



**SIMPLIFYING
COMPLEXITY**



GetFace®

USER GUIDE

V.1.5



6SS

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Introduction

6SS GetFace® is a Biometric Artificial Intelligence based video analysis application which is used for identifying or verifying uniquely a person, by comparing his facial features detected from digital images or video frames with faces within a database. It uses existing IP cameras and CCTV cameras combined with Computer Vision to determine a person's identity. The algorithm will run on 6SS Face Server® which will be analyzing the RTSP streams coming directly from the cameras, comparing them against a pre-defined database and sending back Meta Data which will allow the Smart Client user to receive data and alerts related to the person's identity in addition to the picture and the video of the person. If the camera captures an unrecognized face, a notification can be sent out to the administrator in order to take the appropriate action.

6SS GetFace® provides as well features capabilities including gender classification, age evaluation, face mask recognition, facial expression and attributes detection for each person in the frame.

6SS GetFace® Main Features

- Automatic identification of people identity
- Supports all camera types that are compatible with Milestone VMS (more than 10000 IP devices)
- Can work with any existing camera without the need of dedicated cameras
- Integrated with Milestone XProtect Corporate, Expert, Professional+, Express+ and Essential+
- Accessed from the Smart Client interface
- Integrated with Milestone Map functionality for visual and audio alerting including the camera location
- Gender classification, age evaluation, face mask recognition, facial expression and attributes detection for each person in the frame
- Contact-less identification
- No need for ID cards or Access Keys
- Ability to determine the identity of people who are wearing face masks
- Ability to detect and identify several faces present in the image at the same time
- Video acquisition from IP Cameras, Analog Cameras and off-line video streams
- Import faces images from a file or folder
- Ability to configure real time alarm notifications
- Multi-Channel recognition
- Ability to generate reports of the alarm events occurred in a defined timeframe
- Ability to stream out the real time processed video flow
- Unlimited configurable independent alarm zones, of any shape and size
- Off-line interrogation of the identified faces database, time-based or by individual face search
- Tampering function, to trigger an alarm on detection of camera obscured, dazzled or moved
- Video Loss function, to trigger an alarm on the loss of the video flow communication

Getting Started

System Components

- Windows OS 8.1 or above
- Microsoft .NET framework 4.5 or newer (for .NET components usage).
- Microsoft DirectX 9.0 or later
- Microsoft SQL Server Express, Standard or Enterprise edition
- Milestone XProtect Corporate, XProtect Expert, Professional+, Express+, or Essential+
- 6SS GetFace® application

Minimum System Requirements

Central Processing Unit (CPU):

- 3 GHz or better processor with 6 cores is recommended
- x64 (64-bit)
- AVX2 support is highly recommended

Graphical Processing Unit (GPU):

- GPU is required if you want to process more than 2 video streams simultaneously
- NVIDIA GeForce GTX 1080 GPU or better is recommended to process up to 10 video streams on a node
- Several GPUs can be used on the same machine to process larger number of video streams
- At least 6 GB of VRAM is recommended
- Compute Capability 3.5 or better should be supported by the GPU.
- CUDA 11.2 toolkit or newer is required
- cuDNN 7.5 library is required

Random Access Memory (RAM):

- At least 8 GB of RAM

System Introduction

6SS GetFace Application

6SS GetFace application can connect a camera through RTSP and get live stream to detect human faces and show prediction for age and detection for gender, glasses, sun glasses, beard, mustache, and mask.

Also the application detect predefined face and display his details. Predefined face can be related to alarms that will be showing in the application.

6SS GetFace Client Plugin

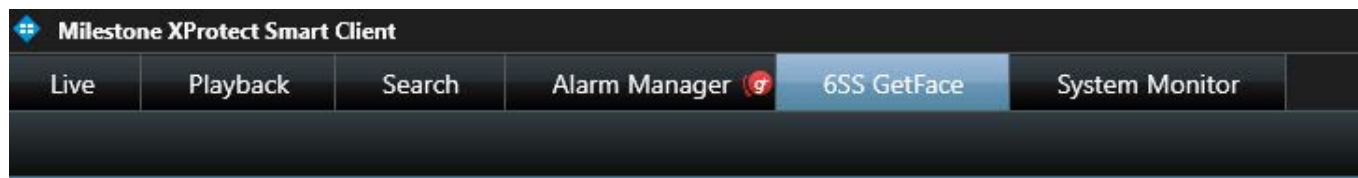
New tab in Milestone XProtect Smart Client will be added to show information, snapshots, and statistics about the GetFace detections, in addition to real time face detection in live tab.

