MagicINFO Analytics

Behavior Sensing

Administrator Guide v1.0

Samsung

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Preface

Users of this guide

This guide is intended for store owner or store manager who will manage and administrate MagicINFO Analytics - Behavior Sensing.

Conventions

This manual uses the following conventions as a courtesy to the reader to help provide a clearer understanding of the document.

Boldface	Boldface indicates graphical user interface elements, menus, navigation trees and directories within the main text, yet use quotation marks for portal, window, wizard among graphical user interface elements.
Italics	Italics indicates parameter names and values, and titles of other printed references.
Monospace	Monospace font indicates commands and codes. Use bold monospaced font for names of commands, parameters, registries, scripts, and process. Also use italic monospaced font for variables and parameter values.

Notes and notices

Note identifies additional information such as tips, recommendations, exceptions, and limitations.

Note: The additional settings are for configuring the Samsung cloud service.

- Unordered list of Note
- Unordered list of Note

Revision History

Manual Version	Revised Date	Revised Details
1.0	2019.08.30	Created

1. Getting Started

MagicINFO Analytics - Behavior Sensing is a solution to analyze the number of customers visiting the store and identify customer in-store movements.

Chapter 1 "Getting started," explains the following topics:

- Accessing the system
- Sign-up
- Logging in
- The initial screen

1.1 Accessing the system

Start web browser and enter the administrator website URL in the address bar.

1.2 Sign-up

If you have no account for accessing MagicINFO Analytics - Behavior Sensing, please contact the system administrator.

If you are a tenant manager, you can create a new account in **ADMIN > User > New Account** after logging in as tenant manager.

1.3 Logging in

To log in to the system, enter your ID and password in the login screen and click **SIGN IN**. The initial screen of MagicINFO Analytics - Behavior Sensing will be displayed.

	Samo	ing		ж	+						-		
-	\rightarrow	С	A Not secure			login					01	Ţ	ł
							ID						
							Password						
								SIGN IN					

Figure 1-1 Logging in

1.4 The initial screen

The initial screen of MagicINFO Analytics - Behavior Sensing is shown below.

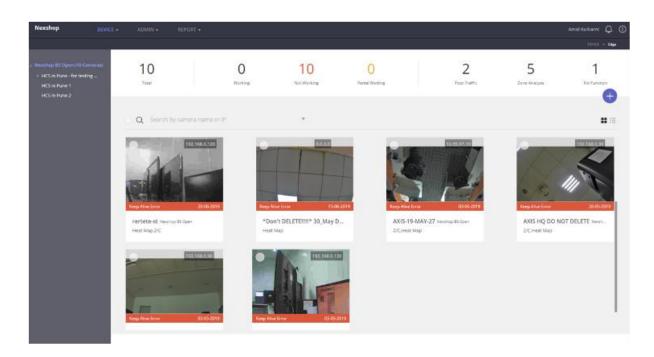


Figure 1-2 The initial screen of MagicINFO Analytics - Behavior Sensing

2. Managing sensing devices

You can register and manage sensing edge devices, which analyze in-store traffic and sending sensing data to server.

Chapter 2. "Managing sensing devices" explains the following topics:

- Viewing the sensing device lists
- Registering a sensing device
- Viewing the sensing device details
- Modifying the sensing device information
- Registering a analytic function
- Remote controlling a sensing device
- Deleting a sensing device

2.1 Viewing the sensing device lists

In order to analyze traffic data from the camera stream, you need to connect the Edge camera to the server. Follow the following procedures to check the the analytics functions set on the camera.

 Click **DEVICE**. On the device list, you can check the information or state of each device registered to a store.

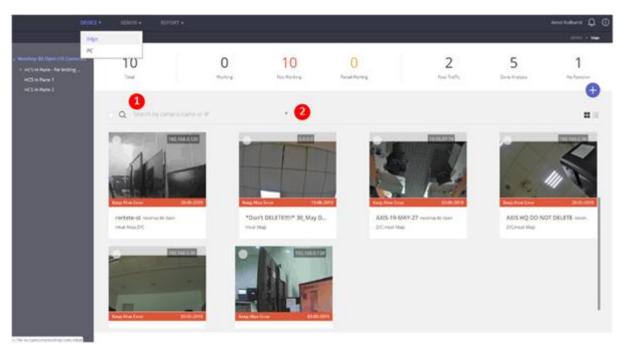


Figure 2-1 Sensing device list

No.	Fields	Description
1	Search by Camera name or IP	Search by camera name or IP address
2	Managed Function	Search by analytic function

Table 2-1 Search devices

- 2. If you type camera name in Search by Camera name, search lists will be displayed.
- 3. If you click $\mathbf{\nabla}$, Managed Functions will be displayed. You can search device lists which have selected

managed functions by checking managed functions.

Managed Function	People Count(Stereo)
	People Count(Mono)
	Heat Map
	Walk By
	Zone Count
	RESET SEARCH

Figure 2-2 Search by managed function

4. If you click list view icon, then device lists will be displayed as list view.

DEVICE	 ADMIN • 	REPORT *				Ar	nol Kulkarni 📮 DEVET > Map
Nexchop 85 Open (10 Cameras) > HCS in Pune - for testing HCS in Pune 1 HCS in Pune 2	10 Total	1 _{Warking}	9 Nat Working	0 Perial Warking	1 Foot Treffic	6 Zone Analysis	1 Na Function
	O Q Search	by camera name or IP		•			: :
	AXIS17,109		10.55.97.17	ss3 - No Use	Heat Map	Keep Alive 0	mer (26-06-20
	O TON OD*	ELETETE" ANSAL.	10.35.97.18	ss3 - No Use	Heat Map.2/C	Keep Alive E	imer (26-06-20
	 retetest 		192.168.0.120	Nexshop 85 Open	Heat Map 2/C	Keep Alive E	wer (20-06-20
	O *Don't DELE	TEIII* 30_May D	0.0.0	ss3 - No Use	Heat Map	Keep Alve E	mor (15-06-20
	O AXIS-19-MA	¥-27	10.55.97.19	Neishop 85 Open	Heat Map.2/C	Keep Alive E	mor (63-66-20
	O NDREAL YO	20NBI 카나다라마	192.168.0.120	Neishop 85 Open	25	Keep Alive C	wer (03-05-20

Figure 2-3 Device list - list view

2.2 Registering a sensing device

To add a new edge device, complete the following steps.

- 1. Go to **DEVICE > Edge**.
- 2. Click at the top right of the screen. The "New Edge Camera" window will be displayed where you can add a new edge camera.
- 3. Select store and enter camera name and MAC address, then click REGISTER

	Note: Before you register edge camera, Behavior sen edge camera.	sing client application should be installed first on the
(New Edge Camera Nexshop B5 Open	×
6	Edge Camera Name *	



Figure 2-4 Registering a edge camera

No.	Fields	Description
1	Store	Please select the store on which the edge camera is installed.

No.	Fields	Description
2	Edge Camera Name	Please input edge camera name
3	Mac Address	Input MAC address of the edge camera you want to register
4	REGISTER	Click REGISTER after input all needed fields

Table 2-2 Input fields for the new edge camera

2.3 Viewing the sensing device details

You can view the information of edge device by clicking the device from the list.

