

*FINGERTEC*



ingress

Advanced Access Control System

User Guide

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**TIMETEC COMPUTING SDN BHD**

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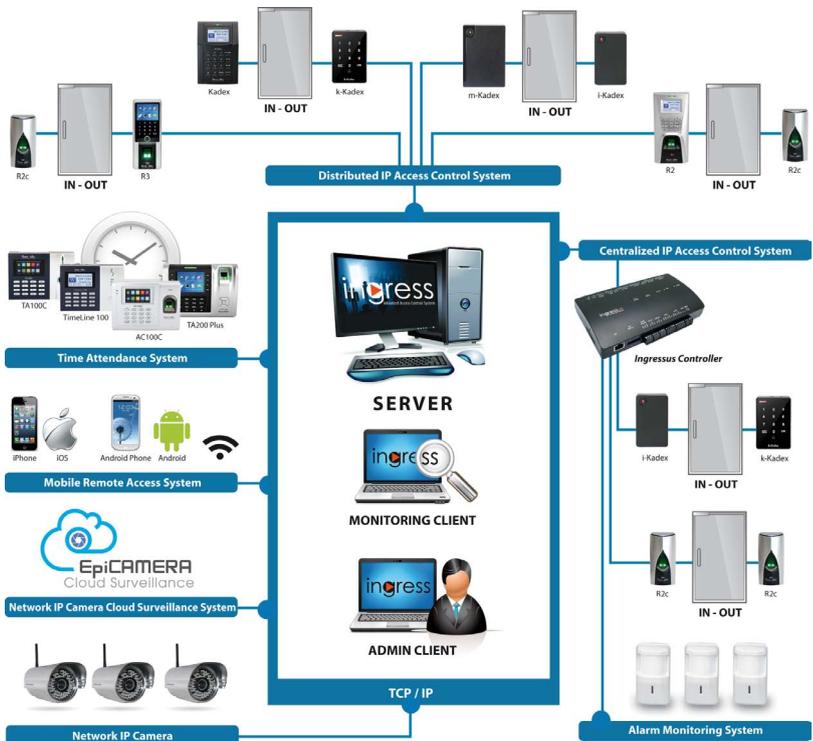
- Milestone server
- EpiCamera

# Experience Advanced Access Control System

## Welcome to Ingress

Ingress is an advanced access control software developed and designed specifically as a complete solution to centralize, manage, and monitor FingerTec access control devices directly, or by connecting them to the Ingressus access controller hardware. Along with Ingress, you will experience the extensive and elaborate features for configuring access of a door, as well as the ability to centralize and monitor access activity of an environment in a real-time manner.

Ideally suited for self-managed organizations of below 100-door environment, Ingress is also capable of seamlessly integrating its access control functions with alarm monitoring and other intrusion detection devices. Ingress supports all standalone FingerTec access control models that use card, fingerprint and face recognition verification, and multiple devices can be centralized in the Ingressus Network Control Panel for multiple-door monitoring.



# 10 Useful Features of Ingress

## Efficient Centralized Management

Ingress is a server-client based software that supports surveillance from multiple PCs concurrently, while containing useful access monitoring features such as multi-level users, and user group privileges.

## Secure Architecture

The architecture of Ingress keeps data secure and accessible, while providing you with activity logs, audit trails, and advanced device-searching features in a LAN environment.

## User-Friendly & Flexible

User-friendliness is emphasized in Ingress with features such as the Quick-Setup Wizard, drag-and-drop methods, and shortcut icons with ribbon menus to make interaction with the software effortless.

## Enhanced Software Security Features

Ingress provides an optional fingerprint login for system administrators. There is a screen-lock function as well as an automatic logout after timeout. The detailed history records and audit trail functions for tracking past configuration changes. There is also a full backup and restoral of system data.

## Access Control Readily Available Reports

There are 13 types of listing & event reports available. The report supports digital watermark imprint, comprehensive event filtering, quick-print and email action. The reports can be exported into 10 formats for example: .XLS, .TXT, .CSV.

## Useful Event Priority & Alerts

You can organize alarm alerts and set alarm priorities to optimize response time into Ingress. There are 62 event types that can be assigned according to the necessity of the priority. Ingress will automatically send email notifications to assigned recipients when an event is detected in the system. You may also customize the sound alert for every priority.

## Powerful Access Control Settings

Get most Access Control features from Ingress such as Interlocking, fire alarm linkage, Anti-passback, multiple verification settings and multi-card operation.

## Integrated Monitoring

Ingress provides a real-time alarm or event logs to ensure all events are completely documented (including messages and controls) for the entire system. Doors can be controlled remotely, including unlocking doors and disarming alarms.

## Pictorial Map for Instant Activity Visibility

Ingress can display up to a maximum of 9 floor maps for real-time monitoring. The Graphic map is displayed with animated icons for instant visibility of activity. Multiple work stations can be used concurrently to perform monitoring.

## Comprehensive Time Attendance Functions

The weekly schedule comes with 3 pairs of IN/OUT columns for attendance monitoring. You can set up a group or personal duty roster and assign it to the users. Ingress also supports leave and holiday management. At the Attendance Sheet, you can instantly add, edit, or delete attendance records. At the report section, there are 6 types of commonly used time attendance reports, for example: Daily Attendance Listing, Tardiness Report, and On-Leave Listing.

# Installation and Configuration

This chapter guides you on the installation and basic setup of the Ingress.

Before you start using Ingress, you will need to install the software successfully into your computer. Installing the Ingress software is hassle-free as the Ingress installer contains an installation wizard, to guide you step-by-step in setting up the software completely.

## GETTING STARTED - Ingress Installation

### System Requirements

Before installing Ingress, please make sure your client and server PCs are up to date with the following requirements:

Feature	Server	Feature	Client
Operating system	<ul style="list-style-type: none"> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> <li>Windows Server 2003/2008/2012/2016</li> <li>(32 or 64 bits)</li> </ul>	Operating system	<ul style="list-style-type: none"> <li>Windows 7</li> <li>Windows 8</li> <li>Windows 10</li> <li>Windows Server 2003/2008/2012/2016</li> <li>(32 or 64 bits)</li> </ul>
Processor	Intel® Core® 2 Duo 2.5 GHz or better	Processor	Intel® Core® 2 Duo 2.0 GHz or better
Memory	3 GB of RAM or better	Memory	2 GB of RAM of better
Hard drive	80 GB	Hard drive	50 GB
Resolution	1024 x 768 or higher	Resolution	1366 x 768

### Installing the System

For Ingress to function properly, you will need to install these components first:

- MySQL Server
- Microsoft .NET Framework 4.0 Full
- FingerTec Ingress Software
- OFIS Scanner Driver

### STARTING THE INGRESS INSTALLATION

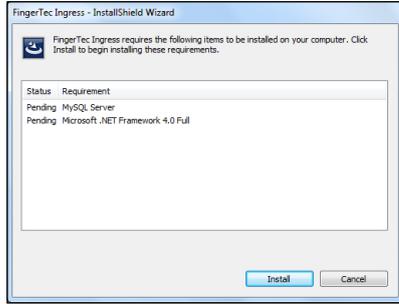
Right click the FingerTec Ingress setup file and select [Run as administrator](#).



This will prompt the installer to start the Ingress Server – Install Shield Wizard. The Install Shield Wizard will show the required components' installation status. There are 3 components to be installed before we can proceed with Ingress installation.

- MySQL Server
- Microsoft .NET Framework 4.0

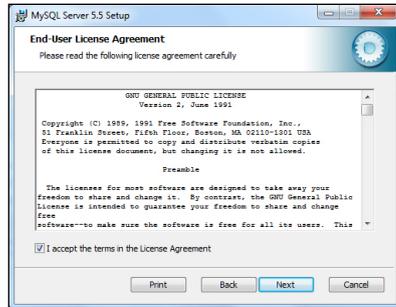
Click **Install** to initiate the installation.



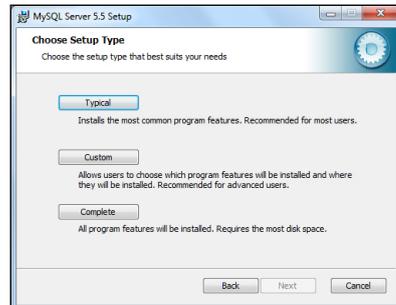
## INSTALLING MYSQL SERVER

The first component to be installed is the MySQL Server.

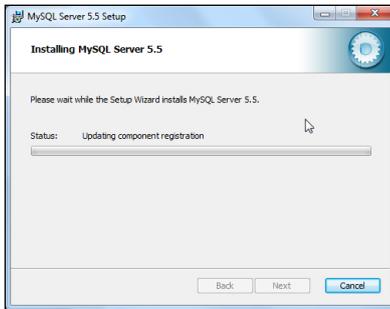
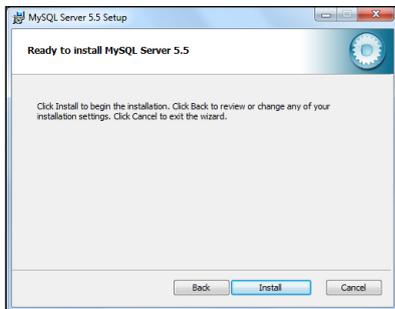
At the welcome page, click **Next** to proceed. At the End-User License Agreement window, select **I accept the terms in the License Agreement** and click **Next** to proceed.



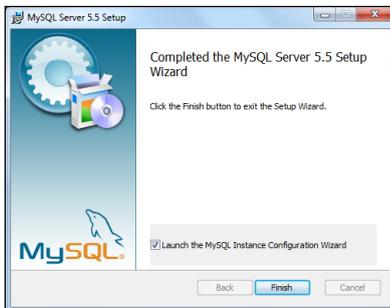
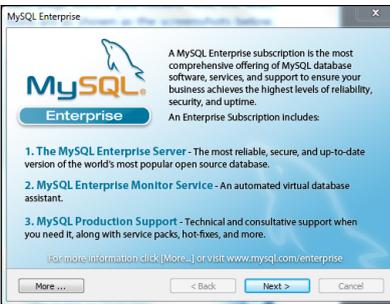
At the **Choose Setup Type** window, choose **Typical** to proceed.



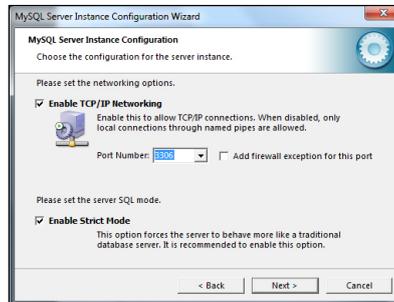
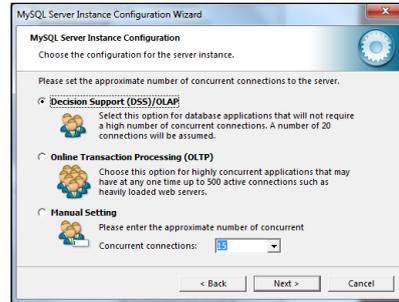
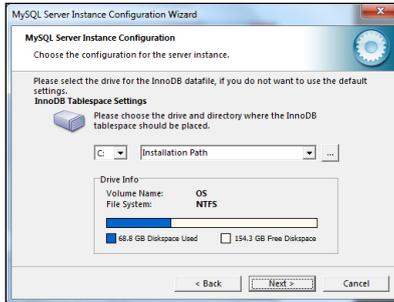
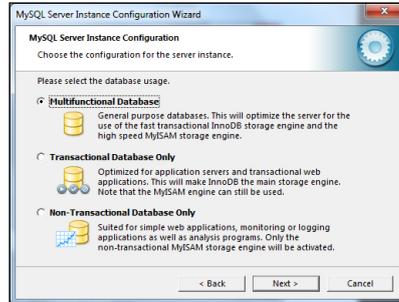
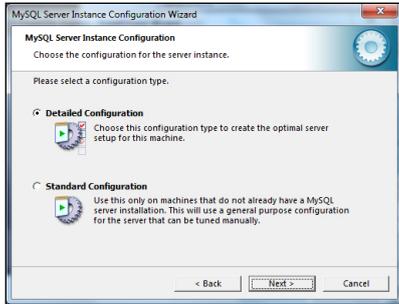
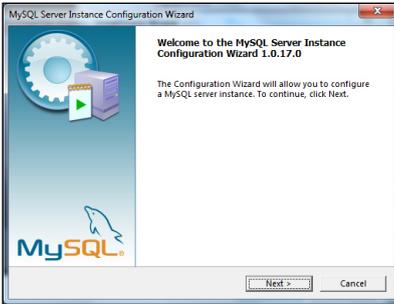
At the **Ready to install MySQL Server 5.5** window, click **Install** to immediately start the installation. When the progress bar completes, you will be prompted with **MySQL Enterprise** window.



At the **MySQL Enterprise** window, click **Next > Next** and **Finish** to launch the **MySQL Instance Server Configuration Wizard**.

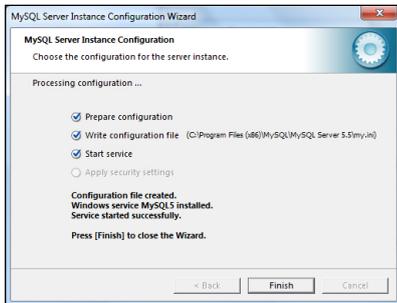
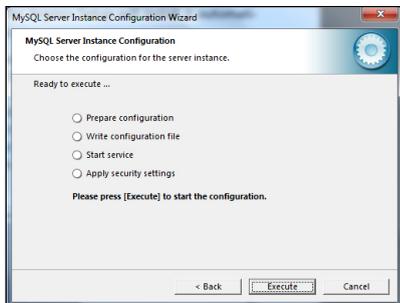


Once the installation of **MySQL Server** completes, the program will launch the **MySQL Server Instance Configuration Wizard**. You need to click **Next** 9 times until you reach the **security options** window. Make sure that on each page before you clicked next, the selections are as shown as the screenshots below.





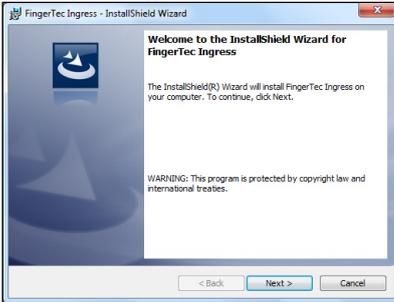
At the [Modify Security Settings](#), enter your new [Root Password](#) and enter it once again for reconfirmation. Click [Next >](#) [Execute](#) to start the configuration. Once done, click [Finish](#).



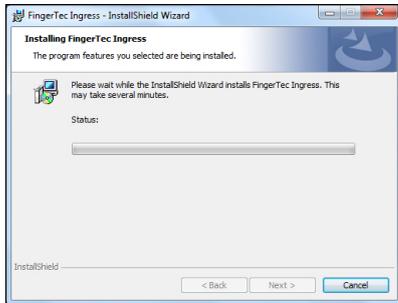
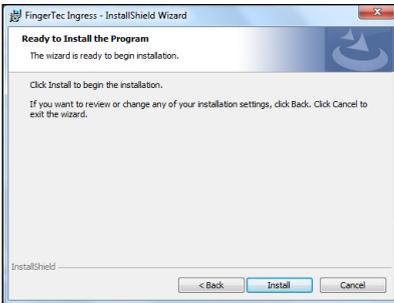
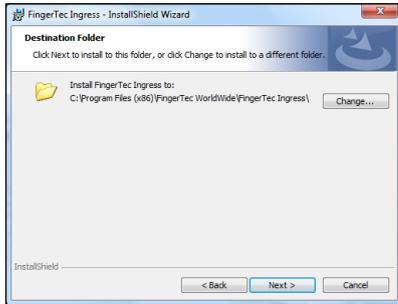
## INSTALLING MICROSOFT .NET FRAMEWORK 4.0

The next component that the installer needs to install is the Microsoft .NET Framework 4.0. The FingerTec Ingress Setup will detect and determine if the computer has already been installed with the Microsoft .NET Framework 4.0. It will skip the installation if it has been installed. If it has not been installed, the FingerTec Ingress Setup will install it automatically.

Upon completing the installation of the MySQL Server and Microsoft .NET Framework 4.0, the next component to be installed is the Ingress Server. Click [Next](#), select [I accept the terms in the license agreement](#) and click [Next](#) to proceed. Choose the installation path and click [Next](#).



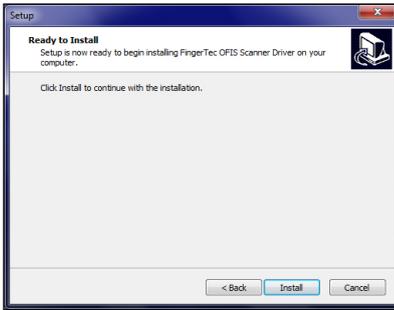
Select **Complete** and click **Next**. Click **Install** to start the Installation and click **Finish** when the process is complete.



## INSTALLING OFIS SCANNER DRIVER

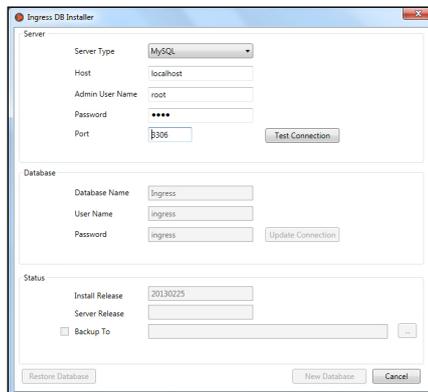
The last component to install is the OFIS Scanner Driver. The Ingress Setup will detect and determine if the computer has already been installed with the OFIS Scanner Driver and skip the installation if has. If it has not, the Ingress Setup will install it automatically.

Click **Next** and click **Install** to start the installation. Upon completing the installation, you will need to restart the computer for the changes to take effect. Please select **No, I will restart the computer later** and click **Finish** to proceed to the next step.

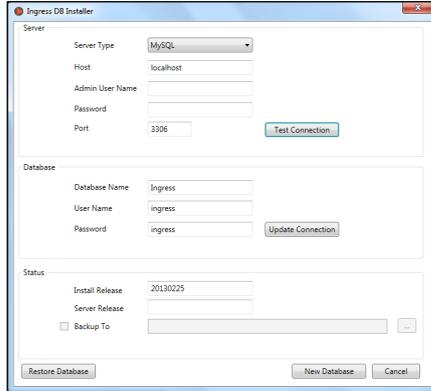


## COMPLETING INGRESS DB INSTALLER

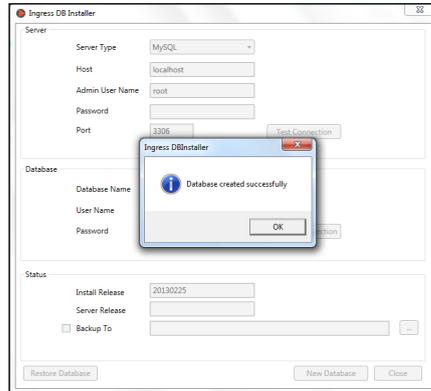
The Ingress Setup will then prompt the *Ingress DB installer window*. *It is very important to test the server and database connection before you start using Ingress*. If you do not perform this step, you will not be able to log into Ingress. Insert the **Password** and click **Test Connection**.



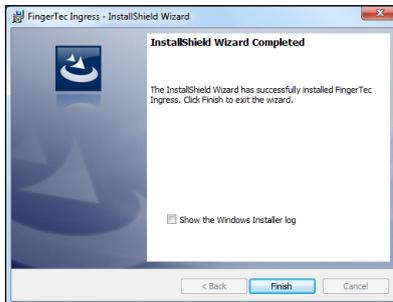
Once the server connection is established, it will open up the option for Database. Insert the **User Name** and **Password** for the Database and click **Update Connection**.



After the Database connection is established, click **New Database** to create a new database.

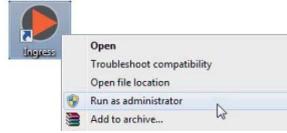


Click **Finish** to complete the installation.



## Ingress Startup

Once the installation has completed, the Ingress icon will be available at the desktop. Right click the icon and select [Run as administrator](#).



The Ingress client will validate the database connection from the server. Once the validation has been obtained, insert the Server IP Address and Server Port to establish connection. Click [Test](#) to test the connection. When the connection has been established successfully, click [Save](#) to save the Server IP Address and Server Port into the computer for future references.



Now you will reach the [Ingress Login](#) Window. Insert the [User Name](#) and [Password](#) to log into Ingress. **Default User Name: admin , Password: 123.** You can change the User Name and Password under Ingress User Accounts. Click [Login](#) to log into Ingress. If you wish to reconfigure the server settings, click [Server Setting](#). You can also log into Ingress by using your fingerprint instead of the username login. You will need to enroll your fingerprint template(s) under [User Account](#) before you can login using this method.



Congratulations! Now you are about to experience INGRESS, the Advanced Access Control Software, brought to you by FingerTec Worldwide.



## Quick Setup Wizard

Ingress will start up Quick Setup Wizard during the first login session. The wizard will guide you through all basic and useful settings in Ingress software.

You can skip the wizard in order to configure Ingress software by yourself. You can always run the wizard later from the Main Menu button.

# Management of Device and Door

This chapter guides you on how to install and manage FingerTec devices into Ingress and assigning them to doors.

## Devices

Devices refer to the FingerTec physical terminals installed to guard every door/entrance. There are 3 types of physical terminals:

- Ingressus door controller
- FingerTec standalone terminal
- Keylock series (7700 and 8800)

Ingressus door controller can work with slave terminals. It is the master that will store & transfer data, control door and alarm activities. Ingressus door controller can link up to a maximum of 4 slave terminals (R2c, i-Kadex or k-Kadex). Slave terminals only work as capturing station for fingerprints, cards or password. The captured data is sent to Ingressus for verification before Ingressus can grant access to users. Ingressus can work with AUX input (e.g.: heat and smoke sensor, PIR motion detector) and output (e.g.: alarm siren, strobe light, IP camera).

FingerTec standalone terminals refer to all FingerTec terminals, for example R2, AC900, Q2i, Face ID series. The terminals have individual processors and memory, to verify and store users' data. Standalone terminals can be paired with slave terminals as an entry-exit system. Slave terminals capture fingerprints, card or password data then sends them to master for verification.

Keylock series refer to FingerTec biometric mechanical door lock. The Keylock series has integrated processor and memory, to verify/store users' data. However, it does not communicate with Ingress directly as it only has a USB port for data transfer.

## Add Device Manually

You must add each device into the list in Ingress before you can manage any of it. Adding devices to Ingress requires the device to connect to Ingress via network (TCP/IP or RS 485). However, standalone terminals and the Keylock series supports USB flash disk for transferring data and settings with Ingress.

Every device has a unique serial number, which is important for activation in Ingress. Contact your local resellers or [support@fingertec.com](mailto:support@fingertec.com) by providing the serial number of the device in case you fail to activate online.

1. Go to **Device** tab to select **Add Device**.
2. Select **Device Type** and **Communication Mode** then insert the information accordingly.

**Device Name:** Name the device for easy future reference.

**Communication Key:** 5-digit numeric secret password to secure the connection between device and Ingress. Ingress must pair this key with device (under Dev ID) before connection establishes.

**Auto Synchronize Device Time:** Activate this to allow Ingress to always synchronize the device with the server date and time.

**Settings for TCP/IP connection:**

**IP Address/URL:** Insert the IP address of the device so Ingress can find it on the network to establish connection.

For devices installed at remote site, you can insert the URL of the remote server into this column. Ingress can link up with the device via Internet.

**Port:** Default TCP port (4370) of Ingress server to link up with device via network.

**Settings for RS485 connection**

**Serial port:** Define the serial port of the server in use to connect to the RS232/485 data converter.

**Baud rate:** Select the baud rate of RS485 network.

**Settings for USB flash disk**

**Serial number:** Serial number of device.

**Device ID:** Make sure you insert the same ID as the one set in the device. Ranges from 1 to 999.

**Settings for Keylock**

**UDisk Path:** Define the USB flash disk drive to read the basic info of Keylock

3. Check the box **Online** next to **Device Activation** to add the device into Ingress.

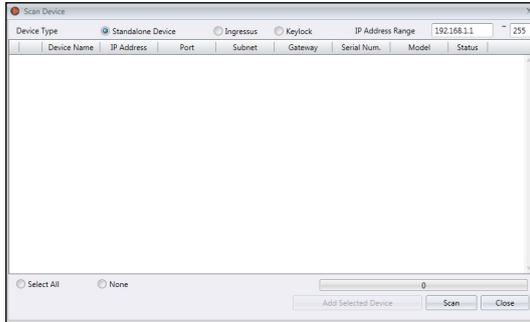
If an Internet connection is unavailable, you can activate the device by selecting **Offline**. Ingress accepts a 12-digits alphanumeric code for offline activation, but this code may only be retrieved from your local resellers or [support@fingertec.com](mailto:support@fingertec.com).