6SS GetFace Central Search Plugin

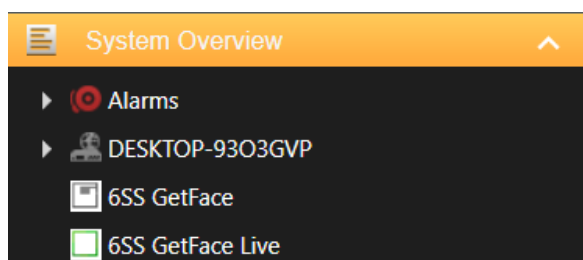
GetFace also integrates with Milestone 2020 R1 central search feature for video footage search and criteria filtering.

6SS GetFace Client Plugin

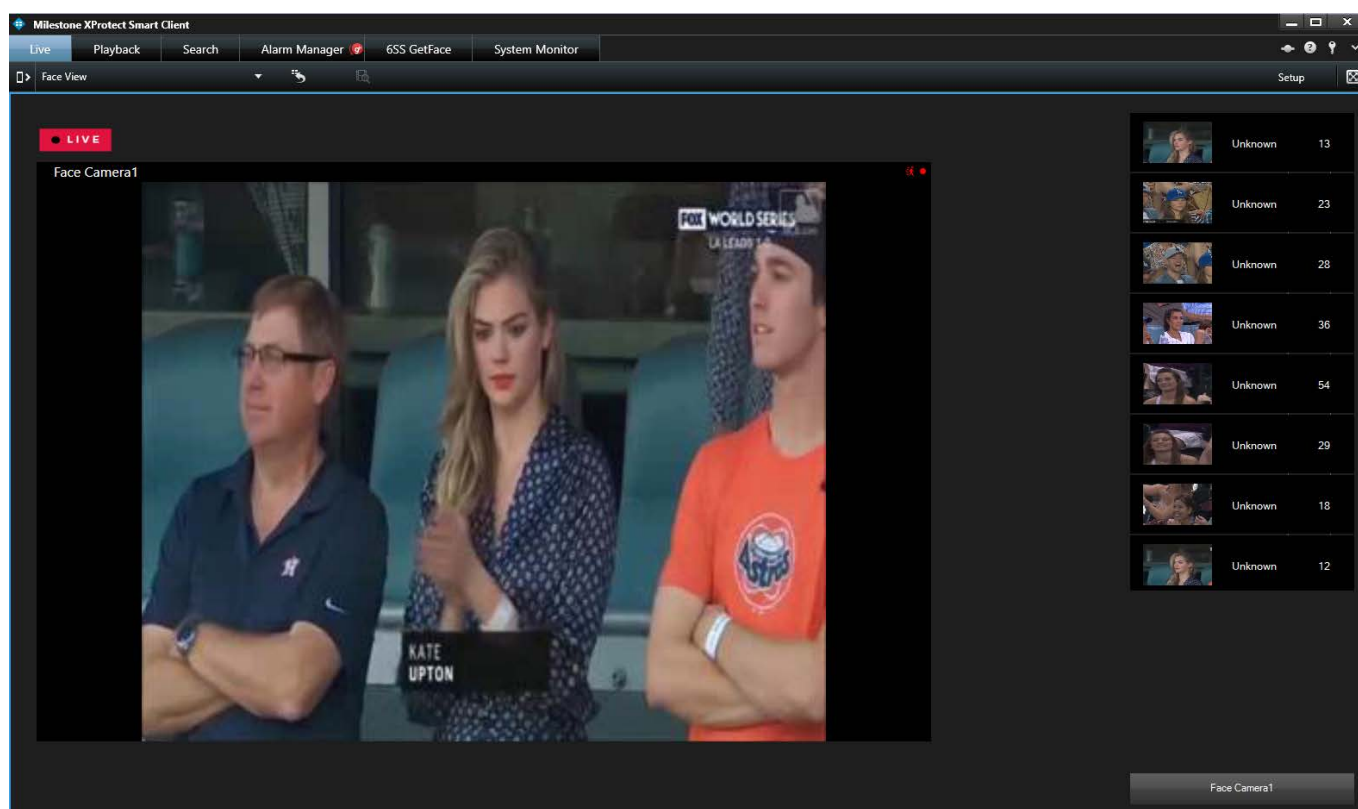
After installing 6SS GetFace plugin, a new tab in Milestone XProtect Smart Client will be shown: 6SS GetFace.



