

Ayonix Milestone Plugin v1.4 Operation Manual

Ayonix Corporation

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| Date | Author | Description |
|------------|--------|-------------------------|
| 2016-12-05 | JFLR | Initial version |
| 2017-01-24 | JFLR | Updates for version 1.2 |
| 2017-05-04 | JFLR | Updates to version 1.3 |
| | | |

2. Basic Setup

2.1 Person Categories

All persons enrolled into system must belong to a category. By Default, system comes with two categories: "User" and "Unknown". This section is prepared to create new Categories

Creating a new Category - Accessing Setup Screen

| Ayonix Faceld Plugin | - Enrollment | | | |
|----------------------|--|-----------|----------|------------------------------------|
| Current Enro | IlmentsPage 31 of 31 (Total Records Refresh | s: 1539) | | |
| Enroll Mugshot | Name/Surname | △ Categor | y Gender | avonix |
| | Sylvia_Maestrini/ | User | FEMALE | Alarm Popup Alarms |
| | maurice_dupont/ | User | MALE | New Enrollment Betch Enrollment |
| | giselle_mardure/ | User | FEMALE | Cameras: ✓ Using Local Proper |
| | francis_ford/ | User | MALE | Setup 📐 |
| | ana_carenina/ | User | FEMALE | ~ |

Double click on "Ayonix" Icon .

Click on "Setup" button. Type administrator password. By default, it is "ayonix", but it might have been changed by System Administrators.



Creating a new Category - Accessing Setup Screen

| Database Categori | es 📐 |
|-------------------|------|

Click on "Categories" button. Following window will open.

Categories Screen – Elements

| Categories | | | * | 277 | > |
|--------------|------|--|---|-----|---|
| | ~ | | | | |
| New Category | 1) | | | | |
| Name | Edit | Remove | | | |
| Unknown | Edit | Remove 4 | | | |
| User | Edit | Remove | | | |
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| No | Item | Meaning |
|----|----------------------------|---|
| 1 | Create New Category button | This access the Create New Category Screen |
| 2 | Categories List | Shows all available categories and its names |
| 3 | Edit Category | This button allows to edit category names |
| 4 | Remove Category | Using this button, it is possible to remove the determined category |



Categories Screen - Create New Category

| C C | ategories | | | + | 1777A | \times |
|-----|-------------|------|--------|---|-------|----------|
| | | | | | | |
| N | ew Category | | - (| | | |
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| • | Unknown | Edit | Remove | | | |
| | User | Edit | Remove | | | |
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Click on "New Category" button

Categories Screen - Create New Category



Type new category name and click on "Save" button



Categories Screen - Create New Category

| 😗 c | ategories | | | + | 2000 - 2000 2000 - 2000 | \times |
|-----|-------------------------------|---------|--------|--------|----------------------------|-----------------------|
| N | ew Category | | | | | |
| | Name | Edit | Remove | | | |
| | Unknown | Edit | Remove | | | |
| _ | User | Edit | Remove | | | |
| | Criminal | Edit | Remove | | | |
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New category will be displayed on list.



Categories Screen - Edit Category

| 😗 c | ategories | | | + | 200 | | \times |
|----------|-------------|------------------|--------|----------|-----|-----------|----------|
| 1000 | _ | | | | | | |
| | ew Category | | | | | | |
| | Name | Edit | Remove | | | | |
| F | Unknown | Edit | Remove | | | | |
| | User | Edit | Remove | | | | |
| 1 | Criminal | Edit | Remove | | | | |
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Select a category from screen and click on "Edit" button

Categories Screen - Edit Category



Change category name and click on "Save"



Categories Screen - Edit Category

| New Category Name Edit Remove Unknown Edit Remove User Edit Remove | | ategories | | | + | 2722 | > |
|--|---|-------------|------|--------|---|------|---|
| New Category Name Edit Remove Unknown Edit Remove User Edit Remove | | | | | | | |
| Name Edit Remove Unknown Edit Remove User Edit Remove | N | ew Category | | | | | |
| Unknown Edit Remove User Edit Remove | | Name | Edit | Remove | | | |
| User Edit Remove | • | Unknown | Edit | Remove | | | |
| | _ | User | Edit | Remove | | | |
| Criminals Edit Remove | | Criminals | Edit | Remove | | | |
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Edited category will be shown on the Categories list



Categories Screen - Delete Category

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| Ne | ew Category | | 71 | | | |
| | Name | Edit | Remove | | | |
| | Unknown | Edit | Remove | | | |
| | User | Edit | Domoso - | | | |
| | Criminals | Edit | Remove | | | |
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Find category to be excluded and click on "Remove" button

Categories Screen - Delete Category



Click on "Yes" to confirm category deletion.





