

Configuring a Irisys Gazelle for Xenometric Collection

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1 Introduction

Irisys was founded in the UK in 1996. They have a range of indoor and outdoor cameras. More detail can be found on their website <https://www.irisys.net>. Xenometric can collect count data from all Irisys cameras using their Data Push and Pull mechanisms. This document deals with Irisys' Gazelle range (and earlier). We have a separate document that describes how to use Irisys' Vector 4D cameras.



The document doesn't cover the configuration of the sensor for accurate people counting. It covers how to configure the Irisys camera's settings to identify the count lines, site details, localisation (time zone) and how the camera will communicate with the Xenometric software on a private or public network. This includes Xenometric installations on private servers and the Xenometric Cloud.

Irisys cameras can be linked together to form a single view of a wide entrance. The configuration necessary for Xenometric needs only be applied to the master counter. Xenometric's software sees the wide entrance of n sensors as a single counting device.

Each Irisys camera can monitor multiple lines. Count lines are used to count pedestrians in two directions (In and Out) from one zone to another. A simple sensor would have one line that form the boundary between two zones, e.g., from the outside world zone to an internal zone within a retailer's property.

To configure to an Irisys camera you can use a web browser to connect with the sensor's IP address or URL, or you can use Irisys' PCST/RIFT software.

Xenometric collects data from many sources and aggregates this data in our SQL Server database. We then offer web reporting from your server or on our cloud. Email reports and direct data access is also available.



2 Irisys Counting Configuration

Xenometric will assign 3 codes that must be applied to the camera before it can send its data to our cloud server. These are the Site ID, Device ID and Locale.

The Site ID will be a string with no spaces and all letters will be in uppercase, e.g. MYCOMPANY0001

The Device ID will be a string with no spaces and all letters will be in uppercase. For a system with only one camera, the Device ID will be AAAAAA

The Locale will be assigned based on your timezone.

You will also need to apply the timezone for your camera and choose whether to adjust for daylight saving.

Please set the Count Log Interval to 900 seconds.

You can choose what descriptions to apply to the Site Name and Device Name.

In Irisys' RIFT software the configuration looks like this.

The image displays two screenshots of the RIFT software configuration interface. The left screenshot shows the 'Device' configuration page. At the top, there is a 'Device:' label and a red warning banner that reads 'There is currently a device issue.' Below this, there are tabs for 'SUMMARY', 'SETTINGS', and 'DIAGNOSTICS'. The 'SETTINGS' tab is active, showing a form with the following fields: 'Device ID *' with the value 'DEVICEID', 'Device Name *' with the value 'Device Name', 'User String *' with the value '-', 'Site ID *' with the value 'SITEID', 'Site Name *' with the value 'Site Name', and 'Localisation' with a 'Locale *' field. A green 'SAVE' button is at the bottom. The right screenshot shows the 'Count Logging' configuration page. It also has a red warning banner 'There is currently a device issue.' and tabs for 'SUMMARY', 'SETTINGS', 'DIAGNOSTICS', 'COUNTS', and 'RECORDING'. The 'COUNT LOGGING' tab is active, showing a 'Count Logging' section with a 'Count Log Period (seconds) *' field set to '900'. A tooltip for 'Count Logging' explains: 'The count log period determines the devices flash memory'.

In the Silverlight application, which can run inside Internet Explorer, the configuration screen will look like this.

The screenshot shows a configuration window titled "Installation Settings" with a close button (X) in the top right corner. On the left, there is a sidebar with a "Installation" icon and a "I/O" icon. The main area contains a list of settings, each with a text input field and a checkmark icon:

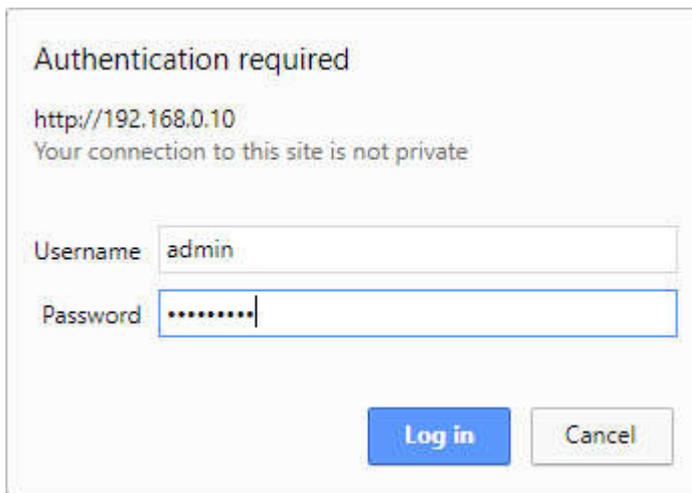
Setting	Value	Checkmark
Device ID	DEVICEID	✓
Device Name	Device Name	✓
User String	-	✓
Site ID	SITEID	✓
Site Name	Site Name	✓
Date/Time	01/01/2000 00:17:59	
Locale	LOCALE	✓
Time Zone	(GMT +04:00:00) Arabian St: ▾ <input checked="" type="checkbox"/> Automatically adjust for DST	
Log Interval (secs)	900	✓