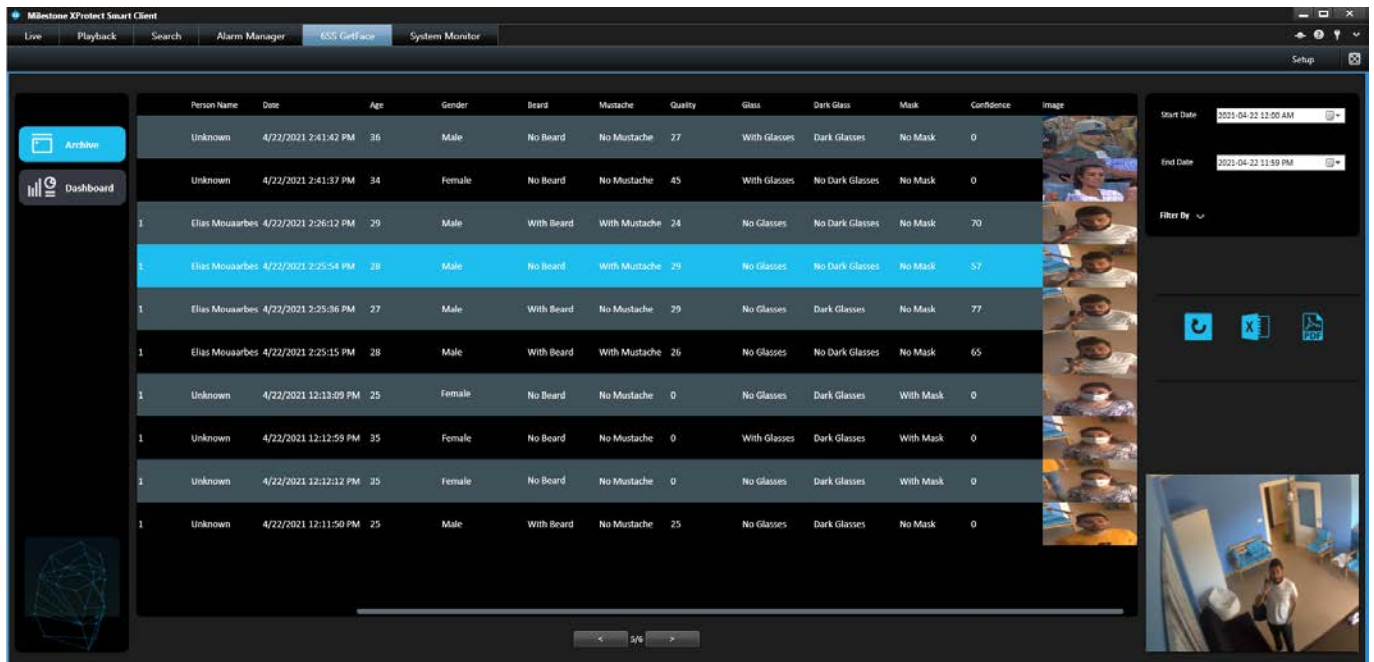
Login to the smart client and navigate to live tab. Create a view and drag and drop 6SS GetFace live plugin into the view.



Select Camera to see live streaming, and check the captured faces in the right panel.



Navigate to [6SS GetFace](#) tab, click [Archive](#) and select a date time period to check the list of faces detected within this period.



Choose to filter the list by selecting the appropriate filters for your search.