Click "OK" on the confirmation message.

Categories Screen - Delete Category

| 💮 C | ategories | | | + | 87771 | \times |
|-----|-------------|------|--------|---|-------|----------|
| | 0-1 | | | | | |
| | sw Category | | | | | |
| | Name | Edit | Remove | | | |
| • | Unknown | Edit | Remove | | | |
| | User | Edit | Remove | | | |
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Category will disappear from categories list



3. Enrollment

3.1 Single Enrollment

System Provides a way to enroll persons based on multiple pictures.

Main Plugin Screen - Elements

| Ayonix Faceld Plugin | - Enroliment | | | |
|----------------------|----------------------------|-----------|--------|--|
| Current Enroll | Recon | ds: 1538) | | _ 😪 |
| 3 Enroll Mugshot | Name/Surname | Category | Gender | ayonix |
| | 4mq6v47mal40m7l6/ | User | FEMALE | ✓ Alarm Popup 4 5 Alarms |
| | 450px-Mark-rutte-portret/ | User | MALE | 6 New Enrollment 7 Betch Enrollment |
| | 497DA60A57B5C94088FD1756r/ | User | MALE | Ĭ |
| | 5/ | User | MALE | |
| | 4mq6v47mal40m716/ | User | FEMALE | <u>~</u> |

| No | Item | Meaning |
|----|------------------------------------|---|
| 1 | Enrollment List Refresh button | Refreshes the enrollment list |
| 2 | Enrollment List navigation buttons | Navigates the enrollment list |
| 3 | Enrollment List | List of the enrollment data |
| 4 | Alarm popup | If this option is selected, every time there is a new alarm an alert popup will appear. |
| 5 | Alarms | Open alarms screen button. This button goes to the Alarms screen |
| 6 | New enrollment | this button goes to the Single Enrollment Screen |
| 7 | Batch Enrollment | Opens Batch Enrollment Screen |





| No | Item | Meaning |
|----|------------------------|---|
| 1 | Name | Must be filled with person's name |
| 2 | DOB (Date of birth) | Birthday in the order of Month/day/year |
| 3 | Category | All users must belong to a category. System default categories are "User" and "Unknown". It is possible to create more categories (please refer to "Creating new categories" session |
| 4 | Person Surname | optional |
| 5 | Person gender | One gender must be selected |
| 6 | Select camera | Get Enrollment pictures from camera |
| 7 | Select file | Get Enrollment pictures from pictures on file system |
| 8 | Save or Cancel buttons | Saves or cancel the modifications/changes. |
| 9 | Take Picture | Checks the camera connectivity and camera image acquisition |
| 10 | Thumbnail image | Thumbnail image of the enrolled person. All enrollments must have a main pose (the picture that will be shown as main picture) |
| 11 | Camera name / image | Capture enrollment images in case of enrollment from camera |



Single Enrollment - Steps

| Ayonix Faceld Plug | yonix Faceld Plugin - Enrollment | | | | | | |
|--------------------|----------------------------------|------------|-------------|--|--|--|------------------|
| Current Enn | ollmentsPage 1 of Befresh | 1 (Total F | Records: 1) | | | | |
| Enroll Mugshot | Name/Surname | Category | Gender | | | | ayonix |
| | | | | | | | 🖌 Alarm Popup |
| | | | | | | | Alarms |
| | | | | | | | New Engliment |
| | | | | | | | Batch Enrollment |
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From main plugin screen, click on "New Enrollment" button

Single Enrollment - Enrollment from Camera

| | | | | | × |
|--|----------------|--------------------------|------|--------------|---|
| Name: Alex DOB 1/23/198 Category: User | 12 II • | Sumame: Ba Gender: Ma | aros | | |
| Select Camera | Select File | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | Save | Cancel | | Take Picture | |

Fill up Name , Surname, Date of Birth, Category and Gender.