DEVICE + ADMIN + REP	ORT #				Amol Kulkarni 📮 🛈
4 6					DEVCI > Mar
← Camera Detail					Save
NEXREAL HCS					
	Basic Information				
		10.55.97.20	MAC ADDRESS	54:10:ECA2:76:86	
	STORE	Nexshop IIS Open	MODEL NAME	ND/REAL-BASE17	
UP: 10 004H: 22	FLOOR				
Keep Alve Error 26-06-2019					
Managed Function (1)					New Function



2.4 Modifying the sensing device information

You can modify the information of edge device in the device information window. You can change the name of edge device and add new analytic function as well.

DEVICE - ADM	IN * REPORT *				Amol Kulkarni	Q ()
					DEVCE +	C Age
← Camera Detall					Sa	we
NEXREAL HCS						
	Basic Information					
		10.55.07.20	MAC ADDRESS	54:10:ECA276:86		1
	STORE	Nexshop BS Open	MODEL NAME	NEIREAL-BASE17		
UP2 10 DOWN: 22 Keep Alve Error	FLOOR					
Managed Function (1)				[New Punction	•

Figure 2-6 Edge device information window

2.5 Registering a analytic function



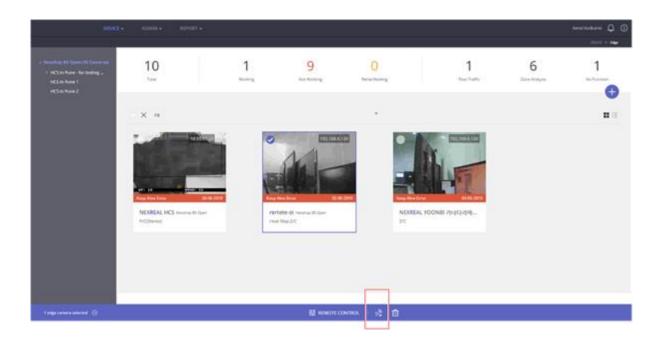


Figure 2-7 Adding a new analytic function

The input fields for adding a new analytic function depend on the function as you want to add.

People Count(Mono)

People Count(Mono) is the analytic function for counting visitors who visit store. To add the People Count(Mono), please follow the following steps.

 Input DISTANCE and ENTRANCE in Input section. DISTANCE means the distance between camera and floor. ENTRANCE means the border line between outside and inside of the store entrance. For example, If you choose Left in ENTRANCE, It means the left side of TRACK area in Template > TRACK section, is the outside of store and Customers enter store from left to right in TRACK area.

New Function				
People Count (M	ono)	Ψ		
nput *				
DISTANCE*	Enter number	m ENTRANCE*	Left	Y
「emplate *				
	1 INIT CANVAS	2 TRACK	APPLY	

Figure 2-8 Add analytic function - People Count(Mono)

- 2. Please configure analytic area in the Template section. The settings are as follows.
- 3. Init Canvas: This will capture the camera screen for configuring analytic area.

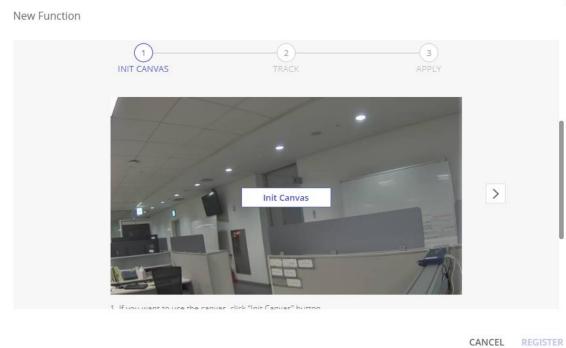
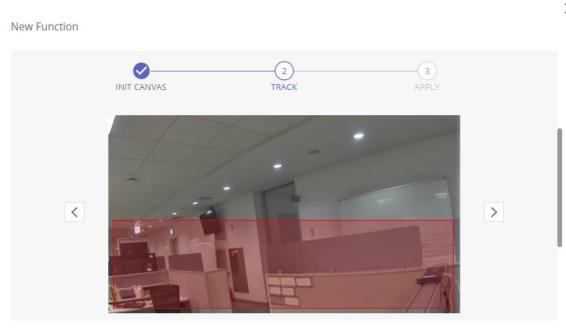


Figure 2-9 INIT CANVAS

4. **TRACK**: You can set the entrance area for counting visitors. Please drag the red area or enlarge/shrink the area by selecting the border. Entrance direction depends on the selection in the **Template** section.



CANCEL REGISTER

Figure 2-10 TRACK

5. **APPLY**: After confirming that the analytic area is set well, please click **REGISTER** to add analytic function.

Heat Map

Heat Map camera is used to analyze the in-store movement of customers. On the Function Registration screen, select the **Heat Map**. Enter the information and click the **CAPTURE** in the Preview area to view the camera screen. If you click the **REGISTER** button, the **Heat Map** is registered.

×

New Function			ſ
Heat Map	Ŧ		
nput *			
UPLOADED IMAGE* O Yes O No			
Preview *			

Figure 2-11 Adding a new function - Heat Map



Walk By

Walk By is used to analyze the floating population around the store. On the New Function screen, select Walk By. After setting parameters for Walk By function, click the REGISTER to add function.

New Function					1
Walk By		v			
input *					
DISTANCE*	Enter Number	m			
Template *					
	INIT CANVAS	2 TRACK(1ST)	3 TRACK(2ND)	APPLY	

Figure 2-12 Adding a new function - Walk By

- 1. Please input the **DISTANCE** in **Input** section.
- 2. **INIT CANVAS**: This will capture the camera screen for configuring analytic area.

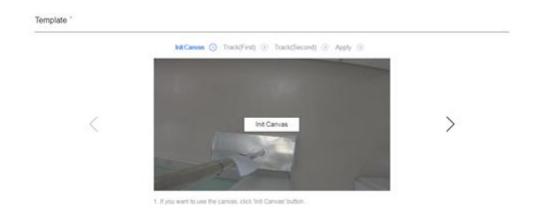


Figure 2-13 INIT CANVAS

3. Track(First): Draw Walk By area. You can add one or two Walk By areas in a camera.

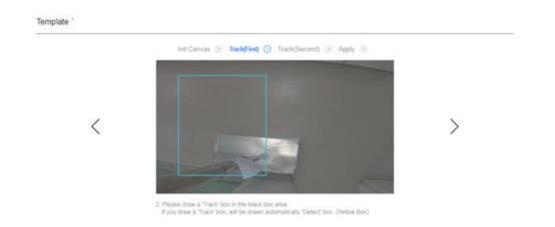


Figure 2-14 First Walk By area

4. Track(Second): Draw second Walk By area. This is optional.

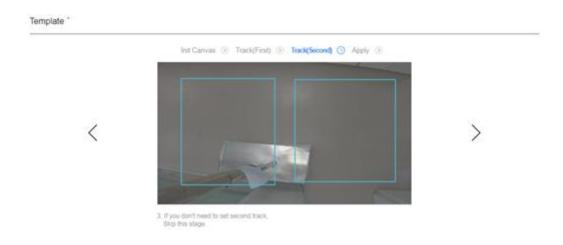


Figure 2-15 Second Walk By area

- 5. Apply: After confirming that the analytic area is set well, please click Apply to apply the settings.
- 6. After checking Advanced Setting values, then click **REGISTER**.