Filter By

Image Source

Any

Person Name

Gender

Any

Listed Detections

Any

Image Quality

0

Confidence

0

Glasses Detection

Any

Dark Glasses Detection

Any

Beard Detection

Any

Mustache Detection

Any

FaceMask Detection

☐ No Face Mask
 ☐ With Face Mask

Include Unknown Detections

ON

OK

You can export the result in Excel or PDF format.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	6SS GetFace																			
2		From	3/15/2021 15:01:57 PM																	
3		Till	3/15/2021 16:02:57 PM																	
4																				
5	CameraName	Id	PersonName	DateTime	Age	Gender	Beard	BeardConfidence	Mustache	MustacheConfidence	Quality	Glass	GlassConfidence	DarkGlass	DarkGlassConfidence	Mask	MaskConfidence	Watchlist	Confidence	Image
6	Face Camera-Lounge1	445	Unknown	3/15/2021 15:55	32	Female	FALSE	60	FALSE	65	54	FALSE	12	FALSE	34	FALSE	0		0	
7	Face Camera-Lounge1	443	Unknown	3/15/2021 15:34	29	Female	FALSE	51	FALSE	59	43	FALSE	9	FALSE	34	FALSE	0		0	
8	Face Camera1	438	Unknown	3/15/2021 15:19	32	Female	FALSE	54	FALSE	39	43	TRUE	14	FALSE	31	FALSE	0		0	
9	Face Camera1	433	Unknown	3/15/2021 15:08	22	Female	FALSE	52	FALSE	86	58	FALSE	54	FALSE	45	FALSE	0		0	
10	Face Camera1	431	Unknown	3/15/2021 15:08	17	Male	FALSE	0	FALSE	23	32	FALSE	18	TRUE	1	FALSE	0		0	
11	Face Camera1	430	Unknown	3/15/2021 15:08	39	Female	FALSE	62	FALSE	94	56	FALSE	53	FALSE	31	FALSE	0		0	
12	Face Camera1	426	Unknown	3/15/2021 15:06	29	Female	FALSE	59	FALSE	83	58	FALSE	40	FALSE	16	FALSE	0		0	
13	Face Camera1	419	Unknown	3/15/2021 15:06	35	Female	FALSE	40	FALSE	67	32	FALSE	30	FALSE	49	FALSE	0		0	
14	Face Camera1	417	Unknown	3/15/2021 15:06	34	Female	FALSE	53	FALSE	35	48	TRUE	1	FALSE	25	FALSE	0		0	

6SS GetFaceHistoryReport.pdf

Page: 1 / 2

Find:

Date: 3/15/2021 4:23:23 PM

6SS GetFace History Report

Camera Name	Id	PersonName	DateTime	Age	Gender	Beard	BeardConfidence	Mustache	MustacheConfidence	Quality	Glass	GlassConfidence	DarkGlasses	DarkGlassesConfidence	Mask	MaskConfidence	Watchlist	Confidence	Image
Face Camera-Lounge 1	457	Elise Mouarbes	3/15/2021 4:01:40 PM	25	Male	False	37	False	9	19	True	81	True	34	True	97	Blacklisted	57	
Face Camera 1	455	carla	3/15/2021 4:00:02 PM	27	Female	False	73	False	97	13	False	19	False	13	False	0	Whitelisted	75	
Face Camera 1	456	Unknown	3/15/2021 4:00:02 PM	31	Female	False	26	False	27	27	False	45	False	30	False	0		0	
Face Camera 1	454	Unknown	3/15/2021 3:59:57 PM	41	Female	False	66	False	61	24	False	51	False	10	False	0		0	
Face Camera 1	453	Unknown	3/15/2021 3:59:55 PM	30	Male	False	13	False	23	7	False	0	False	1	False	2		0	
Face Camera 1	452	carla	3/15/2021 3:59:55 PM	25	Female	False	64	False	57	18	False	44	False	27	False	0	Whitelisted	32	
Face Camera 1	451	Unknown	3/15/2021 3:59:53 PM	32	Female	False	71	False	34	13	False	59	False	39	False	0		0	
Face Camera 1	450	Unknown	3/15/2021 3:59:53 PM	49	Male	False	47	False	63	22	False	1	True	3	False	1		0	

Click [Dashboard](#) to get some live statistics about yearly, monthly, weekly, and daily variation of gender, mask, age, and features detections including beard, mustache, glasses, and dark glasses.