4. Click **Enable Device** to establish connection to the device.

**Note:** You must plug in a USB flash disk to Keylock 7700/8800 to download a file name "X\_udata", where X is the Device ID of the device used (e.g.: 1\_udata). The file contains the serial number of the device and other important information. Ingress can only add the Keylock 7700/8800 device into the list after it captures this file from the USB flash disk.

## Add Device by Auto Scan

In case you do not know the specific IP address of the standalone device or Ingress, you can use the Auto Scan function to look for them on the network.



1. Click [Scan Device](#).
2. Select [Device Type](#):
  - Standalone device:** Insert range of IP address.
  - Ingressus:** Ignore IP address because Ingress can discover the IP address of Ingressus automatically.
  - Keylock:** Ingress scans your USB drive which contains the "X\_udata" file.
3. Click [Scan](#) to start.
4. Device is discovered and published on the list.
5. [Select](#) the devices to add into Ingress.
6. Continue to activate the device (*refer to Chapter 2 • Add Device Manually*).

## Configuring Device

Download all settings and info from devices when connection is established. You can start to personalize the settings of each device and synchronize new settings and info to devices by uploading them. Due to the different nature of all 3 types of devices, Ingress hides some pages/options when not applicable with a device.

1. Click to select device.
2. Click [Download Device Settings](#).
3. Wait for the download process to finish.
4. Start to configure:

The screenshot shows a web-based configuration interface for a device. The main window is titled 'Devices' and contains a 'Basic Information' section with fields for Device Name, Serial Num., Firmware, and Model. Below this are several tabs: Information, Network, Biometric, Power, Access Control, Other, OP Log, and Event. The 'Information' tab is selected, showing a 'Device' section with Manufacturer and Manufactured Date fields, and a 'Record' section with four statistics: User Count, Administrator Count, Fingerprint Count, and Transaction Count. Each field is represented by a text input box with a current value and a maximum value.

**Information:** This is the page to display all information of the device. No amendments are allowed. You can know the storage status of the device at the Record section.

**Network:** You can change types of communication mode in this page, for example change from TCP/IP to RS485. You can update the TCP/IP settings (e.g.: change to new IP address) or RS485 settings (e.g.: change baud rate to 9600bps). All new settings will take effect after you upload the new settings to the device.

**Biometric:** This page is only effective when connecting to devices that support fingerprint or face recognition. Amend these settings accordingly after you click the Edit button:

**Only 1:1 verification:** Set to No by default so users can gain access immediately after verifying their finger or face. Change this to Yes if you want users to insert their ID before fingerprint/face verification.

**Fingerprint algorithm:** VX 10.0 is the latest fingerprint matching algorithm supported by the device. Only change to VX 9.0 if your environment is using the older algorithm. This option is not applicable to Ingress because it only supports VX 10.0.

**Face/Fingerprint 1:1 Threshold:** The level of matching security if you want users to insert user ID before fingerprint/face verification. For fingerprint, the range is from 0 to 50, where 50 is the highest. For face, it ranges from 0 to 99 where 99 is the highest. The default values are 15 for fingerprint and 70 for face.

**Face/Fingerprint 1:N Threshold:** The level of matching security if you allow users to verify by fingerprint/face without inserting user ID. The default values are 45 for fingerprint and 75 for face.

**Power:** You can configure the duration (in minutes) for device to wait before going into idle mode.

**Idle time (in minutes):** Time duration to wait before going into idle mode.

**Idle action:** Select either Sleep or Power Off.

**Power on time:** Check the box and insert time to turn on the device.

**Power off time:** Check the box and insert time to shut down the device.

**Access control:** You can configure the device for basic access control settings.

**Save Transaction log:** Set to Yes by default. The device saves IN-OUT records of users. In case you only want the device to control access without referring to its records, select No. The device will not keep any IN-OUT records.

**Save False Log:** Set to Yes by default. The device saves records even though users fail to verify. You can assess the level of fail verifications happening at this device and adjust the biometric settings to improve the verification process. Select No and the device will not store this record.

**Master Record State:** You must define the device as Master or Slave If two standalone devices are installed to control one door. Normally the standalone device controlling entry is set as Master, and at the exit is the Slave. Ignore if you are installing slave device with a standalone device. This is important if you are using Antipassback function. The Master device stores all entry-exit records to justify Antipassback status.

**Antipassback:** Feature that forces users to verify every time he/she comes in or leaves a zone. In case he/she is tailgating another user without verification to access a zone, the device will block his/her verification to gain access again. You can select any of the following settings to suit your environment.

**In:** Activate this to force users to verify when leaving a zone. Users can skip verification when coming into the zone.

**Out:** Activate this to force users to verify when coming into a zone. Users can skip verification when leaving the zone.

**In/Out:** Activate this to force users to verify both when coming in and leaving a zone.

**None & Save:** Select this setting so the device does not block users to access when Antipassback take effect. Device will instead only keeps track of Antipassback records with the user ID, where you can download the records into Ingress to view and analyze.

**None:** Disable Antipassback at the device.

#### Other settings:

**Power off Device:** To shutdown device remotely. All devices do not have a physical power off button to avoid unauthorized shutdown. You can only shutdown the device by clicking this button.

**Reboot Device:** To restart device remotely. If the device is working abnormally, try to restart it.

**Synchronize Date and Time:** Synchronize date and time of device immediately. It is recommended to do this during first installation.

**Download Device Settings:** Download all settings/parameters from device.

**Activate Device:** Activate device to be added into Ingress.

**Clear All Device Data:** To clear the storage of device back to initial stage. You cannot retrieve any data after this.

**Clear All Log:** To delete the transaction logs stored in device. Recommended to do this after you finish downloading logs from device.

**Clear Admin Privilege:** To clear admin lock in device. Any users can access into the Main Menu by pressing the Menu button. Only do this before you want to assign a new administrator at the device.

**Upload Device Settings:** To upload all new settings/parameters device to start to take effect.

**Operation logs:** Device records every operation done by administrators into a log file. This is a hidden file that you cannot view at the device. You must download the operation logs into Ingress to view it.

Press **Download OP Log** to download from device.

Insert the date range to narrow down your search.

**Event:** Device records abnormal activities (e.g.: door force open, alarm trigger, fail verification, etc.) as events. These records are automatically downloaded into Ingress. You can narrow your search to view by date and time.

5. Click Upload Device Settings to upload new settings to devices.

## Disable and Delete Device

Delete or remove the device from list if it is no longer in use, or wrongly added to Ingress. In case you want to suspend a device from Ingress (to stop data transfer with the device), disable it from the list.

#### To delete a device:

1. Click to select the device from list.
2. Click **Delete Device**.
3. Click **Yes** to confirm to delete the device.

### To disable a device:

1. Click to select the device from list.
2. Click **Disable Device**.
3. Click **Yes** to confirm to suspend the device.

## Doors

Adding devices into Ingress is to prepare the list of devices installed in the environment. Now you can start to pair the devices to doors accordingly. You must assign devices to guard every door. Pairing multiple devices to a specific door allows you to update the same access settings (e.g.: door unlocks time) to both entry and exit devices.

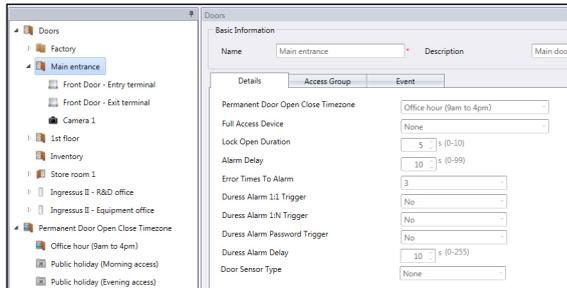
For installations with Ingressus II (2-doors door controller), you can pair devices with 2 doors. You can configure different access settings for each door even though they are connected to the same Ingressus II controller.

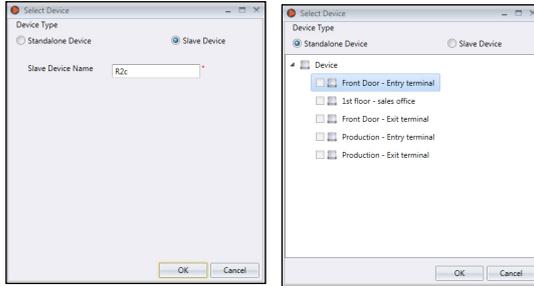
Types of device	Quantities of devices/slaves	Quantities of door
Standalone devices	2 devices	1
Ingressus I	2 slave terminals	1
Ingressus II	4 slave terminals	2
Keylock	1	1

Ingress can work with video surveillance software. You can connect to Milestone server or EpiCamera to stream video from your IP camera for live view or playback. It is recommended to pair the IP camera with the door/entrance installed with device to monitor users' movement. In case of abnormal door activities (e.g.: door force open, device dismantled illegally) Ingress will trigger alarms to alert administrators. You can playback the video at that moment to know what is going on at the door, or even export the photo or video easily for further investigation.

## Add Standalone Device to Door

1. Click **Door** at the left panel.
2. Click **Add Door**.
3. Rename the door, for example **Main entrance**.
4. Add description to the door for easy reference.

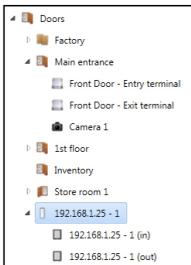




5. Click **Add Device**.
6. Select **Standalone Device**.
7. Select the device to be added to this door.
8. Repeat steps (5) to (7) to add 2nd standalone device to this door.

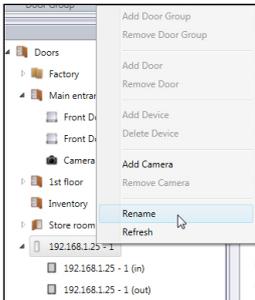
**Note:** Select *Slave Device* in the *Add Device* window if you are connecting a slave device (R2c, i-Kadex or k-Kadex) with the standalone device. Name the slave device according to its model.

## Add Ingressus to Door

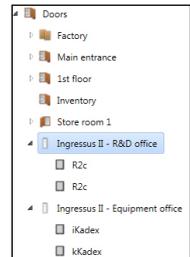


Ingressus automatically creates door(s) after you add Ingressus into the system. System creates 1 door if Ingressus I is added as device, 2 doors if Ingressus II is added. You will find the IP address of Ingressus display at the left panel.

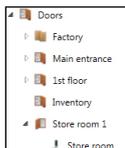
In Ingressus II, you will send 2 lines of the same IP address to indicate 2 doors. Under each door, there is an in and out device (slave devices). Refer to Ingressus installation guide to understand how to define door and IN-OUT slave devices. This is all controlled by the wiring between Ingressus and slave devices.



Right click at the IP address of Ingressus to rename, for example Ingressus II – R&D office. Rename the slave device by their models for easy reference.



## Add Keylock to Door



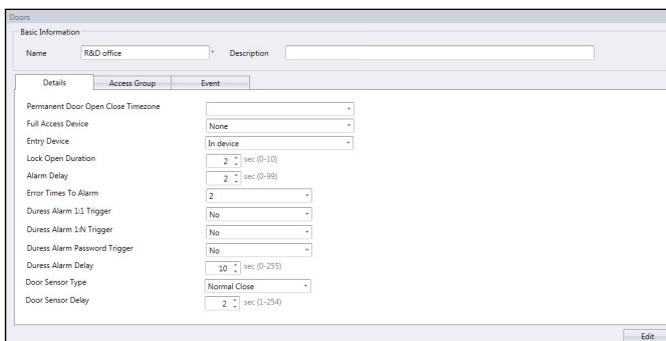
Ingress automatically creates a door named Keylock 7700/8800 after you add the device into the system. Ingress adds the device to the door immediately. You can rename the device for easy reference.

## Configuring Settings to Doors

You can configure access settings in Ingress and upload to both devices paired with the door. This ensures both standalone devices apply the same access settings during operation. If you are using a standalone device with a slave to guard the door, settings will only be sent to the standalone device.

Ingress treats Ingressus II as 2 different doors even though it is from one device. You can configure access settings for each door individually. Ingressus II can store and apply the settings to doors accordingly.

Ignore this if you are installing with the Keylock series. Due to the lack of communication cable, Ingress cannot upload any settings to Keylock. Thus you do not need to configure anything in Ingress.



1. Click to select a [door](#).
2. Press [Edit](#) at the right panel.
3. Change the settings accordingly.

### General configuration for standalone device and Ingressus

**Permanent Door Open/Close Time Zone:** Select to follow time range settings to allow free access (without verification at the device) to the zone. Only to be used for zones with open access to public during specific time range. Requires setup of Permanent Door Open Close Time Zone. Leave this blank to ignore this feature.

**Lock Open Duration:** Change to set duration for door lock and unlock during successful verification.

**Door Sensor Type:** Select the type of door sensor installed at the device. The most common type is NC (normally close). Door sensor is a must-have component if you want to monitor door activities. It responds to standalone device or Ingress all the time to report door status.

#### Configurations to apply to door with standalone device only

**Full Access Device:** Important setup if you apply Time Zone settings to the door. Select exit device to become full access device. Full access device ignores time zone settings. Users can verify at the device to leave the zone anytime.

**Entry Device:** Defines if the device is used for In or Out transactions. For example, all records from an In device will be recorded as In while records from the other device at the same door will be recorded as Out.

**Alarm Delay:** Change to set the duration before triggering alarm during emergency. Set to 0 for the device to trigger alarm immediately during emergency.

**Error Times To Alarm:** To set the maximum times of failed verification before device triggers alarm. This is to alert the unauthorized person to not tamper with the device.

**Duress Alarm 1:1 Trigger**

**Duress Alarm 1:N Trigger**

**Duress Alarm Password Trigger**

During emergency users can verify at the device to trigger duress alarm to alert others. For example, robbers force user to verify to unlock the door to access into the zone. User can verify at device to trigger alarm to alert the users inside the zone.

Activate one of the above options as the duress alarm trigger method. If you are using fingerprint verification to gain access during normal days, activate Duress Alarm Password Trigger. The device will then trigger the alarm when you insert your password. Refer to the device's user guide for details on how to enroll fingerprint or password to trigger duress alarm.

**Duress Alarm Delay:** Change to set duration before alarm is triggered during duress scenario. Set 0 and device will trigger alarm immediately during duress scenario.

**Door Sensor Type:** Select the type of door sensor installed at the device. The most general type is NC. Door sensor is an important component to monitor door activities. In case of door force open or door remain open, the door sensor reports it to the device. You can see the status of door under the Monitoring page in Ingress. Select None if you did not install door sensor, but you can no longer monitor the activities from this door.

#### Configurations to apply to door with Ingress only

**Permanent Door Open/Close Holiday Time Zone:** Select to follow time range settings to allow free access (without verification at the device) to the zone during holiday. Requires setup of Holiday list and Permanent Door Open Close Holiday Time Zone. Leave this blank to ignore this feature.

**Punch Interval:** Set the time duration between 1st and 2nd verification from the same user, for example 10s. Ingressus will not grant access to the user if he/she verifies twice within 10s from any slave devices.

**Verify Mode:** To select combination of verification to gain access.

**Duress Password:** Same as Duress Alarm Password Trigger.

**Emergency Password:** During emergency, users can enter an emergency password to unlock any door (controlled by Ingressus) at anytime. Time zone or access control settings will not affect it. This is normally done by the administrator.

**Door sensor delay:** Set the time duration before Ingressus triggers the alarm if door remains open.

**Close and Reverse State:** Activate this if you want EM lock or dropbolt to lock immediately once door closes. You must install door sensor together with the door lock. When the door sensor touches each other, Ingressus receives the signal and activates the door lock system immediately. This overrides the Door Open Duration settings and can avoid unauthorized access or tailgating incident.

4. [Save](#) settings.
5. [Upload](#) new settings to devices.

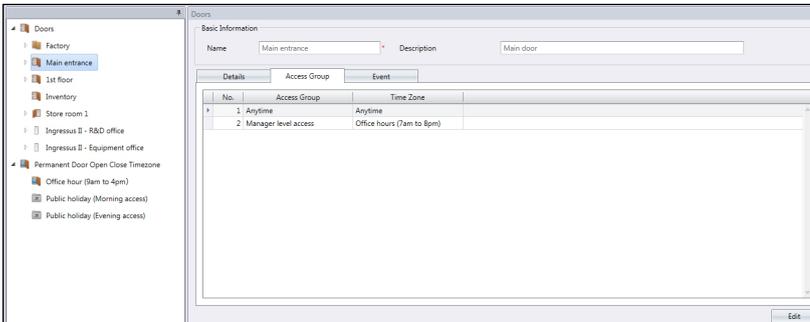
## Delete Device/Doors

You can delete the devices or doors in case any of them are no longer in use. Make sure you identify the devices and doors before you proceed to delete them.

1. Click to select the device/door display at the left panel to delete.
2. Click [Delete Device](#) or [Remove Door](#) to proceed.
3. Click [Yes](#) to confirm to delete.

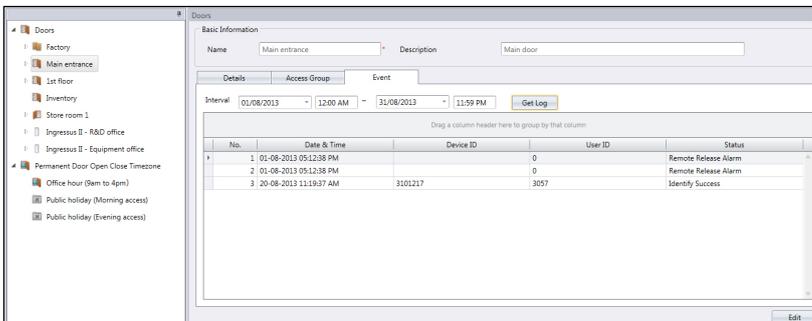
## Access Group of Door

You can limit access according to time range of every user via each door. For example all users can access via the main entrance but only Admin staff can access into the Admin department during office hours. Refer to [Access Level](#) for more details.



Here, you can only view the access time range set to each door. You can only change them under the [Access Level](#) tab.

## Events of Doors



Each device uploads activities (e.g.: door force opened) to Ingress automatically. You can view these records according to date and time.

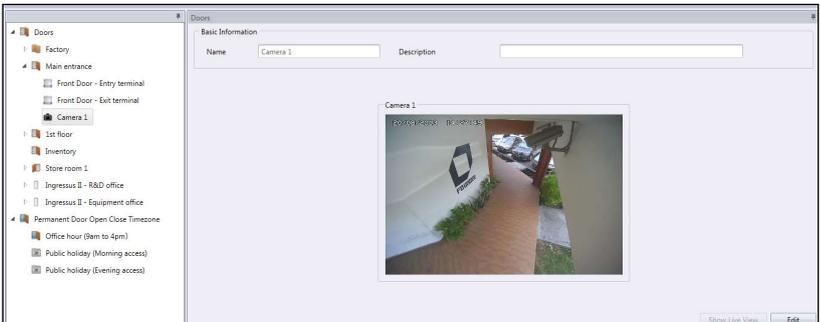
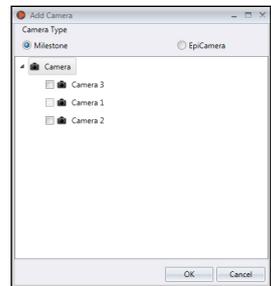
1. Press [Edit](#).
2. Define the date range/[Interval](#).
3. Press [Get Log](#).

## Linkage with IP Camera

Ingress can link up with the MileStone server or EpiCamera to stream the video. You can have live view from your IP camera in Ingress without logging-in to MileStone or EpiCamera. You can pair the IP camera to relevant door(s) so you can monitor IN-OUT movement easily.

Before you start to pair the IP camera to a door, go to [System Settings](#) to configure connection details of your Milestone server or EpiCamera under [Network Camera Integration](#).

1. Select [Door](#) at the left panel.
2. Click [Add Camera](#).
3. Select [MileStone](#) or [EpiCamera](#).
4. Select the [IP camera](#) to be paired with the door.
5. The IP camera will be displayed at the left panel under the selected door.
6. Select the [IP camera](#) and click [Show Live View](#) to stream video.



In case of abnormal door activities (e.g.: door force open), Ingress records the event immediately under [Monitoring](#). You can playback the video during the abnormal door activities by clicking at the alert message. More details under [Monitoring](#).

1. Select the [IP camera](#) from left panel.
2. Click [Remove Camera](#).
3. Yes to confirm to delete.

## Permanent Door Open Close Time Zone

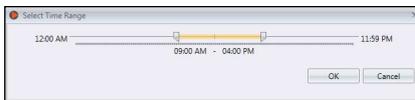
You can set a specific time range to allow free access for certain entrance. For example, sales office is open for customers to visit during office hours (9am to 5pm). Users do not need to verify to gain access from 9am to 5pm. This is called Permanent Door Open Close Time Zone, designed to control access for zones with high traffic flow without compromising the security purpose.

### **Steps to setup Permanent Door Open Close Time Zone:**

1. Click [Permanent Door Open Close Time Zone](#).
2. Click [Add Time Zone](#).
3. **Name** the Time Zone, e.g.: Office hour – Free Access 9am to 4pm.
4. Press [Edit](#).
5. Define the [Start and End time](#) for each day.

• You can click the [Copy](#) button to copy the settings from the previous day.

• Click [↔](#) to define time range by scroll bar.



6. Press [Save](#) to save settings.

### **Steps to assign Permanent Door Open Close Time Zone to Door:**

1. Select [Door](#) from the left panel.
2. Select [Details](#).
3. Press [Edit](#).
4. Select the time zone under [Permanent Door Open Close Time Zone](#).
5. Press [Save](#).
6. [Upload settings](#) to devices.

### **To remove the Permanent Door Close Time Zone from list:**

1. Select the [Time Zone](#) from left panel.
2. Click [Remove Time Zone](#).
3. [Yes](#) to confirm to delete.

## Permanent Door Open Close Holiday Time Zone (Ingressus only)

You can apply Permanent Door Close Time Zone during holidays. Ingress applies the time zone settings to the date listed under Holiday Settings. This is only effective to doors installed with Ingressus.

### ***Steps to setup Permanent Door Open Close Time Zone:***

1. Click [Permanent Door Open Close Time Zone](#).
2. Click [Add Holiday Time Zone](#).
3. **Name** the Time Zone, e.g.: Holiday Access – Morning only.
4. Press [Edit](#).
5. Define the [Start and End time](#).
6. Press [Save](#) to save settings.

### ***Steps to assign Permanent Door Open Close Holiday Time Zone to Ingressus:***

1. Select [Ingressus](#) from the left panel.
2. Select [Details](#).
3. Press [Edit](#).
4. Select the time zone under [Permanent Door Open Close Holiday Time Zone](#).
5. Press [Save](#).
6. [Upload settings](#) to Ingressus.

### ***To remove the Permanent Door Close Time Zone from list:***

1. Select the [Holiday Time Zone](#) from left panel.
2. Click [Remove Holiday Time Zone](#).
3. [Yes](#) to confirm to delete.

# Setup of Zones

This chapter guides you on setting up zone installations using Ingressus.

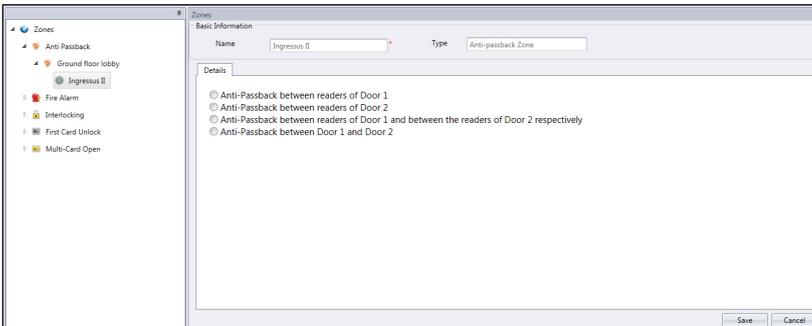
This chapter is only applicable for Ingressus. Skip this chapter if you are not installing any Ingressus controllers in your environment. You can set up zone installations with Ingressus to perform more secure access control settings.

There are a total of 5 types of zones, which are:

- Antipassback
- Fire alarm
- Interlocking
- First Card Unlock
- Multi Card Open

## Antipassback

Apply Antipassback to force all users to verify every time when coming in or leaving the work place. Ingressus blocks user access if the user missed his/her previous verification record. This is an important feature to stop users from tailgating others during access. Ingressus can collect the full IN-OUT records of every user.

