



Facial Recognition

User Manual

V2.17.04.1



Workforce Management Solutions

Securing your time and resources

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Review Sequence

DATE	VERSION	AUTHOR	DETAILS
2017-04	2.17.04.0	CL van der Walt	Initial version

1. Software & Firmware Versions

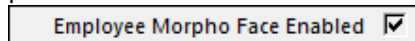
The following minimum version software and firmware is needed for this feature:

- Controller Interface V2.17.04.1
- XTUpgrade V2.17.04.1
- EC3 Controller Firmware: ec3contrV741Morpho

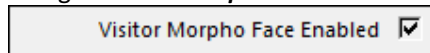
2. Global Settings

2.1 System Parameters

Navigate to **CODES | CONFIGURATION | SYSTEM PARAMETERS | SYSTEM | EMPLOYEE** tab. Enable the employee parameter:



Navigate to **CODES | CONFIGURATION | SYSTEM PARAMETERS | SYSTEM | VISITOR** tab.

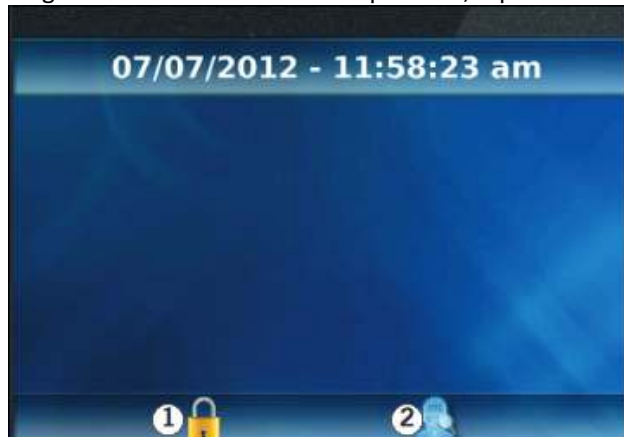


2.2 Properties file

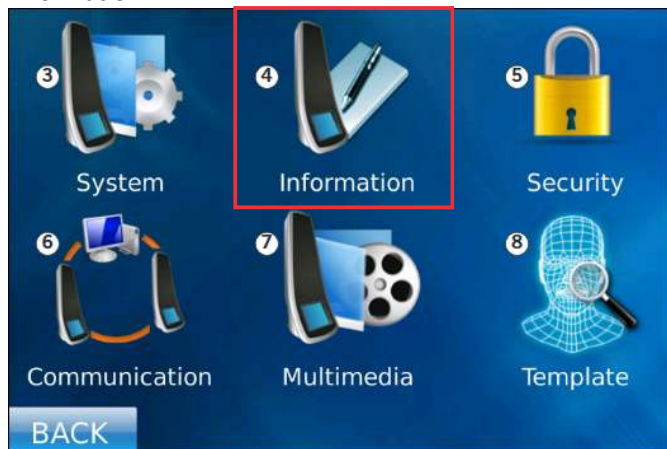
Enter the IP Address of the Morpho unit that will be used to capture the face with the following parameter:

```
Morpho.Face.IP = 192.168.108.80
```

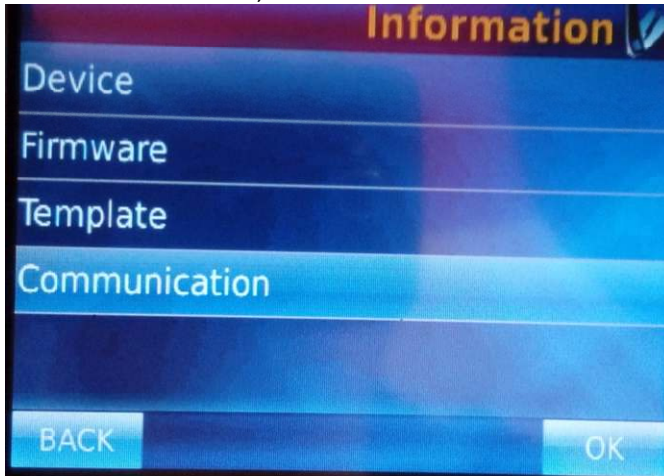
To get the IP address of the Morpho unit, tap on the screen of the Morpho unit:



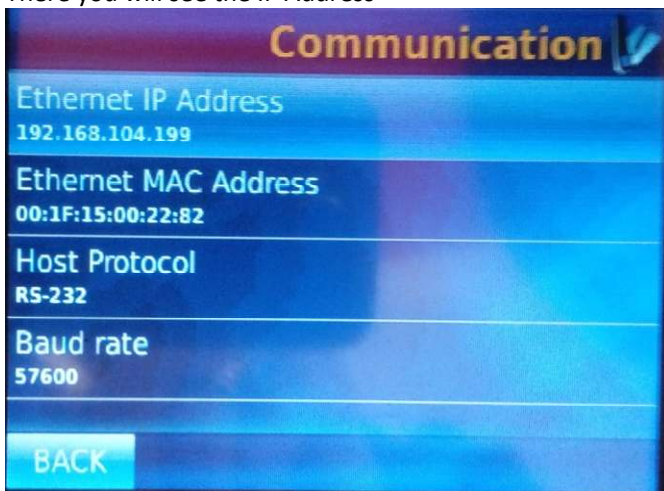
Tap on the padlock (1) and enter the default password of 0000. This will bring you to the main menu. Select (4) Information:



Select Communication;

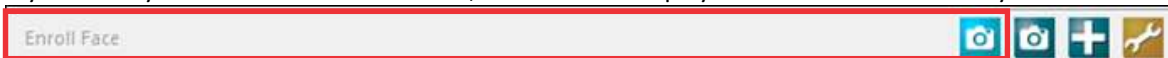


There you will see the IP Address



3. Capturing a Face

Navigate to EMPLOYEES and search for an employee. At the bottom of the screen you will now see 2 capture icons. If you move your mouse over the buttons, a hint will be displayed to indicate which icon you need to use.



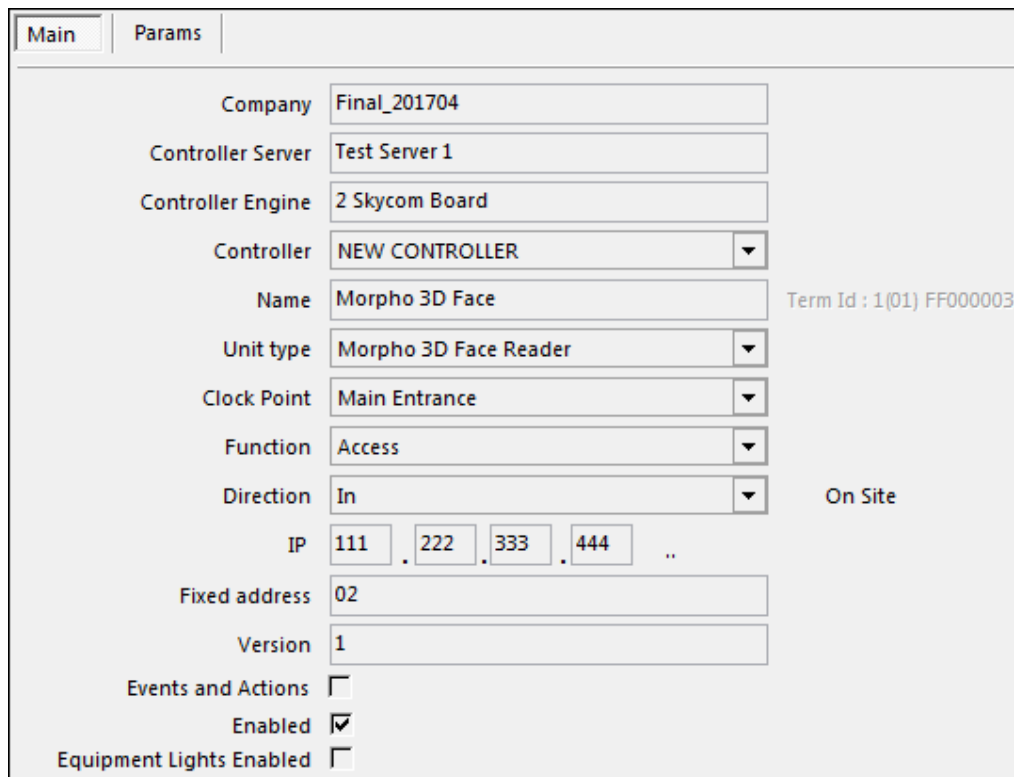
The face is captured through the XTime Biometrics . Follow the prompts on the screen of the XTime Biometrics. Once the face is captured, the original photo that was captured will be replaced by this one.



