom Time Period	00:00	0 23:59	© +
🗱 Settings 💦 🔸	Monday	Custom Time Period	00:00	23:59	×
Logs					
					Save Cancel
		FIGURE 3.5	9 Schedule details		

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (1).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

FRS 2.0	Schedule		
Investigation <	Schedule		+ Create
🎄 Person <			
⊠ Video Sources			2 ×
Devices	No	Name	
🗎 Schedule	1	Morning	(1
Greetings	2	Afternoon	
Action <	3	Confirm Delete ×	4
	4	Are you sure you want to delete the selected schedule(s) ?	1
	5	Cancel Confirm	1
	6	Cancel	1
	Show 10 • Entries Showing 1 to 6 of 6 entries		« Prev I Next »

FIGURE 3.60 Delete Schedule

- 9. Click on "Confirm" to delete the selected Schedule (s).
- 10. To add a new Schedule, click on the "+Create" button (+ Create).

Y FRS System	×	+						- 0	×	
← → C ▲ Not secure	e 192	168.1.234:6075/w-schedule						\$	θ:	
	≡						Admin	8	gout	
FRS 2.0		Schedule								
Video Sources		← schedule 1						B Sav	e	
Cameras									~	
Tablets		* Name]	Schedule t	emplate name]		
Devices	*	schedule 1			-		~			
VO Box						ſ	ADD a day to	1		
🗗 Moxa VO		* Schedules				l	the schedule	+		_
Wiegand		Sunday 👻	All D	ay 🔵				× <	REMOVE this day from the	
Advantech ADAM		Monday +		Custom Time 00:00	8	14:59	. 8	×	schedule	1
HTTP Command			_		Time of th	e day in		_		
📋 Schedule		Day of the week in which			which the s will be a	chedule				
Greetings		the schedule will be activ (Sunday to Saturday)	•		(00:00 -		× Cancel	Save		
Action			_							
n ^a Cattione	× <									

FIGURE 3.61 create Schedule

11. On the "Create Schedule" menu, enter the new Schedule information:

a. Name A user-friendly name to identify this schedule template.

- b. Day of the week ⇒ The day of the week in which the schedule template will be active.
- c. Time of The Day ➡ The time range of the day in which the schedule template will be active.

12. Add as many days, and time ranges as needed, and click on "Save" to apply changes.

VIVOTEK VAST FACE - USERS' GUIDE 3.7 Greetings Management

Greetings refer to the different welcome messages that Digital Signage client can display to greet upon recognizing an enrolled person, based on their group affiliation and/or pre-defined schedule.

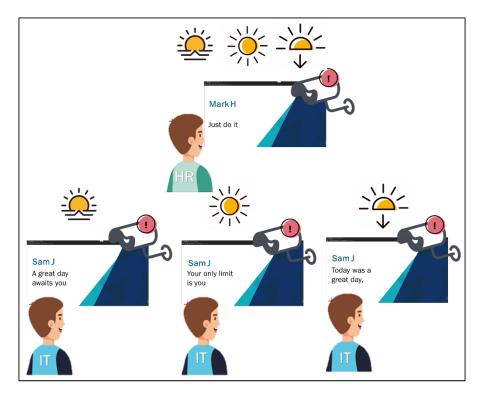


FIGURE 3.62 Greetings concept explained.

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.
- 3. Navigate to "Greetings" menu ➡ A list of all created Greetings will be displayed.

Gre	eting		Delete	Create
		NG Name	Actions	
		1 Block Dear	C 🛈	
	Show Rows 10	▼ of 1 Hem(s) ≪ < 1 > ≫		



4. In order to see a Schedule complete details, click on the "Profile Details" icon (¹), and select Edit, the selected Schedule full details will be displayed.