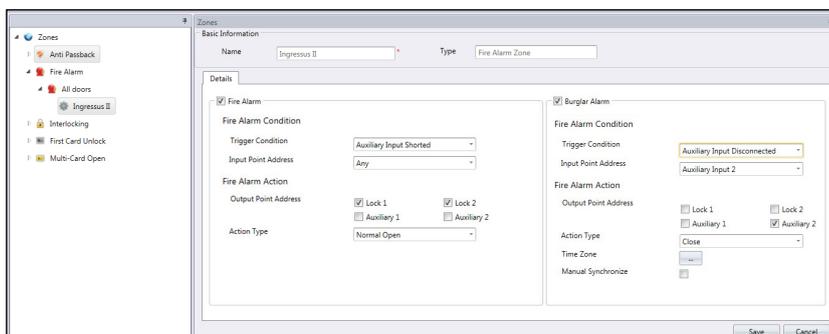


1. Click **Antipassback** from the left panel.
2. Click **Add Zone**.
3. **Name** the Zone, e.g.: Ground Floor.
4. Click **Add Device**.
5. **Select** Ingressus from the list.
6. **Name** the Ingressus controller.
7. Press Edit at the Basic Information panel.

- Select the nature of Antipassback by clicking at the radio button.
  - Antipassback between readers of Door 1:* To activate feature at Door 1 only.
  - Antipassback between readers of Door 2:* To activate feature at Door 2 only.
  - Antipassback between readers of Door 1 and between the readers of Door 2 respectively:* To activate the features at both Door 1 and Door 2 independently.
  - Antipassback between Door 1 and Door 2:* To activate the feature between both Door 1 and Door 2. User must have an Out record from Door 1, before granted access to Door 2.
- Sync settings to the Ingressus controller.

## Fire and Burglar Alarm

Apply fire alarm settings to Ingressus to alert users in case of fire emergency. You must install AUX input component at Ingressus (e.g.: smoke/heat detector). The sensor sends signal to Ingressus once it detects smoke/heat. You can configure in Ingress to force Ingressus to unlock doors immediately.



- Click **Fire Alarm** from the left panel.
- Click **Add Zone**.
- Name** the Zone, e.g.: All doors.
- Click **Add Device**.
- Select** Ingressus from the list.
- Name** the Ingressus controller.
- Press **Edit** at the Details panel.
- Check the **Fire Alarm** box to start configurations.

**Trigger condition:** To define the action that will trigger the fire alarm in Ingressus. You can either use sensors (connecting to AUX port at Ingressus) or key command from slave terminals (insert special password, verification of duress finger). For example, select Auxiliary Input Shorted if you are using smoke/heat sensor to detect fire. The sensor connects to Ingressus at its AUX Input port. It only send signal to Ingressus in case it detects smoke or heat.

**Input point address:** To define the type of input to Ingressus to trigger fire alarm. Select Any if you are using slave terminals as input, or Auxiliary Input Port 1 and 2. You will only find Auxiliary Input Port 1 if you are installing with Ingressus I.

#### 9. Configure the output from Ingressus during fire alarm.

**Output point address:** To define the type of action given from Ingressus during fire alarm, either Lock or Auxiliary Output. Check the box LOCK 1 and 2 if you want to control door lock during fire alarm. Select Auxiliary 1 and 2 if you are connecting to any sensor supporting auxiliary output.

**Action Type:** To define Close, Open or Normal Open as outputs from Ingressus.

**Close** – Ingressus outputs NC relay signal from the AUX port. The NC relay signal can turn on the 3rd party circuit, e.g.: turning on siren to alert users.

**Open** – Ingressus outputs NO relay signal from AUX port. The NO relay signal can turn off the 3rd party circuit, e.g.: turning off power to door lock system.

*If you have selected Lock 1 and 2 under Output point address, select Open to unlock doors during fire alarm.*

**Delay** – The time duration to wait before action happens.

#### 10. Sync settings to the Ingressus controller.

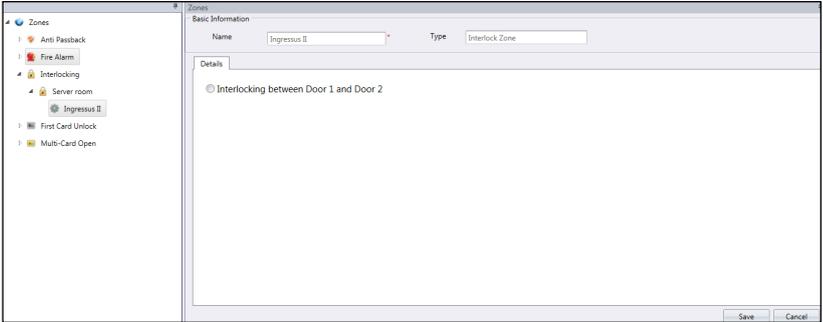
Ingressus can link with motion detectors to monitor zones after operation hours. In case of break-ins, the motion detector senses the movements of the intruder, and proceeds to trigger its alarm output. Unlike smoke/heat sensors, motion detectors must be shut down when users are allowed to enter the zone. You can set a schedule to activate/de-activate the motion detector instead of manual operation.

1. Check the **Burglar Alarm** box to start configurations.
2. Select **Auxiliary Input Disconnected** under Trigger Condition.
3. Select **Auxiliary Input 2** as Input Point Address (we recommend to connect motion detector to AUX IN 2 port).
4. Select **Auxiliary 2** under Output Point Address (we recommend to link AUX OUT 2 port to alarm system or siren).
5. Select **Close** under Action Type.
6. Sync settings to Ingress controller.

## Interlocking

This is also known as a mantrap and is only applicable for installations of Ingressus II with 2 doors. With the setting, Ingressus will detect either door closed tightly before allowing user to verify to unlock the other door. Door sensor must be installed at each door to monitor the door open-close activities.

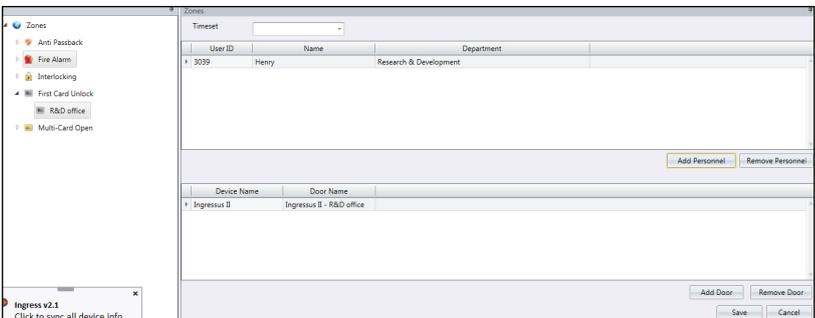
1. Click **Interlocking** from the left panel.
2. Click **Add Zone**.
3. **Name** the Zone, e.g.: server rooms.
4. Click **Add Device**.



5. Select Ingressus from the list.
6. Name the Ingressus controller.
7. Press **Edit** at the Details panel.
8. Check **Interlocking between Door 1 and Door 2** to activate the feature.
9. Press **Save** to save settings.
10. **Sync** settings to the Ingressus controller.

## First card unlock

You can set one user/card as the ‘gatekeeper’, whereby the user/card must be verified first before others are given access to a restricted area. If he/she is unavailable to verify, other users cannot gain access. This is to ensure the person in charge is present to monitor the restricted area before other users seek access.

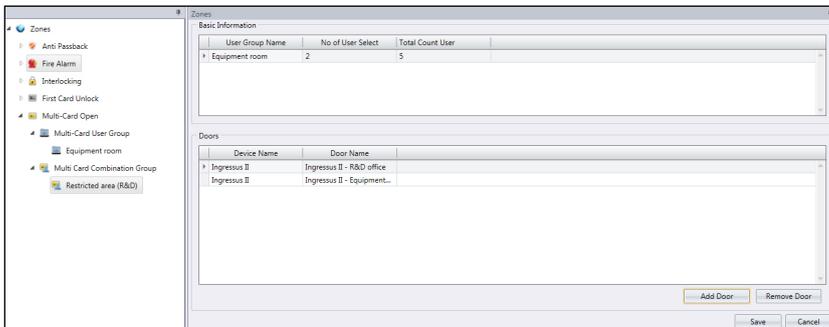


1. Click **First Card Unlock** from the left panel.
2. Click **Add Zone**.

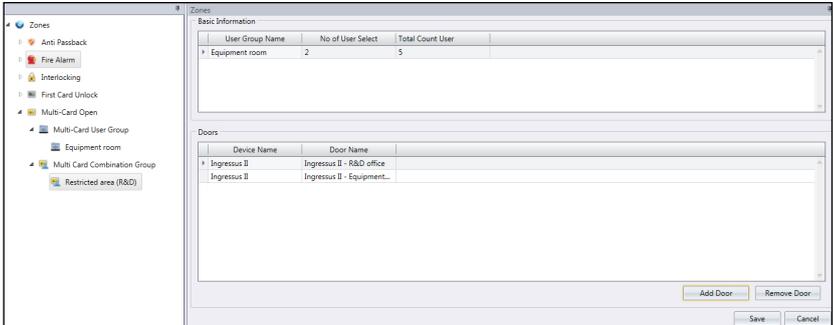
3. Name the Zone, e.g.: R&D office.
4. Click **Add Device**.
5. Select Ingressus from the list.
6. Name the Ingressus controller.
7. Press **Edit** at the Zone panel.
8. Select **Time Set** to access for access. No access granted if time falls out of the boundary.
9. Click **Add Personnel** to define the user as First Card Unlock person (he/she still can use password or fingerprint to verify). It is optional to assign more than 1 user.
10. Click **Add Door** to define which Ingressus to follow this rule.
11. Press **Save** to save settings.
12. **Sync** settings to the Ingressus controller.

## Multi card open

Multi card open is a security feature to unlock doors whereby at least 2 specified users must verify themselves (fingerprint, password or card) at the same time at a door to gain access. You can set up to a maximum of 5 users that must verify together to unlock a door.



1. Click **Multi Card Open** from the left panel.
2. Click **Add User Group**.
3. Name the User Group e.g.: R&D group.
4. Click **Edit** at the right panel.
5. Select the relevant users from the list.
6. Click **Save** to save settings.
7. Click **Multi Card Combination Group** from the left panel.
8. Click **Add Combination Group**.
9. Name the Combination Group e.g.: Restricted Area – Level 1.



10. Press **Edit** to start to configure.
11. Double click at the **No. of User Select** to be presented for verification in this group.
12. Press **Add Door** to select the Ingressus controller to follow this rule.
13. Press **Save** to save settings.
14. **Sync** to the Ingressus controller.

## To Delete Zone/Device/User Group/Multi card combination group

If any of the above is not applicable in your environment, or if you wrongly added configurations into the list, you can choose to delete them from the list as follows:

1. **Select** the required zone/device/user group/multi card combination group from the left panel to be deleted.
2. Click the button at the top menu bar (**Remove Zone, Delete Device, Remove User Group or Remove multi card combination group**).
3. Click **Yes** to confirm delete.

### **Alternatively:**

1. Select the item to delete.
2. Right-click on the item to select **Delete**.
3. Click **Yes** to confirm delete.

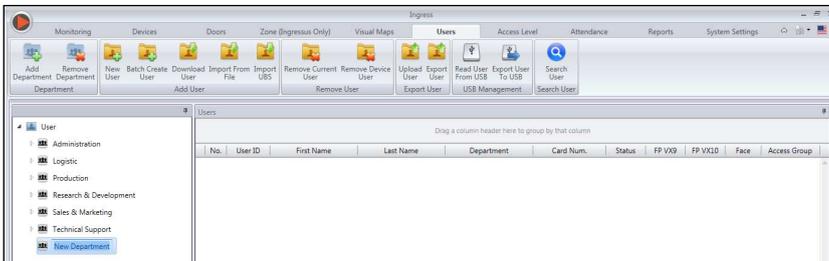
# Management of Users

This chapter guides you to manage users by synchronizing them from devices into Ingress and filling in detailed user information for reporting purposes.

Synchronize all users from devices into Ingress for easy management. You can fill in important information of each user as reference and also transfer users' info among all devices to allow access accordingly. The transfer process requires TCP/IP or RS485 connection to each device. If either communication method is not available, you can copy users' info into a USB flash disk to transfer information between Ingress and device. You can import users' info from your current system, and transfer it into Ingress so you do not need to re-insert the info again.

## Add Department

Create list of departments in Ingress before you start to synchronize or create users. This is a good practice to handle users by department.



1. Click **User** at the left panel.
2. Click **Add Department**.
3. **Name** the Department.

## Add Users

### To download users from devices

The easiest way to add users is to synchronize users from the devices. To do so, enrollment of users with face, fingerprint, card and password must first be done at the device. Then, run Ingress to download the users and assign under department accordingly. *Refer to Chapter 4 • To import users' biodata from other system* to learn how to import user biodata from 3rd party system so you do not need to insert user biodata manually.

1. Click **Download Users** at the Menu bar.
2. **Double-click** to select the device from the left panel.
3. **Check** the checkbox to select users data to download.

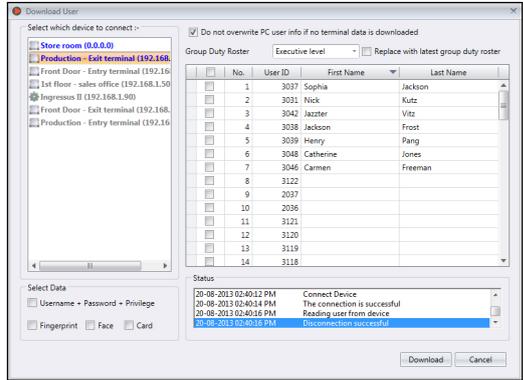
**Username + Password + Privilege** (compulsory item. Ingress ignores username and password if the user does not enroll any of them)

**Fingerprint** (only select if you want to download users' fingerprint templates)

**Face** (only select if you want to download users' face templates)

**Card** (only select if you want to download users' card ID)

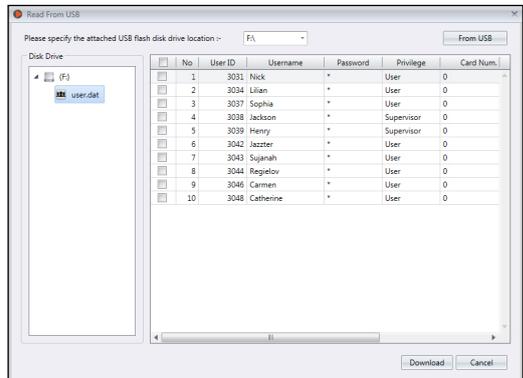
4. Check **"Do not overwrite PC user info if no terminal data is downloaded"** to avoid accidentally downloading data from a device without any data. Ingress will delete all users' data in its list if the connected terminal is empty. Ignore this if you do not have any data stored in Ingress.
5. **Select** the users to download from the right panel.
6. Click **Download** to proceed.



## To download users via USB flash disk

You can use USB flash disk to download users from all terminals and the Keylock series. However, the Ingressus controller does not have a USB port for data transfer.

1. Click **Read User From USB**.
2. Click to select **USB** drive plugged with the USB flash disk.
3. Click **From USB**.
4. **Select** users by checking the user ID.
5. Click **Download** to copy users' data into Ingressus.



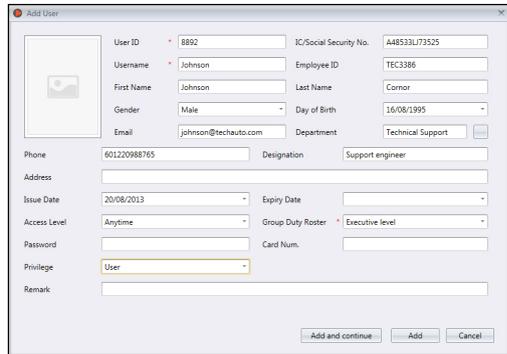
## To create users manually

You must manually create users in Ingress if only the Ingressus controller is installed in the environment because you cannot enroll users fingerprint, password or card ID directly to Ingressus. Therefore, enroll them in Ingress by scanning fingerprint with OFIS-Y scanner (fingerprint), or insert password or card number of each user in Ingress.

You can create users by batch by assigning a running user ID for each user. In case you are assigning RFID cards to every user, where the card numbers are in sequence, you can create users by batch too.

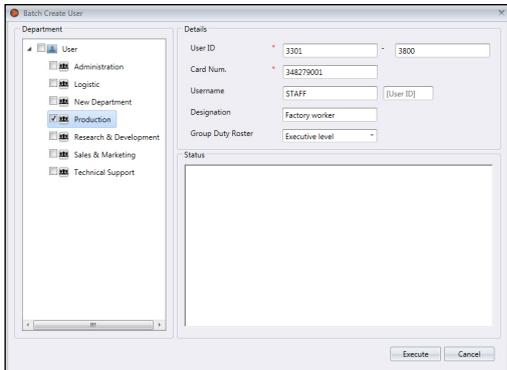
### To add users one-by-one:

1. Click **New User**.
2. Fill in the user biodata.
3. Click **Add and continue** to continue to add next user.
4. Refer to [4.3.1](#) to learn how to enroll fingerprint by using OFIS-Y scanner.



### To add users by batch:

1. Define the start and end **User ID**.
2. Provide the starting **Card Num.** if users are using card in running sequence number.
3. Define a general **Username** to attach with the user ID, for example Staff1234. You can amend the username accordingly afterwards.
4. Provide the **Designation** if all users share the same post. Ignore this if they have different designations.
5. Press **Execute** to start to generate users.



## Edit User Biodata

Assign users into department via drag-and-drop. Fill in the biodata of each user to ease searching in future. You can also edit individual users manually or import the relevant information from your previous system into Ingress.

### To edit users' information manually

No.	User ID	First Name	Last Name	Department	Card Num.	Status	FP V09	FP V010	Face	Access Group
1	3031	Nick	Kutz	Production		0	4			
2	3034	Lilan	Hong	Production		0	4			
3	3037	Sophia	Jackson	Logistic		0	4			
4	3038	Jackson	Frost	Logistic		0	4			Anytime
5	3039	Henry	Pang	Research & Development		0	2			Anytime
6	3042	Jaczer	Vitz	Technical Support		0	4			Anytime
7	3043	Anabel	Raymond	Administration		0	4			Anytime
8	3044	Belle	Dickson	Administration		0	4			
9	3046	Carmen	Freeman	Sales & Marketing		0	4			
10	3048	Catherine	Jones	Sales & Marketing		0	0			

You can see all users displayed in the right panel. Double-click the user ID to start to edit his/her biodata accordingly.

Basic Information

User ID: 3039 Employee ID: Tech3039 IC/Social Security No.:  
 First Name: Henry Last Name: Pang Email: pang@ingresctec  
 Designation: Product Development Manager Department: Research & Development  
 Day of Birth: 16/06/2013 Gender: Male Phone: 0122081448  
 Address: Group Duty Roster: Executive level

Details | Fingerprint | Event | Card | Other

Access Control | Time Attendance

No.	Door	Time Set	Holiday
1	Main entrance	Anytime	Valid

1. Press **Edit**.
2. Double click at the **Photo column** to insert his/her photo.
3. Fill in the details under the **Basic Information** to describe the user.
4. Click each tab to view or configure under the Basic Information section.

- **Details tab:**

**Username:** Short name to be displayed to user during verification. Maximum 9 characters.

**Password:** Assign password for users' verification at devices. Maximum 5-digits.

**Issue date:** To show the date the user created in Ingress.

**Expiry date:** Date to suspend users to display on Attendance Sheet.

**Suspend:** Block users to gain access at the device.

**Privilege:** To change the user's privilege at the devices.

**Card:** To display the card number assign to the users.

**Face:** To indicate if a user is enrolled with face template.

**Total FP VX 9:** To display total number of VX 9.0 fingerprint template enrolled for the users.

**Total FP VX 10:** To display total number of VX 10.0 fingerprint templates enrolled for the users.

- **Fingerprint tab:** You can enroll new fingerprint for users by using the OFIS-Y scanner under FP VX 9.0/VX 10.0. Follow steps below:

1. Plug **OFIS-Y scanner** to Ingress server/client.
2. Click the **User ID** to enroll fingerprint.
3. Open the page **FP VX 10** (if you are using an older device supporting VX 9.0 fingerprint, please open **FP VX 9** before proceeding to the next step)
4. Press **Edit**.
5. Press **Registration**.

Follow the onscreen instruction to enroll fingerprint.

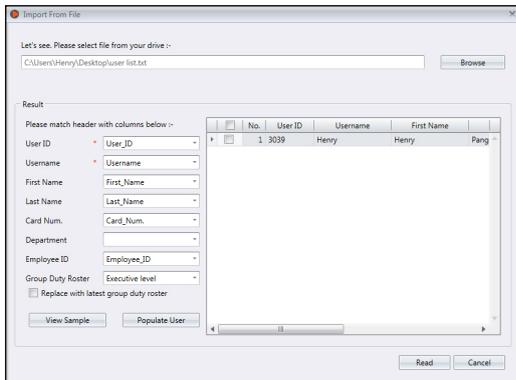
- **Card tab:** You can assign/update a new card number to the users as well as removing a card number from the user.
  1. Click **Edit**.
  2. Click **Add/Update/Delete**.
  3. Sync settings to terminal.
- **Access Control tab:** This tab displays the list of terminals that this user is assigned to.
- **Time Attendance tab:** This tab displays the working calendar that this user is assigned to.
- **Event tab:** You can view his/her access records at this tab. Define the start and end date range to view the records.

## To import users' biodata from other system

You can import users' biodata from other system so you do not need to re-insert details again into Ingress. The import file can be in XLS, TXT or CSV format. The data includes:

- User ID
- Username
- First name
- Last name
- Card number
- Department
- Employee ID

It is recommended to prepare the data according to the arrangement mentioned above. However you can configure Ingress to read the data from specific columns to match the data via the following steps:

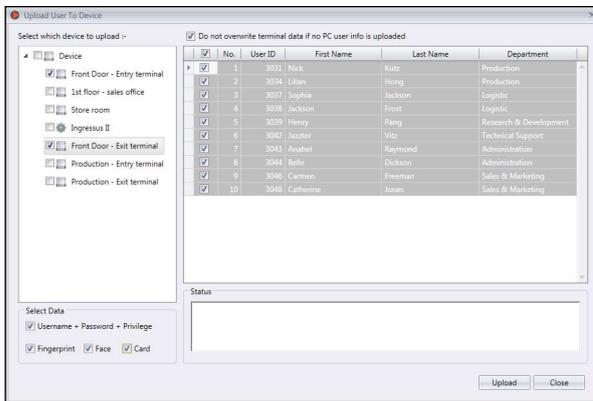


1. Click [Browse](#) to find and open the file.
2. Select to [Match](#) the column of import data with Ingress.
3. Click [Populate User](#) to see the data.
4. Click [Read](#) to start to import.

## Upload users to devices

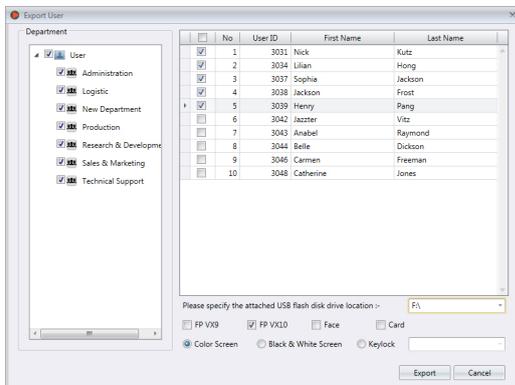
You can upload the users' information to devices without re-enrollment of the users. You can upload via TCP/IP, RS485 or USB flash disk.

### Upload users via TCP/IP or RS485



1. Click [Upload User](#).
2. Select the devices in the left panel to upload the users' information to.
3. [Check](#) the checkbox to select users information to upload.  
*Username + Password + Privilege* (compulsory item. Ingress ignores username and password if the user does not enroll any of them)  
*Fingerprint* (only select if you want to download users' fingerprint templates)  
*Face* (only select if you want to download users' face templates)  
*Card* (only select if you want to download users' card ID)
4. Check **"Do not overwrite terminal data if no PC user info is downloaded"** to avoid accidentally uploading empty data to a device. Ingress will delete all users' information in the terminal if you forget to include the information mentioned in step 3. Ignore this if you are sure the device is new and data is stored in it.
5. [Select](#) the users to be uploaded from the right panel.
6. Click [Upload](#) to proceed.

## Upload users via USB flash disk



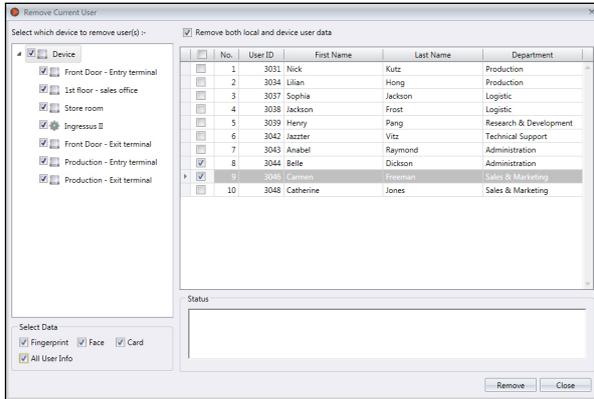
1. Click [Export Users to USB](#).
2. Select users by department or individual users.
3. Click to select [USB](#) drive plugged with the USB flash disk.
4. Select types of users' information to upload.
  - FP VX 9* –users' fingerprint enrolled by algorithm VX 9.0 (old fingerprint templates)
  - FP VX 10* –users; fingerprint enrolled by algorithm VX 10.0 (new fingerprint templates)
  - Face* – users' face templates
  - Card* – users' card number
5. Select the types of devices to upload the data to.
6. Click [Export](#).