Click on "Select Camera" screen



| tem Picker | + | 2570 | | \times |
|---|--|------|-----|----------|
| Select one: | | | | |
| 192.168.0.121 Camera Groups OFFICE 192.168.0.102 192.168.0.105 192.168.0.106 | - Camera 1 - Camera 1 - Camera 1 | | | |
| Group Hierarchy | | ų. | Can | cel |

Select desired camera (camera from which you want to capture images)



| | | ~ |
|--|---|--|
| Name: Alex DOB 1/23/1982 Category: User Select Camera Select File | Surname: <u>Barros</u> Gender: <u>Male</u> | 192.168.0.102 - Camera 1 |
| | | 192.168.0.102 - Camera 1 🍕 🌢 |
| | | 192.168.0.102 - Camera 1 |
| | | 1922 1989 9.1983 - Carmers Tilvarne: Felix Lesiste Sender Mildes 69 Time Felix Lesiste - User |
| Save | Cancel | Take Picture |

Picture from the biggest detected face will be shown in the left part of the screen. if the face was properly detected, a green circle will appear over the picture.

Single Enrollment - Enrollment from File



Click on "Select Picture" button. Browse folders for a picture file. It will be displayed beside current pictures.



| | | × |
|--|---|-----------------------------------|
| Name: Alax DOB 1/23/1982 Category: User Select Camera Select File | Surname: <u>Barros</u> Gender: <u>Male</u> 192,166.0.102 - Came 19 | era 1 192.168.0.102 - Camera 1 |
| Save | Cancel | Take Picture |

System correctly detected face on picture file and inserted a green circle over it.

Single Enrollment - No face detected on picture

| | | | | | | | × |
|---------------------------------------|--|----------|---------------------|----------------|---|------------------------------------|------|
| Name: DOB Category: Select (| Alex 1/23/1982 User Camera Select | Tie | Surname: Gender: | Barros Male | | | |
| | | nix D | | | 192.168.0.102 - Camera 1 192.168.0.102 - C 192.168.0.102 - C 192.168.0.0 | amera 1 1.102 - Camera 1 | ¢, ● |
| | | | | | | Serrer Harre Faix Esden Berder Mar | |
| | | Save | Car | ncel | | Take Picture | |

If no face is detected in the picture, a red cross will be displayed over the image



| | | | | 14 |
|-------------------------------------|-------------------|---|--------------------------|-------------------|
| Name: DOB Category: Select | Alex 1/23/1982 | Surname: <u>Barros</u> Gender: <u>Male</u> | 192.168.0.102 - Camera 1 | |
| A | | | 192.168.0.102 - Camera 1 | <u>si</u> • |
| | | | 192.168.0.102 - Camera 1 | |
| | | | | ERER Mêge ei Tine |
| | Save | Cancel | Take Picture | |

To exclude this image, click on the red cross on the left upper side of the picture

| Name: | Alex | | Surname: | Barros | | |
|-----------|---------------|------|----------|--------|-----------------|---|
| DOB | 1/23/1982 | | Gender: | Male | | |
| Category: | User | • | | | | |
| Select C | Camera Select | File | | | | |
| 0 | PRI N | | | | | |
| | 215 | | | | | |
| | | | | | 192.168.0.102 - | Camera 1 |
| | | | | | | 192.168.0.102 - Camera 1 |
| | | | | | | 192.168.0.102 - Camera 1 |
| | | | | | | 192 188 8 182 - Camera IIVame Feix Lageia Gender Mage 33 Time |
| | | | | | | Felix Lagela - User |
| | | | | | | |
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| | | | | | | |
| | | Save | Car | icel | | Take Picture |
| | | | <u>.</u> | | | |

Single Enrollment - No face detected on picture

The picture will be deleted from the system.



| | | 7 |
|--|---|---|
| Name: Alex DOB 1/23/1982 Category: User Select Camera Select File | Surname: <u>Barros</u> Gender: <u>Male</u> | 192168.0.102 - Camera 1 |
| | | 192.168.0.102 - Camera 1 🔅 🐠 |
| , <u> </u> | | 192.168.0.102 - Camera 1 |
| | | LARGE LARGE AND |
| Save | Cancel | Taks Picture |

Click on one of the picture used for enrollment. It will be selected as Main Pose.

| Name: | Alex | | Surname: | Barros | | |
|-----------|--|------------|----------|--------------------|--|---|
| DOB | 1/23/1982 | | Gender: | Male | | 2 |
| Category: | User | • | | | | |
| Select (| Camera S | elect File | | | | 2 |
| | - The second sec | | | 192.168.0.102 - Ca | umera 1 192.168.0.102 - Camera 1 | |
| | | | | | 192.168.0.102 - Camera 1 | |
| | | | | | JARSA 1888, 8, 1983 - CARTIERS INNETTER FRANK LEGENSIE | |
| | | Save 📐 | Car | cel | Take Picture | |

Single Enrollment - Saving New Enrollment

User picture will appear on the upper right corner of the screen. Click on "Save" button to save enrollment.