5. Edit any profile information as needed.

<	Black Door			Save	Cancel
	Name				
	Black Door				~
	Greetings				
	Greeting	Person Tags	Schedule		
	Greeting	Person Tags 🔹	Schedule	- +	
	Good Day	• Employee		×	
	Good Day	• VIP		×	
	Good Day			×	
				Save Co	ancel

FIGURE 3.64 Greetings details

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (^I), and select Delete (^{I Delete}).
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

U VASTFace	≡			RubyAd 🙁 Logout
FRS 2.0		Greetings		
Investigation	<	Greetings		+ Create
Person	<	Greetings		
Video Sources	<			₩ ~
Devices	<	No	Greetings	
🛗 Schedule			Hello	:
👳 Greetings		Show 10 + Entries Showing 1 to 1 of 1 entries		
Action	<	show to + entries showing to for fentries	Confirm Delete	« Prev 1 Next »
			Are you sure you want to delete the selected greetings(s) ?	
			Cancel Confirm	

FIGURE 3.65 Delete Greetings

- 9. Click on "Confirm" to delete the selected Schedule (s).
- 10. To add a new Schedule, click on the "+Create" button (+ Create).

< Black Door			Save	Cancel
* Name				
Black Door				~
Greetings				
• Greeting	Person Tags	Schedule		
Greeting	Person Tags 🔹	Schedule	* +	
Good Day	• Employee		×	
Good Day	• VIP		×	
Good Day			×	
			Save Co	incel

FIGURE 3.66 Create Greetings

11. On the "Create Schedule" menu, enter the new Schedule information:

- a. Name \Rightarrow A user-friendly name to identify this welcome message.
- b. Greetings ➡ The welcome message that is to be displayed on the digital signage upon recognizing a person.
- c. Person group(s) → The face group to which the recognized person must be affiliated to in order to display the greeting message.
- d. Schedule
 The schedule template during which this greeting message will be displayed.

12. Click on "Save" to apply changes.

3.8 Action

After adding the devices or commands that should triggered into VAST Face, a condition for when to trigger these actions (trigger rule) must then be specified.

3.8.1 Video Source

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using an Administrator account.

= 🚺 VASTE	ace												÷	Admin
🖶 Account		Vide	o Sou										_	_
Q Investigation	•	vide	0 300	ice								Activate Deactivate	Delete	Create
Person	•													
Video Source	•													
Devices	•			NO	Name	Video Source 0	Rule	Person Tags	Schedule	Devices 0	status	Activate / Deactivate	Actions	;
🛱 Schedule				1	Demo	Camera VIVOTEK	Both known and unknown			• VAST 2 / Demo	Activote	Deactivate	C° 🖻	
Creeting			- 6		1 item(s)	« < 1 > »								
	~	SP	now Kows []	0 ¥ 0†	l Item(s)									

FIGURE 3.67 ACTION - VIDEO SOURCES LIST

- 4. In order to see a video source complete details, click on the "Profile Details" icon (¹), and select Edit, the selected video source full details will be displayed.
- 5. Edit any profile information as needed.

= 🕦 VASTFace		🚔 Adı	dmin ^
🖶 Account	Demo		
Q Investigation >	benio	Save	Cancel
E Person >			
🗗 Video Source 🔹 🔸	* Name		
Devices >	Demo		~
📋 Schedule	* Video Source		
📮 Greeting	VIVoTex		*
Aclion 🗸	Person Togs		
Video Source	Person Togs Rule		•
🕫 Settings 🔹 🔸	2.04		•
📋 Logs	Schedule		
	Sonessie		*
	* Devices (Device up to five)		
	Demo x		<u> </u>
		Save Canc	:el

FIGURE 3.68 ACTION - VIDEO SOURCES details

- 6. Click on "Save" to apply changes.
- 7. To Delete a profile, click on the "Profile Details" icon (1), and select Delete (
- 8. A pop-up window will appear on-screen prompting the user to confirm the action.

🚺 VAST Face										RubyAd	
FRS 2.0	Actio	n / Video Sources									
	< 🔪	/ideo Sou	irce						+ Activate All + De	activate All	+ Create
	<										
	<										
	<	No	Action Name	Video Source Type / Video Source	Rule	Person Groups	Schedules	Device Type / Device	s St	atus	
		1	Action 1	camera / vlc_01	Known			• http-command / Http1	Ac	tivate	:
		2	Action 2	camera / vlc_01	Unknown			 http-command / Http 2 	Ac	tivate	•
		Show 10 \$ Entri	es Showing 1 to 2 of 2 ent						-	Prev 1	Next »
				Confirm Delete		×					
				Are you sure yo	u want to delete the selected	d video source(s) ?					
					Can	cel Confirm					
						_					

VIVOTEK VAST FACE - USERS' GUIDE

FIGURE 3.69 Delete ACTION - VIDEO SOURCES

- 9. Click on "Confirm" to delete the selected video source (s).
- 10. To add a new video source, click on the "+Create" button (+ Create).