Zone Count

Zone Count is used to analyze specific area in the store, It analyzes how many people entered in the area and how long they are stayed in the zone. On the New Function screen, select Zone Count. After setting

parameters for Zone Count, click the REGISTER to add function.

New Function						×
Zone Count		~				
Input *						
DISTANCE*	Enter Number	m				
Template *						
	1 INIT CANVAS	2 TRACK(1ST)	3 TRACK(2ND)	4 APPLY		
					CANCEL	REGISTER

Figure 2-16 Adding a new function - Zone Count

_

- 1. Please input the **DISTANCE** in **Input** section.
- 2. **INIT CANVAS**: This will capture the camera screen for configuring analytic area.

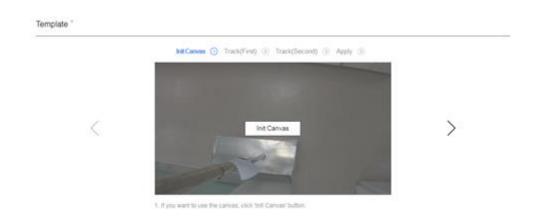


Figure 2-17 INIT CANVAS

3. Track(First): Draw Zone Count area. You can add one or two Zone Count areas in a camera.

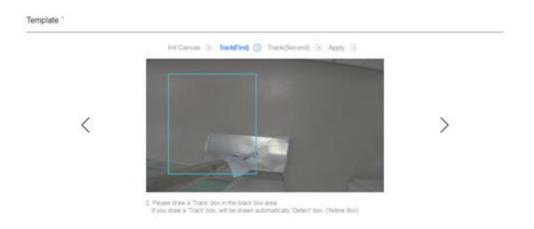


Figure 2-18 First Zone Count area

4. Track(Second): Draw second Walk By area. This is optional.

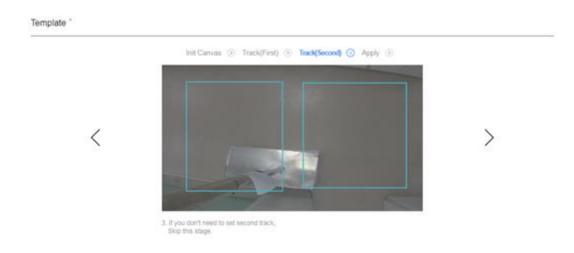


Figure 2-19 Second Zone Count area

- 5. Apply: After confirming that the analytic area is set well, please click Apply to apply the settings.
- 6. After checking Advanced Setting values, then click **REGISTER**.

2.6 Remote controlling a sensing device

If you select one or more cameras from the device list,

E REMOTE CONTROL

appears at the bottom.

If you click the icon, the pop-up for remote-controlling device appears. Alternatively, you can remote-control the device in the information window of edge camera.

emote Control	×		
Function Restart			
Device Reboot			
Upload Log File			
	1		RES
	٠		
	Function Restart Device Reboot	Function Restart Device Reboot	Function Restart Device Reboot

Figure 2-20 Pop-up for remote-controlling device

No.	Commands	Description
1	Function Restart	sending command for restarting functions of the selected device.
2	Device Reboot	sending command for rebooting the selected device.

No.	Commands	Description
3	Upload Log File	sending command for uploading the log files of the selected device. This is used for trouble-shooting device.

Table 2-3 Available commands for remote-controlling

2.7 Deleting a sensing device



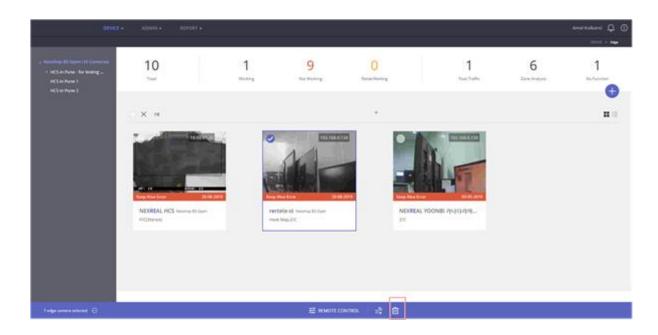


Figure 2-21 Deleting device

3. Managing Behavior Sensing configurations

In System Management, you can use the **ADMIN** menu to manage your store, manage users, manage floor plans, calibrate data, and manage software updates.

Chapter 3, "Managing the System," covers the following topics:

- Managing Store
- Managing Users
- Managing Floor Plan
- Managing Data analysis
- SW Update
- Managing E-mail

3.1 Managing Store

Store information management is performed by the store manager or system administrator. You can register a store to manage its information.

- 1. On the Store Information Management screen, you can manage store information with the following items.
- Basic Information : Enter store location information, date format, and time zone information.
- Behavior Sensing Information : Sets whether to use the camera, Zone Count Offset (seconds), and Sensing Collection Time for each day of the week.

	il + ADARN +	REPORT -							Amerikani (
entiting #5 Open 1 HCS in Pure : for texting	Nexshop 85 Oper	• :							
HCS in Pune 1 HCS in Pune 2	Basic information 1								
	Dart TURNET *		00-M		**		THE DOLL ?	ána.	
	0004044470				1			(DMT =21.32) Kettala	
	Bahavior Sensing in	damation*]						
	CAMERA *		0		O In Law		MINE MUNE ON F	Sanday	
	DIM CONVENTION		1			Sec. 2.1			
	MINIME COLUMN	N 7163							
	Minday	04 3		194					
	Tuesday	04 1		21 1 00					
	Web diversibility	104.1		21 2 10					
	Thursday			21 1 00					
	tendag.	104 I		21 2 00					
	Second	104-1	- 10	21. 1. 00					
+ Marco Marco	hamilar	08 1		21 2 00					

Figure 3-1 Store Inquiry Screen

- 2. To create a store, follow these steps:
- Click the New store button. The new store information input screen appears. The default name New store will appear. Enter the desired name.