A confirmation message will appear. Click on "OK" to proceed.

Single Enrollment - Saving New Enrollment

| onix Faceld Plugi Current Enro | n - Enrollment hlimentsPage 31 of 31 (Total Records: | 1540) | | |
|-----------------------------------|---|----------|--------|----------------------------------|
| | Refresh << > | 10-10) | | |
| Enroll Muqshot | Name/Surname | Category | Gender | ayonix |
| | Alex/Barros | User | Male | Alarm Popup |
| | Sylvia_Maestrini/ | User | FEMALE | New Enrollmen Batch Enrollmer |
| | maurice_dupont/ | User | MALE | Cameras: ✓ Using Local Pr |
| | giselle_mardure/ | User | FEMALE | Setup |
| | francis_ford/ | User | MALE | ~ |

Enrolled person will appear on Enrollments List



Sometimes it is necessary to enroll multiple persons based on multiple images. Ayonix Milestone Plugin provides an easy way to to this: Batch Enrollment

Batch Enrollment - Steps

| nix Faceld Plugir | n - Enrollment | | | |
|-------------------|---|------------|--------|-----------------------------------|
| Ourrent Enro | IlmentsPage 3 of 31 (Total Recor Refresh | rds: 1538) | | |
| Enroll Mugshot | Name/Surname | Category | Gender | ayonix |
| | 4mq6v47mal40m7l6/ | User | FEMALE | ✓ Alarm Popup Alarms |
| | 450px-Mark-rutte-portret/ | User | MALE | New Enrollment Batch Encollmen |
| | 497DA60A57B5C94088FD1756r/ | User | MALE | |
| | 5/ | User | MALE | |
| A | 4mq6v47mal40m7l6/ | User | FEMALE | ~ |

Batch Enrollment Screen- Elements

| Batch Enroll | | | | | × |
|---------------|--------------|-------|-----------|---|---|
| | | | | | |
| Select Folder | Enroll Image | gory: | MessageId | 2 | |
| 3 | × | | | | |
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| No | Item | Meaning |
|----|------------------------|--|
| 1 | Select Folder | With this button is possible to select a folder from which the pictures will be enrolled |
| 2 | Category | Category selection. User must select a category in order to properly do batch enrollment |
| 3 | Person Enrollment list | Once the pictures are selected and sent for enrollment, they appear in this list |







| roll | | | | |
|---|--------------|---------|--------------------|-----------|
| Select Folder Category: User | | | 6 Files loaded suc | cessfully |
| Image Path | Enroll Image | Status | MessageId | ^ |
| C:¥Temp¥Pictures¥test1 ¥Sylvia_Maestrini.jpg | | Sending | 17542 | |
| C:¥Temp¥Pictures¥test1¥maurice_dupont.jpg | | Sending | 17541 | |
| C:¥Temp¥Pictures¥test1¥john_doe.jpg | | Sending | 17540 | |
| C:¥Temp¥Pictures¥test1¥giselle_mardure.jpg | | Sending | 1 7539 | |
| C:¥Temp¥Pictures¥test1¥francis_ford.jpg | | Sending | 1 7538 | |
| C:¥Temp¥Pictures¥test1¥ana car <u>enina.loz</u> | | Sending | 17537 | |



Persons enrolled into system showing on the main Screen.

| | Refresh << > > | | -15 | |
|-------------------|-------------------|------------|--------|----------------------------------|
| Enroll Mugshot | Name/Surname | △ Category | Gender | ayonix |
| | Sylvia_Maestrini/ | User | FEMALE | Alarm Popup |
| | maurice_dupont/ | User | MALE | New Enrollmen Batch Enrollmer |
| | john_doe/ | User | MALE | |
| | giselle_mardure/ | User | FEMALE | |
| TEL | francis_ford/ | User | MALE | v |