= 🚺 VAST	Face		👙 Admin
🚇 Account		< Demo	Save Car
Q Investigation	•		
21 Person	•		
🛃 Video Source	•	* Name	
	>	Demo	✓ ×
📋 Schedule		* Video \$ource	
Greeting		VIVOTEK	•
Action	~	Person Tags	
Video Source		Person Tags	•
		Rule	
😂 Settings	*	Rule	•
📋 Logs		Schedule	
		Schedule	-
		* Devices (Device up to five)	
		Demo x	v
			Save Cancel

FIGURE 3.70 Create ACTION - VIDEO SOURCES

- 11. On the "Create video source" menu, enter the new video source information:
 - a. Action Name A user-friendly name to identify this trigger rule.
 - b. Video Source → The IP Camera or Face Recognition Tablet whose face recognition matching results will be used as input to trigger this rule.
 - c. Rule ➡ Face recognition event type that will be used to trigger this rule.
 - d. Person Tag List ➡ Face groups that will be used to trigger this rule.

Face Type		Person Group	Rule Definition
Known	+	No group selected	Trigger event rule when any system enrolled person is detected, regardless of face group affiliation
Known	+	With specific group(s) selected	Trigger event rule only when a member of a specific face group(s) is detected i.e. : trigger only when VIP face group members are detected
Unknown	+	No group selected	Trigger event rule when any unregistered person's face is detected
Unknown	+	With specific group(s) selected	Trigger event rule only when a person that's not part of a specific face group(s) is detected i.e. : trigger only when non VIP face group members are detected

- e. Schedule ⇒ The schedule in which the selected rule will run, if no schedule is selected the rule will run continuously.
- f. Devices → The ancillary devices or HTTP commands that will be triggered (can select up to 5, per rule).
- 12. Click on "Save" to apply changes.

備註

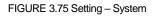
• Once the video source action is set, you can switch the action to "Enable" or "Disable" according to your needs.

3.9 Settings (System Admin Only)

3.9.1 System

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using a System Admin account.
- - a. FRS Management control > Shows whether the VAST Face is under the FRSM.
 - b. Location ➡ Name of the FRSM binding
 - c. Person Investigation data retention policy ➡ The personnel investigation data will be cleared when the time limit is exceeded
 - d. Action Investigation data retention policy
 → The action investigation data will be cleared when the time limit is exceeded
 - e. Attendance End Of Day ➡ Set the time from which the daily attendance time is determined to end

= 📵 VASTFace		🚔 Admin 🥎
🖶 Account	System	
Q Investigation	System	Restore Initialize Save
E Person >		
🗗 Video Source 🔹 🔸	* Person Investigation Data Relention Policy (in days)	
Devices	46	✓
🛗 Schedule	* Action investigation Data Betention Policy (in days)	
Greeting	45	
Action >	* Kernel Level (Minumum Face Defect Radio - Kernel Level) (Between 2.5% to 5%, up to 1 decimal places) 2.5	~
🛠 Settings 🗸 🗸	This setting will effect system performance, suggest to use default value 2.5%	
System		
FR-Engine		Save
Mask Recognition License		
FRS Edge License		
SMTP		
Privacy		
📋 Logs		



4. Click on "Save" to apply changes.

VIVOTEK VAST FACE - USERS' GUIDE 3.9.2 FR-Engine

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using a System Admin account.
- - a. Protocol ➡ The protocol to be connected (HTTP/HTTPS)
 - b. Hostname ➡ Host address of the Face Recognition Engine to be connected
 - c. Port ➡ The port number of the Face Recognition Engine to be connected
 - d. WS Port → WS port number of the Face Recognition Engine to be connected

= 🔃 VASTFace		4 Admin	^
🖶 Account Q Investigation 🔶	FR-Engine		
Person Video Source Video Source Devices	Sync Status : Person Sync: : 384 / 384 Camera Sync: : 1 / 1	forew Sync Sort	ve
曲 Schedule ↓ Greeting	Sync Info		١
E Action >	Engine: server-cyberlink-engine (v1.00.11)	Kernet FaceMe (v6.04.00)	
System FR-Engine			
Mask Recognition License FRS Edge License	* Protocol HTTP	•]	
SMTP Privacy	* Hostname 127.0.0.1 * Port	<u>ر</u>	
Log:	8088	✓ Test Save	

FIGURE 3.76 Setting - FR Engine Settings

4. Click on "Save" to apply changes.

VIVOTEK VAST FACE - USERS' GUIDE 3.9.3 FRS License

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using a System Admin account.