At the bottom right of the main area is a "Save" button. To the right, the "Settings" panel contains a close button (X), a note: "These settings typically apply only to the master unit on the network", a "Sync Date/Time" section with a "Synchronise" button, and a "MAC Address" section with the value "00-21-AC-".

3 Configuring an Irisys Counter for Delivery to Xenometric's Cloud Server

The following steps should be performed in order to configure an Irisys counter to talk to Xenometric's Cloud Server.

1. Use a web browser to connect to the Irisys counter. You may need to provide a username and password to connect. The default is admin/installer.



Authentication required

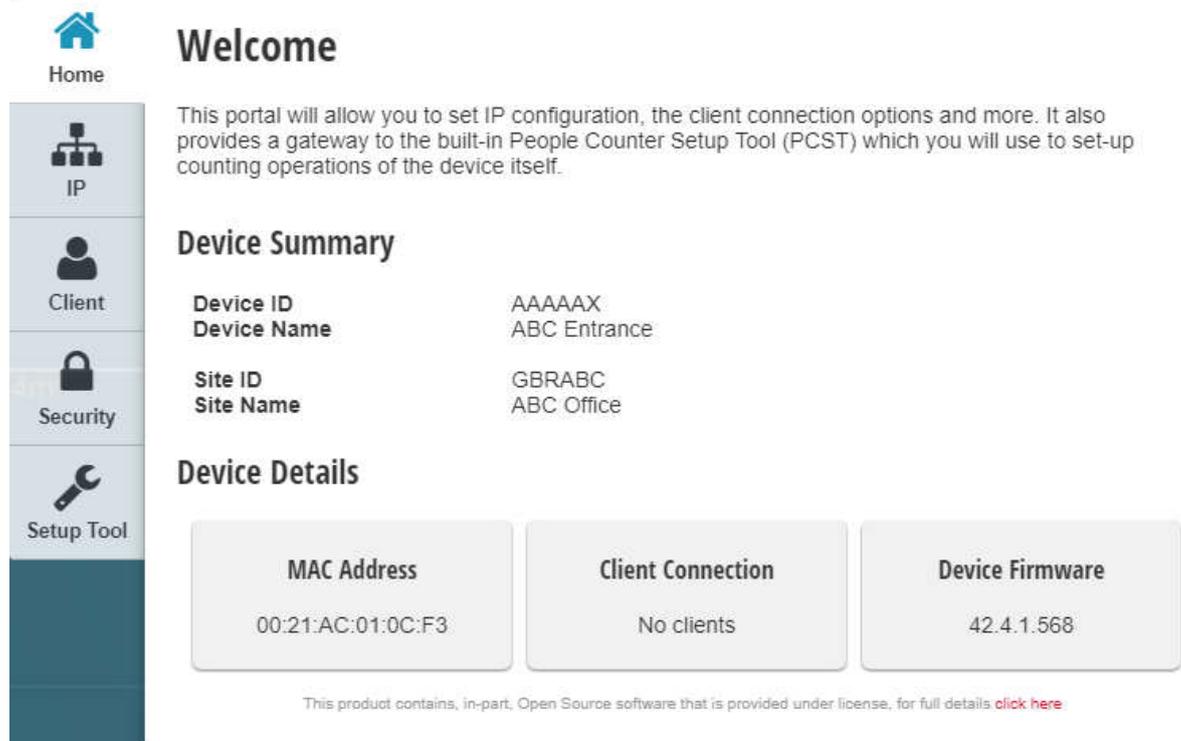
http://192.168.0.10
Your connection to this site is not private

Username: admin

Password:

Log in Cancel

You will then be presented with a screen similar to this



Home

Welcome

This portal will allow you to set IP configuration, the client connection options and more. It also provides a gateway to the built-in People Counter Setup Tool (PCST) which you will use to set-up counting operations of the device itself.