3.3 Deleting an Enrollment

Proceed according to the following in order to delete an enrollment

Person Enrollments - Delete Enrollment

| Ayonix Faceld Plugin Current Enrol | -Enrollment ImentsPage 1 of 31 (Total Records: 15 | 540) | | |
|---------------------------------------|--|----------|--------|------------------------------------|
| | Refresh | | | |
| Enroll Mugshot | Name/Surname A | Category | Gender | ayonix |
| | 12345-20131013-a-b-female-celebrity/ | User | FEMALE | ✓ Alarm Popup Alarms |
| 100 | 1031-annalynne-mccord-makeup_bd/ | User | FEMALE | New Enrollment Batch Enrollment |
| | 121234633/ | User | MALE | |
| | 10155501_740459015976143_1004643677_n/ | User | FEMALE | |
| | 121232706/ | User | MALE | ~ |

On the Main Enrollments screen, right click on an enrollment and choose "Delete"



| Are you sure | e you want to delete | john doe/? |
|--------------|----------------------|------------|
| | - | - · |
| 1973 | | |

Click on the confirmation screen

Person Enrollments - Delete Enrollment



A confirmation screen will appear. Click on "Ok" button to proceed.



| Avenin Frend Div | Town How and | |
|------------------|--------------|--|

| | Refresh << > > | | | |
|-------------------|-------------------|--------|--------------|------------------------|
| Enroll Mugshot | Name/Surname | △ Cate | egory Gender | ayon |
| | Sylvia_Maestrini/ | User | FEMALE | ✓ Alarm Po Alarm |
| G | maurice_dupont/ | User | MALE | New Enro Batch Enro |
| | giselle_mardure/ | User | FEMALE | |
| - | francis_ford/ | User | MALE | |
| | ana carenina/ | User | FEMALE | Ų |

Enrollments Screen will be reloaded with the remaining records.



4. Face Matching

4.1 Alarms Screen

Alarms Screen is a tool by which it is possible to get all alarms from faces detected into cameras, and to match faces based on alarms and pictures. To access it, click on "Alarms" button

| Ayonia | x Faceld Plugin | - Enrollment | | | | |
|--------|--|--|------------|--------|---|------------------------------------|
| Cı | urrent Enroll | mentsPage 31 of 31 (Total Records: 1541) | | | | |
| | | Refresh C C | | | | |
| | Enroll Mugshot | Name/Surname | △ Category | Gender | ^ | ayonix |
| | | Sylvia_Maestrini/ | User | FEMALE | 1 | Alarm Popup |
| | | maurice_dupont/ | User | MALE | | New Enrollment Batch Enrollment |
| | | john_doe/ | User | MALE | | |
| | | giselle_mardure/ | User | FEMALE | | |
| | The second secon | francis_ford/ | User | MALE | ~ | |



| Person Occurrences | • – 🗆 × |
|---|-------------------|
| 24/01/2017 11:32:52 | Select File 6 |
| All Cameras | Threshold: 80 - 3 |
| 3 6 Search Export PDF | Match Image |
| Image Score Date/Time Age Gender Source AlarmId | (1) |
| | |
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| No | Item | Meaning |
|----|--------------------------------------|--|
| 1 | Start Date and End Date criteria | for alarms selection |
| 2 | Camera Selection Combo Box | To select from all cameras, select "All Cameras" option |
| 3 | Search button | System will search for alarms provided by cameras selected inside the determined interval |
| 4 | Search result or match result screen | It shows the alarms searched or the match results based on the picture selected |
| 5 | Export PDF button | It exports the search or the image match results to a document in PDF format |
| 6 | Image Matching Select File button | It is possible to search for similar faces on the detemined interval based on Start Date and End Date parameters and a Threshold |
| 7 | Selected picture for image match | This element displays the picture obtained from file or from a current alarm, to be used on face Matching option |
| 8 | Threshold selection option | Ayonix Image match function matches pictures based on a threshold. Default threshold is 80. If it is lowered, more results will come but there will be a higher chance to obtain a false match |
| 9 | Match Image button | This button starts Image matching based on the parameters provided |
| 10 | Navigation buttons | Alarm Search or Image matching search results navigation buttons |



| Terson Occurrences | ++ | 12 | | × |
|---|----|------|------|---|
| 24/01/2017 11:32:52 24/01/2017 11:42:52 Image: Comparison of the second se | | | | |
| Search Export PDF Image Score Date/Time Age Gender Source Alarmid | | << < | > >> | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