									Ared Side	
									-	-
Newshipp 85 Open	Nexshop 85 Ope	•								
+ HCS in Pure - for texting HCS in Pure 1 HCS in Pure 2	Basic information									
	LASS TORNAL 1		00	-hitler - frit	v saises		THAT DONE T	âna.		
	0004044701		. 2			1.0		(DAT =21.32) Kitkala	(*)	
	Bahavior Sensing 1	damatan	į.							
	CAMERA *		0			C Instan	antysis antiana das -	Turnity	•	
	TIME CONVENTION		1			(area (0))				
	MINIMUM COLUMN	101								
					110					
	Munday	04			1 (0)-					
	fuesday .	- 04 - 1	- 05	- 21	1 300					
	Weighter State	04.1	-00	: 21	1.00					
	Thursday		44	-21	1.00					
	trackey.	106.1	- 66	-21	: 00					
	Sector	104.1	. 66	- 21	1.00					
1	humber		-00		1.00					

Figure 3-2 Store Creation Screen

4. Enter information in the Basic Information field. Set the TIME ZONE, DATE FORMAT and COORDINATES .

									-
nhug 85 Dpon HCS in Pure - for testing	Neeshop #5 Ope	53							
CSInPute1 CSInPute2	Basic information *								
	parts rightest +		-	o tent in	niv societ		Tast JONE +	40	
	000044/85		4					104/T +01.00 Kolkata	
	Battankar Sensing In	di matan	÷						
	cauria -		0	il an		O for size	within ansate day -	Sanday	
	pove zósan enne		5			Secold			
	104046-016,4010	N TONT							
	Mondae			11	***				
	Tuesday				1 1 0				
	madrentity				1 1 10				
	Therefore	-			1.0				
	Protage				1 1 10				
	Sec. Og		- 66		τ <u>Ξ</u> . (10				
+ have libera	Durnites.	100	-00	15	1 1 30				

Figure 3-3 Basic Information Input Screen

5. You can set the information in the **Behavior Sensing Information** text box. You can set whether or not to use the camera, set Zone Count Offset, and start and end time of Sensing Collection Time for each day of the week.

Note:

Data outside of hours is not aggregated in the report.

nhoa 16 Com	Nexshop 85 Ope	e.).										
Clin Pure 1 Clin Pure 2	Basil: Information											
	Delle Pomont +			00-M	M.YT	YHE	P(16			70ML32NE +	418	
	community			4			1.0				104/7 +01.01 volume	
	CAMERA *			3			0.1	vit une	in and i	MERCHINA) CPL+	"Avendag	*
			raat.			1141						
	Evenday Tuesday		I 00 I 00									
	Westwooday		1 00			1.0						
			1 00			1.4						
	Tractility											
	Tracestay Print ag		1 0		21	1.0						

Figure 3-4 Behavior Sensing Information Setting Screen

 Click the New Option button in the **Report Option** area to register the settings you want to apply to the People Count, Visitor Ratio, and Face Analysis Common reports.

insiling #5 Open	20M COUNT STORT		3		decorrelation of the second se			
HCS in Purse - for testing								
INCS IN PUME 1 INCS IN PUME 2	MENONG TELLECTOR	and a						
HC3 III Furle 2	this is a second s	26 2 9	1 21 2 4	11				
	Tuesday	-06 1 0						
	Wetweener							
	Thursday	00 1 0						
	Protoc							
	Saturday	10 1 0						
	Sunday	86 1 8						
	-							
	REPORT OFFICE							New Option
		Across			SPINON GROUP		ornon silest	
	People Courts			644		AK521876-007		
	Petitie Court			Gen		Test		
	Peters Courte			Table		AKS-210-PC-IN		
	People Lours			549		40/5-122-PC-m		
	People Court			Gate		ANS-122-PC-DUT		

Figure 3-5 Report option Information Setting Screen

7. Select the sensor to be included in the **group**, put it on the right side, enter the Option Name and save.

DEVIC	I + ADMIN +	REPORT + DEVICE +					Arnel Kalharri 🖉
Nexthing #5 Open + rects in Purce - for testing HCS in Purce 2 HCS in Purce 2	Defusive Sensing Control of 2014 Control of Sensing Could of Manday Decide Washenday Decide Sensing Sensing Sensing	Add new report option People Court Option Name	р 	Total NAME P	OPERATOR REVIEWORD THRE	× •	
+ Name store	DILITI					SAVE	

Figure 3-6 Report option - Group setting screen

Note:
In the assigned sensor, you can specify the sum (+), subtraction (-), in direction, and out
direction. Face Analysis can only specify sums and subtractions.

8. Click **SAVE** on the bottom right of the screen. You will see a message at the bottom of the screen indicating that the creation was successful.

in int S in Pure - for testing	20wil (Dunet Derrict)		5		Second				
	MINING COLLECTION								
INCLUMINE 1 INCLUMINE 2	an an an a solution of a	110	ii i	in the second se					
	Monday	36.2	88	21.1.00					
	Tuesday	20 1	100	21 1 10					
	Weitweitung	20.12	-00	21.12.10					
	thursday	36 3	-	27 1 86					
	Analog	26 3	00	21 2 10					
	Second	26 2	- 00	21012-00					
	Service .	36 3		27 . 1 . 84					
	NOTONT OFFICIAL							140	e Option
		111	unt .			rtoniador		OFT CALABOR	
					11111		100000000000000000000000000000000000000		
	People Courte				644		NR2107C007		
	Probale Course Probale Course				Gan Gan		NIS 210 PC 0UF		
	People Court				649		Tex		

Figure 3-7 Save Screen

3.2 Managing Users

User management is performed by System admin or Store manager. You can check the information of users using the system and manage users by adding and deleting users. To add a user, follow these steps:

1. To add a user, click **ADMIN > User > New Account**

DEVICE +	ADMIN - REPORT -				Amal Kahami 🛛 🗘
					4247 1 Ber
 Nexthop BS Open (5 users) HCS in Pure - for testing 	Account List (5)			Q. Search D, account name, role	and store New Account.
HCS in Pune 1		ACCOUNT NAME	ROLE	57048	REGISTERED
HCS in Pune 2	kuland	Ampi Kulkarni	Terant Manager	Neichop 85 Open	18-02-2019 08:30:53
	publika	Vshakha Galexad	Store Wanager	HCS in Pune 1	1840-2019 11:01:07
	come.text02	camp.best02	Store Wanager	HCS in Pune 1	10-04-2019 14:53:21
	come.text01	camp.bex01	Store Wanager	HCS in Pune 1	10-04-2019 14:55:27
	come,tect03	camp.best03	HQ Manager	Neishop BS Open	10-04-2019 14:58:30

Figure 3-8 Add User Screen

2. A new user information input window appears. Enter information in the items marked with *. Enter your store, ID, account name, password, role, etc.

Add new account		
Store *	Nexshop BS Open	Ŧ
ID *	Enter ID	Check ID
Account Name *		
Password * 🚯		
	Confirm password	
Language *	English	v
Role*	O Tenant Manager	
	O HQ Manager	

※ Nexshop do not collect and process personal information. Therefore, please do not enter any information that identifies you (ie, your personal information) when you create your account.

 I have verified that my account information does not contain any personal information.