= 🚺 VASTFace							🚔 Admin
🛎 Account	FRS Edge License						Γ.
Q Investigation	1 of 2 licenses are used				Landwo	are ID + Register License Offline	+ Register License Online
Person >							
🗗 Video Source 🔹 🔸							
Devices >	NO License Ke	Y MAC Address	Trial License	Camera Allowed	Registration Date	Expiration Date	Actions
Schedule	1 RGTE-VDZG-XGS4		ND	2	2022/04/11 16:52:26	Expiration bare	1
Greeting Action	Show Rows 10 🗸 of 1 Item(s	i) « < 1 > »			10.01.20		
System							
FR-Engine							
Mask Recognition License							
FRS Edge License							
SMTP							
Privacy							
Logs							

FIGURE 3.77 Setting - FR Engine License Setting

- 4. To add a new engine license online, click on the "Register License Online" button (+ Register License Online).
- 5. Register License Online Information:
 - a. License Key ➡ Engine License Registration Key
 - b. MAC Address ➡ VAST Face MAC address

= 🔃 VASTFace	e		🚔 Admin ^
Account		< Register License Online	Save Cancel
Q Investigation	•		
Person	•		
Video Source	•	* License Key	
Devices	•	Liberte Key	
📋 Schedule		* MAC Address	
Greeting		MAC Address	*
Action	*		
0° Settings	~		Save Cancel
System			
FR-Engine			
Mask Recognition Licens	e		
FRS Edge License			
A1.175			
		FIGURE 3 78 Setting - Register License Online	

FIGURE 3.78 Setting – Register License Online

- 6. Click on "Save" to apply changes.
- 7. To add a new engine license offline, click on the "Register License offline " button (+ Register License Offline)

8. Register License Offline Information:

a. Upload Engine Offline License Key File ➡ Upload Engine Offline License Key File (.lic)

= 😢 VASTFace	Ð		🚝 Admin A
Account Q. Investigation	*	< Register License Offline	Sove Cancel
E Person	•		
🛃 Video Source	•	* Upload FRS Edge license file (.lic)	
Devices	•	Upload FRS Edge license file (.lic)	Browse
🗰 Schedule			
Greeting			Save Cancel
Action	>		
🛠 Settings	~		
System			

FIGURE 3.79 Setting - Register License Offline

9. Click on "Save" to apply changes.

VIVOTEK VAST FACE - USERS' GUIDE 3.9.4 Edge License

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using a System Admin account.

= 😢 VASTFace			🚔 Admin 🔨
 Account Q Investigation > 	<	Register License Offline	Save Cancel
E Person >			
🗗 Video Source 🔹 🕨		* Upload FRS Edge license file (.lic)	
Devices >		Upload FRS Edge licenze file (.ilc)	Browse
🛗 Schedule			
📮 Greeting			Save Cancel
Action >			
🛠 Settings 🗸 🗸 🗸			
System			

FIGURE 3.80Setting – VAST Face License Settings

- 4. To add a new Edge license online, click on the "Register License Online" button (+ Register License Online").
- 5. Register License Online Information:
- a. License Key ➡ Engine License Registration Key
- b. MAC Address ➡ VAST Face MAC address
- 6. Click on "Save" to apply changes.
- 7. To add a new Edge license offline, click on the "Register License offline " button (+ Register License Offline)
- 8. Register License Offline Information:
 - a. Upload Engine Offline License Key File ➡ Upload Engine Offline License Key File (.lic)
- 9. Click on "Save" to apply changes.