- 1 Select Start Date
- 2 Select an End Date
- 3 Select from which camera desired alarms must be obtained from
- 4 Click on "Search" button



| Person Occurrences | | | | | | | * | 177 | | × |
|---|-----------------------|---------|--------|--------------------------|-------------|----------------------|-----|------|------|---|
| 24/01/2017 07:32:52 | 24/01/2017 1 | 2:42:52 | | * | Se | lect File | 1 | T m | | |
| All Cameras | | | | ~ | Threshold | : 80 - | | | | |
| | | | | | | | -tt | | 4 | |
| | | | | | | | 4 | 14 | 7 | |
| | | | | | Mat | ch Image | | | | |
| Search | Export PDF | | - | Page 1 | of 36 (Tota | al Records:1079 - |) [| << < | > >> | |
| Image Score | Date/Time | Age | Gender | Source | AlarmId | | | | | ^ |
| | 1/24/2017 11:56:43 AM | 37 | MALE | 192.168.0.102 - Camera 1 | 15153 | | | | | |
| Ne la constante de la constante | 1/24/2017 11:56:43 AM | 45 | FEMALE | 192.168.0.102 - Camera 1 | 15152 | | | | | |
| | 1/24/2017 11:56:41 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15150 | | | | | |
| | 1/24/2017 11:56:40 AM | 45 | FEMALE | 192.168.0.102 - Camera 1 | 15151 | | | | | |
| | 1/24/2017 11:56:40 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15149 | | | | | |
| t t | 1/24/2017 11:56:34 AM | 40 | FEMALE | 192.168.0.102 - Camera 1 | 15148 | | | | | |
| | 1/24/2017 11:56:13 AM | 43 | FEMALE | 192.168.0.102 - Camera 1 | 15147 | | | | | |
| | 1/24/2017 11:56:03 AM | 41 | FEMALE | 192.168.0.102 - Camera 1 | 15146 | | | | | ~ |

Search button

Resulting alarms will be displayed ordered by Alarm Date.

| Table parameters | Explanation |
|------------------|-----------------------------------|
| Image | Face detected in alarm |
| Score | Used for Image Matching results |
| Date/Time | Alarm date and time |
| Gender | Detected person gender |
| Source | Camera or source element detected |
| AlarmId | System internal Id |



| Person Occurrences | | | | | | | * | | | × |
|---------------------|-------------------------|---------|--------|--------------------------|------------------------|---------------------------------|---|------|--------------------|---|
| 24/01/2017 07:32:52 | □ ▼ 24/01/2017 1 | 2:42:52 | | | Se Threshold Mat | lect File : 80 · ch Image | | | | |
| Search | Export PDF | | | Page 1 | of 36 (Tota | IRecords:1079 |) | << < | $ \rangle \rangle$ | |
| Image Score | Date/Time | Age | Gender | Source | AlarmId |] | | | | ^ |
| | 1/24/2017 11:56:43 AM | 37 | MALE | 192.168.0.102 - Camera 1 | 15153 | | | | | |
| | 1/24/2017 11 56:43 AM | 45 | FEMALE | 192.168.0.102 - Camera 1 | 15152 | | | | | |
| | 1/24/2017 11:56:41 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15150 | | | | | ł |
| | 1/24/2017 11 56:40 AM | 45 | FEMALE | 192.168.0.102 - Camera 1 | 15151 | | | | | |
| | 1/24/2017 11:56:40 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15149 | | | | | |
| | 1/24/2017 11 56:34 AM | 40 | FEMALE | 192.168.0.102 - Camera 1 | 15148 | | | | | |
| | 1/24/2017 11:56:13 AM | 43 | FEMALE | 192.168.0.102 - Camera 1 | 15147 | | | | | |
| | 1/24/2017 11:56:03 AM | 41 | FEMALE | 192.168.0.102 - Camera 1 | 15146 | | | | | ~ |

On Results screen, click on the picture on an Alarm.