CANCEL ADD

Figure 3-9 User Information Input Screen

3. When done, click **ADD**.

[CON	TEIDE	NTIAL1
lco	NLIDE	NTIAL

Add new account		>	<
Store *	Nexshop BS Open	Ŧ	
ID *	Enter ID	Check ID	
Account Name *			
Password * 🚯			
	Confirm password		
Language *	English	Ŧ	
Role*	 Tenant Manager 		
	HQ Manager		
Therefore, please do	illect and process personal informatio not enter any information that identif ation) when you create your account.	fies you (ie,	
I have verified th personal inform	at my account information does not c ation.	ontain any	
	CANCE	ADD]

Figure 3-10 ADD Screen

4. To search for a user, enter the username in the search box at the top right of the screen.

					And Kukani 🗘
					6011 × 0
Nexchop BS Open (5 users) > HCS in Pune - for testing	Account List (5)			Q. Search E, account name,	role and store New Account
HCS in Pune 1	0	ACCOUNT NAME	80.5	908	RE0575RD
HCS in Pune 2	kulansi	Amol Kulkarni	Terant Manager	Neishop 85 Open	18-42-2019-08:30:53
	prisheihe	Vishakha Galkaad	Store Manager	HCS in Pune 1	1840-2019 11:31:37
	0000.00002	compilest02	Store Wanager	HCS in Pune 1	10-04-2019 14:53:21
	come.txxt21	compilest01	Store Wanager	HCS in Pune 1	10-04-2019 14:55:27
	come-text()	compileent3	HQ Manager	Neishop 85-Open	10442019145830

Figure 3-11 User Search Screen

3.3 Managing the Floor Plan

To add a floor setting, follow these steps:

1. Click **ADMIN > Floor Plan** . A list of registered floor settings is displayed.

DEVICE •	ADMIN + REPORT +	ыл.					And Kukani
							data > No
Nershop BS Open (43 Room) + HCS in Pune - for testing	Floor List (7)						New Fe
HCS in Pune 1	R,DOR MAKE	RENAM	CONNECTED 20ME	CONNECTED HEAT WAP	UPDATED BY	UP04710 ¥	SETTING
HSInPure2	Temp	front 34	0	0	kulandi	2019-07-16 11:09-21.0	ZONE HEAT MAP
	Test, foor, DND, SH, 13	foorPlan.org	0	1	kulamol	2019-06-12 06:42:01.0	20NE HEAT MAP
	Test_floor2_27M	foorPlansing	4	2	kulandi	201945-2710:17:38.0	20NE HEAT MAP
	New_floor_27M	foorRan_text.org	0	1	kulandi	2019-05-27 05:58:18.0	20NE HEAT MAP
	74000444033750	sample-map.org	0	0	kulandi	2019-04-30 05:29:29:0	20NE HEAT MAP
	Report Test(Don't Delete)	foor plan.prg	4	0	kulandi	2019-04-29 19:22:21.0	ZONE HEAT MAP
	ELOSECCELOSLO	sample-map.org	0	0	kulamol	2019-04-25 02:30:42.0	20NE HEAT MAP

Figure 3-12 Floor Plan Search Screen

- 2. Click **New Floor** New Floor. The Add Floor Settings screen appears.
- 3. After entering the layer name, select the drawing file in the **Select File** item and click the **Create** button to add the layer setting.

		\times
Floor Name		
Select File Only syg files can be uploaded		
	CANCEL	CREATE

Figure 3-13 Layer Settings Screen

- 4. Click **Zone** to display the drawing image where you can set the zone to map. To set up a zone, follow these steps:
- Click Add Zone on the left side of the Zone setup screen.
- When the Add Zone screen appears, enter the zone name.
- Search for the camera name or IP and select the desired camera.
- Set the desired area by clicking the mouse on the right side of the Zone setting screen.
- Click **DONE** to link the Zone name to the zone you set.
- Click **SAVE** to save your Zone settings.

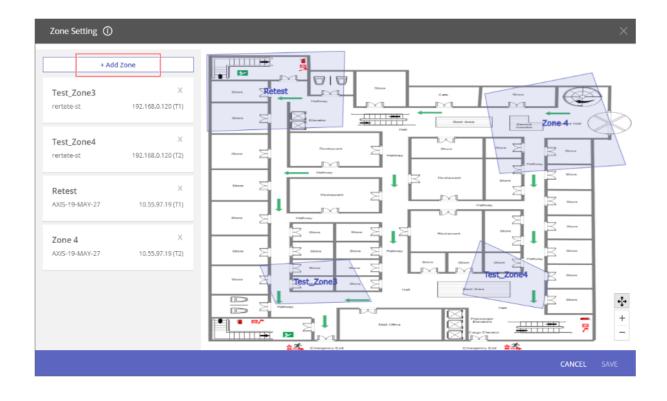


Figure 3-14 Setting Zone Screen

Zone Setting ①		×
Zone Name		
Q Search by Name or IP		
AXI5122#222 70.30.185.122		
		, Bar
		· + _
Done		-
	CANC	EL SAVE

Figure 3-15 Add Zone Screen

5. Clicking HEAT MAP brings up a drawing image that allows you to set the area to map. To set up HEAT

MAP, follow the steps below.

- Click Add Area on the left side of the Heat Map setup screen.
- When the Add Heat Map screen appears, search for a camera name or IP and select the camera.
- Set the desired area by clicking the mouse several times on the right side of the Heat Map setting screen.
- Click **DONE** to set the Heat Map area.
- Click **SAVE** to save the Heat Map settings.

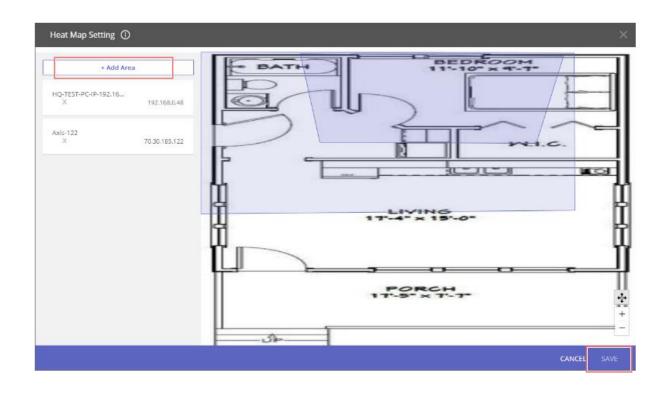


Figure 3-16 Heat Map Setting Screen

t Map Setting	0			
Search by Na	me or IP ×		2 MAPPING	
AMERA NAME	IP			
uis-122	70.30.185.122			
Q-TEST-PC-L.	192.168.0.48			
			- Fred and	
		Choose came Select area to use by clickin		
Do	one			
				CANCEL

Figure 3-17 Heat Map Setting - Area Setup Screen

3.4 Managing Data Calibration

 In Manage Data Calibration, set the data calibration options. You can copy analysis options set at other stores, or set your own calibration rate by day and hour.

 Reading RI Open HCL IN Twite - for texting 	Analysis Option						0	Chery Warn Other 36
HCS in fure 1 (HCS in fure 2	Contraction Rates (M) *	transmission di 100	Cues 44 47 Carls 2					er jan (general er 2010).
	manufacture.	and an	turnin	woweday.	number	mbar	saturper-	neber
	81-11		1.0					
	11 - 64			1.02	1.1	1.9		
	42-14							
	10-14					1.0		
	Sec. 10					- 14.		
	20-38		(4)					
	10-17		100	10	100		100	
	47-14	100	100	100	406	100	900	
	20-11	100	120	100	100	10.0	900	-
	29-14	10	10	10	100	100	900	100
	10-11	- 14	100	10	10	100	907	-
	91-12	- 16	100	100	555	10.0	100	10
	10-10	100	100	208	100	900	100	102
	10-34	- 18	100	10	100	100	100	101
	1+-11	100	. 100	100	494		900	
	20-10	- 10	100	100	100	102	990.	10
	14-17		100	100	100	404	407	-

Figure 3-18 Manage Data Calibration Screen

No.	Items	Description
1	Copy from Other Store	Copy the calibration percentage from another store.
2	Copy to All Cells	Copies all items by the entered value.