## Remove Users

When users no longer work in the environment, or transfer to another department/section, you must delete his/her information from Ingress and devices. This is to ensure the user no longer has access to selected doors.

### Remove Current Users

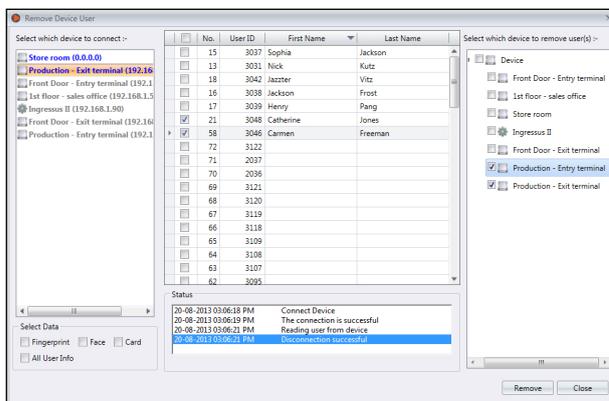
This is to remove users when the users no longer work with the company. This process can remove the users' information from Ingress and all devices.



1. Click **Remove Current Users**.
2. Select the devices from the left panel to remove the users (recommended to select all).
3. Select all data to delete (fingerprint, face, card, all user info).
4. Select the user ID(s) to delete.
5. Click **Remove** to proceed.

## Remove Device Users

This is to remove the users from selected devices. The users' information will still be kept in Ingress and can be uploaded to devices again in the future.

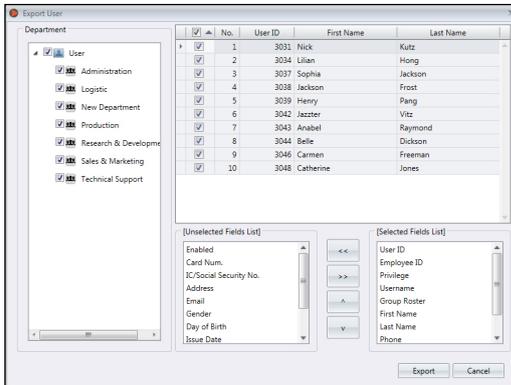


1. Click [Remove Device Users](#).
2. Select device (from left panel) to connect so you can seek for the users ID to delete.
3. Select the users ID to delete.
4. Select device (from right panel) to connect so you can delete the users from these devices.
5. Click [Remove](#) to proceed.

## Other Operation

### To export users biodata

You can export the users' biodata into other digital format (TXT, XLS, XLSX or CSV) for 3rd party system to use with.

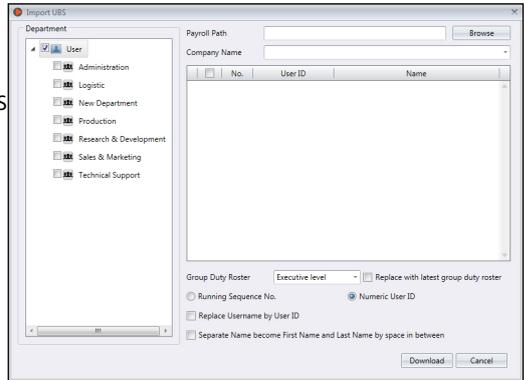


1. Click [Export User](#).
2. Select users by department or individual users.
3. Select the type of biodata to export.
4. Press right arrow include in the export process.
5. Click [Export](#) to proceed.
6. [Name](#) the output file.
7. Select the types of output.

## To import users' biodata from Sage UBS Payroll *(for Malaysia market only)*

You can import users' biodata from Sage UBS Payroll.

1. Click **Import UBS**.
2. Select users by department.
3. Browse to seek for the Sage UBS Payroll path.
4. Insert the company name.
5. Select the users to import.



6. Select user ID format.  
*Running sequence number* – select this if you want Ingress to create new user ID by running number  
*Numeric user ID* – select this and system only accepts numbers as user ID. In case the user is using alphanumeric for example AD3039 as user ID, enable this option and system only capture 3039 as ID during import process.
7. Check “Replace username by user ID” – select this and system treats user ID as username during export process.
8. Check “Separate Name become First Name and Last Name by space in between” – select this and system justifies employee first name and last name by space in between employees' name.
9. Click **Download** to proceed.

## To search users by keywords

You can search Ingress' database to look for a user by keywords via the following steps:



1. Click **Search User**.
2. Insert **keywords** into the relevant column.
3. Click **Search** to proceed.

## Access Levels

This chapter guides you on how to restrict access to created and assigned users in the workplace through several different methods.

You can limit access of every user by time range to any doors in the workplace by configuring its settings and uploading them to the devices. Devices justify the access by checking his/her identity and effective time range. For example, you can allow access to all managers at all times but only allow access from 9am to 5pm for junior executive.

Each time range is separated into 3 intervals a day. You can set a maximum of 3 sets of access time ranges in a day. The users can only access the workplace during these 3 intervals. For example, you can allow access for the production workers into the production area from 7am to 10am, 11am to 1pm and 2pm to 6pm to carry out their duties. Therefore, production workers cannot gain access into the factory while having their breaks between the 3 time ranges.

You can also set the specific access time to apply to holidays. Ingress uploads the access time together with date of holiday to devices. For example, you can allow access through the main entrance from only 8am to 12pm during holidays. To fully utilize holiday time zone, you must set the list of applicable holidays in Ingress before further configurations.

You can improve the security of access by using a combination of verification methods. To do so, you can set different verification methods at individual doors. For example, R&D staff can verify by fingerprint at the company's main entrance, but must verify both fingerprint and card when accessing to the R&D office.

### Access Levels by Time

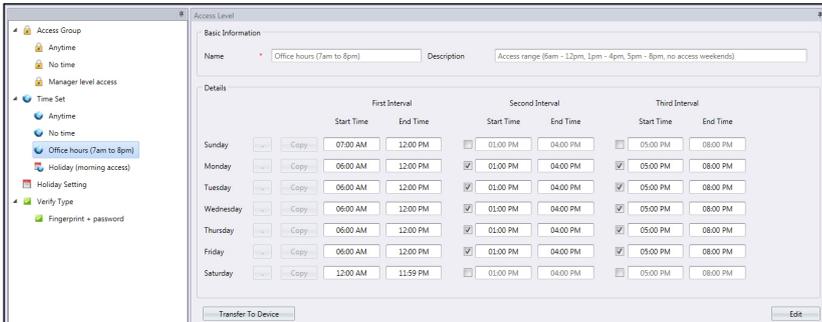
Firstly, you must configure the daily time set. Time set is the time where users are allowed access into the door. The device blocks user access if his verification time is out of range. You can apply up to 3 different time sets in a day.

Secondly, you must create an Access Group to define the time sets to follow and which devices shall apply this time set.

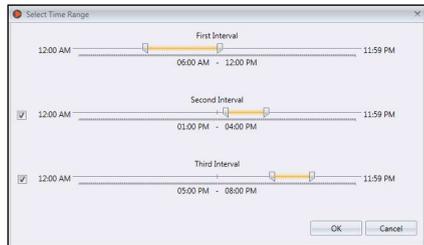
Finally, you must add the users into the Access Group. Users must follow the time set settings at the specific devices to gain access.

### Setup of Time Set

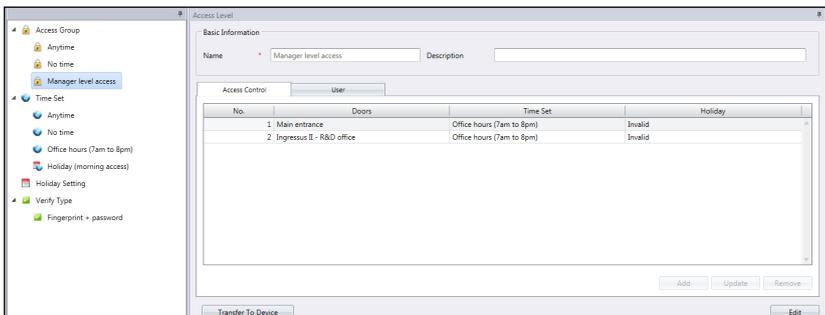
By default, Ingress provides 2 time sets which are Anytime (all time access) and No time (no access anytime). You can create new time sets according to your company's requirements.



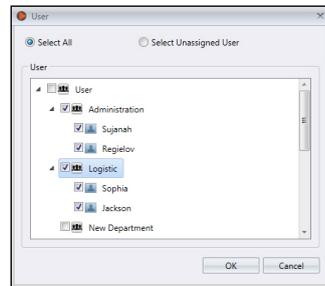
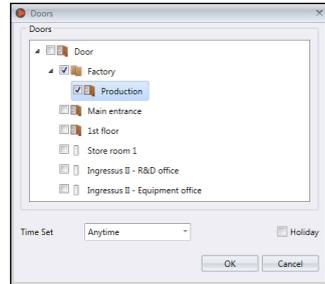
1. Select **Time Set** from the left panel.
2. Click **Add Time Set**.
3. Press **Edit**.
4. **Name** the time set, e.g.: Office hours.
5. Write a **Description** to remark the time set.
6. Set the time range to allow access with a maximum of 3 sets of time per day. In case you want to **block** access for the whole day, set **11:59PM as start time and 12:00AM as end time**.
7. You can click  to use the graphical setup page as an alternative.
8. To use 2nd and 3rd interval, you must check the box to activate it.
9. Click **Copy** in the next line if you want to duplicate the same time from the above settings.
10. Click **Save** to save settings.
11. Click **Transfer to Device** to synchronize the settings to devices.



## Setup of Access Group



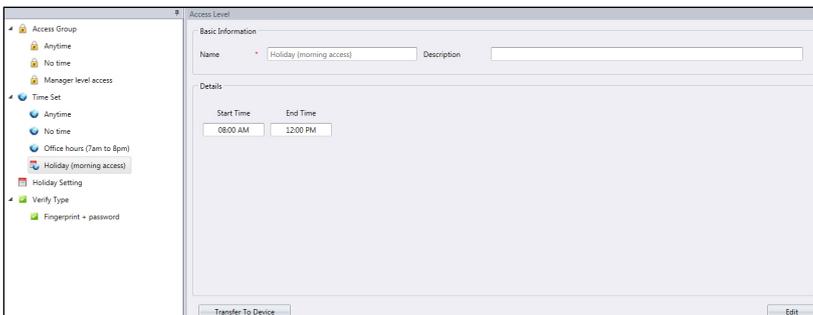
1. Click **Access Group** from the left panel.
2. Click **Add Access Group**.
3. **Name** the access group, e.g.: Executive level.
4. Click **Edit** at the **Access Control** tab.
5. Click **Add** to add the device to use this access level.
6. Select **Time Set** to follow (the time set must be preset prior to this step).
7. Check **Holiday** if you want to apply Holiday Time Zone (refer to *Chapter 5 • Access Level by Holiday* for more details).
8. Click **OK** to save settings.
9. Click **Transfer to Device** to synchronize settings to device.
10. Click **Edit** at the **User** tab.
11. Click **Add** to include the users that will follow this access group and time set.
12. Click **OK** to save settings.
13. Click **Transfer to Device** to synchronize users to the device that will follow this access group.



## Access Levels by Holiday

You can control access of users during holiday, e.g.: users can only access company main entrance from 9am to 12pm during holiday. Set the holiday time set to define the access time applicable to holidays in Ingress. Ingress does not allow you to proceed if there is no holiday time set defined. Define the start and end date for holidays under Holiday Settings. Assign the holiday time set to the specific holiday to take effect.

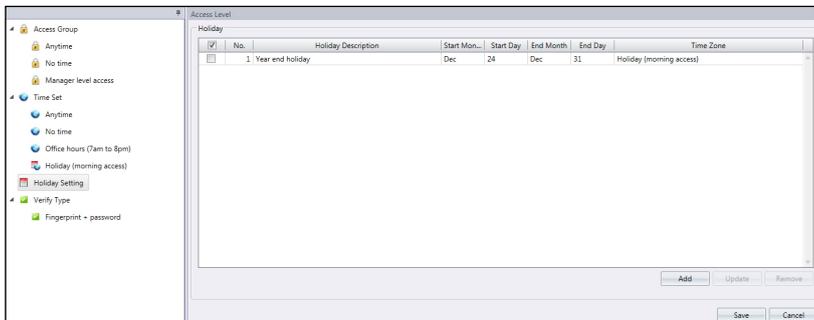
## Setup of Holiday Time Set



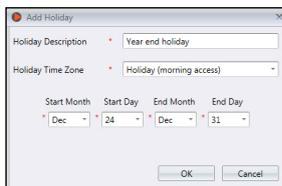
1. Click [Time Set](#) from the left panel.
2. Click [Add Holiday Time Set](#).
3. Describe the holiday time set, e.g.: Year End Holiday.
4. Click [Edit](#).
5. **Name** the holiday time set, e.g.: Holiday access – Morning.
6. Define **the start and end time** to deny access. By default, Ingress does not allow any access throughout the day if holiday settings are in use.  
If access is required during some part of the day, you can shorten the access deny time.  
*For example*, if access is required until 12:00pm, you may set the start time as 1:00pm and end time as 11.59pm.
7. Click [Save](#) to save settings.
8. Click [Transfer](#) to device.

You can repeat the steps above to create additional holiday time sets to suit your workplace.

## Create Holiday List to add Holiday Time Set

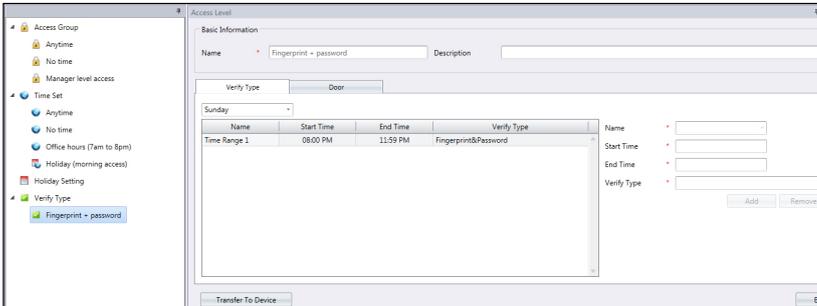


1. Click [Holiday Settings](#) from the left panel.
2. Click [Edit](#).
3. Click [Add](#) to add new holiday.
4. Name the holiday.
5. Select Holiday Time Zone to apply.
6. Define the start and end date.
7. Click OK to apply.
8. Click Save to save settings.
9. Click Transfer to Device to synchronize to devices.



## Access Level by Verify Type

You can increase the security level of access by applying different verification types (combination of verification) at different time. With this setting, users must perform several verifications during specific time range at the device to gain access.



1. Click [Verify Type](#) from left panel.
2. Click [Add Verify Type](#).
3. Name the [Verify Type](#), for example FP + Password.
4. Select [Name](#) (You can select from Time Range 1 to Time Range 50).
5. Define the [start and end time](#) applicable for this verification method.
6. Select [Verify Type](#).
7. Click [Add](#).
8. Repeat steps above if you want to add new verification types into the group.
9. Click [Save](#) to save settings.
10. Click [Transfer to Device](#) to synchronize settings to terminals.
11. Click [Door](#) tab.
12. Click [Add](#) to select doors applicable for this verification method.
13. Click [Save](#) to save settings.
14. Click [Transfer to Device](#) to synchronize settings to device.

# Monitoring

This chapter guides you to monitor door activities using Ingress via several methods.

Monitoring door activities is very important in access control software. Devices need to send any abnormal door activities to Ingress immediately via TCP/IP or RS485 connection, making it crucial to secure the network between Ingress and all devices. Door sensors must also be installed to link up to all devices. The door sensor is a magnetic switch that works as the 'watchdog' of every door. Monitoring cannot work without a door sensor installed to the door and device.

Ingress offers 2 types of monitoring methods. You can either monitor activities door-by-door or by visual floor map. It is recommended to import the floor plan of your workplace into Ingress as a visual map. You can drag-and-drop every door on the visual map for easy monitoring.

You can customize the types of events to be displayed on Ingress. There are a total of 48 types of event for Ingressus and 14 types for standalone device. Any abnormal incidents reported to Ingress will be published onscreen in different colors. You can enable sound alerts in Ingress to alert you when abnormal activities are detected.

Ingress can also send emails immediately to dedicated users to report any abnormal activity. Configure the SMTP email server settings to allow Ingress to send notification emails.

Furthermore, you can incorporate monitoring process with IP camera (Milestone or Epi-Camera). Ingress can stream to playback the footage from your video surveillance software to give you a visual of the scene.

## Monitoring by Door or Zone

The screenshot displays the 'Monitoring' window in Ingress. On the left is a tree view of 'Doors' including Store room 1, Factory, Main entrance, 1st floor, Inventory, Ingressus II - R&D office, and Ingressus II - Equipment office. The main area shows 'Door/Zone Monitoring' with buttons for 'Open Door', 'Close Door', 'Door Alarm Reset', and 'Show Live View'. Below these are icons for various door types: Factory, Main entrance, 1st floor, Inventory, Store, Ingressus II - R&D office, and Ingressus II - Equipment. A table at the bottom lists monitoring events.

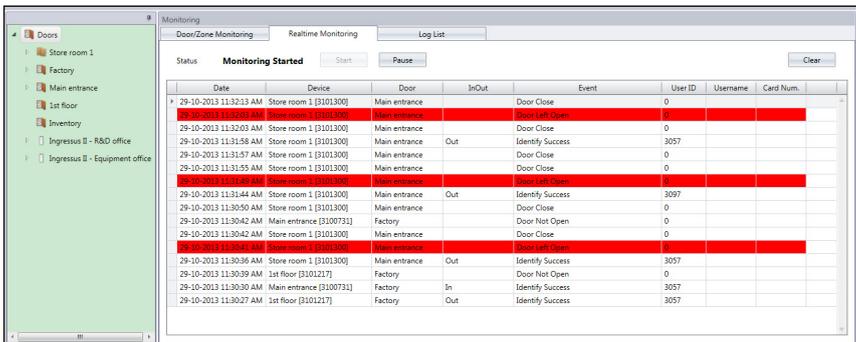
Date	Device	Door	In/Out	Event	User ID	Username	Card Num.
29-10-2013 11:30:50 AM	Store room 1 [11013000]	Main entrance		Door Close	0		
29-10-2013 11:30:42 AM	Main entrance [11007311]	Factory		Door Not Open	0		
29-10-2013 11:30:42 AM	Store room 1 [11013000]	Main entrance		Door Close	0		
29-10-2013 11:30:30 AM	Main entrance [11007311]	Main entrance		Door Not Open	0		
29-10-2013 11:30:36 AM	Store room 1 [11013000]	Main entrance	Out	Identify Success	3057		
29-10-2013 11:30:39 AM	1st floor [11012117]	Factory		Door Not Open	0		
29-10-2013 11:30:30 AM	Main entrance [11007311]	Factory	In	Identify Success	3057		
29-10-2013 11:30:27 AM	1st floor [11012117]	Factory	Out	Identify Success	3057		

Open the **Monitoring** tab to see all doors displayed on screen. Ingress displays the details of a door when you move your cursor on top of it. Click the door group at the left panel to see doors assigned under this door group.

Each door icon represents the current status of the doors. See the details below:

Door icon	Represents
	Devices paired with door are working online. Everything is normal.
	Connection to the devices of this door is lost. Requires immediate action to check the devices.
	No devices were added to this door. Make sure you added devices into the list and add devices to the door.
	Door is incorporated with IP camera. You can watch live view to monitor this door.
	Door alarm trigger due to door force open or door not close. Requires immediate action to check the door.

The bottom of the screen displays all activities sent from all devices. You can see IN-OUT records of all users, door activities and alarm trigger.



The screenshot shows a software interface for monitoring doors. On the left is a tree view of the facility layout including Store room 1, Factory, Main entrance, 1st floor, Inventory, Ingressus II - R&D office, and Ingressus II - Equipment office. The main window is titled 'Monitoring' and contains a 'Monitoring Started' status bar with 'Start' and 'Pause' buttons. Below this is a table of activity logs.

Date	Device	Door	In/Out	Event	User ID	Username	Card Num.
29-10-2013 11:32:13 AM	Store room 1 [3101200]	Main entrance		Door Close	0		
29-10-2013 11:32:13 AM	Store room 1 [3101200]	Main entrance		Door Not Open	0		
29-10-2013 11:32:03 AM	Store room 1 [3101300]	Main entrance		Door Close	0		
29-10-2013 11:31:58 AM	Store room 1 [3101300]	Main entrance	Out	Identify Success	3057		
29-10-2013 11:31:57 AM	Store room 1 [3101300]	Main entrance		Door Close	0		
29-10-2013 11:31:55 AM	Store room 1 [3101300]	Main entrance		Door Close	0		
29-10-2013 11:31:44 AM	Store room 1 [3101300]	Main entrance	Out	Identify Success	3097		
29-10-2013 11:30:50 AM	Store room 1 [3101300]	Main entrance		Door Close	0		
29-10-2013 11:30:42 AM	Main entrance [3100731]	Factory		Door Not Open	0		
29-10-2013 11:30:42 AM	Store room 1 [3101300]	Main entrance		Door Close	0		
29-10-2013 11:30:36 AM	Store room 1 [3101300]	Main entrance	Out	Identify Success	3057		
29-10-2013 11:30:39 AM	1st floor [3101217]	Factory		Door Not Open	0		
29-10-2013 11:30:30 AM	Main entrance [3100731]	Factory	In	Identify Success	3057		
29-10-2013 11:30:27 AM	1st floor [3101217]	Factory	Out	Identify Success	3057		

## Remote Settings

You can control all doors remotely from Ingress. You can control door open/close or reset the door alarm.

### To open/close door remotely:

1. Select door from [Door/Zone Monitoring](#).
2. Click [Open Door](#) or [Close Door](#).

**Note:** Click [Close Door](#) to force device/Ingressus to activate door lock system immediately.

### To reset door alarm:

1. Select door from [Door/Zone Monitoring](#).
2. Click [Door Alarm Reset](#).

**Note:** Door Alarm Reset only works when the door alarm is activated.

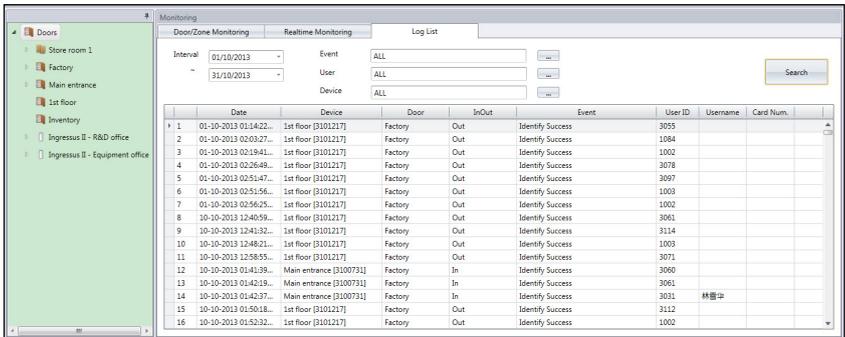
## Monitoring Settings

Ingress starts monitoring processes automatically when you start this page. You can choose to stop the process by clicking the **Pause Monitoring** button.

Ingress triggers your PC or laptop's onboard speaker to alert you in case of abnormal activities. You can press **Stop Alert Sound** button to acknowledge the alert notification.

## Real-time monitoring

The **Realtime Monitoring** page displays all records from all devices. You can see every record line-by-line. You can pause the process if you want to focus on certain records. Click **Start** button to resume the process.



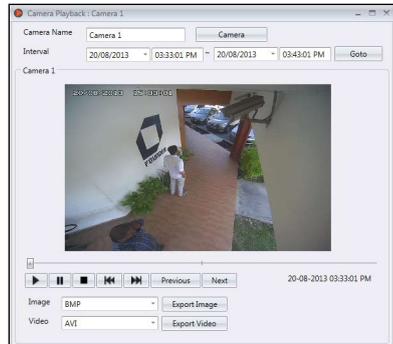
The screenshot shows the 'Monitoring' window with the 'Realtime Monitoring' tab selected. It features a search bar and a table of event logs. The table columns are Date, Device, Door, In/Out, Event, User ID, Username, and Card Num. The events listed are 'Identify Success' for various doors like '1st floor (3101217)' and 'Main entrance (3100731)'.