| 😗 Pe | rson Occu | irrences | | | | | | + | | | × |
|--------|-----------|----------|-----------------------|---------|--------|--------------------------|-------------|---------------|------|------|---|
| 24/0 | 1/2017 01 | 73252 | | 2:42:52 | i i | | Sel | ect File | 1390 | | |
| All Ca | ime ras | | | | | | Threshold: | 80 - | (Be | L | |
| | Search | | Export PDF | | | Page 1 | of 36 (Tota | Records:1079) | << < | > >> | |
| | Image | Score | Date/Time | Age | Gender | Source | AlarmId | | | | ^ |
| | | | 1/24/2017 11:56:43 AM | 37 | MALE | 192.168.0.102 - Camera 1 | 15153 | | | | |
| | | 4915 | 1/24/2017 11:56:43 AM | 45 | FEMALE | 192.168.0.102 - Camera 1 | 15152 | | | | |
| | | | 1/24/2017 11:56:41 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15150 | | | | |
| | | | 1/24/2017 11 56:40 AM | 45 | FEMALE | 192.168.0.102 - Camera 1 | 15151 | | | | |
| • | | | 1/24/2017 11:56:40 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15149 | | | | |
| | | 4611 | 1/24/2017 11:56:34 AM | 40 | FEMALE | 192.168.0.102 - Camera 1 | 15148 | | | | |
| | | 1915 | 1/24/2017 11:56:13 AM | 43 | FEMALE | 192.168.0.102 - Camera 1 | 15147 | | | | |
| | | ACTE | 1/24/2017 11:56:03 AM | 41 | FEMALE | 192.168.0.102 - Camera 1 | 15146 | | | | ~ |

Alarm image will be displayed on the "Selected picture for image match" field.

Select a proper Threshold and click on the "Match Image" button.

Image Matching using System Alarm



A loading screen will appear. It can take some seconds to display a result.

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| Person Occu | irrences | | | | | | | ++ | 1775 | | \times |
|---------------|----------|-------------------------|---------|--------|--------------------------|---------------|------------|----|------|------|----------|
| 24/01/2017 07 | 732.52 | □ ▼ 24/01/2017 1 | 2:42:52 | | * | Sel | ect File | | | | |
| All Cameras | | | | | ~ | Threshold: | 80 | 4 | | | |
| | | | | | | Mato | h Image | | | 5 | |
| Search | | Export PDF | | | Page 1 | of 1 (Total I | Records:5) | | << < | > >> | |
| Image | Score | Date/Time | Age | Gender | Source | AlarmId | | | | | |
| • | 0.999 | 1/24/2017 12:05:43 PM | 33 | MALE | 192.168.0.102 - Camera 1 | 15213 | | | | | |
| | 0.999 | 1/24/2017 11 56:43 AM | 37 | MALE | 192.168.0.102 - Camera 1 | 15153 | | | | | |
| | 0.998 | 1/24/2017 11:56:41 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15150 | | | | | |
| | 0.998 | 1/24/2017 11 56:40 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15149 | | | | | |
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Similar faces (the ones that matched with a threshold above the determined value) will appear.

Resulting alarms will be displayed ordered by Alarm Date.

Image - Face detected in alarm.

- Score Used for Image Matching results. It goes from 0.0 to 1.0. The closest to 1.0, the most possible it is that the pictures correspond to the same person.
- Date/Time Alarm date and time.
- Gender Detected person Gender.
- Source Camera or source element detected.
- AlarmId System internal Id



4.1.4 Image Matching using Picture from file

| 🐨 Person Occurrences | * | | | × |
|---|---|----------------|------|---|
| 24/01/2017 105854 24/01/2017 12:08:54 | Л | \overline{m} | ١ | |
| All Cameras Threshold: 80 • | H | | 4 | |
| Match Image | H | | 7 | |
| Search Export PDF | | << < | > >> | |
| Image Score Date/Time Age Gender Source Alarmuld | | | | |
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Alarms Screen - Image Matching using Picture from file

| 🐨 Person Occurrences | ** | | | \times |
|---|----|------|---------------------|----------|
| 24/01/2017 1058.54 24/01/2017 12:08:54 Select File | | 2 | | |
| All Cameras Threshold: 80 Threshold: 80 | | É/ | | |
| Match Image |] | | | |
| Search Export PDF | | << < | \rightarrow \gg | |
| Image Score Date/Time Age Gender Source Alarmid | | | | |
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Alarms Screen - Image Matching using Picture from file



A loading screen will appear. It can take some seconds to display a result.