Table 3-1 Correcting Data

2. You can select other stores you want to copy and set the direct correction ratio by day and hour.

Copy from Other	Store			×
Store*	Nexshop BS Open		v	
		CANCEL	DONE	

Figure 3-19 Copy from another store - store selection screen

 You can reset all the entered values by clicking **RESET** button. You can also save the entered correction ratio values by clicking the **SAVE** button.

08-09	100	100	100	100	100	100	100
09-10	100	100	100	100	100	100	100
10-11	100	100	100	100	100	100	100
11-12	100	100	100	100	100	100	100
12-13	100	100	100	100	100	100	100
13-14	100	100	100	100	100	100	100
14-15	100	100	100	100	100	100	100
15-16	100	100	100	100	100	100	100
16-17	100	100	100	100	100	100	100
17-18	100	100	100	100	100	100	100
18-19	100	100	100	100	100	100	100
19-20	100	100	100	100	100	100	100
20-21	100	100	100	100	100	100	100
21-22	0	0			D	0	
22-23	0	0			D	0	
23-24	0	0			D	0	0
							2
							1 RESET SAVE
							-

Figure 3-20 Managing Data Analysis - Save Screen

3.5 Managing SW Update

SW Update is performed by Store Manager. After the application is properly installed on the camera in the store, you can set up to deploy and rollback. To set up, follow these steps:

1. Click ADMIN > SW Update.

t	DEVICE - ADMIN -	REPORT +					Anai Kulkami 🗘
							ADATA > Deliptica
GW Update list (5)							
795	SWYERSON	PLE NAME	92	UR04060 W	0691,040 84	574745	
ANS-EDGE-AM	1,66,am/M	Nexshop/OS_1_0-5_armv7hf.eap	9.25 MB	26-07-2019	sasungkim	franky to chaptery	DEPLOY
NEXIEAL-EDGE-NA	1,63,am/M	Nexshop/OS_1_0-3_armv?hf.eap	9.24 1/8	26-07-2019	sasungkim	Ready to checkly	DEPLOY
AX54208-4X	4,1-0,ami74	Nexshop/05_4_1-0_armv7td.wap	9.25 MB	18-07-2019	sasungkim	Deployed 2016/01/01/01/2020	DEPLOYED
AX54DGE4E	4,0-0,ami/14	Nershop 05,4,0-0,arm/7HL sap	9.25 MB	18-07-2019	szoungkim	Partially Deployed 01	DEPLOY
NERRA-EDGEAX	300	NEREK_300.mp	0.40 MB	19-04-2019	sasungkim	Deployed 2019-04-2019/1943	DEPLOYED

Figure 3-21 Software Update Query Screen

When the Status is Ready to Deploy in the SW Update list, click Deploy to bring up the SW Update screen.
 Select the SW and click the Update button to complete the update.

NAME	STORE	SW VERSION
AXIS-182##22	Nexshop BS Open	4.2-0-0-c
AXI5122#22	Nexshop BS Open	4.2-0-0-c

Figure 3-22 Software Update Screen

3. To update the software, select the store and the in-store camera device and perform the update.

							1000 × 14
date list (5)							
7199	SEVERSON	PLE NAME	121	UPL04010 ¥	00%040-07	534745	
ANS-EDGE-AM	U-Sam?M	Nerchop 05,1,0-5,arm/7H/aap	9.25 MB	26-07-2019	satungkom	Fact, to depicy	DEPLOY
NERRAL-EDGE-NA	1,0-3, arm/74	NexohopIDS_1_0-3_arms7hEeap	9.24.56	26-07-2019	satungkom	Testy to depicy	DEPLOY
AXIS-EDGE-AX	4,14, am/7d	NeichopOS_4_14_anm/7hEeap	9.25 MB	18-07-2019	satungkom	Depityed 2019-07-10198-00-020	DEPLOYED
AXIS-EDGE-AE	4,0-0,200,751	NexchopIO5_4_0+0_anmi7hEeap	9.25 MB	18-07-2019	satungkom	Partially Deployed D1	DEPLOY
NERRAL-EDGE-NK	3.0-0	NDR04L3.0-0.49p	0.50 MB	19-04-2019	satungkom	Deployed 2019-04-2019/104-2	DEPLOYED
DEV	CL+ ADMN+	REPORT # DEVICE #	_	_		_	And Eduar
DEV	CE + ADMIN +	REPORT + DEVICE +					And Editors
DEVI Idate list (5)	CE + ADMIN +	REPORT • CRIVICE •					
	CE + ADMIN +	REPORT • DEVICE •	58	67.6400 v	001.010 M	9505	
date list. (5)			525 9.25 MB	UPL6400 # 2647-2019	perunta br saturgion	STATUS Touty in service	
date list (5) 1995	SHESON	PLE NAME					
date list (5) Trive AUS-EDGE-AM	season (stjanste	FLE SAME NetchopOl_1_05_ares/Maap	9.25 MB	26-07-2019	saturgion	Facely is inspirity	PAUSE
date list (5) Tree AUS-(50) AM NDRIA-(50) AA	sensor Gamente Gamente	Fiz WAR NechopOS_1_53_emcMaap NechopOS_1_53_emcMaap	9.25 MB 9.24 MB	2647-2019 2647-2019	satung kom satung kom	Ready to inspire Ready to inspire Depices	PAUSE DEFLOY

Figure 3-23 Change Setting Screen

Note:

There are two types of SW Update status: DEPLOY and DEPLOYED.

4. You can check the SW Update file history information by selecting a specific type from the current final version list by device type.