VIVOTEK VAST FACE - USERS' GUIDE 3.9.5 SMTP

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using a System Admin account.
- - a. Hostname ➡ The host address of the SMTP server
 - b. Port ➡ SMTP server's connection port
 - c. Email ➡ Provide the sender's email account for sending notification letters
 - d. Password Provide the sender's password for sending notification letters

= 🔃 VASTFace		4 Admin 🥎
 Account Q Investigation 	SMTP	Text Sove
🗈 Person 🔹 🔸		
🗗 Video Source 🔹 🔸	* SMTP Host	
Devices	SAITP Host	0
🛱 Schedule	SMTP Host is Required Field	
📮 Greeting	* Port 25	▼
Action >	* Emoil Address	
🗱 Settings 🗸 👻	ex.service@company.com	0
System	Email Address is Required Field Password	
FR-Engine	Password Password	0 0
Mask Recognition License	Password is Required Field	
FRS Edge License	SSL/TLS	
SMTP		
Privacy		Test Save
Logs		1531 JUVC

FIGURE 3.83 Setting - SMTP

- 4. Click "Test" to test whether the mailbox can be sent normally, if the test fails, SMTP data cannot be saved.
- 5. Click on "Save" to apply changes.

VIVOTEK VAST FACE - USERS' GUIDE 3.9.6 Privacy

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using a System Admin account.
- - a. Hide registered photo → After opening, you can change the default photo by yourself, and the registration photo will be hidden in the personnel information and the default photo will be displayed.

= 🚺 VASTFace	🚔 Admin \land
 ➡ Account Q Investigation → 	Privacy
Person Xideo Source	
Devices	Hide Registered Photo
 Schedule Greeting 	Default Image
Action >	\sim
🛠 Settings 🗸 🗸	
FR-Engine	Save
Mask Recognition License	
SMTP	
Privacy Logs	

FIGURE 3.84 Setting – Privacy

4. Click on "Save" to apply changes.

3.10 Log (System Admin Only)

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 (e.g.: http://192.168.1.152:6075), VAST Face login page will be displayed.
- 2. Login to VAST Face using a System Admin account.
- 3. Navigate to "Log" menu ➡ A list of all system log will be displayed.

= 🚺 VAST Face					🚔 Admin
🖶 Account	Logs				Download Excel
Q Investigation >	Logs				Download Excel
🗈 Person 🔹 🕨	Filter Condition				^
Video Source >	Username			Event Type	
Devices >	Usemame			Event Type	•
🛱 Schedule	Event Start D	ate		Even End Date	
📮 Greeting	Event Start Do	ote		Even End Date	
Action >					Apply Clear
🗱 Settings 🔹 🔸					
📋 Logs					
	NO	Event Type 🗘	Username 🗘	Message	Event Time 👻
	1	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] folied [timeout of 10000ms exceeded]	2022/06/06 17:41:10
	2	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] falled [timeout of 10000ms exceeded]	2022/06/06 17:41:00
	3	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] failed [timeout of 10000ms exceeded]	2022/06/08 17:39:44
	4	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] failed [timeout of 10000ms exceeded]	2022/06/06 17:36:00
	5	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] folied [timeout of 10000ms exceeded]	2022/06/06 17:35:50
	6	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] foiled [timeout of 10000ms exceeded]	2022/06/08 17:35:40
	7	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] folled [timeout of 10000ms exceeded]	2022/06/06 17:34:11
	8	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] foiled [timeout of 10000ms exceeded]	2022/06/06 17:32:47
	9	Action VAST 2 Trigger Error	system	Trigger VAST 2 device [Demo] foiled [timeout of 10000ms exceeded]	2022/06/06 17:32:37

FIGURE 3.85 Logs List

- 4. Use the Display filters to narrow down results by: Username, Event Type, Start Date, or End Date.
- 5. Click on the search button ()button, to display only logs matching the filter criteria.
- 6. To export the logs, click the "Export to Excel" button, it will export to .XLSX file.

Chapter

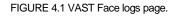
4 VAST Face Troubleshooting

This chapter outlines the procedures for troubleshooting VAST Face system

4.1 Accessing VAST Face Logs

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address ,port 6075 and URL path /server/log (e.g.: http://192.168.1.152:6075/server/log) , a prompt window will appear.
- 2. Login to VAST Face using the System Admin credentials (user: "Admin", password: "Az1235671!").
- The server logs page will be displayed, with the different logs grouped based on the last server restart date.