Device Summary

Device ID	AAAAAX
Device Name	ABC Entrance
Site ID	GBRABC
Site Name	ABC Office

Device Details

MAC Address	Client Connection	Device Firmware
00:21:AC:01:0C:F3	No clients	42.4.1.568

This product contains, in-part, Open Source software that is provided under license, for full details [click here](#).

Or an older screen like this.

The screenshot shows a web browser window with the address bar displaying '192.168.0.201'. The page title is 'Irisys :: Device Configurati'. The main header features the Irisys logo (a red circle with white dots) and the text 'Irisys Red Hot Intelligence' on the left, and 'Device Configuration Portal' on the right. A left-hand navigation menu is visible, with 'Client Configuration' highlighted in red and circled in green. The main content area is divided into two sections: 'Welcome!' and 'System Details'. The 'Welcome!' section contains a paragraph of text and a link labeled 'here'. The 'System Details' section lists four pieces of information: MAC address (00:21:AC:00:21:3A), connection status (Not connected (10M FA)), IP firmware version (4.0.2.30311), and a note about the Silverlight 4.0 setup tool with a link labeled 'here'. The footer of the page reads 'Infrared Integrated Systems Ltd © 2009'.

Navigation

- Home
- IP Configuration
- Client Configuration**
- Connections
- Password
- Setup Tool

Welcome!

Welcome to the Device Configuration Portal for the Irisys IRC3000 series People Counters. This IP portal will allow you to set the IP configuration details, the client connection options and more. It also provides a gateway to the built-in People Counter Setup Tool which you will use to set-up the counting operations of the device itself.

Use the navigation on the left hand side or click [here](#) to jump straight to the setup tool

System Details

The current MAC address of the device is: **00:21:AC:00:21:3A**

The current connection to the device is: **Not connected (10M FA)**

The current version number of the IP firmware is: **4.0.2.30311**

The setup tool is powered by Microsoft Silverlight 4.0. Click [here](#) to go to Microsoft's site and download the latest Silverlight plugin

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2. On the newer version, click on the 'Client' tab on the left. On the older version, click on the 'Client Configuration' link on the left.

The screenshot displays the 'Client Configuration' page. On the left is a navigation sidebar with icons for Home, IP, Client, Security, and Setup Tool. The main content area is titled 'Client Configuration' and includes a descriptive paragraph: 'The Client configuration settings allow the device to connect 'outwards' at regular intervals to a specified IP address/hostname, which can be appropriate when behind a firewall etc. Reconnection interval specifies how long after each connection attempt another attempt is made in seconds. Set as appropriate and click 'Save' to set the values.' Below this are three tabs: 'Client 1 Settings', 'Client 2 Settings', and 'Client 3 Settings'. The 'Client 1 Settings' tab is active and has a checked checkbox. The settings for Client 1 are: 'Connect Via' (dropdown menu set to 'Hostname'), 'Hostname' (text input 'www.xenometric.c' with a checkmark), 'Port' (text input '5000'), and 'Reconnection Interval' (text input '60' followed by 'secs'). A 'Save' button is located at the bottom. On the right side, there are two sections: 'Proxy' with a paragraph explaining proxy settings, and 'Device Connections' with a paragraph explaining direct connections and a 'No Connections' status bar below it.

Make sure the checkbox is ticked for Client 1 Settings.

Set the Connect Via dropdown to www.xenometric.com

The Port should be 5000

The Reconnection Interval can remain at 60 seconds.

Press the Save button.

Similar settings should be applied to the old version.

Navigation

- Home
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Client Connection Configuration

The Client configuration settings allow the device to connect 'outwards' at regular intervals to a specified IP address/hostname, which can be appropriate when behind a firewall etc. Reconnection timeout specifies how long after each connection attempt another attempt is made (effectively the interval) in seconds. Set as appropriate and click 'apply' to set the values.

Enable Client Connection

Use IP Address
 Use Hostname

Client IP Address:

Client Hostname:

Client Port:

Client Reconnection Interval (sec):

4 Troubleshooting

- Ensure that there is an Internet connection. Can you browse www.xenometric.com in a browser?
- Make sure that there is not a firewall set to block outbound communication (this would be unusual). The firewall needs to allow traffic out on port 5000.
- Make sure that the configuration in the counter is correct. The Site ID and Device ID strings must match one of Xenometric's formats. The locale, timezone and count log interval must be correct.