00	VICE . ADMIN . REPORT .					Amel Kulturel 📮
						Alter - Bright
NEXTERL-EDGE-NA						
istory						
SILVERSON.	PLI WORL	562	UP.04000 *	009-0400 BY	514745	
1,93,400.01	NeishopO5,1,0-3,arm/Trifaap	9.24 1/8	26-07-2019	saturg low	$Read_{\mathcal{G}} := Reg : r_{\mathcal{G}}$	DEPLOY
3.0-0	ND/R04L_3.0-0.440	0.40 MB	16-05-2019	saturg kim	Deproyed 2010/06/21 10:46:26:2	0471,0100
3.040	NDR04_30-5 exp	0.40 MB	10-04-2019	securgition	Depiloped (019-06-06-06-07-01-06-0	0471,0180
3.0-0	ND/R04L30-0.449	0.40 MB	10-04-2019	securgium	Depinyed protects particular biolog	06710160
3.0.0	Neurosi_30.0 exp	0.61 MB	05-04-2019	saturg tom	Deployed ptribute to the ball	06760460
3.5.4	Netfeel_3.5.6.exp	0.41 MB	04-04-2019	saturg from	Partially Depicition 01	DEPLOY
354	Neufeal_3.5.0.eap	0.41 MB	04-04-2019	securgitim	Deproyed 2010 (an 04 100.00 (an 0	DEPLOYED
76(4),3.4.0	Nexfeal_Tejre_3.4.0 exp	0.01 1/10	03-04-2019	securg tim	Degitiveed (0.000-00-	06740469
3.0.0	NEXR64.,3.0.0.440	0.61 1/0	18-03-2019		Deployed protector (11/10/0010	DEPLOYED
3.0-0	NDRAL 30-Lasp	0.01 MB	18-05-2019		Provely to chaptery	DEFLOY
3.04	NDR04_30-0 exp	0.41 MB	13-03-2019		Deproyee prime carry a carrier carry	0471,0150
3.0-0	NDROK_30-DAMP	0.61 MB	07-03-2019		Partially Depicyed 61	DEPLOY
3.0-0	NERRAL 3.0-0 map	0.01 1/18	07-03-2019		Depinyed 2019-03-01 (0.01 No.0	DEPLOYED
3.0-0	NDRIAL,30-LANP	0.41 MB	07-03-2019		Depisyed 2010-02-0110-1201-2	0471.0109
30-0	NERGAL_3.0-0.exp	0.01 MB	07-03-2019		Despiração presidente de constantes de	04PL0100

Figure 3-24 Detailed screen by software update type

3.6 Managing Email

E-mail is performed by the Store Manager. If the camera is disconnected or malfunctions and communication with the server is not successful, the failure notification email will be sent to the registered e-mail.

E-mail server information must be registered before sending.

1. Click ADMIN > E-Mail.

	DEVICE •	ADMIN -	REPORT -			Amoi Kalkami 📮
						ADAIN > EMA
 Neishop BS Open (0) HCS in Pune - for testing HCS in Pune 1 	-			E-Mail list (1)	Enter e-mail to search or add	
HCS in Pune 2(1)				11111@samsung.com		

Figure 3-25 E-Mail Screen

2. To add an E-mail, enter the E-mail address in the search box on the right side of the E-mail list and tap

Add.

DEVICE •	ADMIN +	REPORT +			Anol Kalkami 🛛 📮
					AND > FM
 Nexthop BS Open (0) HCS in Pune - for testing HCS in Pune 1 HCS in Pune 2(1) 			E-Mail list (1) 11111@samsung.com	Enter e-mail to search or add	Add

Figure 3-26 Add E-mail screen

No.	Description
1	Search for email.
2	Add E-mail

Table 3-2 Add E-mail screen

4. Viewing Behavior Sensing report

The information collected by the sensor can be viewed in report format from the **Report** menu. The types of reports you can see include the People Count and Zone Count reports

Chapter 4, "Checking Reports," covers the following topics:

- People Count
- Zone Count

4.1 People Count

To view the People Count report, follow these steps:

- 1. Click **REPORT > Behavior Sensing > People Count**.
- 2. Click on the calendar to select the desired schedule

Set calendar

Set the commonly used calendar in the **Report** menu as follows.

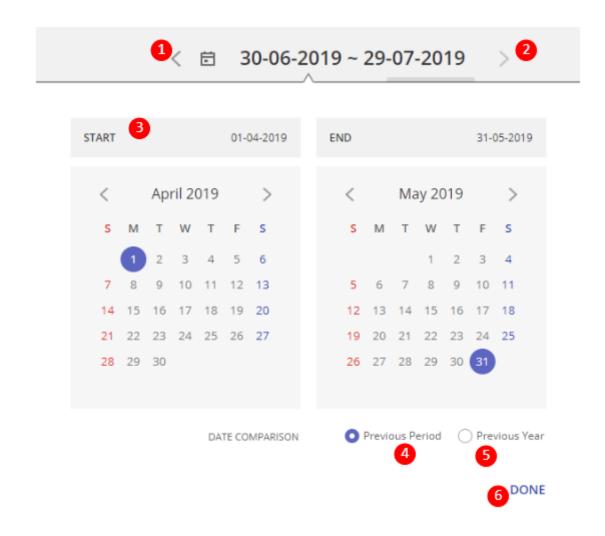


Figure 4-1 Period Setting Screen

No.	Item	Description
1	< Set to previous period	• Set by moving to the previous period in the set period.
2	> Set to later period	• Set by moving to a later period in a set period.

No.	Item	Description
3	Period setting area	• The date range you set on the report screen is displayed (start date, end date).
4	Previous Period	• Select if you want to compare reports by date range
5	Previous Year	• Select if you want to compare reports by year
6	Done	• When you click on the button, the set period is applied to the report.

Table 4-1 Period Setting Screen Items

Visitors by Period

- 1. **People Count**: Shows the number of visitors.
- 2. Visitors by Period: Shows the number of visitors by the specified period.

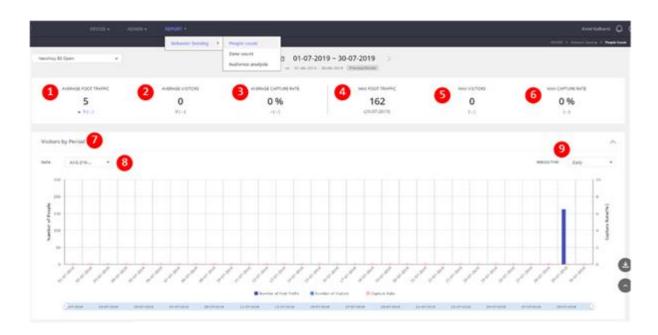


Figure 4-2 People Count Report Screen

No.	ltem	Description
1	Average Foot Traffic	Average Foot Traffic around stores
2	Average Visitors	Average store visitors
3	Average Capture Rate	Average store visit rate
4	Max Foot Traffic	Maximum Foot Traffic around stores
5	Max Visitors	Maximum number of visitors
6	Max Capture Rate	Maximum store visit rate
7	Visitors by Period	Visitors by Period
8	Data	Classification of query set in Report Option
9	Period Type	Select Period Type (Hourly, Daily, Weekly, Monthly, Day of Week)

Table 4-2 People Count Report Items

Visitors by Floor/Gate Views

Note:

1. Visitors by Floor/Gate: Shows the number of visitors by Floor or Gate.

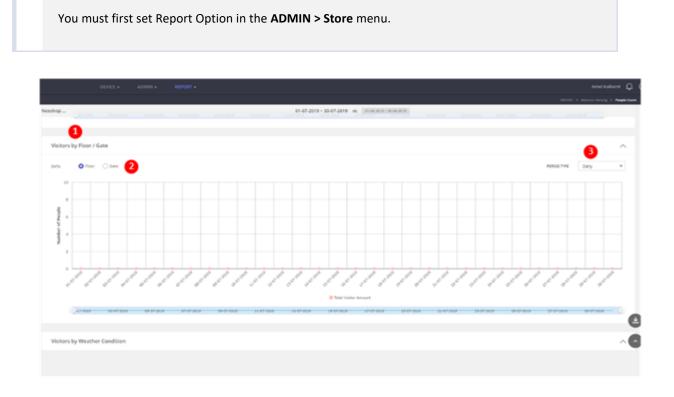


Figure 4-3 Visitors by Floor/Gate Search Screen

No.	Item	Description
1	Visitors by Floor/Gate	Visitors by Floor and Gate
2	DATA	Select data type (Floor / Gate)
3	Period Type	Select Hourly, Daily, Weekly, Monthly, Day of Week