At the bottom of the photo, there is a quality and enrolled date label

4. Terminal Settings

4.1 Main



The Terminal must be loaded on an EC3 controller and be linked to any other terminal where the employee will scan his tag or finger or both and wake the Morpho unit. The important settings for the Morpho unit are:

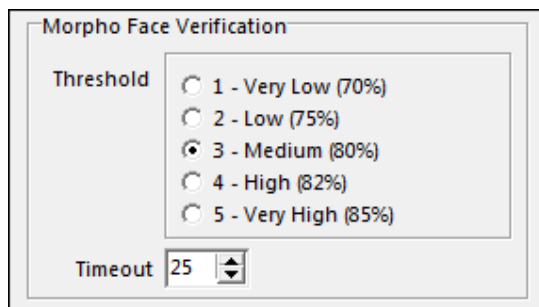
Unit Type: Morpho 3D Face Reader

Clockpoint: The Clock point must be the same as the linked terminal

IP Address: the Morpho unit IP address

4.2 Params

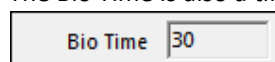
There are new parameters to be set on the params tab:



Threshold: The Threshold default is 3 – Medium (80%)

Timeout: This is the amount of seconds that will pass before the capture times out.

The Bio Time is also a timeout and is the amount of seconds that will pass when verifying the face.



4.3 Linked Terminal

Bio Reader Morpho 3D Face ▼
 Check Bio

There are 2 parameters that need to be set on the linked terminal. The Check Bio and the name of the Bio Reader linked.

5. Clockpoint Settings

There is only one setting of the params tab:

Bio Validation

6. Dashboard

There is a version of EC3 controller firmware called ec3contrV741Morpho that must be loaded on the controllers that have a face unit attached. Once the firmware has been loaded, the unit will show online:

Controller Id 01		Address 192.168.104.190	<input type="button" value="Ping"/>																						
Name EABR_1897034F	Status Up	Status time 28-03-2017 11:13:20	<input type="button" value="Reset"/> Reset Time 28-03-2017 11:13:20																						
Version 7.41	Connected ...	Token Expiry 26-04-2017 15:03:47	<input type="button" value="Reload tables"/> Upload Time 27-03-2017 16:03:47																						
Model EC3																									
Comms 20170328-183																									
<div style="display: flex; border-bottom: 1px solid gray;"> Terminals Clocks Interface </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Status</th> <th>Id</th> <th>Name</th> <th>Version</th> <th>Fixed Addr</th> <th>Type</th> <th>IP Address</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">✓</td> <td>1</td> <td>EABR_1897034F</td> <td>2.20</td> <td>1897034F</td> <td>EABR</td> <td>192.168.104.190</td> </tr> <tr> <td style="text-align: center;">✓</td> <td>2</td> <td>Morpho 3D Face</td> <td>1</td> <td>02</td> <td>Morpho 3D Face Reader</td> <td>192.168.108.80</td> </tr> </tbody> </table>					Status	Id	Name	Version	Fixed Addr	Type	IP Address	✓	1	EABR_1897034F	2.20	1897034F	EABR	192.168.104.190	✓	2	Morpho 3D Face	1	02	Morpho 3D Face Reader	192.168.108.80
Status	Id	Name	Version	Fixed Addr	Type	IP Address																			
✓	1	EABR_1897034F	2.20	1897034F	EABR	192.168.104.190																			
✓	2	Morpho 3D Face	1	02	Morpho 3D Face Reader	192.168.108.80																			

Status when unplugged:

Controller Id 01		Address 192.168.104.190	<input type="button" value="Ping"/>																						
Name EABR_1897034F	Status Up	Status time 28-03-2017 11:14:20	<input type="button" value="Reset"/> Reset Time 28-03-2017 11:14:20																						
Version 7.41	Connected None	Token Expiry 26-04-2017 15:03:47	<input type="button" value="Reload tables"/> Upload Time 27-03-2017 16:03:47																						
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✓	1	EABR_1897034F	2.20	1897034F	EABR	192.168.104.190																			
?	2	Morpho 3D Face	1	02	Morpho 3D Face Reader	192.168.108.80																			

7. Clockings

When an employee, contractor or visitor clocks via finger or tag at the linked reader, a present face event is displayed on the screen indicating that the employee should stand in front of the unit to verify his face.

The following are scenarios tested on the unit:

7.1 Clock at the linked terminal and present face

Date	Time	Dir.	Reader	Response	Reason
2017-03-27	16:11:08	In	EABR_1897034F	Present Face	
2017-03-27	16:11:12	In	EABR_1897034F	Allowed In	

7.2 Present an incorrect face

Date	Time	Dir.	Reader	Response	Reason
2017-03-27	16:19:14	In	EABR_1897034F	Present Face	
2017-03-27	16:19:21	In	EABR_1897034F	Face Mismatch	

7.3 Present face timeout

Date	Time	Dir.	Reader	Response	Reason
2017-03-27	16:38:29	In	EABR_1897034F	Present Face	
2017-03-27	16:38:58	In	EABR_1897034F	Face Mismatch	

7.4 Reader closed in timeout period

Date	Time	Dir.	Reader	Response	Reason
2017-03-27	16:27:31	In	EABR_1897034F	Present Face	
2017-03-27	16:27:54	In	EABR_1897034F	Reader Closed	

7.5 Future dated Ignore Morpho Face

Navigate to Employee | Access | General and enable the Ignore Morpho Face with a date in the future. This means that until 2017-03-30 00:00:00 the face will be ignored for this individual:

Ignore Morpho Face Expires

Date	Time	Dir.	Reader	Response	Reason
2017-03-28	14:00:04	In	Sigma	Allowed In	
2017-03-28	14:04:06	In	EABR_1897034F	Allowed In	
2017-03-28	14:04:09	In	EABR_1897034F	Allowed In	
2017-03-28	14:04:12	In	EABR_1897034F	Allowed In	

7.6 Expired Ignore Morpho Face

Change the date to be in the past. The face is required again (Bio Not Active is shown because the unit is not plugged in)

Ignore Morpho Face Expires

01	28-03-2017 14:06:04	EABR_1897034F	EmpNo:1	1/208281636089	In	Biometric Device Not Active
01	28-03-2017 14:06:24	EABR_1897034F	EmpNo:1	1/208281636089	In	Biometric Device Not Active
01	28-03-2017 14:06:30	EABR_1897034F	EmpNo:1	1/208281636089	In	Biometric Device Not Active

7.7 Clockpoint | Params | Bio Validation

Disabling the parameter on the clockpoint will allow access without presenting a face.

Bio Validation

01	28-03-2017 14:11:59	EABR_1897034F	EmpNo:1	1/208281636089	In	Allowed In
01	28-03-2017 14:12:04	EABR_1897034F	<4>	1/208281634847	In	Allowed In
01	28-03-2017 14:12:07	EABR_1897034F	EmpNo:1	1/208281636089	In	Allowed In
01	28-03-2017 14:12:08	EABR_1897034F	<4>	1/208281634847	In	Allowed In

7.8 Global Settings on the System Parameters

Disable the Employee setting but leave the Visitor Setting enabled:

Employee Morpho Face Enabled

Visitor Morpho Face Enabled

01	28-03-2017 14:15:17	EABR_1897034F	EmpNo:1	1/208281636089	In	Allowed In
01	28-03-2017 14:15:21	EABR_1897034F	<4>	1/208281634847	In	Biometric Device Not Active
01	28-03-2017 14:15:27	EABR_1897034F	EmpNo:1	1/208281636089	In	Allowed In
01	28-03-2017 14:15:29	EABR_1897034F	<4>	1/208281634847	In	Biometric Device Not Active
01	28-03-2017 14:15:35	EABR_1897034F	EmpNo:1	1/208281636089	In	Allowed In