	Date	Device	Door	In/Out	Event	User ID	Username	Card Num.
1	01-10-2013 01:14:22...	1st floor (3101217)	Factory	Out	Identify Success	3055		
2	01-10-2013 02:09:27...	1st floor (3101217)	Factory	Out	Identify Success	1084		
3	01-10-2013 02:19:41...	1st floor (3101217)	Factory	Out	Identify Success	1002		
4	01-10-2013 02:26:49...	1st floor (3101217)	Factory	Out	Identify Success	3078		
5	01-10-2013 02:51:47...	1st floor (3101217)	Factory	Out	Identify Success	3097		
6	01-10-2013 02:51:56...	1st floor (3101217)	Factory	Out	Identify Success	1003		
7	01-10-2013 02:56:25...	1st floor (3101217)	Factory	Out	Identify Success	1002		
8	10-10-2013 12:40:39...	1st floor (3101217)	Factory	Out	Identify Success	3061		
9	10-10-2013 12:41:32...	1st floor (3101217)	Factory	Out	Identify Success	3114		
10	10-10-2013 12:48:21...	1st floor (3101217)	Factory	Out	Identify Success	1003		
11	10-10-2013 12:58:55...	1st floor (3101217)	Factory	Out	Identify Success	3071		
12	10-10-2013 01:41:39...	Main entrance (3100731)	Factory	In	Identify Success	3060		
13	10-10-2013 01:42:19...	Main entrance (3100731)	Factory	In	Identify Success	3061		
14	10-10-2013 03:42:37...	Main entrance (3100731)	Factory	In	Identify Success	3031	林	
15	10-10-2013 01:50:18...	1st floor (3101217)	Factory	Out	Identify Success	3112		
16	10-10-2013 01:52:32...	1st floor (3101217)	Factory	Out	Identify Success	1002		

You will find a camera icon attached with some records. This indicates the door is incorporated with an IP camera. Double-click the record to see live footage from the IP camera.

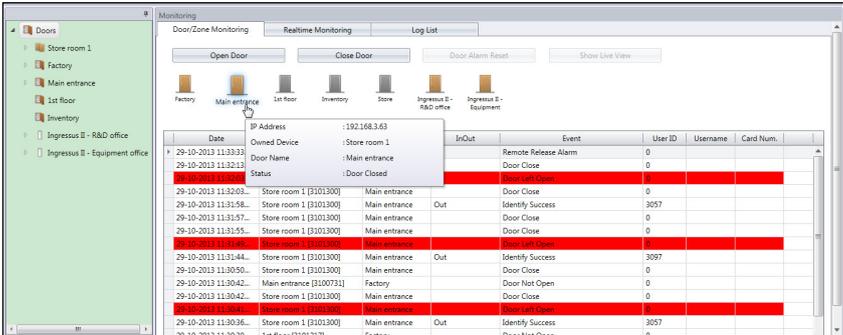
When the door alarm is triggered, Ingress marks the record in red color to alert you. Double-click at the record and Ingress will stream the video footage from the video surveillance software for your reference.

Ingress always retrieves the video 5 minutes before and after the door alarm trigger. You can export the images into digital formats (BMP, JPEG, PNG, GIF, TIFF). You can also export to AVI or MKV video formats too.



## Log List

To search for previous IN-OUT records or alarm records in Ingress, you can check under the Log List tab.

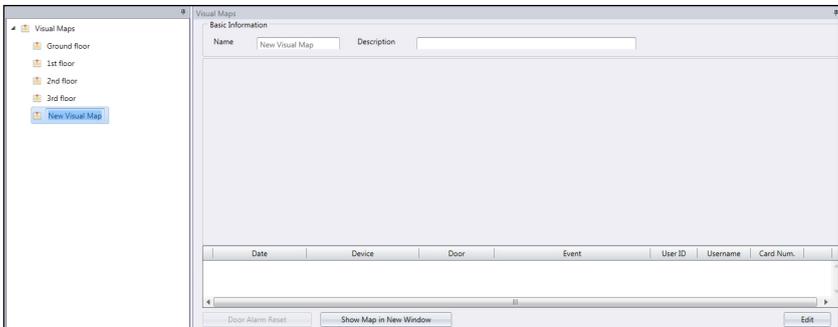


1. Define the **start and end** date to seek records.
2. **Select type** of records needed (event, user, or device).
3. **Specific type** of event, user ID or device ID.
4. Click **Search**.

## Visual Map

You can import floor plans (in JPEG format) into Ingress to be used as visual map. You can drag-and-drop doors into the map for a complete view during monitoring. In case of abnormal door activities, the door will blink together with an alert sound from your PC. You can reset the door alarm as *shown in Chapter 6 • Remote Settings*. You can open/close each door by selecting the door from map, and pressing the **Open Door** or **Close Door** buttons.

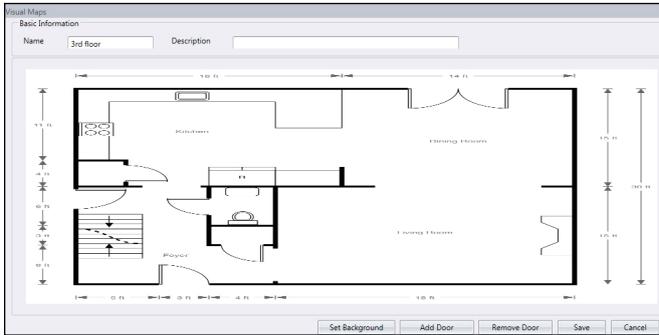
## Add Visual Map and Doors



1. Click **Visual Map** from the left panel.
2. Click **Add Visual Map** to create a new floor plan.
3. **Name** the floor plan, e.g.: 3rd floor.
4. Press **Edit** to start to configure

**Set Background** – To select the floor plan to be used as visual map.

**Add Door** – Select door to be added into the visual map. Drag the door to the correct location on map.



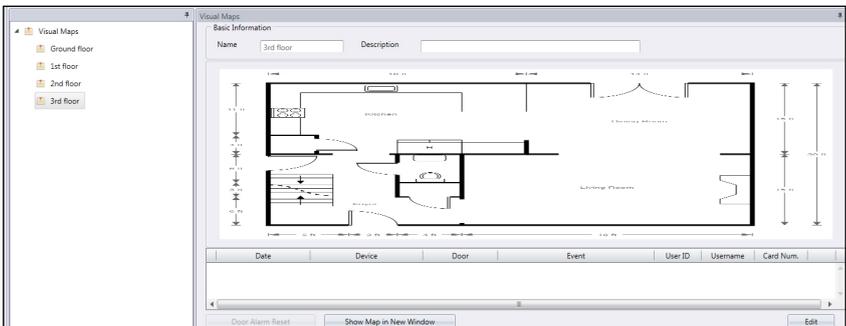
**Remove door** – Select door icon from map and click Remove Door if the door is no longer in use.

5. Click **Save** to save settings.

## Start monitoring process

You can start the monitoring process by clicking **Start Monitoring** on the top menu. Click **Pause Monitoring** if you want to stop the process.

Click **Visual Maps** from the left panel and Ingress will display all maps on the right panel. Click any visual map if you want to have a detailed view to the floor.



Click **Show Map in New Window** and Ingress will display the selected map in an individual window. You can drag the individual map to another display monitor/LCD for all-time monitoring.

# Attendance

This chapter guides you on setting up clocking schedules for the purpose of recording and monitoring attendance and generate an attendance sheet.

Ingress is loaded with comprehensive time and attendance features applicable to different industries. To utilize Ingress' time attendance features efficiently, first is to set up the clocking schedules, which consist of the weekly working timetables, calculation rules for work time and OT. The process is simple, users report attendance at any devices, Ingress downloads records from devices and it processes attendance according to the clocking schedules being set. Maximum number of clocking schedules allowed in Ingress is 999.

## 3 important schedule types readily available to be used in Ingress

- **WEEKLY** - Working schedule that rotates weekly  
This schedule is the most commonly used working schedule worldwide where working days fall on weekdays and offdays fall on weekends.
- **DAILY** - Working schedule that rotates daily  
This schedule is suitable for multiple shifts, overnight shifts, open shifts, rotational shifts, where the work schedules change daily.
- **FLEXI** - Working schedule that does not include any late ins, early outs or overtime.  
This schedule is suitable for groups of workers having flexible working time.

The next important configuration is the group duty roster, also known as the annual working calendar. For a group of users that follow the same working rules, they can be grouped into one single group. Alternatively, you can customize independent calendars to match specific users under User Duty Planner. Each group of duty roster follows one clocking schedule only and Ingress offers a total of 999 group duty rosters to configure.

Configure various types of leave in Ingress. The leaves will be recorded in Attendance Sheet and a remark column is available for administrator to flag irregular records. A user can also notify the management of any irregularity in attendance by the use of work codes. During verification of attendance at any device, users can insert work codes as an explanation for his/her irregular attendance records.

# Weekly Schedules

## Clocking Rules

Attendance

Basic Information

Schedule ID \* 1 Name \* Normal working hours Work Schedule Weekly Description

Clocking Time Clocking Range General Rounding Break Overtime

Instruction

Weekday	Day Type	In	Break	Resume	Out	OT	Done
Sunday	Restday						
Monday	Workday	09:00 AM	01:00 PM	02:00 PM	06:00 PM	07:00 PM	10:00 PM
Tuesday	Workday	09:00 AM	01:00 PM	02:00 PM	06:00 PM	07:00 PM	10:00 PM
Wednesday	Workday	09:00 AM	01:00 PM	02:00 PM	06:00 PM	07:00 PM	10:00 PM
Thursday	Workday	09:00 AM	01:00 PM	02:00 PM	06:00 PM	07:00 PM	10:00 PM
Friday	Workday	09:00 AM	01:00 PM	02:00 PM	06:00 PM	07:00 PM	10:00 PM
Saturday	Restday						

Round to nearest minutes :- 5 5 5 5 5 5

Rounding:- Up - Up - Up - Up - Up - Up -

Allow grace period in minutes :- 10 10 10 10

Flexible break time in minutes :-

Exclude break time from working hour :-

Save Cancel

Clocking refers to an activity of someone clocking in or clocking out from a timeclock terminal. Ingress offers 6 attendance clocking columns in 3 pairs.

1. Click [Clocking Schedule](#) under the left panel.
2. Click [Add Clocking Schedule](#).
3. [Insert ID](#) to represent the schedule (range from 1 to 999).
4. [Name](#) the schedule, e.g.: Normal hours from 9am to 6pm.
5. Select [Weekly](#) under [Work Schedule](#).
6. Fill in description to remark the schedule, e.g.: Applicable to all executive level.
7. Click [OK](#).

<b><i>In-Out</i></b>	This pair is very important as it displays the first record of a user in the <b>IN</b> column and the last record in the <b>Out</b> column.
<b><i>Break-Resume</i></b>	This column records the start of the first break time in the <b>Break</b> column and the end time of the first break in the <b>Resume</b> column. This column is not compulsory; leave it if you don't wish to view the break-resume records.

<i>OT-Done</i>	<p>This column records the start time for overtime in <a href="#">OT column</a> and the end time of overtime in <a href="#">Done column</a>.</p> <p>This column is also not compulsory. Leave these columns if your company does not require users to start and end OT at specific times. Leave these column blanks and Ingress will automatically calculate overtime if an employee logged out after the standard Out time.</p> <p>In case your company takes 2 breaks a day, you can treat Out time as the start of the second break and OT time as the end time of the second break. This way, overtime will only be calculated if an employee logged out after the standard Done time.</p>
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## 8. Define standard time to report

Learn about clocking pairs in the table below.

1. **Rounding & Round to the Nearest Minute** - At every clocking column, you can set the “Round to the Nearest Minutes” according to your company’s policy. Refer to the table below as your guide to Round times.

*Round up:* If you choose to round up 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:15am

*Round down:* If you choose to round down 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:00am.

*Round mid-point:* If you choose to take a midpoint of 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:07am

2. **Allow Grace Period in minutes** - This also depends on your company’s policy, whether it allows attendance late in or early out? You can set the duration of grace period in minutes in the given columns under each slot, if you want to define the grace period or you can leave them blank if the company does not allow any grace period.
3. **Flexible break time** - This feature allows a company to set a certain duration allowed for breaks for example from 12:30pm to 2:30pm. During this break time, employees are free to take their break hour but they have to be mindful of the preset limit. If the company set the break duration to 1 hour only, an employee who takes a break at 1:00pm must be back at the office by 2:00pm and those who take a break at 12:45pm, their break ends at 1:45pm. If an employee exceeds the given time, Ingress will leave a remark on the attendance data. Disregard this feature if it is not applicable to your company.
4. **Exclude break time from working hour** - Check the box if your company deducts break time from the total work time. Ignore this feature if it is not applicable.
5. Click **OK** to save settings.

## Range Rules

Attendance

Basic Information

Schedule ID \* 1 Name \* Normal working hours Work Schedule Weekly Description

Clocking Time Clocking Range General Rounding Break Overtime

Optional: You may specify a max time that a particular clocking falls in that time slot

Weekday	Day Type	In	Break	Resume	Out	OT	Done
Sunday	Restday						
Monday	Workday						
Tuesday	Workday						
Wednesday	Workday						
Thursday	Workday						
Friday	Workday						
Saturday	Restday						

Replace with latest clocking :-

Range is to determine the maximum time that one slot could record before it is considered as the time for the corresponding slot. For example, if a value for IN is 12:00 and when a staff clocks in at 12:01, the time will be recorded in Break column instead of in the IN column. When you set the range for OUT is at 6:00, any time that falls after 6:00 will be recorded on the next column which is OT column. You need to set the time for the clocking range of the clocking columns.

**Replace with the latest clocking** –When you click this checker, Ingress will replace the clocking data with the latest clocking data after the download process is done.

**\* RECOMMENDATION:** Select this checker for OUT and DONE columns only because software will always check the latest OUT time of users and will publish it on the Attendance Sheet.

If you tick Replace with latest clocking checkbox at the IN column, the Attendance Sheet will display the latest transaction data every time the employee comes in and out of the door.

1. Click **Clocking Range**.
2. Click **Edit**.
3. Configure time into the **Range** columns.
4. Check the box **Replace with latest clocking** for Out and Done columns.

## General Rules

Attendance

Basic Information

Schedule ID \* 1 Name \* Normal working hours Work Schedule Weekly Description

Clocking Time Clocking Range General Rounding Break Overtime

Work time record into OT and Done column considered as:-  OT  Work Time

Enable/Disable employee define In/Out records:-  Yes

General is to determine whether you want to consider the times that are recorded in OT and DONE columns to be considered as overtime or as normal working time. Click the appropriate radio button to determine your choice. If you choose as OT, the extra time will be calculated in the overall time of the staff that is using this clocking schedule.

You can also determine whether an employee needs to press a key button to define his/her status during clocking. Click the checker if you want to.

## Rounding Rules

The screenshot shows the 'Attendance' configuration window with the 'Rounding' tab selected. The 'Basic Information' section includes fields for Schedule ID (1), Name, Normal working hours, Work Schedule (Weekly), and Description. The 'Rounding' section contains the following settings:

- Round up the work time to nearest (minutes) :- 15, Rounding: Down
- Round up the OT time to nearest (minutes) :- 15, Rounding: Down
- First rounding time range :- 09:00 AM - 09:30 AM, round to: 09:00 AM
- Last rounding time range :- 06:00 PM - 06:30 PM, round to: 06:00 PM

Rounding is to determine the “rounding of minutes” rules allowed in the clocking schedule and the rules will determine the presentation of time in the attendance sheet.

Learn about it in the table below:

### Round the work time to the nearest (minutes)

<p><i>Round Up</i></p>	<p>Work hour is rounded up to the nearest minute and is set to 15, hence all minutes will be rounded up as per below:            1-15 minutes = 15            16-30 minutes = 30            31-45 minutes = 45            46-59 minutes = 1 hour</p>
<p><i>Round Down</i></p>	<p>Work hour is rounded down to the nearest minute and is set to 15, all minutes will be rounded down as per below:            1-15 minutes = 0            16-30 minutes = 15            31-45 minutes = 30            46-59 minutes = 45</p>
<p><i>Round Midpoint</i></p>	<p>Once you insert a value here, the software will calculate the value’s midpoint. For example if you set the value at 15 min, the midpoint would be at 7 min. The clocking schedule’s IN time is 9.00am and the midpoint is 7 min.</p> <p>If the user verifies in less than 7 minutes after the IN time, for example 9.07 a.m., the software will round down the transaction data to be displayed as 9.00am. If the user verifies more than 7 minutes after the IN time, the software will round up the transaction data to be displayed as 9.15 a.m.</p>

## Round up or round down the OT time to the nearest (minutes)

<b>Round Up</b>	<p>OT is rounded up to the nearest minute and is set to 15, all minutes will be rounded up as per below:</p> <p>1-15 minutes = 15          16-30 minutes = 30          31-45 minutes = 45          46-59 minutes = 1 hour</p>
<b>Round Down</b>	<p>OT is round down to the nearest minute and is set to 15, all minutes will be rounded down as per below:</p> <p>1-15 minutes = 0          16-30 minutes = 15          31-45 minutes = 30          46-59 minutes = 45</p>
<b>Round Midpoint</b>	<p>Once you insert a value here, the software will calculate the value's midpoint. For example if you set the value at 30 min, the midpoint would be 15 min. The clocking schedule's OT time is 6.00pm and the midpoint is 15 min.</p> <p>If the user verifies in less than 15 minutes after the OT time, for example 6.15pm, the software will round down the transaction data to be displayed as 6.00pm. If the user verifies more than 15 minutes after the IN time, the software will round up the transaction data to be displayed as 6.30pm.</p>

**First rounding time range** - This function is entitled for the In time only. You can round the In time into your preferred time. *For example:* any transaction between 9:01 am – 9:15am will be rounded as 9:00am

**Last rounding time range** - This function is entitled for the Out time only. You can round the Out time into your preferred time. For example: any transaction between 5:01pm to 5:15pm will be rounded as 5:00pm

## Break Rules

Attendance

Basic Information

Schedule ID \* 1 Name \* Normal working hours Work Schedule Weekly Description

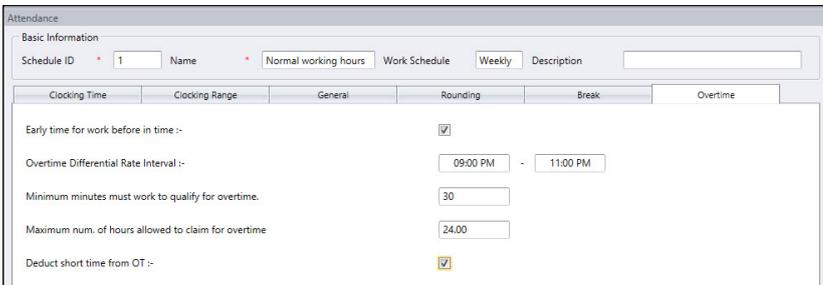
Clocking Time	Clocking Range	General	Rounding	Break	Overtime
Do not deduct any lunch time if the employee works half day only.			<input checked="" type="checkbox"/>	Compulsory	
Do you want to apply Auto Add Break Rule when you include lunch/dinner time?			<input checked="" type="checkbox"/>		
Do you want to include lunch/dinner time into overtime hour?			<input checked="" type="checkbox"/>		
Do you want to deduct extra lunch/dinner time from working hour?			<input checked="" type="checkbox"/>	(Please disable Exclude break time from working hour before using this feature)	
Deduct no. of hours for break time from overtime hour			<input type="text" value="1.00"/>	if overtime exceeded	<input type="text" value="4.00"/>

Break is to determine the rules for break time allowed in the clocking schedule and the rules will determine the presentation of time in the attendance sheet.

Learn the break rules from the table below:

<a href="#">Do not deduct any lunch time if employee works half day only</a>	If this is the rule of your company, please click on the checker. Leave it if it's not applicable to your company.
<a href="#">Do you want to Apply Auto Add Break Rule when you include lunch/dinner break?</a>	Tick the checker if you want to apply the rule. It means that the remaining lunch/dinner time will be added into the work time. This is to add the work time for the users who work during their lunch/dinner break.
<a href="#">Do you want to include lunch/ dinner time into overtime hours?</a>	Tick the checker if you want to include the unfinished break time into overtime hours. This is to add overtime for the employee who work during their lunch/dinner break
<a href="#">Do you want to deduct extra lunch/dinner time from working hour?</a>	Tick the checker if you want to limit the break time to only the permitted hour by the company; any extra minutes taken will be deducted from the total work hours.
<a href="#">Deduct no. of hours for break time from overtime hour</a>	If you want to deduct the break time from the overtime, define number of hours that should be deducted if the overtime hour taken exceeds a certain value.

## Overtime Rules



Attendance

Basic Information

Schedule ID \* 1 Name \* Normal working hours Work Schedule Weekly Description

Clocking Time Clocking Range General Rounding Break Overtime

Early time for work before in time :-

Overtime Differential Rate Interval :- 09:00 PM - 11:00 PM

Minimum minutes must work to qualify for overtime. 30

Maximum num. of hours allowed to claim for overtime 24.00

Deduct short time from OT :-

Overtime is to determine the rules for overtime in the weekly clocking schedule you define here. Learn about the rules in the table below:

<a href="#">Early time for work before in time</a>	Sometimes employees come early for overtime for example the overtime starts at 8pm and they arrive at 7pm. If they logged in at 7pm, would you like to count the extra one-hour as overtime? Tick the checker if your company allows this rule.
<a href="#">Overtime Differential Rate Interval</a>	There is some overtime sessions required by a company on as-and when basis. Define the IN and OUT time for this specific overtime sessions.

Minimum minutes must work to qualify for overtime	Sometimes a staff would work only for a few minutes and considered it as an OT; define the minimum minutes required by the company for a staff to work in order for him/her to qualify for an OT claim.
Maximum numbers of hours allowed to claim for overtime	Put a limit to a number of hour a staff could claim for overtime and the default maximum is 24 hours.
Deduct short time from OT	There are cases where an employee has short time in his/her total work hour and he/she is taking overtime. If the company wants to replace the short time on his/her total work hour from the OT taken, tick the checker.

## The Daily schedule

The Daily Clocking Schedule is only available when you add new schedule and select “Daily” from Work Schedule type. Daily clocking schedule is applicable for daily basis schedule.

This is suitable for multiple shifts, overnight shifts, open shifts, rotational shifts, etc where the work schedule changes everyday. There are 6 tabs that you set for weekly clocking schedules.

1. Click [Clocking Schedule](#) under the left panel.
2. Click [Add Clocking Schedule](#).
3. [Insert ID](#) to represent the schedule (range from 1 to 999)
4. [Name](#) the schedule, e.g.: Normal hours 9am to 6pm.
5. Select Daily under [Work Schedule](#) .
6. Fill in description to remark the schedule, e.g.: apply to all facotyr workers.
7. Click [OK](#).

## Clocking Rules

Attendance

Basic Information

Schedule ID \* 2 Name \* Morning shift Work Schedule Daily Description Daily

Clocking Time Clocking Range General Rounding Break Overtime

Instruction

Weekday	Day Type	In	Break	Resume	Out	OT	Done
		09:00 AM	01:00 PM	02:00 PM	04:00 PM	05:00 PM	11:00 PM
Round to nearest minutes :-		5	5	5	5	5	5
Rounding:-		Up	Up	Up	Up	Down	Down
Allow grace period in minutes :-		10	10	10	10		
Flexible break time in minutes :-							
Exclude break time from working hour :-		<input checked="" type="checkbox"/>				<input type="checkbox"/>	

Clocking refers to the time someone clocks in and clocks out from timeclock terminals.

Ingress offers 6 attendance columns in 3 pairs. There are 6 clocking columns to be defined

in the Daily Clocking Schedule. When you define the clocking time(s) in the clocking slots, Ingress would accept the time and place them into the appropriate clocking columns. For example, if you put 9:00 a.m. as the IN time, whoever that clocks in at 9:00a.m., the clocking time will be in IN column.

Define standard time to report:

<i>In-Out</i>	This pair is very important as it shows the first (In column) and last records (Out column)
<i>Break-Resume</i>	This column records the start of the first break time in the Break column and the end time of the first break in the Resume column. This column is not compulsory; leave it if you don't wish to view the break-resume records.
<i>OT-Done</i>	This column records the start time for overtime in OT column and the end time of overtime in Done column. This column is also not compulsory. Leave these columns if your company does not require users to start and end OT at specific times. Leave these column blanks and Ingress will automatically calculate overtime if an employee logged out after the standard Out time. In case your company takes 2 breaks a day, you can treat Out time as the start of the second break and OT time as the end time of the second break. This way, overtime will only be calculated if an employee logged out after the standard Done time.

1. **Rounding & Round to the Nearest Minute** - At every clocking column, you can set the "Round to the Nearest Minutes" according to your company's policy. Refer to the table below as your guide to Round times.

*Round up:* If you choose to round up 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:15am

*Round down:* If you choose to round down 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:00am.

