

August 21, 2017

# IT Infrastructure Setup

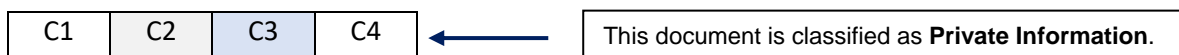
F100327-03



## Revision History

Revision Number	Description of Revision	Date of Revision
1	Initial Draft	November, 14 2016
2	Revision	August, 01 2017
3	Initial Release	September, 06 2017

## Information Classification

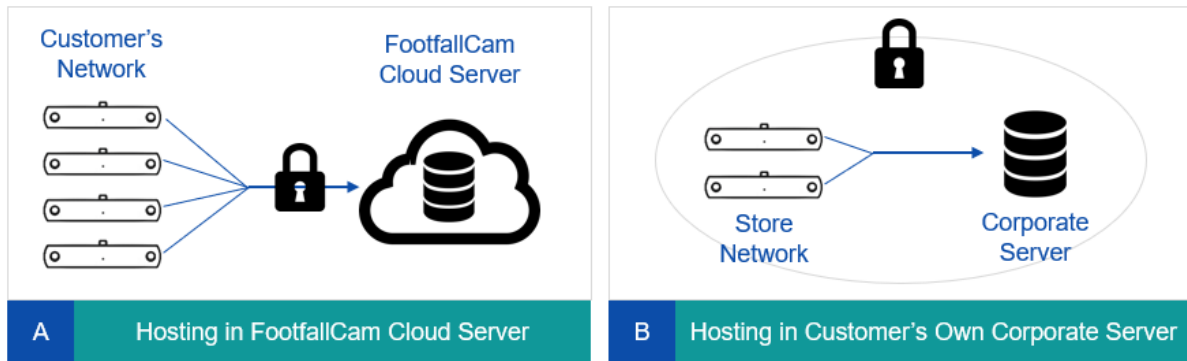


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## Server Setup



All users will have two options to retrieve their data from the FootfallCam counter. The methodology of data procession and storage are the same, the only difference between the cloud server and corporate server storage of data is the location. The data procession of the movement of counting data into the Analytic Manager is simplified. General concerns to note over the procession and handling standards of raw data is as follow:

- 1) Every hour, all counting data will be uploaded from the counter into the data server. The raw data will move through the PoE switch and the router before being uploaded into the server.
- 2) All data will be stored permanently in the server, in order to provide meaningful insight through forecasting the following data and trend analysis.
- 3) A store that have lost network connectivity will have its raw data stored in the storage of the counter. The data will be uploaded in bulk once internet connectivity is restored.

Users that are concern about the security of the data handling procession may choose to install the Analytic Manager in their corporate server. The software installed in the server will receive all new software upgrades. Users that have installed the Analytic Manager in their own corporate server will have complete control over the security infrastructure of their data.

### Required Network Configurations for FootfallCam Cloud Service

FootfallCam counters communicate with 2 software servers via the 2 ports specified in the table below. The two ports must be open to enable the counter to connect to the FootfallCam central database.

Network Configurations				
Address	Port	Protocol	Traffic	Purpose
<a href="http://91.109.10.77">http://91.109.10.77</a>	80 (HTTP)	TCP	Outbound	To enable upload of data from counter to FootfallCam Software Server
<a href="http://91.109.10.77">http://91.109.10.77</a>	443 (HTTPS)	TCP	Outbound	To enable upload of data from counter to FootfallCam Software Server
<a href="http://54.85.80.97">http://54.85.80.97</a>	80 (HTTP)	TCP	Outbound	To enable upload of data from counter to FootfallCam backup and recovery server
<a href="http://54.85.80.97">http://54.85.80.97</a>	443 (HTTPS)	TCP	Outbound	To enable upload of data from counter to FootfallCam backup and recovery server

### Minimum Bandwidth Usage

Data	Bandwidth	Frequency
Counting Data (JSON)	Approximately 6 KB per counter	Every hour
Wi-Fi Data (JSON)	Approximately 5 KB per counter	Every hour
Client Data (JSON)	Approximately 50 KB per 350 detected clients	Daily
Counting Videos	Approximately 8 MB per video	Three videos per day until Accuracy Audit is completed

The table above highlights the minimum bandwidth usage in different frequency of data transference from the FootfallCam counter into the database. The usage of bandwidth requirement is approximately the same and there is virtually no difference in bandwidth usage between the Analytic Manager hosted on the cloud server of FootfallCam, or the user's own corporate server.

## Minimum Requirement for Server Installation

Users that are concern about the security of the data handling procession may choose to install the Analytic Manager in their corporate server. The software installed in the server will receive all new software upgrades. Users that have installed the Analytic Manager in their own corporate server will have complete control over the security infrastructure of their data.

Specifications	Requirements
Operating System	Windows Server 2008 R2 and above
Storage	500GB to 1TB (For up to 2000 Counters)
Memory	16GB
Database	MS SQL Server 2016 and above
Web Server	Internet Information Services (IIS)7.0 and above
Microsoft. NET	4.0
CPU Processor	3.1 GHz (64-bit Processor) with Multi-Core
Recommended Drive	(C:) Drive

# Server Installation Form



For all users interested in performing a server installation in their server, please fill in the form below. All mandatory fields are denoted with an (\*) asterisk.

Contact details		
User's information* (Contact details of the end user of the server)	Company name*	
	E-mail address*	
Partner's information <b>Optional field</b> (Only applicable if the end user is associated to a reseller)	Company name	
	E-mail address	

Users must ensure that their designated server to host the FootfallCam Analytic Manager meets the minimum server requirement prior to the confirmation of an installation. Users may review the minimum server requirements through the [FootfallCam IT Infrastructure documentation](#).

Server details		
Operating system*	Windows server edition	
	Drive to install in	(If this field is left empty, FootfallCam will install in the drive with minimum required storage space)
Storage*	Available storage	
Microsoft SQL server*	Is a database installed?	<input type="checkbox"/> Yes <sup>1</sup> <input type="checkbox"/> No <sup>2</sup>
	<sup>1</sup> If a database is installed –	<input type="checkbox"/> Enterprise edition <input type="checkbox"/> Express edition
	<sup>2</sup> If a database is not installed – Please select one option for FootfallCam to install	<input type="checkbox"/> Enterprise edition <input type="checkbox"/> Express edition <b>Please provide the license key</b> Key: _____
	Credentials <b>Optional field</b>	

Once the user has confirmed their server requirements, they will be required to define their connection from FootfallCam counters to their network for reporting options. **Please select one of the options below.**

Network details		
Open network	IP address	
Close network	IP address	

FootfallCam personnel will require access into the server intended for installation of the FootfallCam Analytic Manager. **Please select one method of remote access and provide the remote access details required.**

Remote access details		
TeamViewer 11 <b>Only v.11 is supported</b> (Please download the software <a href="#">here</a> )	TeamViewer ID	
	Password	
Remote Desktop Connection	Host address	
	Username	
	Password	
	VPN connection <b>Optional field</b>	
Anydesk	Address	
	Password	
Other remote access	Please provide step by step guidelines for access	