Table 4-3 Visitors by Floor/Gate search Item

Visitors by Weather Condition Search

1. Visitors by Weather Condition : Shows the number of visitors according to weather conditions.

	01-07-2019 - 30-07-2019	A REPAIR AND A LOUGH DOLLAR	
tors by Weather Condition			
либилай залику 0 7 скуса	AndEwald CLOUDY - 3 No Data	AufBadd Maner	AvtitAbilit Suchery
fantor Rank (SURINY)	Left	Dev OF VETX	conou
1	unvalid dute	TVE	1010
1	invalid date	5×7	
	invalid date	5/1	
	invalid date	MON	
	invalid date	WED	
6	invalid date	140	
7	invalid date	PR:	

Figure 4-4 Visitors by Weather Condition Screen

No.	Item	Description
1	Visitors by Weather Condition	Visitors based on weather conditions
2	Average Sunny	Average number of visitors when sunny
3	Average Cloudy	Average number of visitors when Cloudy
4	Average Rainy	Average number of visitors when Rainy
5	Average Snowy	Average number of visitors when Snowy

Table 4-4 Visitors by Weather Condition Lookup Items

4.2 Zone Count Report

To view the Zone Count report, follow these steps:

- 1. Click REPORT> Behavior Sensing> Zone Count.
- 2. Click on the calendar to select the desired schedule

Set calendar

Set the commonly used calendar in the **Report** menu as follows.

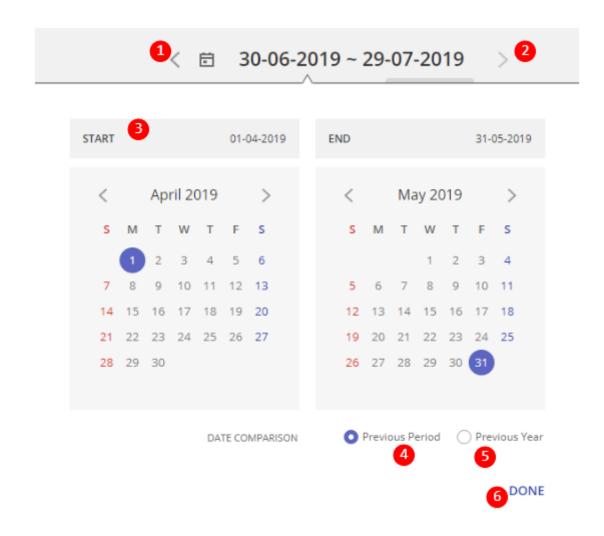


Figure 4-5 Period Setting Screen

No.	Item	Description
1	< Set to previous period	• Set by moving to the previous period in the set period.
2	> Set to later period	• Set by moving to a later period in a set period.

No.	Item	Description
3	Period setting area	• The date range you set on the report screen is displayed (start date, end date).
4	Previous Period	• Select if you want to compare reports by date range
5	Previous Year	• Select if you want to compare reports by year
6	Done	• When you click on the button, the set period is applied to the report.

Table 4-5 Period Setting Screen Items

Visitors by Zone

- 1. **Number of Visitor, Dwell Time**: Shows the number of customers who visited your store and how long they have stayed.
- 2. Visitors by Zone: Shows the number of visitors by zone.

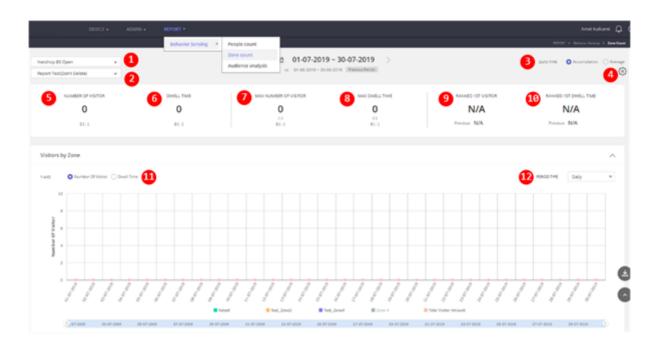


Figure 4-6 Zone Count Report Screen

No.	Item	Description
1	Store	Choose the store you want to see
2	Floor	Select floor you want to check
3	Data Type	Select Accumulation and Average
4	Legend settings	Legend selection (Watcher selection based on visitor count and gender age)
5	Number of Visitor	Number of Visitor
6	Dwell Time	Store dwell time
7	Max Number of Visitor	Max Number of Visitor
8	Max Dwell Time	Max Dwell Time
9	Ranked 1st Visitor	Zone with the most visitors
10	Ranked 1st Dwell Time	Zone with the longest average dwell time
11	Y 축	Y-axis selection (number of visitors, dwell time)
12	Period Type	Select Hourly, Daily, Weekly, Monthly, Day of Week

Table 4-6 Zone Count Report Items

Heat Map

Map congestion distribution by area to store drawings to show the store's congestion status.

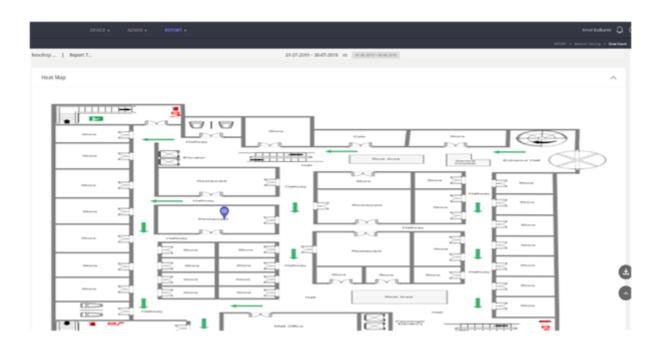


Figure 4-7 Heat Map Search Screen

Zone Count Map

Shows the number of visitors and dwell time by area on the building drawing. Hover over the area to see the number of visitors and the time spent.



Figure 4-8 Zone Count Map Search Screen

Zone Ranking

Shows the number of visitors and their rankings by time of stay.

		05.47-2019 - 3			And Kilord
		E 0-0 E 0-0	* *** * ***		
ne Ranking					^
rav 🗴 Valar 🔾 Duel Tire 🧧	9				
	-				10
a a constant of visite a constant of the second sec					a a a filmed from (
r Of Villae		The Jacob	bid_larest	Date 4	
Auchine of Violation			Bed_Error	Zere 4	

Figure 4-9 Zone Ranking Search Screen

No.	Item	Description
1	SORT BY	Appears when you select Sort (by visitor, by time of
		stay).

Table 4-7 Zone Ranking Items