*Round mid-point:* If you choose to take a midpoint of 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:07am

2. **Allow Grace Period in minutes** - This also depends on your company's policy, whether it allows attendance late in or early out? You can set the duration of grace period in minutes in the given columns under each slot, if you want to define the grace period or you can leave them blank if the company does not allow any grace period.
3. **Flexible break time** - This feature allows a company to set a certain duration allowed for breaks for example from 12:30pm to 2:30pm. During this break time, employees are free to take their break hour but they have to be mindful of the preset limit. If the company set the break duration to 1 hour only, an employee who takes a break at 1:00pm must be back at the office by 2:00pm and those who take a break at 12:45pm, their break ends at 1:45pm. If an employee exceeds the given time, Ingress will leave a remark on the attendance data. Disregard this feature if it is not applicable to your company.

4. **Exclude break time from working hour** - Check the box if your company deducts break time from the total work time. Ignore this feature if it is not applicable.
5. Click **OK** to save settings.

## Range Rules

Attendance

Basic Information

Schedule ID \* 2 Name \* Morning shift Work Schedule Daily Description Daily

Clocking Time Clocking Range General Rounding Break Overtime

Optional: You may specify a max time that a particular clocking falls in that time slot

Weekday	Day Type	In	Break	Resume	Out	OT	Done
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Replace with latest clocking :-

Qualify minutes before shift starts for rotational shift only :-

### Clocking Range

Specify the time to be considered as a certain clocking time before it is recorded as the corresponding clocking time. For example, if you specify the clocking range for IN as 12:00 p.m., any clocking activities that fall before 12:00 p.m. will be recorded as IN and the clocking after 12:00 will be recorded as Break.

### Latest Clocking

Clicking on this checker will configure the system to record only the most recent clocking transaction within a clocking range. For example, if your official OUT time is at 6:00 p.m. and you leave at 6:05 p.m., comes in again at 6:10 p.m. and checks out again at 6:15 p.m., as long as the time falls under the clocking range of that time slot, the software will take the most recent clocking time to be recorded in your attendance record which is 6:15 p.m. However, it is NOT recommended to click on the checker on the first four columns of IN, BREAK, RESUME, and OT.

**NOTE:** It is recommended that you only apply this rule for OUT and DONE only because these two clocking columns should be recording your latest time for the clocking activities.

Daily clocking schedule could be used as schedules for rotational shifts. You can specify the **qualified minutes before the shift starts**. Rotational shift means that a work schedule with hours that change at prescribed intervals.

**For example** a person may work for four days from 8:00 a.m. to 4:00 p.m., continued with four days from 4:00 p.m., to midnight, and followed by four days from midnight to 8:00 a.m. The cycle is then repeated.

## General Rules

General is to determine whether you want to consider the times that are recorded in OT and DONE column to be considered as overtime or as normal working time. Click the appropriate button. If you click as **OT**, the time will be calculated in the overall time of the staff that is using this clocking schedule. If you click **Normal work time**, the OT will not be calculated even though the staff works passed that time.

You can also determine whether an employee needs to press a key button to define his/her status during clocking. Click **Yes** if you want to.

## Rounding Rules

Rounding is to determine the “rounding of minutes” rules allowed in the clocking schedule and the rules will determine the presentation of time in the attendance sheet. Learn about it in the table below.

### Round the work time to the nearest (minutes)

<b>Round Up</b>	<p>Work hour is rounded up to the nearest minute and is set to 15, hence all minutes will be rounded up as per below:</p> <p>1-15 minutes = 15          16-30 minutes = 30          31-45 minutes = 45          46-59 minutes = 1 hour</p>
-----------------	--

<i>Round Down</i>	<p>Work hour is rounded down to the nearest minute and is set to 15, all minutes will be rounded down as per below:</p> <p>1-15 minutes = 0  16-30 minutes = 15  31-45 minutes = 30  46-59 minutes = 45</p>
<i>Round Midpoint</i>	<p>Once you insert a value here, the software will calculate the value's midpoint. For example if you set the value at 15 min, the midpoint would be at 7 min. The clocking schedule's IN time is 9.00am and the midpoint is 7 min.</p> <p>If the user verifies in less than 7 minutes after the IN time, for example 9.07 a.m., the software will round down the transaction data to be displayed as 9.00am. If the user verifies more than 7 minutes after the IN time, the software will round up the transaction data to be displayed as 9.15 a.m.</p>

### Round up or round down the OT time to the nearest (minutes)

<i>Round Up</i>	<p>OT is rounded up to the nearest minute and is set to 15, all minutes will be rounded up as per below:</p> <p>1-15 minutes = 15  16-30 minutes = 30  31-45 minutes = 45  46-59 minutes = 1 hour</p>
<i>Round Down</i>	<p>OT is round down to the nearest minute and is set to 15, all minutes will be rounded down as per below:</p> <p>1-15 minutes = 0  16-30 minutes = 15  31-45 minutes = 30  46-59 minutes = 45</p>
<i>Round Midpoint</i>	<p>Once you insert a value here, the software will calculate the value's midpoint. For example if you set the value at 30 min, the midpoint would be 15 min. The clocking schedule's OT time is 6.00pm and the midpoint is 15 min.</p> <p>If the user verifies in less than 15 minutes after the OT time, for example 6.15pm, the software will round down the transaction data to be displayed as 6.00pm. If the user verifies more than 15 minutes after the IN time, the software will round up the transaction data to be displayed as 6.30pm.</p>

**First rounding time range** - This function is entitled for the In time only. You can round the In time into your preferred time. For example: any transaction between 9:01 am – 9:15am will be rounded as 9:00am

**Last rounding time range** - This function is entitled for the Out time only. You can round the Out time into your preferred time. For example: any transaction between 5:01pm to 5:15pm will be rounded as 5:00pm

## Break Rules

Attendance

Basic Information

Schedule ID \* 2 Name \* Morning shift Work Schedule Daily Description Daily

Clocking Time	Clocking Range	General	Rounding	Break	Overtime
Do not deduct any lunch time if the employee works half day only.		<input checked="" type="checkbox"/> Compulsory			
Do you want to apply Auto Add Break Rule when you include lunch/dinner time?		<input checked="" type="checkbox"/>			
Do you want to deduct extra lunch/dinner time from working hour?		<input checked="" type="checkbox"/>			
Do you want to include lunch/dinner time into overtime hour?		<input checked="" type="checkbox"/>			
Deduct no. of hours for break time from overtime hour		1.00 if overtime exceeded		4.00	

Break is to determine the rules for break time allowed in the clocking schedule and the rules will determine the presentation of time in the attendance sheet.

Learn about it in the table below.

Do not deduct any lunch time if employee works half day only	If this is the rule of your company, please click on the checker. Leave it if it's not.
Do you want to Apply Auto Add Break Time when include lunch/dinner break?	Click Yes if you want to apply the rule, which means that the remaining lunch/dinner time will be added into work time. This is to add the work time for the users who work during their lunch/dinner break.
Do you want to deduct extra lunch/dinner time from working hour?	Click Yes if you want to limit the break time to only the permitted hour by the company; any extra minutes taken will be deducted from the total work hours.
Do you want to include lunch/dinner time into overtime hour?	Since dinner usually exceeds OUT time, click Yes if you want to include the dinner time into the overtime hour. Leave it if the company's policy does not allow that.
Deduct no. of hours for break time from overtime hour	If you want to deduct the break time from the overtime, define number of hours that should be deducted if the overtime hour taken exceeds a certain value.

**Note:** Specify the rules based on your company's policy. Leave them blank if it's not applicable to your environment.

## Overtime Rules

Attendance							
Basic Information							
Schedule ID *	2	Name *	Morning shift	Work Schedule	Daily	Description	Daily
Clocking Time	Clocking Range	General	Rounding	Break	Overtime		
Early time for work before in time :-			<input checked="" type="checkbox"/>				
Overtime Differential Rate Interval :-			09:00 PM	-	11:00 PM		
Minimum minutes must work to qualify for overtime.			30				
Maximum num. of hours allowed to claim for overtime			24.00				
Deduct short time from OT :-			<input checked="" type="checkbox"/>				

Overtime is to determine the rules for overtime in the weekly clocking schedule you define here.

Learn about the rules in the table below.

<a href="#">Early time for work before In time</a>	Sometimes employees come early for overtime for example the overtime starts at 8pm and they arrive at 7pm. If they logged in at 7pm, would you like to count the extra one-hour as overtime? Tick the checker if your company allows this rule.
<a href="#">Overtime Differential Rate Interval</a>	There is some overtime sessions required by a company on as-and-when basis. Define the IN and OUT time for this specific overtime sessions.
<a href="#">Minimum minutes must work to qualify for overtime</a>	Sometimes a staff would work only for a few minutes and considered it as an OT; define the minimum minutes required by the company for a staff to work in order for him/her to qualify for an OT claim.
<a href="#">Maximum numbers of hours allowed to claim for overtime</a>	Put a limit to a number of hour a staff could claim for overtime and the default maximum is 24 hours.
<a href="#">Deduct short time from OT</a>	<p>There are cases where an employee has short time in his/her total work hour and he/she is taking overtime. If the company wants to replace the short time on his/her total work hour from the OT taken, tick the checker.</p> <p>The overtime rules set in the schedule will be applied to any group that is under this schedule. All rules and calculations will reflect in the attendance sheet of the staff involved in this clocking schedule.</p>

# The Flexi Schedule

The screenshot shows the 'Attendance' system interface. At the top, there is a 'Basic Information' section with fields for 'Schedule ID' (value: 3), 'Name' (value: Flexi), 'Work Schedule' (value: Flexi), 'Description' (value: Flexi), and a 'Flexi' checkbox. Below this are tabs for 'Clocking Time', 'General', 'Rounding', 'Break', and 'Overtime'. The 'Clocking Time' tab is active, showing an 'Instruction' table with columns for 'Weekday', 'Day Type', and two pairs of 'In' and 'Out' columns. The table rows are: Sunday (Restday), Monday (Workday), Tuesday (Workday), Wednesday (Workday), Thursday (Workday), Friday (Workday), and Saturday (Workday). Below the table are input fields for 'Round to nearest minutes :-' (value: 10) and 'Rounding:-' (options: Up, Up, Up, Up, Down, Down). A checkbox for 'Rounding for first-in and last-out for job costing only.' is present. At the bottom, there are input fields for 'Flexible break time in minutes :-' (value: 60).

Flexi Clocking Schedule is a working schedule that does not include any late-ins, early outs or overtime. This is suitable for groups of workers where their working time is not fixed.

1. Click [Clocking Schedule](#) under the left panel.
2. Click [Add Clocking Schedule](#).
3. [Insert ID](#) to represent the schedule (range from 1 to 999)
4. [Name](#) the schedule, e.g.: Normal hours 9am to 6pm.
5. Select Flexi under [Work Schedule](#)
6. Fill in description to remark the schedule, e.g.: apply to all executive level.
7. Click [OK](#).

## Clocking Rules

Clocking refers to the time someone clocks in and clocks out from a terminal. However flexi schedule does not apply any fix time to report attendance. You can ignore the 6 clocking slots.

1. Define the day type for every row.
2. [Rounding & Round to nearest minute](#): At every clocking column, you can determine the Round to nearest minutes which means that the attendance recorded will be rounded to the nearest minutes as specified in the field. Examples of Rounding:

**Round up:** If you choose to round up 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:15am

**Round down:** If you choose to round down 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:00am.

**Round mid-point:** If you choose to take a midpoint of 15 minutes, when an employee clocks in at 9:06am, his IN time will be recorded as 9:07am

### 3. Flexible break time

- This feature allows a company to set a certain duration allowed for breaks for example from 12:30pm to 2:30pm. During this break time, employees are free to take their break hour but they have to be mindful of the preset limit. If the company set the break duration to 1 hour only, an employee who takes a break at 1:00pm must be back at the office by 2:00pm and those who take a break at 12:45pm, their break ends at 1:45pm. If an employee exceeds the given time, Ingress will leave a remark on the attendance data. Disregard this feature if it is not applicable to your company.
- There is a button where you can choose to apply Rounding for first-in and last-out for the purpose of job costing. Leave it blank if you do not wish to use this rule in your attendance data.
- Click **OK** to save settings.

## General Rules

The screenshot shows the 'Attendance' configuration window. The 'Basic Information' section includes fields for Schedule ID (3), Name (Flexi), Work Schedule (Flexi), and Description (Flexi). Below this are tabs for 'Clocking Time', 'General', 'Rounding', 'Break', and 'Overtime'. The 'General' tab is active, showing several settings:

- 'Please specify the maximum number of in-out clocking pairs for this flexi-hour schedule' is set to 3.
- 'Enable/Disable employee define In/Out records (Employee press key button to define status during attendance reporting)' is unchecked (Yes).
- 'Enable/Disable employee define work code for job costing records' is checked (Yes).
- 'Maximum work hours to be considered as the same work day' is an empty field.
- 'Separation hours between an out clocking and subsequent in clocking to qualify for next day (i.e. break time)' is an empty field.
- 'Last log out time to consider as same work day (Recommended for the last log out time after 00:00/12:00 AM)' is set to 04:00 AM.
- 'Double punch for consecutive clocking in a clocking slot if it is within minutes of' is set to 15.

There are general rules that you need to set to flexi clocking schedules because the employee who are going to use this schedule will not adhere to the normal working schedules like weekly and daily schedules.

Learn about the rules of flexi schedule in the table below:

Rules	Descriptions
<a href="#">Please specify the maximum number of in-out clocking pairs for this flexi-hour schedule</a>	The maximum pairing of clocking time in Ingress is 3 (IN-OUT, Break-Resume, OT-DONE). Since flexi-clocking is flexible as the name suggests, you can choose to use only one pairing only or a few. Select your preference accordingly.
<a href="#">Enable/Disable User Define In/Out records</a>	Click Yes if you want the user to press the relevant key button to define status during attendance reporting. Leaving this checker unchecked will prompt the system to accept the clocking times of the user and slot them into the appropriate clocking slots. Click Yes if you want the user to enter his/her workcode to specify his/her tasks in attendance report.

Rules	Descriptions
Enable/Disable User Define work code for job costing records.	Click Yes if you want the user to enter his/her workcode to specify his/her tasks in attendance report
Maximum work hours to consider as same work day	<p>There are cases where an employee reports to work late at night and the working hours are extended until the next day. To avoid this confusion, you need to specify the maximum work hours of an employee for him/her work time to be considered as the same workday.</p> <p>For example if you start work at 10:00 p.m., you can work only 8 hours for the work time to be considered on the same day. Hence, you'll have to clock out at 6a.m.</p>
Separation hours between an out clocking and subsequent in clocking to qualify for next day	<p>Following the rule above, you need to specify the duration in between a clock out and a clock in to qualify an employee for the next day pay.</p> <p>For example, the employee who checks out at 6a.m just now must not check in again immediately and consider it the next day work time. The hour specified here will determine the duration of 'rest' required before the same employee could clock in to work and qualify for the next day work time.</p>
Last log out time to consider as same work day	As being mentioned in the column above, if an employee checks in late at night and the work hour extends to the next day but still is considered the same work day, you need to specify the last log out time that the company allows to consider as the same work day. For example, if you put 9am as the last log out time, the clock in after 9:00 will not be considered as the same day clocking.
Double punch for consecutive clocking in a clocking slot if it's within minutes of	All clocking activities within this predefined time interval will be considered for one time only. For example if the IN time is 9:00am and the time interval is 15 min, any verification done by the same ID within the 15 minutes will be considered as IN time, taking the first time he clocks in.

## Rounding Rules

Attendance

Basic Information

Schedule ID \* 3 Name \* Flexi Work Schedule Flexi Description Flexi

Clocking Time General Rounding Break Overtime

Round up the work time to nearest (minutes) :- 15 Rounding Up -

Round up the OT time to nearest (minutes) :- 15 Rounding Down -

First rounding time range :- 09:00 AM - 09:15 AM round to 09:00 AM

Last rounding time range :- 07:00 PM - 07:15 PM round to 07:00 PM

Rounding is to determine the “rounding of minutes” rules allowed in the clocking schedule and the rules will determine the presentation of time in the attendance sheet.

Learn about it in the table below.

### Round the work time to the nearest (minutes)

<i>Round Up</i>	<p>Work hour is rounded up to the nearest minute and is set to 15, hence all minutes will be rounded up as per below:</p> <p>1-15 minutes = 15          16-30 minutes = 30          31-45 minutes = 45          46-59 minutes = 1 hour</p>
<i>Round Down</i>	<p>Work hour is rounded down to the nearest minute and is set to 15, all minutes will be rounded down as per below:</p> <p>1-15 minutes = 0          16-30 minutes = 15          31-45 minutes = 30          46-59 minutes = 45</p>
<i>Round Midpoint</i>	<p>Once you insert a value here, the software will calculate the value's midpoint. For example if you set the value at 15 min, the midpoint would be at 7 min. The clocking schedule's IN time is 9.00am and the midpoint is 7 min.</p> <p>If the user verifies in less than 7 minutes after the IN time, for example 9.07 a.m., the software will round down the transaction data to be displayed as 9.00am. If the user verifies more than 7 minutes after the IN time, the software will round up the transaction data to be displayed as 9.15 a.m.</p>

### Round up or round down the OT time to the nearest (minutes)

<i>Round Up</i>	<p>OT is rounded up to the nearest minute and is set to 15, all minutes will be rounded up as per below:</p> <p>1-15 minutes = 15          16-30 minutes = 30          31-45 minutes = 45          46-59 minutes = 1 hour</p>
<i>Round Down</i>	<p>OT is round down to the nearest minute and is set to 15, all minutes will be rounded down as per below:</p> <p>1-15 minutes = 0          16-30 minutes = 15          31-45 minutes = 30          46-59 minutes = 45</p>
<i>Round Midpoint</i>	<p>Once you insert a value here, the software will calculate the value's midpoint. For example if you set the value at 30 min, the midpoint would be 15 min. The clocking schedule's OT time is 6.00pm and the midpoint is 15 min.</p> <p>If the user verifies in less than 15 minutes after the OT time, for example 6.15pm, the software will round down the transaction data to be displayed as 6.00pm. If the user verifies more than 15 minutes after the IN time, the software will round up the transaction data to be displayed as 6.30pm.</p>

**First rounding time range** - This function is entitled for the In time only. You can round the In time into your preferred time. For example: any transaction between 9:01 am – 9:15am will be rounded as 9:00am

**Last rounding time range** - This function is entitled for the Out time only. You can round the Out time into your preferred time. For example: any transaction between 5:01pm to 5:15pm will be rounded as 5:00pm

## Break Rules

Break is to determine the rules for break time allowed in the clocking schedule and the rules will determine the presentation of time in the attendance sheet. Learn about it in the table below.

<p><b>Ignore break time</b></p>	<p>Click Yes if you want to deduct break time from the total work time. If you don't click on the checker, the time will be calculated in this formula, the last clocking - the first clocking = work time.</p>
<p><b>Do you want to Apply Auto Add Break Time when include lunch/dinner break?</b></p>	<p>Click Yes if you want to apply the rule it means that the remaining lunch/dinner time will be added into work time. This is to add the work time for the users who work during their lunch/dinner break.</p>
<p><b>Is the break paid? Deduct the whole break after time in minutes</b></p>	<p>Click Yes to include the time taken for lunch/dinner into the total working hour. Leaving it uncheck will deduct the break time from the total working hour. However, you need to specify the maximum break time that an employee can take for his/her break.</p> <p>If it exceeds the break time duration, the additional minutes will be deducted from the total work hours.</p>

Do you want to include lunch/dinner time into overtime?	Click Yes to include break time into overtime.
Do you want to exclude full lunch/dinner if it's greater than allowed?	If you click Yes for this function, when an employee takes a break i.e. lunch or dinner more than the allowed minutes, the whole break minutes will be deducted from the total work time. <i>For example</i> , if the total work time is 8 hours and an employee takes a lunch for 1 hr 30minutes, exceeding 30 minutes from the allowed break time of 1 hour. By doing this, the software will deduct 1 hour from the total work hour of the staff.
Deduct no. of hours for break time from overtime hour ... if overtime exceeded ...	Specify the hour of break time from overtime hour if the overtime hour exceeded the value specified in this column. If you put 1 hour and 8 hours, it means that if an employee takes an overtime of 9 hours, the overtime will be deducted by 1 hour of break time. Therefore, the total overtime is 8 hours.
Deduct no. of hours for break time from flexi hour... if flexi hour exceeded...	Specify the hour of break time from flexi hour if the flexi hour exceeded the value specified in this column. If you put 1 hour and 8 hours, it means that if an employee takes flexi hour of 9 hours, the total time will be deducted by 1 hour of break time. Therefore, the total flexi hour is 8 hours.
Auto add time (in hour format) if flexi work surpasses ...	Specify the hour of break time from flexi hour if the flexi hour exceeded the value specified in this column. If you put 1 hour and 8 hours, it means that if an employee takes flexi hour of 9 hours, the total time will be added by 1 hour of break time. Therefore, the total flexi hour is 10 hours.

**Note:** Specify the rules based on your company's policy. Leave them blank if it's not applicable to your environment.

## Overtime Rules

Attendance				
Basic Information				
Schedule ID	3	Name	Flexi	Work Schedule
			Flexi	Description
				Flexi
Clocking Time	General	Rounding	Break	Overtime
Overtime if total flexi-work hour exceeds workhour of			8.00	
Differential overtime if total flexi-work hour exceeds workhour of			10.00	
Minimum minutes must work to qualify for overtime.			30	
Maximum num. of hours allowed to claim for overtime			24.00	
Overtime and double time for restday work			<input checked="" type="checkbox"/>	

Break is to determine the rules for break time allowed in the clocking schedule and the rules will determine the presentation of time in the attendance sheet.

Learn about it in the table below.

<a href="#">Overtime if total flexi work hour exceeds work hour of</a>	Define the number of hour considered 'normal' working hour for flexi-work for example 8 hours. If an employee exceeds that 8 hours, the next hour and after are considered as overtime.
<a href="#">Differential overtime if total flexi-work hour exceeds work hour of</a>	In some companies, their employees are given a different overtime rate after a certain work period. Define how many hours the employee is required to work before he/she is entitled for different overtime.
<a href="#">Minimum minutes to work to claim OT</a>	Sometimes a staff would work only for a few minutes and considered it as OT; define the minimum minutes required by the company for a staff to work in order to qualify for an OT claim.
<a href="#">Maximum hours to allow to claim OT</a>	Put a limit to a number of hour a staff could claim for overtime and the default maximum is 24 hours.
<a href="#">Overtime &amp; double time for restday work</a>	In some companies, employees are entitled for overtime and double time if they work on a rest day. Tick the checker to enable the employee for the overtime & double time.

**Note:** The overtime rules set in the schedule will be applied to any group that is under this schedule. All rules and calculations will reflect in the attendance sheet of the staff involved in this clocking schedule.

# Setup of Group Duty Roster

Attendance

Basic Information

Group ID \* 2 Name Weekly Roster Weekly Description

Overtime Only After /  Daily Totals  Auto Calc OT  7th Day OT 2014

Open Schedule 1.4.5

Group Duty Roster User

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Jan	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Feb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Mar	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Apr	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
May	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Jun	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Jul	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Aug	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Sep	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Oct	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Nov	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Dec	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

Assign clocking schedules into group duty roster to generate a complete working calendar. Users are assigned into the same group duty roster if they are following the same clocking schedules.

There are 2 types of group duty rosters:

- **WEEKLY** - Group duty roster for weekly basis. This is the most commonly used working rosters worldwide where working days fall on weekdays and offdays fall on weekends.
- **SHIFT** - Working schedule for daily basis. This is suitable for multiple shifts, overnight shifts, open shifts, rotational shifts, etc. where the work schedules change every day.

## Creating Weekly Group Duty Roster

New Roster

Group ID \* 4

Name \* Factory

Roster Weekly

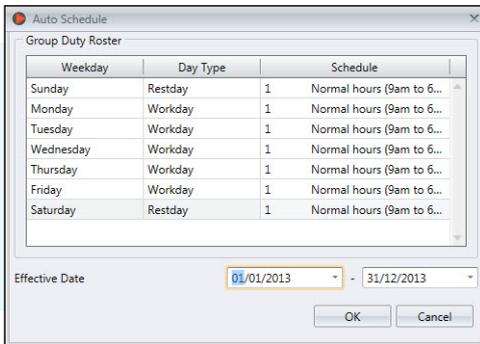
Description

OK Cancel

1. Click **Group Duty Roster** from the left panel.
2. Click **Add Duty Roster**.
3. **Select** a number to represent the group duty roster

4. Name the group duty roster, e.g.: 9:00am to 6:00pm.
5. Click **Edit** under **Group Duty Roster** tab.
6. Select **Weekly** under **Roster**
7. Click **OK** to proceed
8. Click **Edit**.
9. Click **Add Schedule**.

Now you can start to select the clocking schedule to use this roster.