Alarms Screen - Image Matching using Picture from file

| Person Occurrences | | | | | | - C |) × |
|-------------------------------|----------|--------|--------------------------|-------------------------|---|-------------------|------|
| 24/01/2017 105854 | 12.08.54 | | ▼ | Select File | | 2 | |
| All Cameras | | | | Threshold: 80 🔹 | Ě | | |
| | | | | Match Image | | | |
| Search Export PDF | | | Page 1 | of 1 (Total Records: 5) | | $\langle \rangle$ | · >> |
| Image Score Date/Time | Age | Gender | Source | Alarmid | | | |
| • 0,905 1/24/2017 12:05:43 PN | 1 33 | MALE | 192.168.0.102 - Camera 1 | 15213 | | | |
| 0.850 1/24/2017 11 56:43 AM | 1 37 | MALE | 192.168.0.102 - Camera 1 | 15153 | | | |
| 0.811 1/24/2017 11:56:41 AM | 4 33 | MALE | 192.168.0.102 - Camera 1 | 15150 | | | |
| 0.811 1/24/2017 11 56:40 AM | 1 33 | MALE | 192.168.0.102 - Camera 1 | 15149 | | | |
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Similar faces (the ones that matched with a threshold above the determined value) will appear.

Resulting alarms will be displayed ordered by Alarm Date.

Image - Face detected in alarm.

Score - Used for Image Matching results. It goes from 0.0 to 1.0. The closest to 1.0, the most possible it is that the pictures correspond to the same person.

Date/Time - Alarm date and time.

Gender - Detected person Gender.

Source - Camera or source element detected.

AlarmId - System internal Id



| Person Occurrences | | | | | | | ** | | | × |
|---------------------|-----------------------|---------|--------|--------------------------|---------------|------------|----|------|------|-----|
| 24/01/2017 10:58:54 | 24/01/2017 1 | 2.08.54 | | 4 | Sel | ect File | 9 | - | | |
| All Cameras | | | | | Threshold: | 80 - | | | | |
| | | | | | Mato | ch Image | | | | |
| Search | Export PDF | | | Page 1 | of 1 (Total I | Records:5) | [| << < | > >> | i i |
| Image Score | Date/Time | Age | Gender | Source | AlarmId | | | | | |
| • 0.905 | 1/24/2017 12:05:43 PM | 33 | MALE | 192.168.0.102 - Camera 1 | 15213 | | | | | |
| 0.850 | 1/24/2017 11:56:43 AM | 37 | MALE | 192.168.0.102 - Camera 1 | 15153 | | | | | |
| 0.811 | 1/24/2017 11:56:41 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15150 | | | | | |
| 0.811 | 1/24/2017 11:56:40 AM | 33 | MALE | 192.168.0.102 - Camera 1 | 15149 | | | | | |
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| | 1 | ayonix (bwork-2) | |
| • | / | Desktop | |
| | | APS Docs | |
| | > | Ayonix.Service.2 | |
| | | AyonixAlarmPopupPlugin | |
| | > | AyonixCameraPlayer | |
| | - 2 | • | ~ |
| × | | | _ |

Select a folder and click on "OK" button.

Alarms Screen - Export Results to PDF



A loading screen will appear. It can take some seconds.



Person Detection Chart

Start Date: 2017-01-24 10:58:54 End Date: 2017-01-24 12:08:54

Threshold: 80



| e | Score | Date / Time | Age | Gender | Source |
|-----|-------|--------------------------|-----|---------------|-----------------------------|
| | 0.811 | 1/24/2017 12:05:44 PM | 37 | MALE (-1.000) | 192.168.0.102 - Camera 1 |
| | 0.905 | 1/24/2017 12:05:43 PM | 33 | MALE (-1.000) | 192.168.0.102 - Camera 1 |
| C S | 0.850 | 1/24/2017 11:56:43 AM | 37 | MALE (-1.000) | 192.168.0.102 - Camera 1 |
| | 0.811 | 1/24/2017 11:56:41 AM | 33 | MALE (-1.000) | 192.168.0.102 - Camera 1 |
| | 0.811 | 1/24/2017 11:56:40 AM | 33 | MALE (-1.000) | 192.168.0.102 - Camera 1 |

Results are shown on PDF file created on the desired folder.