▼ 192.168.1.155:6075/server/log × +
← → C ③ Not secure 192.168.1.155:6075/server/log
🔛 Apps 💜 FRS Manager Stand 🚱 Live view - AXIS P3
2020/07/21 03:34:18
 fr:-permission-map-2020-07-22-1 fr:-permission-map-2020-07-22-1 fr:-permission-map-2020-07-24-1 fr:-permission-map-2020-07-25-1 fr:-permission-map-2020-07-27-1 fr:-permission-map-2020-07-28-1 ws_engine-2020-07-28-1



Note

- VAST Face log files are created on a daily basis, and though the system contains multiple logs types designed for different purposes, out of all the logs, the files named: log-YYYY-MM-DD, are by far the most important.
- 4. Click on the most recent log file, and browse for any error or warning messages that could indicate some problem.

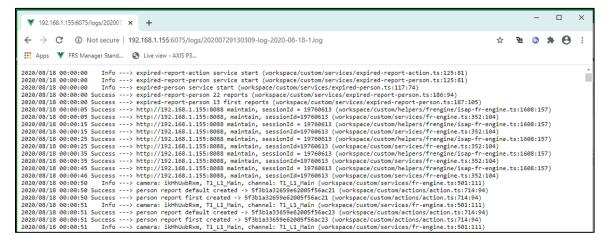


FIGURE 4.2 VAST Face logs.

4.2 Restart VAST FACE - USERS' GUIDE

- 1. On a Windows PC computer, open Google Chrome and navigate to VAST Face IP Address port 6075 with URL path bye (e.g.: http://192.168.1.152:6075)
- 2. Login to VAST Face using System Admin credentials (user: "Admin", password: "Az1235671!").
- 3. Click on the "Server Restart" on upper right "Admin Icon"
- 4. Wait for 1-2 minutes for the server to complete booting.

E 🚺 VASTE	ace		🚔 Admin 🗸
Account		Account	Admin
Investigation	>	Account	My Profile
Person	>	Filter Condition	Change Password Server Restart
Video Source	>	Keyword	Logout
Devices	>	Search for account, name or email	

FIGURE 4.4 VAST Face reboot.

L

Note

- Alternatively, VAST Face can be restarted from Docker portainer, or by pressing the "server restart"
 - (^o) button located under the server version panel.

4.4 Verify IP camera's RTSP Stream

- 1. On a Windows PC computer, download and install VLC Player.

🛓 VLC media player									
Med	lia P <u>l</u> ayback	<u>A</u> udio	<u>V</u> ideo	Subti <u>t</u> le	Tool <u>s</u>	View	<u>H</u> elp		
Þ	Open <u>F</u> ile			Ctrl+C	1				
Þ	Open Multiple Files			Ctrl+S			Duration		
⊳	Open <u>F</u> older			Ctrl+F					
⊙	Open <u>D</u> isc			Ctrl+D					
÷.	Open <u>N</u> etwork Stream			Ctrl+N					
•	Open <u>C</u> apture Device Open <u>L</u> ocation from clipboard Open <u>R</u> ecent Media			Ctrl+C	:				
				Ctrl+V					
	Save Playlist to File		Ctrl+Y						
	Convert / Save			Ctrl+R					
((-))	<u>S</u> tream			Ctrl+S					
	Quit at the end								
÷	<u>Q</u> uit			Ctrl+C	2				
- Andrews	Universal Plug	'n'Play			_				

FIGURE 4.5 VLC Player Open Network Stream

3. Key in the IP camera's full RTSP URL stream including credentials, and click on "Play"

🛓 Open Media	_	□ ×
🖻 File \delta Disc 🚏 Network 🐨 Capture Device		
Network Protocol		
Please enter a network URL:		
rtsp://root:fstadmin@192.168.1.35:554/axis-media/media.amp		~
http://www.example.com/tensam.av/ rtp://enzample.com/tensam.at/ minus//mma.example.com/tensam.at/ rtp://www.youtube.com/watch?v=gg64x		
Show more options		
	Play 🔻	Cancel

FIGURE 4.6 IP Camera RTSP URL in VLC Player

4. If the RTSP URL is correct, live video from the camera will start shortly.



FIGURE 4.7 IP camera live video stream in VLC player