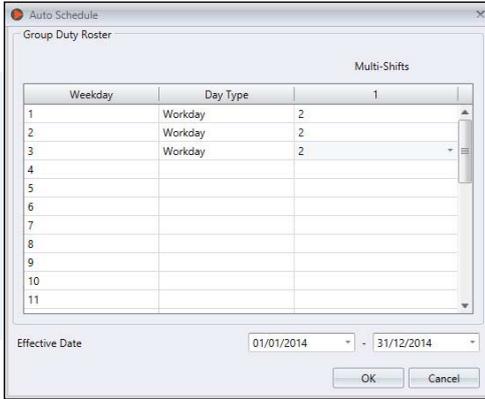
1. Define **Day Type**.
2. Select the **clocking schedule** to follow.
3. Define the **effective date range** to apply the calendar.
4. Click **OK** to save settings.

Now you have the group duty roster ready to use. The next step is to assign users, who follow the same working rules into the same group.

## Creating Shift Group Duty Roster

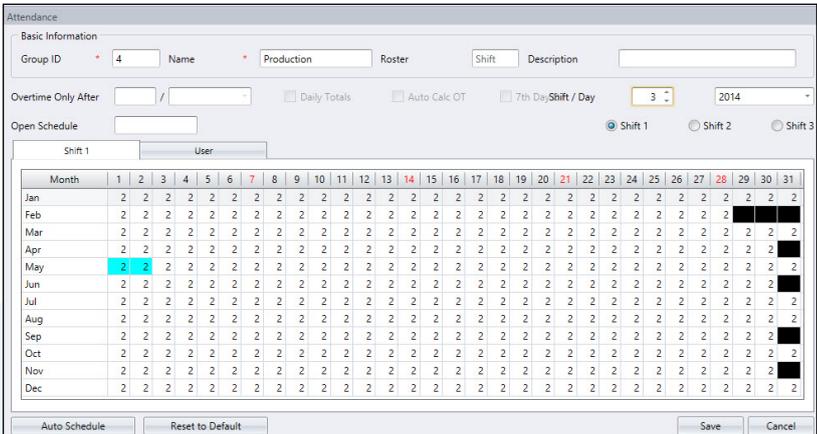
1. Click **Group Duty Roster** from the left panel.
2. Click **Add Duty Roster**.
3. **Select** a number to represent the group duty roster
4. Name the group duty roster, e.g.: 9:00am to 6:00pm.
5. Click **Edit** under **Group Duty Roster** tab.
6. Select **Shift** under **Roster**
7. Click **OK** to proceed.
8. Click **Edit**.
9. Click **Add Schedule**.

Now you can start to select the clocking schedule to use this roster.



1. Define **Day Type** according to the shift sequences, for example 3 work day followed by 1 rest days
2. Select the **clocking schedule** to follow (must use Daily Schedule)
3. Define the **effective date range** to apply the calendar.
4. Click **OK** to save settings.

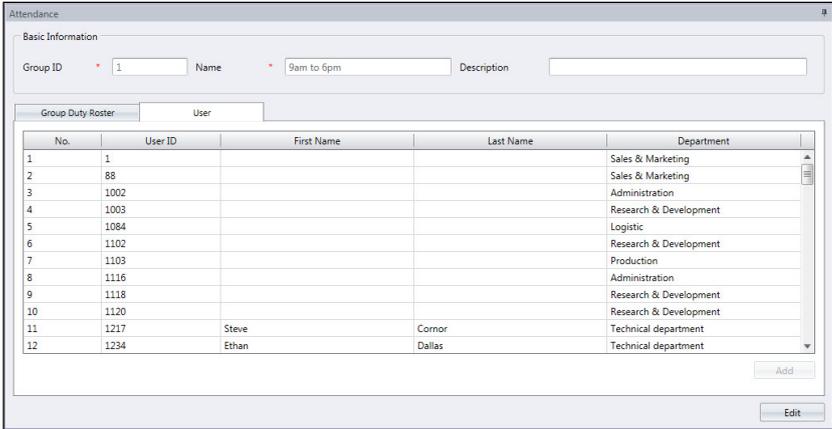
Software can support multiple shifts per day, maximum 3 shifts per day. To increase shift per day:



1. Click **Edit**
2. Change the value from 1 to 2 or under **Shift/Day** section
3. Click **Auto Schedule** and you will see additional columns to assign schedule code for every work day

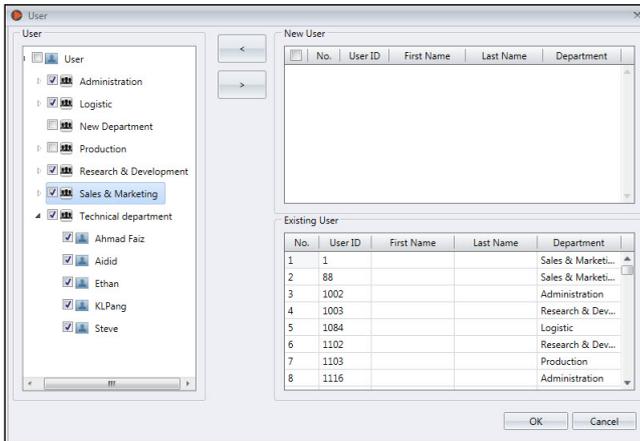
Now you have the group duty roster ready to use. The next step is to assign users, who follow the same working rules into the same group.

## Assign Users Into Group Duty Roster



You can now assign users into a group duty roster. You can select individual users or all users under a department.

1. Click **Edit** under the **Users** tab.
2. Click **Add** to start to add users into the group duty roster.



3. **Select** users to add into this group duty roster. You can select users individually or by department.
4. Click **OK** to save settings.

## Special Working Rules

You can configure 5 special working rules under group duty roster to fit into your working environment.

- **Overtime only after** - Software accumulates work time of employees every day before employee can claim overtime during predefined time period (weekly, bi-weekly, semi-monthly or monthly).

*For example:* If a predefined working hours a week is 40 hours per week and an employee works a total of 45 hours for that particular week, she would get 40 hours of work time and a 5 hours to be considered as OT.

You can apply additional option to view the work time and overtime accordingly.

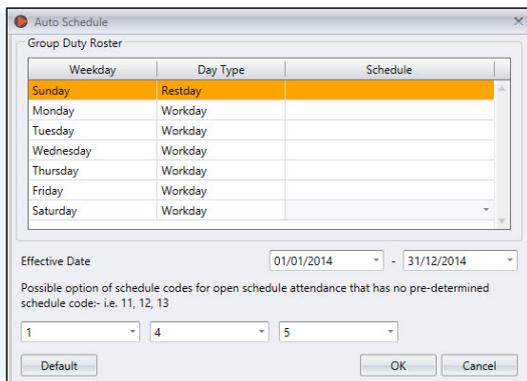
**Daily Totals:** Software display additional columns under Attendance Sheet when this option enabled. The columns display individual work time and overtime done by the employees every day. However the actual work time and overtime calculation still follow Overtime only after.

**Auto Calc OT:** This option is similar to Daily Totals however the software will sum up daily work time and over time to as Total Work Time and Total OT. This is only for display and the actual work time and overtime will still follow the Overtime only after

**7th day OT:** This option only works if you select Overtime only after Weekly. The software only calculates overtime if employees work 7-days continuously. In case the employee takes a rest day in that 7-days working schedule, the software will not calculate any overtime even though the total work time exceeds the predefined value.

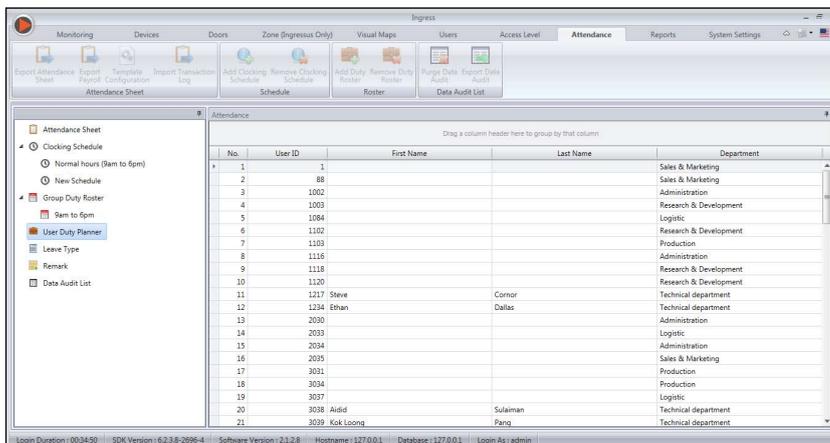
- **Open schedule** - Open schedule is when a factory or a company does not determine specific type of roster for the employee and they can attend any shifts as they please. With the open schedule, software will allocate user's clocking time into corresponding working shift by referring to the clocking time. The working shift in open schedule cannot be overlapped and must be clearly defined. Software will not be able to allocate users into their correct shift if the IN time and OUT time of the shift overlaps.

Set the schedule code under Auto Schedule when you are configuring group duty roster.



1. Click **Auto Schedule**
2. Define **Day Type**
3. Leave the **Schedule code** columns blank
4. Define the **date range** for roster to take effect
5. Select the **schedule codes** (maximum 3) under option Possible option of schedule code for open schedule attendance that has no pre-determined schedule code
6. Click **OK** to save settings

## User Duty Planner

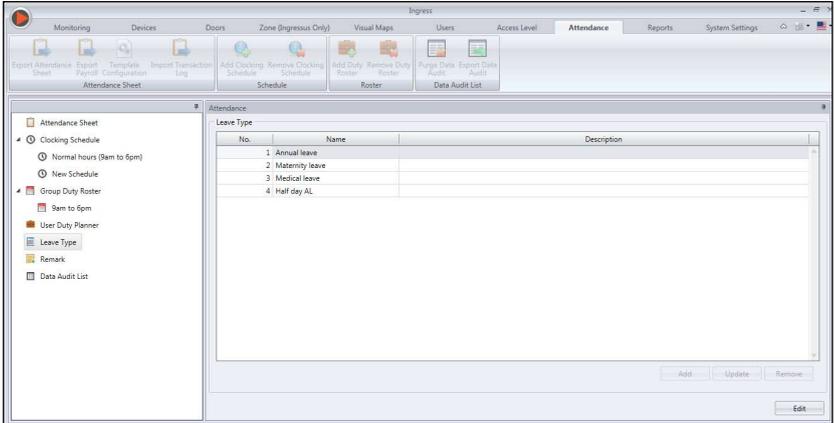


You can change the working calendar of a user without creating a new group duty roster for her/him. You can change the effective clocking schedules for this user under the same group duty roster.

1. Click **User Duty Planner** from the left panel.
2. Double-click the **user ID** to customize group duty roster.
3. Refer to **Chapter 7 • Creating Group Duty Roster** to build individual working calendar.

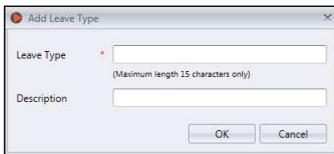
# Leaves and Remark

## To Add Types of Leave



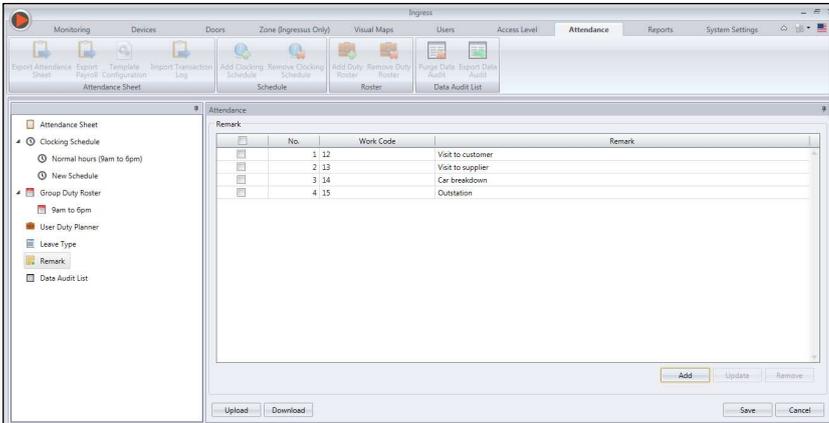
You can create a list of leave types into Ingress. You can remark his/her attendance by displaying leave at Attendance Sheet.

1. Select **Leave Type** from the left panel.
2. Click **Edit**.
3. Click **Add**.



4. Name the **Leave Type**.
5. Add **Description** for this leave type.
6. Click **OK** to insert the new leave type into list.
7. Click **Save** to save settings.

## To Add Remark



During verification, employee can input a specific number at a device to represent a reason for abnormal attendance records. For example, a user inputs a 10 when he reports to work to indicate that he was late to work because he attended a sales meeting away from the office. You can create the list of work codes under the **Remark** column and also put a remark into users' attendance in Attendance Sheet to describe his/her attendance records.

1. Click **Remark** from the left panel.
2. Click **Edit**.
3. Click **Add**.

The 'Add Remark' dialog box contains two input fields:

- Work Code**: A text input field with a maximum length of 9 digits only.
- Remark**: A text input field with a maximum length of 24 characters only.

Buttons for 'OK' and 'Cancel' are located at the bottom of the dialog.

4. Insert the number under **Work Code** (to be used at device during verification), e.g.: 15.
5. Give the work code a short description under **Remark**, e.g.: Outstation.
6. Click **OK** to save new work code into list.
7. Click **Save** to save settings.

# Attendance Sheet

## View and Edit

Date	User ID	Name	Sch	Day Type	In	Break	Resume	Out	OT	Done	Work	Overtime	Short	Leave Type
18-01-2016	Mon	1		1	Workday	10:28 AM	11:58 AM	11:58 AM			0.42		0.18	
18-01-2016	Mon	2		1	Workday	10:58 AM	11:58 AM	11:58 AM			0.58		0.12	
18-01-2016	Mon	8		1	Workday	11:58 AM	12:34 PM	02:47 PM						
18-01-2016	Mon	1235	Nana hartina	1	Workday									
18-01-2016	Mon	1280	John Inccin	1	Workday									
18-01-2016	Mon	3201	Kyle Johnson	1	Workday									
18-01-2016	Mon	3203	wallace huo	1	Workday									
18-01-2016	Mon	3204	lyn djaya	1	Workday									
18-01-2016	Mon	1207	U Nur Raih	1	Workday									
18-01-2016	Mon	1209	Angethya Kurniasari	1	Workday									
18-01-2016	Mon	3215	Gerard Abraham	1	Workday									
18-01-2016	Mon	4300	Fatmah Ahmad	1	Workday									

Attendance Sheet displays the attendance records of all users. View IN-OUT records, work times, short hours, overtimes and leaves taken. You can also select from the respective check boxes to view:

- **Total** – Displays total hours for Work, Overtime, Diff. OT and Short Hours at the bottom of the screen.
- **Original Clocking** – Displays original clocking data as downloaded from device in the event that employee’s attendance records have previously been edited. This is also a good filter to use if you have rounding rules set on your clocking schedule. If you have rounding rules set, you can use “Original Clocking” to see the actual time the employee punched in.

### Filters

Select the following options to filter from all the employees and focus on specific data you want to view:

- **Late-In** - Displays late clock in data of all employees.
- **Early-Out** - Displays data records of all employees who left earlier than the predefined Out time.
- **Extended Break** - Displays data records of all employees who exceeded his/her predefined Break-Resume time.
- **Absent** - Displays data records of employees who has not clocked in for the day.
- **Overtime** - Displays overtime data records of employees. If an employee has not worked overtime, they will not show in Attendance Sheet.
- **On Leave** - Displays only the attendance data of employees who are on leave.
- **Miss Punch** - Displays attendance data of employees that have missed a punch for the date that you are viewing. If an employee missed a punch, it will only show you the punch the employee has made so far. If there are no employees who missed a punch, you will not see any data on the Attendance Sheet.

- **Diff. OT** – Displays attendance data of employees who have Diff. OT (Differential Over Time) in the attendance sheet. The Diff. OT column is only displayed if you have enabled Diff. OT setting in your Clocking Schedule. Diff. OT is a secondary overtime that is defined by the company for different pay rate purposes.

Ingress provides flexibility for administrators to amend the attendance records. Records displayed in bold indicates that amendments were done. You can insert the leave taken by the users (under **Leave Type** column) or put a remark to his/her records (under Remark column).

Date	User ID	Name	Sche	Day Type	In	Break	Resume	Out	OT	Done	Work	Overtime
07-08-2013 Wed	1	1		WORKDAY	09:00 AM	12:00 PM	1:00 PM	09:00 PM			11:00	

1. Click **Edit**.
2. Insert time into relevant columns.
3. Work time, Short time and Overtime are calculated automatically based on clocking schedule settings.
4. Click **Save** to **save** settings.

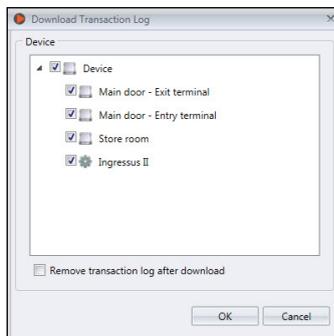
Day Type	In	Break	Resume	Out	OT	Done	Work	Overtime	Short	Leave Type	Remark
WORKDAY	09:00 AM	12:00 PM	1:00 PM	09:00 PM			11:00			Annual leave	
WORKDAY											
WORKDAY											
WORKDAY											
WORKDAY											

1. Click **Edit**.
2. Move to the **Leave Type** or **Remark** column.
3. Select leave type or remark.
4. Click **Save** to save settings.

## Download Data from Devices

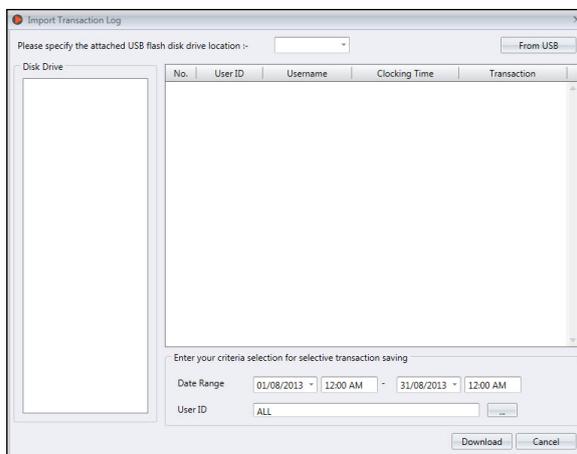
Before you can view attendance data, it is advisable to download data from all devices. Attendance Sheet updates the records when there are any new data downloaded into the database.

1. Click **Download** in Attendance Sheet.
2. Select devices to download data from.
3. Recommended to check **Remove transaction logs after download**. Ingress deletes all logs in devices after finishing the download from devices. This operation can avoid data overflow in the log storage of the device.
4. Click **OK** to proceed.



If the TCP/IP or RS485 connection is unavailable, you can download transaction logs from devices by using a USB flash disk. Plug the USB flash disk into Ingress and do the following steps:

1. Click **Import Transaction logs**.



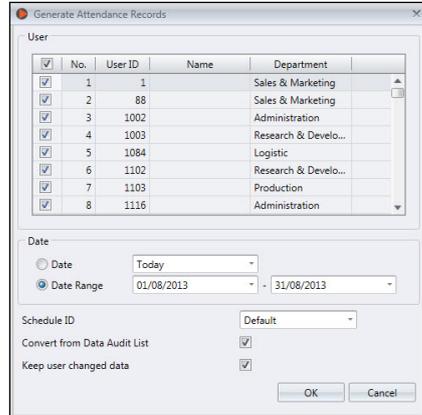
2. Specify the drive location of the USB flash disk.
3. Click **From USB**.
4. Define the **Date Range** of data to be imported into Ingress.
5. Select user ID.
6. Click **Download** to proceed.

## Generate Attendance Data

Run [Generate Attendance Data](#) to force Ingress to repopulate and recalculate attendance records.

**Note:** You must generate attendance data after making changes to the clocking schedule or group duty roster. Changes will only take effect after this process.

1. Click [Generate](#) in Attendance Sheet.
2. Select [user ID](#).
3. Select [Date Range](#).
4. Only select schedule ID if you want Ingress to generate attendance records according to a new clocking schedule setup.
5. Check [Convert from Data Audit List](#) so Ingress checks into database for any new records.
6. Check [Keep User Changed Data](#) so Ingress will not erase any edit records done before this. Click [OK](#) to proceed.

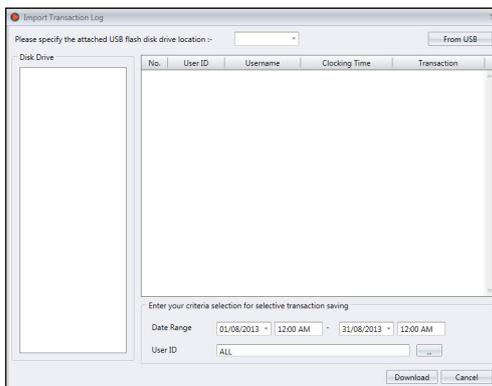


## Export Attendance Records

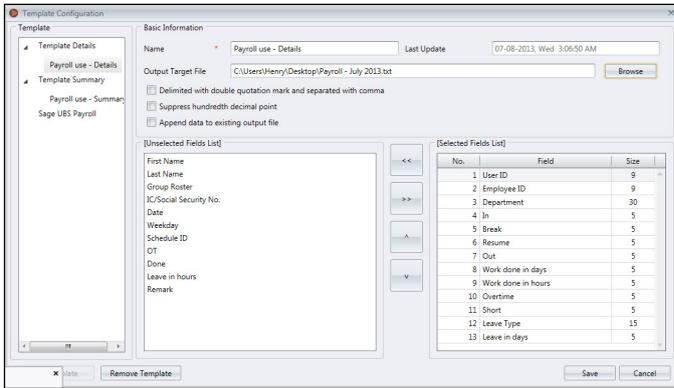
You can export attendance records for use with payroll software. The exported records can be detailed (day-by-day) or summarized records. You can choose to save the output file in XLS or TXT format to be used by the payroll software.

Before you can export attendance records, you must configure a template for the export format by determining the exported data fields and adjust their length. You can configure multiple templates if you are exporting attendance records to be used in more than one software. Make sure you select the correct template during export process.

1. Click [Templates Configuration](#).



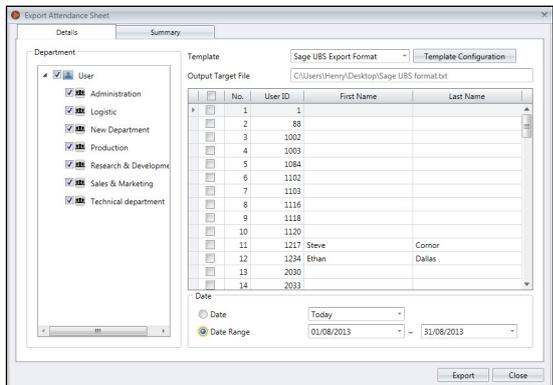
2. Select **Templates details** (to export day-by-day attendance records) or **Templates Summary** (to export summary of attendance records for specific time period).
3. Name the template, e.g.: Payroll use – Details.
4. Click **Edit**.



5. Click **Browse** to determine the path location to save the output file. You can select to save in XLS or TXT.
6. Select the separators to use when exporting in TXT file. Ignore if you are exporting to XLS.
7. **Select data fields** from left panel. Double click data field to include into the right panel.
8. **Arrange data fields** in right panel to export.
9. **Adjust the length of data field** by changing value under Size column.
10. Click **Save** to save settings.

During the export process:

1. Click **Export Attendance Sheet**.
2. Select users individually or by **department**.
3. Select the **template**.
4. Determine **path/location** to save the **output file**.
5. Define the **effective date range** of records to export.
6. Click **Export**.



## Export to Sage UBS Payroll *(Malaysia market only)*

Ingress is customized to export attendance records into Sage UBS Payroll, whereby the arrangement of attendance records are fixed to fit the software. You must know the basic usages of Sage UBS Payroll before proceeding to the steps below.