Click [Alarm Manager](#) tab to check any triggered alarms by GetFace module, such as if a person is listed among the blacklisted faces.

Milestone XProtect Smart Client

Live | Playback | Search | **Alarm Manager** | 6SS GetFace | System Monitor

Setup

No map has been selected

AXIS M1054 Network Camera (192.168.15.112) - Camera 1 - 2/25/2021 11:47:17.984 PM

11:20 PM | 11:30 PM | 2/25/2021 | **11:47:18.450 PM** | 12:10 AM

Quick Filters: New (13) | In progress (0) | On hold (0) | Closed (0)

Servers: WIN-COPD8IMA102

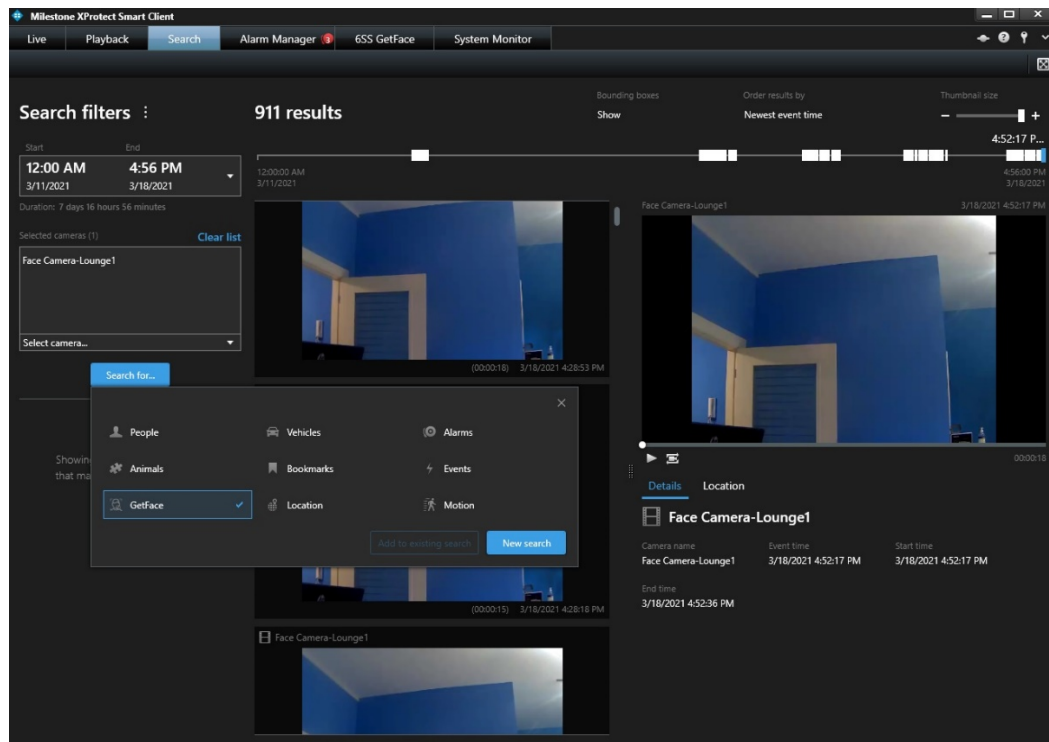
Alarms: No filter

Time	Priority Level	State Level	State Name	Message	Source	Owner	ID
8:15:31 AM 2/24/2021	1	1	New	Blacklisted Person: wael	AXIS M1054 Network Camera	Alarm	1
8:16:21 AM 2/24/2021	1	1	New	Blacklisted Person: wael	AXIS M1054 Network Camera	Alarm	2
11:49:26 AM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	3
1:36:29 PM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	4
1:36:38 PM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	5
1:36:40 PM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	6
1:36:58 PM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	7
1:37:36 PM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	8
1:43:18 PM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	9
1:45:10 PM 2/25/2021	1	1	New	Blacklisted Person: wael	AXIS P1344 Network Camera	Alarm	10