7.9 Override Tag: Face

Add the Face override function to an override tag:

Tag Number:

Tag Type:

Tag function: Override

Responsible Emp.:

Functions allowed:

- Anti-passback
- Zone
- Shift
- Certificate
- Parade
- Vehicle sequence
- Finger
- Lockdown
- Expiry
- Capacity Full
- Checkpoint timeout
- Face

Contr	Time	Terminal	Master	Tag	Dir	Event
01	28-03-2017 13:31:26	EABR_1897034F	EmpNo:1	1/208281636089	In	Biometric Device Not Active
01	28-03-2017 13:31:31	EABR_1897034F	<0>	1/208281617755	In	Override Tag
01	28-03-2017 13:31:32	EABR_1897034F	EmpNo:1	1/208281636089	In	Override Tag
01	28-03-2017 13:31:33	EABR_1897034F	EmpNo:1	1/208281636089	In	Allowed Override In
01	28-03-2017 13:31:38	EABR_1897034F	<4>	1/208281634847	In	Biometric Device Not Active
01	28-03-2017 13:31:43	EABR_1897034F	<0>	1/208281617755	In	Override Tag
01	28-03-2017 13:31:44	EABR_1897034F	<4>	1/208281634847	In	Override Tag
01	28-03-2017 13:31:45	EABR_1897034F	<4>	1/208281634847	In	Allowed In

8. Reporting

There are two reports for the facial feature. **COMMON REPORTS | LISTS | Face Templates** and **VISITOR REPORTS | Visitor Face Templates**

Face Templates

Department: <Unselected>

Gang: <Unselected>

Occupation: <Unselected>

Payroll: <Unselected>

Group: <Unselected>

Work Location: <Unselected>

Employer: <Unselected>

Printer: PrimoPDF

Order: Department Gang Employee

Option: Face No Face

Scope: Active Discharged All

Face Templates Layout

Employee	Surname	Initials	Occupation	Employer	Work Location	Date Capt	Score
Employee	Surname	Initials	Occupation	Employer	Work Location	Date Capt	Score
1	2	3	4	7	8	9	10

Orientation: Portrait Landscape

Font: Arial

Font size: 9

Print Footer:

Available fields

- Employee
- Surname
- Initials
- Occupation
- Employer
- Work Location
- Date Captured
- Score
- Gang
- Responsible person

Width: 18

With Face template:

Final_201704 Master Face

Persons with face templates (MORPHO)-All

Page : 1
Date : 2017-03-28 20:16:11
Requested by : Dyllan.okelly
Version : 2.17.3.28

Employee	Surname	Initials	Gang	Employer	Work Location	Date Captured	Score
1	Jones	T	Default			2017-03-27 15:18:46	50

Without Face template:

Final_201704 Master Face

Persons without face templates (MORPHO)-All

Page : 1
Date : 2017-03-28 20:18:46
Requested by : Dyllan.okelly
Version : 2.17.3.28

Employee	Surname	Initials	Employer	Work Location	Date Captured	Score
2	Scott	J				
3	Smith	P				

Visitor:

Visitor Face Templates

Printer: PrimoPDF

Option: Face No Face

Scope: Active Expired All

Visitor Category: One Day

** None selected will print all

Visitor Face Templates Layout

ID	Surname	Initials	Employer
1	2	3	4

Orientation: Portrait Landscape

Font: Arial


Font size: 9

Print Footer:

Available fields

- ID
- Surname
- Initials
- Employer

Width: 18



Final_201704

Visitor Face Templates

Visitors with face templates (MORPHO)-All

Page : 1

Date : 2017-03-28 20:00:36

Requested by : Dyllan.okelly

Version : 2.17.3.28

ID	Surname	Initials	Employer	Date Captured	Score
VIS01	VISITOR	O	A COMAPNY	2017-03-27 16:15:20	60

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