Template Configuration

Template

Template Details

Payroll use - Details

Template Summary

Payroll use - Summary

Sage UBS Payroll

New Template Payroll

Basic Information

Name: New Template Payroll Last Update: 07-08-2013, Wed 3:09:56 AM

Payroll Path: Browse

Company Name: Date: 01/08/2013 - 31/08/2013

User ID: ALL

Work: Overtime: DW - Days worked

Workday: Holiday: Restday: Offday: HR1 - Hours worked for 1 time OT

HR2 - Hours worked for 1.5 times OT

HR3 - Hours worked for 2.0 times OT

HR4 - Hours worked for 3.0 times OT

HR5 - No. of restdays worked

HR6 - No. of holidays worked

Shift Allowance: Work Hour: 8:00

Meal Allowance:

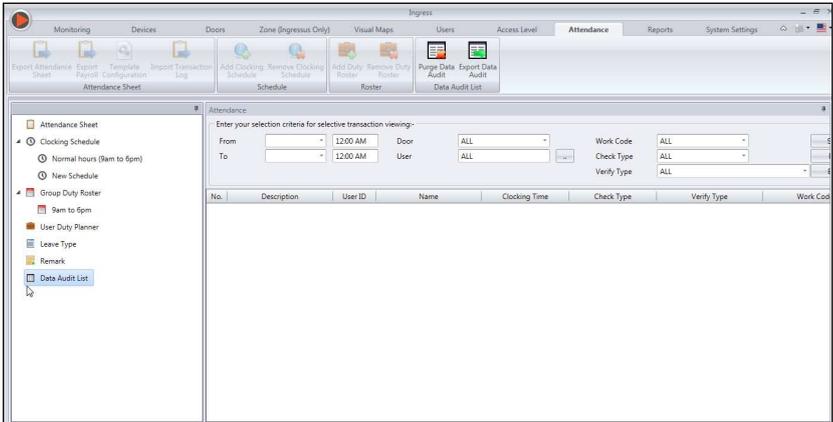
No.	Type	Hour
1		0
2		0
3		0
4		0
5		0

Add Template Remove Template Edit Close

To export to Sage UBS Payroll:

1. Click [Export Payroll](#).
2. Select [Sage UBS template](#).
3. Select users individually or by department.
4. Define the [effective date range](#).
5. Select [payroll path](#) to save the output file.
6. Select [company name](#).
7. [Configuration](#) of data field.
8. Click [Export](#).

# Data Audit List



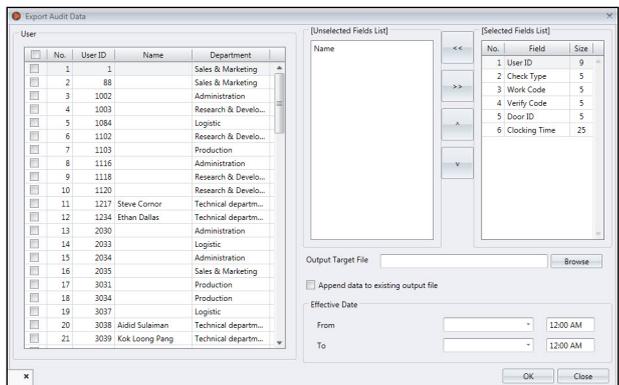
Data audit list is the database that stores all transaction logs downloaded from devices. Ingress provides an easy interface to check transaction logs. All IN-OUT records are published in this page. You can choose to view transaction logs by:

- Date range
- Doors
- Users
- Work Code
- Check Type
- Verify Type

These are raw data that can be exported in XLS, XLSX, TXT or CSV format. The output file can be imported into 3rd party software for further processing or evaluation.

To export raw data:

1. Click **Data Audit List** from left panel.
2. Click **Export Data Audit**.
3. Select users' raw data to be exported.



4. Double-click to [select the data fields](#) to be exported.
5. [Arrange](#) the data fields to be exported.
6. [Adjust the length](#) of the data fields by changing their value under the Size column.
7. Click Browse to define path location to save the file.
8. Define the effective date range to export raw data.
9. Click OK to export.

# Report

This chapter guides you on the types of reports provided by Ingress for housekeeping purposes and how to generate them.

Ingress provides you 8 types of commonly used reports to understand all IN-OUT and attendance records. You can have reports to display lists of users, devices and doors that are useful for housekeeping in the future.

You can print the reports to keep as records or save them in a digital format (PDF, HTML, MHT, RTF, XLS, XLSX, CSV, TXT, XPS and JPEG). You can send emails together with the digital reports to others for viewing and analysis.

## Types of reports and usage

### DEVICES

**Device Listing:** This report records all transaction data downloaded from every device.

**Device Activity:** This report details the transaction record of the users by device ID.

### USERS

**Department Listing:** A list of all department names and its corresponding amount of users.

**User Listing:** This report shows the users' information in detail.

**User Movement Analysis:** This report lists the details of the users' movement from all devices.

### DOORS

**Door Listing:** This report will compile and show a complete list of all created doors/door groups with a connected device.

### ZONES

**Zone Listing:** This report shows the list of the devices and its assigned zone mode and type.

### ACCESS LEVEL

**Access Level Listing:** This report shows the list of doors with its assigned access level.

**Time Set Listing:** This report shows the daily time period for the Timeset configurations.

**Holiday Listing:** This is a list of holidays created at the Holiday Settings as well as the Holiday Time zone assigned to it.

### ACCESS CONTROL

**Event Log Report:** This report is applicable to all FingerTec door access devices that are connected to a door sensor. The report will display detailed information for door events.

**Transaction Listing:** This report records all transaction data downloaded from every device.

### ATTENDANCE

**Clocking Schedule:** This is a checklist showing detailed configurations and settings of the clocking schedule.

**Duty Calendar:** This is a working calendar checklist for all or a particular work group.

**Remark Listing:** A list of all work codes and its remarks (names).

**Electronic Time Card:** The most general employee attendance record comprises of detailed clocking activities of an employee in a month including calculated work time, overtime and short time. The summary of attendance, tardiness and leave taken is also available in this report.

**Daily Attendance Listing:** This report details the daily work rate, tardiness, total work time, OT and shortages for workdays/rest day and off day for each employee.

**Weekly Attendance Listing:** This report will generate the employee's weekly attendance into a page with its summary of attendance at the bottom of the report.

**Attendance Sheet:** This report is almost the same as the attendance summary but it is without the work rate, work time, OT and short hours. With this report, the employer can have an overview of how many times the staff is late to work or clocks out early.

**Correction Report:** This report shows employees that have irregular clocking activities, e.g.: extended break times, early clock-outs, late clock-ins, etc. The Administrator can choose to amend these irregular clocking activities suggested by the software to match the activities of the affected employees, if necessary.

**Tardiness Report:** This report shows employees with tardiness e.g.: late in, early out, and etc. The time of tardiness and the total short minutes will be shown in red.

**On Leave Listing:** This report shows the list of employees who have taken leave and the particulars of their leaves for references.

**Overtime Approval Worksheet:** This is an overtime worksheet report showing the list of employees who are taking overtime and the amount of hours that he/she is entitled for. This report is important for the management to enable them to check the details of the overtime taken before approving the claims.

**Attendance Summary:** This report details the work rate, tardiness, total work time, OT and work hour shortage time for workdays/rest day and off day for each employee. Analysis of each employee's working performance can be viewed using this report.

**Attendance Analysis:** This report is similar to the attendance summary but it does not include the work rate, work time, OT and work shortage time. The employer can have an overview of how many times the staff is late to work or clocks out early with this report.

**Day by Day Analysis:** This report details the daily work rate, tardiness, total work time, OT and work hour shortages for workdays/rest day and off day for each employee.

**Month by Month Analysis:** This report details the monthly work rate, tardiness, total work time, OT and work hour shortages for workdays/rest day and off day for each employee.

## REPORT OPTION

In some of the Attendance Listings and Reports, there are several options you can select and to change what is viewed in the report:

**Show zero hour:** Tick to display all rest/off days, holidays, absences or leaves in the report.

**Work/OT Total:** Tick to hide work, overtime, Diff. OT and Short hours

**Original Clocking:** Tick to display original clocking data as downloaded from device if employee's at-

tendance records have previously been edited or you have configured rounding rules.

**Leave in hours:** Tick to display leave in Hours instead of Days.

**Remark:** Tick to display remarks added to explain employee's clocking activities.

**Clocking Count:** Tick to display number of times clocking was performed by employee. If unticked, only a check mark is displayed to indicate employee has performed at least one clocking and was therefore present.

**In/Out Clocking:** Tick to display the Clock In and Out records.

**Rate/Hr:** Tick to display pay rates (per hour) as configured for employee wages and/or job costing purposes.

**Job Cost:** Tick to display wages computed based on pay rates configured for the different jobs using Job costing feature.

**Work done in days:** Tick to display work done in Days instead of Hours.

## AUDIT TRAIL

**Audit Trail:** This report will show all configurations performed in the software according to the user that made the edit.

**Error Log:** This report will show all the errors which occurred in the software.

## Preview, Print or Save Reports

1. **Select** report to preview or print.
2. Select the **filter options** from the left panel.
3. Click **Generate**.
4. **Report preview** at the right panel.
5. Other operations

*Print reports – click .*

*Save in other digital format:*

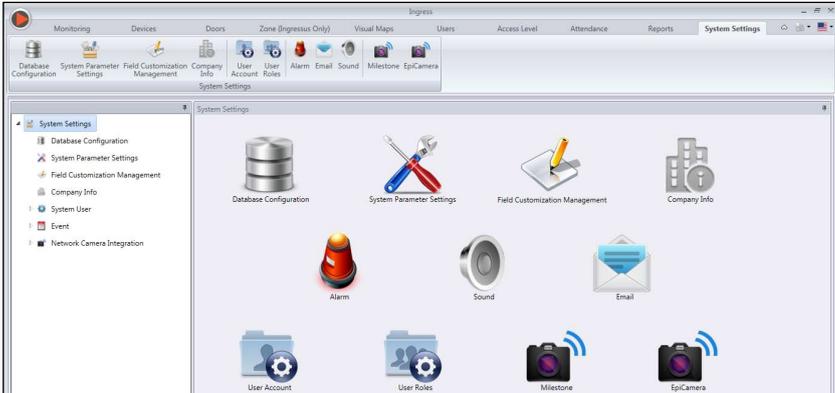
- Click .
- Select file format.
- Configure the output file.
- Click OK to proceed.

*Send via email:*

- Click .
- Select file format.
- Configure the output file.
- Click OK to save into digital file.
- New email created automatically from email provider.
- Insert recipients' email address to be sent to.

# Settings in Ingress

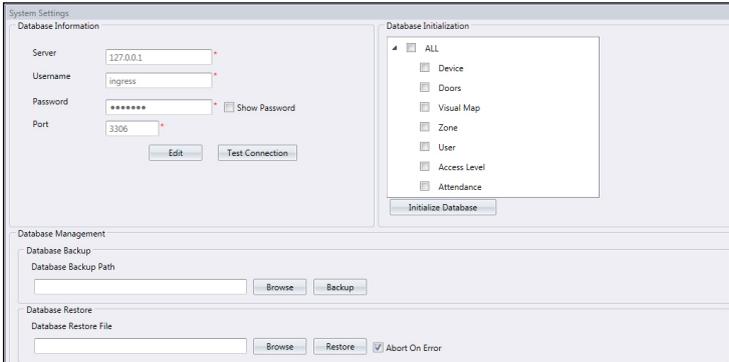
This chapter guides you in configuring the settings of Ingress for your own preference.



This chapter will guide you in configuring Ingress to operate according to your preference. You can configure settings for:

- **Database configuration:** You can initialize, backup or restore MySQL database of Ingress.
- **System Parameters settings:** This page allows you to configure date/time and other display settings in Ingress.
- **Field customization management:** You can add additional data fields to use in User bi-data (under **Other** tab).
- **Company info:** Fill in information of your company and local reseller. You can also place a special watermark on every report created by Ingress.
- **System User:** You can create/delete multi-levels account with different authorities to login to use your copy of Ingress.
- **Event:** You can configure the types of events that will trigger alarm in Ingress. You can select the sound to represent different events and link up the SMTP email server to send notifications from Ingress to specific recipients. For Ingress Mobile users, you can also send push notifications.
- **Network camera integration:** Before you can connect a network camera to stream video footage, you must configure the login details to Milestones or Epicamera accordingly in Ingress.

# Database Configuration



1. Fill in the database information by:

**Server:** IP address where MySQL database install. By default, MySQL installs into the server together with Ingress server.

**Username:** Login username of MySQL database.

**Password:** Login password of MySQL database.

**Port:** Set at 3306 by default. Change if you are using a different network port to communicate with the MySQL database.

2. Click **Test Connection** to try to connect to the MySQL database. Change the settings mentioned in (1) if connection fails.
3. Click **Save** to save settings.

If you want to initialize the MySQL database (to clear all data stored in the specific table), follow the steps below.

1. Select the data filed from the column Database Initialization.
2. Click **Initialize Database**.

**To backup data stored in the MySQL database, follow the steps below:**

1. Click **Browse** to set the location path to save the output file.
2. Click **Backup** to proceed.

**To restore data into MySQL, follow the steps below:**

1. Click **Browse** to seek for the file to be restored into MySQL.
2. Click **Restore** to proceed.

# System Parameters Settings

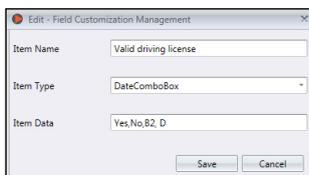
The screenshot shows the 'System Parameters Settings' window. It is organized into three main sections:

- System Settings:** Contains dropdown menus for 'Date Format' (DD-MM-YYYY), 'Time Format' (AM / PM), and 'Hour Format' (HH:MM). It also has a dropdown for 'Mini Visual Map Display Number' (set to 12) and a text input for 'Auto Log Off (Min)' (set to 0).
- Attendance Settings:** Includes a text input for 'Server Download Transaction Log Interval (HH:mm)' (01:00). Below it is a checked checkbox for 'Remove transaction log after download'. A section titled 'Specify daily download timer for the system to activate the automatic download process everyday' contains two time pickers (10:00 AM and 08:00 PM) and a checked checkbox for 'Perform daily download when computer is powered on'. At the bottom of this section is a text input for 'Server Generate Audit Data Interval (HH:mm)' (00:30).
- Settings:** Contains a text input for 'Device Connection Timeout (Sec)' (5), a checked checkbox for 'Synchronize users in the device', and an unchecked checkbox for 'Allow wiiegand settings'.

An 'Edit' button is located at the bottom right corner of the window.

1. **Date, Time and Hour format:** Select the format to display date, time and hour in Ingress and reports.
2. **Mini Visual Map Display Number:** Select to display 6, 9, or 12 visual maps onscreen during monitoring.
3. **Auto Log Off:** Set the maximum idle time before the system automatically logs off.
4. **Server Download Transaction Log Interval:** Set time interval to download transaction logs from devices automatically. Set 00:00 to disable this option if unnecessary.
5. **Remove transaction logs after download:** Check the box if you want to clear all transaction logs from devices after complete download.
6. **Specify daily download timer for system to activate the automatic download process every day:** Set up to a maximum of 2 daily timers to run auto download transaction logs from devices.
7. **Perform daily download when computer is power on:** Check the box so Ingress activates the daily download timer when server is power on.
8. **Server Generate Audit Data Interval:** Set time interval so Ingress generates raw data to be updated into Attendance Sheet accordingly. Ignore this if you are using attendance features in Ingress.
9. **Device Connection Timeout:** Devices disconnect and reconnect to Ingress frequently if the network is unstable. Set maximum waiting time for Ingress to justify device in offline mode.
10. **Check Synchronize users in the device:** Enable this option and Ingress always clear all employees' data in device or Ingressus before upload new users. This is to make sure you always update fresh copy of employees' data to devices or Ingressus.  
Disable this option and Ingress only update particular employees' data in device or Ingressus during upload process.

## Field Customization Management



1. Click [Edit](#).
2. Click [Add](#) to add a new field.
3. Insert the [name of information](#), e.g.: Valid driving license.
4. Select type of data

*Text box* – column to fill in text freely.

*Combo box* – drop down to select description (require data from Item Data).

*Check box* – box for check and uncheck.

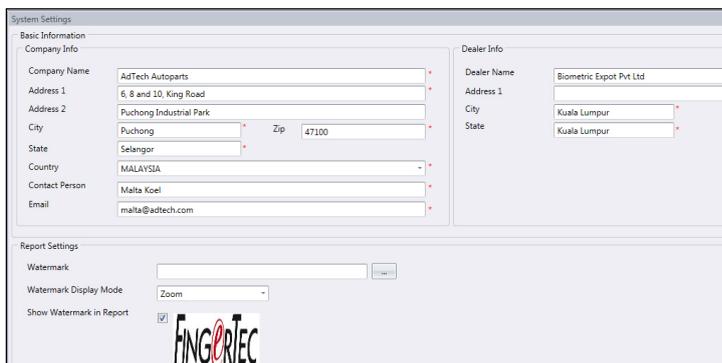
*DateCombo box* – column to display calendar for date selection.

5. Insert description into [Item Data](#) for Combo box to select.
6. Click [Add](#) to save into the list.
7. Click [Save](#) to save settings.

Repeat steps above to create new data fields. All newly created data fields are displayed under [Other](#) tab in [User's Biodata](#).

Click [Update](#) if you want to edit the data field or [Remove](#) to delete from the list.

## Company Info



1. Insert your company information in the left panel.
2. Fill in the contact information of your local reseller in the right panel.

## Follow the steps below to insert watermark to your reports:

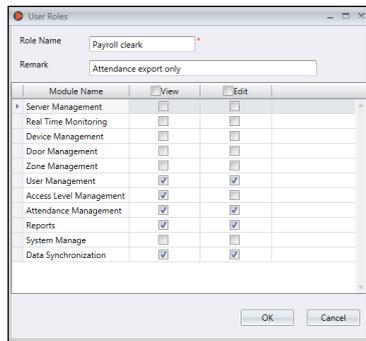
1. Click  to select the image file (in JPEG format).
2. Select **Display Mode**:
  - Center* – watermark display at the center of page
  - Stretch* – watermark stretch to cover the whole page
  - Zoom* – watermark zoom to bigger size located at the center
3. Check **Show Watermark in Report** to activate watermark in reports.

## System User

### To create User Roles

You must create roles to edit or view data in Ingress. To do this, follow the steps below:

1. Click **User Roles** under **System User**.
2. Click **Add Role**.
3. **Name** the role, e.g.: System Operator.
4. Select **modules** to allow for viewing under **View** column.
5. Select **modules** to allow for editing under **Edit** column.
6. Click **OK** to save settings.



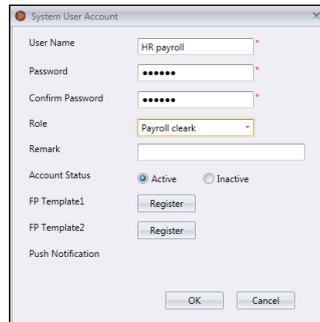
Repeat steps above to create new user role.

You can select to update existing roles by selecting them from the list, followed by **Edit Role**. Select existing role and click **Remove Role** to remove it if it is no longer in use.

### To create login account and assign role

Now, you can create new login username and password for new users to handle Ingress. Steps as below:

1. Click **User Account** under **System User**.
2. Click **Add Account**.
3. Insert **username** and login **password**.
4. **Assign role** (as preset under User Role) to this account, e.g.: System Operator.
5. Check **Activate** to grant access to this account user.
6. It is optional to enroll fingerprints from this user. He/she can verify fingerprint to access into Ingress instead of using a password. You must plug in the OFIS-Y scanner into the PC before clicking the Register button. Follow the onscreen instructions to enroll fingerprints from the user.



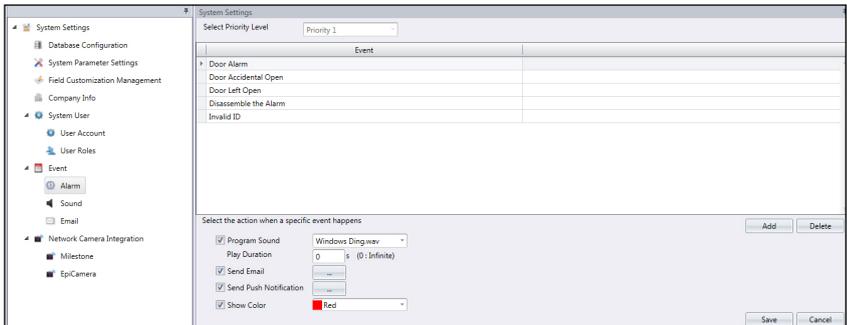
7. Click **OK** to save settings.

Repeat steps above to create new user login account.

Select the user account and press **Edit Account** to start to edit, or press **Remove Account** to delete the account permanently.

## Event

### To configure notifications by alarm and email



1. Select **Alarm** under **Event**.

2. Select **Priority 1** from **Select Priority Level**.

You can define events under different levels of priority. There are a total of 5 levels of priority ready to use. You can treat level 1 as the highest and 5 as the lowest, or vice versa.

- Click **Add**.
- Select **Ingressus** or **Standalone devices**.
- Select the events to include under the Priority level.
- Click **OK** to save.

3. Check **Program sound** to enable sound alert from PC.

- Select the **sound to play** to alert
- Define the **duration of alert sound**

4. Check **Send Email** to enable email notification function.

Create the email template to send as notification

5. Check **Send Push Notification** to enable push notification to specific users with Ingress Mobile apps (*iOS or Android*).

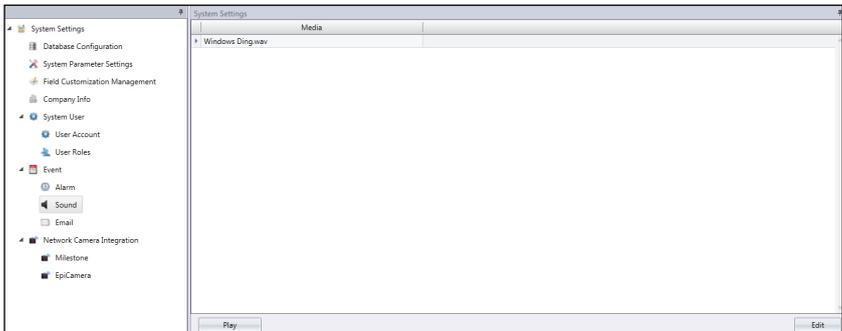
Select the recipient(s) of push notification from the list

6. Select the **color** to highlight the event under monitoring process.

7. Click **Save** to save settings.

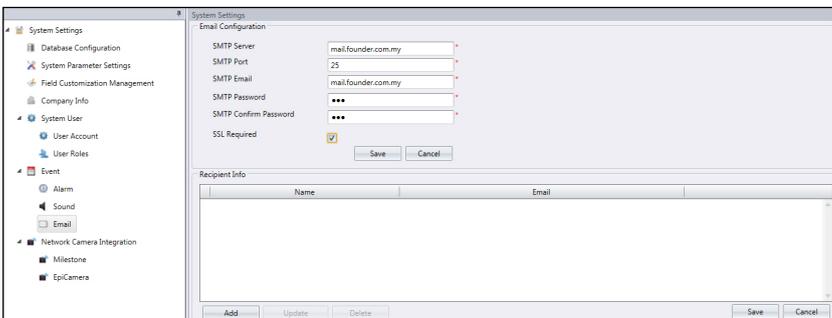
Repeat steps above if you want to create alarm for Priority 2 to 5.

## To configure alarm alerts sound and color



1. Click **Sound** under **Event**.
2. Click **Edit**.
3. Click **Add**.
4. **Select** the sound file to be added into Ingress to use to alert users.
5. Click **OK** to save settings.

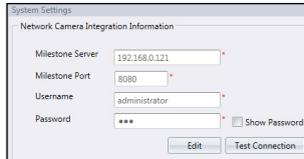
## To configure email alerts



1. Click **Edit** under **Email Configuration**.
2. Insert the information to connect to your **SMTP email server**.
3. Click **Save** to save settings.
4. Click **Edit** under **Recipients Info**.
5. Click **Add**.
6. Insert users' **email address and name**.
7. Click **OK** to save settings.

# Network Camera Integration

## Milestone server



The screenshot shows a 'System Settings' dialog box titled 'Network Camera Integration Information'. It contains four input fields: 'Milestone Server' with the value '192.168.0.121', 'Milestone Port' with the value '8080', 'Username' with the value 'administrator', and 'Password' with masked characters '\*\*\*'. There is a 'Show Password' checkbox which is unchecked. At the bottom, there are two buttons: 'Edit' and 'Test Connection'.

1. Select **Milestone** under **Network Camera Integration**.
2. Click **Edit**.
3. Insert **IP** and **Port** of your Milestone server.
4. Insert **Username** and **Password** to log in to the Milestone server.
5. Click **Test Connection** to make sure connection establishes. Check items in step 3 and 4 if the connection fails.
6. Click **OK** to save settings.

## EpiCamera



The screenshot shows a 'System Settings' dialog box titled 'Network Camera Integration Information'. It contains three input fields: 'Username' with the value 'demo', 'Password' with masked characters '\*\*\*\*', and 'Image Interval Time (Seconds)' with the value '5'. There is a 'Show Password' checkbox which is unchecked. At the bottom, there are two buttons: 'Edit' and 'Test Connection'.

1. Select **EpiCamera** under **Network Camera Integration**.
2. Click **Edit**.
3. Insert login **username** and **password** of your EpiCamera account.
4. Click **Test Connection** to make sure connection establishes. Check items in step 3 if the connection fails.
5. Define the time interval to collect images from EpiCamera.
6. Click **OK** to save settings.