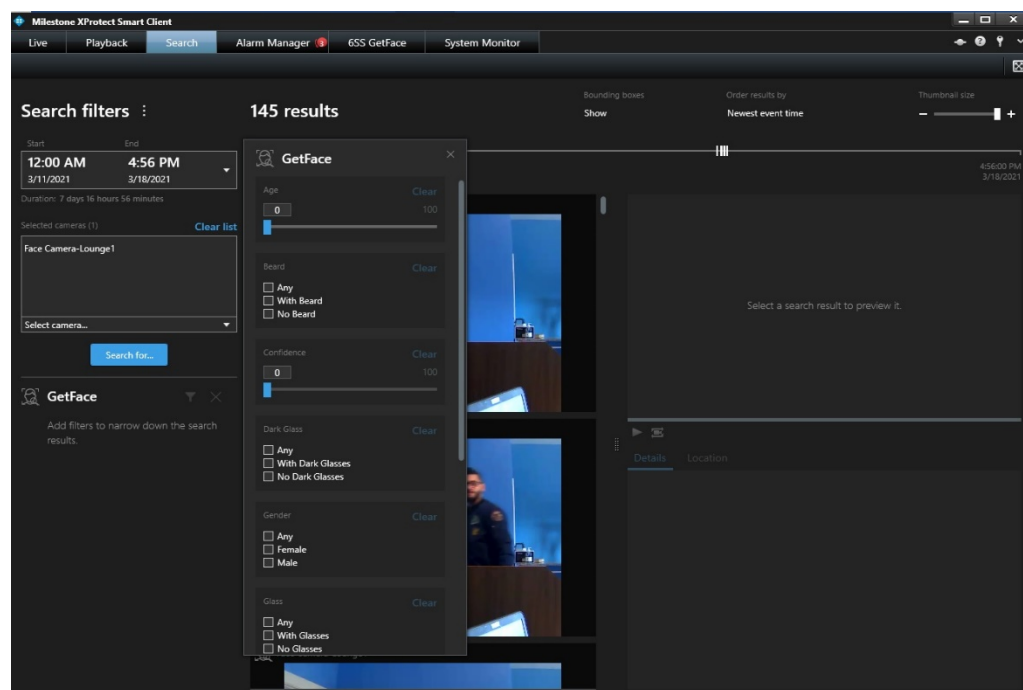
Reports: 1-13

6SS GetFace Central Search Plugin

Navigate to [Search](#) tab, choose a date time period and choose the list of cameras to be included in the search criteria, click [Search for](#) button and check [GetFace](#) module then click [New search](#).



Choose the filter criteria relevant to your search, either age estimation, mask detection, or any of the person's face features (beard, mustache, glasses, dark glasses).



All video results will be shown based on the chosen criteria. By clicking on a certain video footage, you will be able as well to play the recorded video at the triggered event time, and check all information related to this frame.

The screenshot displays the Milestone XProtect Smart Client interface. The top navigation bar includes tabs for Live, Playback, Search, Alarm Manager, 6SS GetFace, and System Monitor. The Search tab is active, showing 145 results. The search filters on the left include a date range from 12:00 AM to 4:56 PM on 3/11/2021, a duration of 7 days 16 hours 56 minutes, and a selected camera list containing Face Camera-Lounge1. The main display area shows three video feeds from Face Camera-Lounge1. The right panel provides details for the selected event, including the camera name, event time, start time, end time, person name, age, gender, confidence, quality, and facial features like glasses, mask, and mustache.

Face Camera-Lounge1		
Camera name	Event time	Start time
Face Camera-Lounge1	3/15/2021 4:01:40 PM	3/11/2021 12:00:00 AM
End time	Person Name	Age
3/10/2021 4:56:00 PM	Elias Mouaartes	25
Gender	Confidence	Quality
Male	57	19
Glasses	Dark Glasses	Mask
True	True	True
Mustache	Beard	
False	False	

About 6SS

6SS was founded in 2013 with Headquarters in Minnesota, USA. 6SS is a modern video surveillance and security systems company that provides complete security solution that you need and deserve, from Software to Hardware to Professional Services and Training.

All our products will integrate fully with the Milestone VMS. ♦

Any Questions?

Please reach out to us if you have
any question or inquiry
Email us at info@6ss.co

For more information visit:
www.6ss.co

Headquarters

7725 Bryant Ave N,
Brooklyn Park,
MN 55444 USA
Telephone: +1-651-233-0977