



User Manual

ePushServer

Web Based Application e-Push Sever Linux and Windows Based

The Software has been written using Java 1.8 Version for easy Integration across all OS platforms. It has been created to do Seamless Integration for managing ESSL Attendance Devices over the Web.

Following operations can be performed using the e-PUSH SERVER Software –

- Create Users, Employees and Device Information
- Upload Employees, Upload Employees Fingerprints, Face, Palm, cards, Password Create Device Commands for device execution
- View Attendance Log Reports, Device Operation Log Reports, Device Command Log Report

The Software can be deployed on following Operating System –

- Windows
- Linux
- Mac

The Software can be deployed on following Web Server on Windows operating System -

- IIS with Apache Tomcat
- Apache with Apache
- Tomcat Apache Tomcat

The Software can be deployed on following Web Server on Linux operating System –

- Apache server with Apache Tomcat
- Apache Tomcat

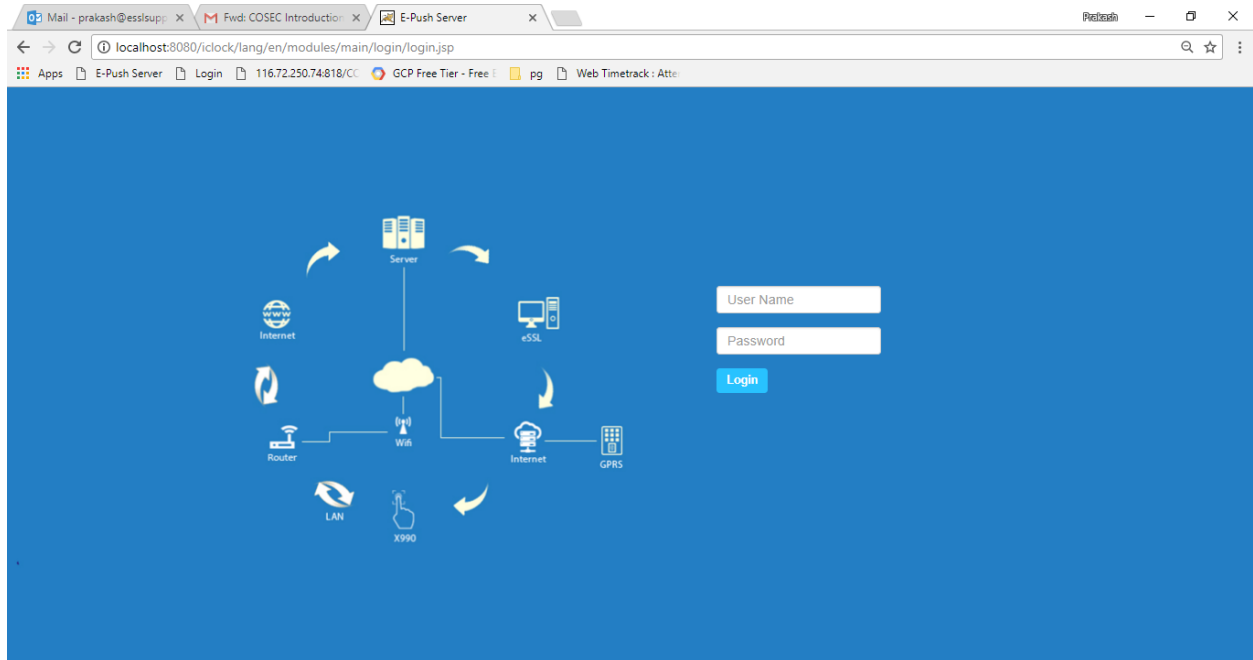
The Software Backend Data Management is managed using following Databases -

- Microsoft SQL Server
- MYSQL Server
- Oracle Server
- Postgres SQL

The features of the software are –

- Less Database connectivity because of better data management inside the software
- Real time attendance data updated for processing
- Software can handle Load Balancing
- Hardware requirement is less.
- It can be hosted on LAN or WAN Network
- Fixed database table structure for managing the software.
- Device logs table is created based on month and year.
- We can integrate the system with other system easily.

Application Front Page



Username : root

Password : root

Main Window

E-PUSH SERVER DASHBOARD ADMIN MASTER DEVICE MANAGEMENT ESSL LOG OUT

TOTAL EMPLOYEE
334

TOTAL DEVICE
6

TOTAL LOG OF MONTH
9

TOTAL LOG OF DAY
9

LIVE DEVICE LOGS												
	Device-Log	Device-Name	Serial No.	Device-Location	Emp-Code	Emp-Name	Log-Date	Downloaded-Date	Verify Method	Lat	Long.	Log-Img
1	9	SF	QIN612006611	essl	1	vishnu	2017-10-06 11:55	2017-10-06 11:56	VS_FACE	0	0	
2	8	SF	QIN612006611	essl	1	vishnu	2017-10-06 11:55	2017-10-06 11:55	VS_FACE	0	0	
3	7	SF	QIN612006611	essl	1133	0	2017-10-06 11:55	2017-10-06 11:55	VS_FACE	0	0	
4	6	SF	QIN612006611	essl	1133	0	2017-10-06 11:55	2017-10-06 11:55	VS_FACE	0	0	

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Main Window Tabs:

1. Dashboard
2. Admin
3. Master
4. Device Management

1. Dashboard :

In Dash board we can view live data [Log records]

- a. **Total Employee:** Total number of employees enrolled.
- b. **Total Devices:** Total number of devices connected.
- c. **Total Log of Month:** Total number of punch records in a month.
- d. **Total Log the day:** Total number of punch records in a day.

2. Admin : User Info

The screenshot shows the eSSL application interface. At the top is a navigation bar with tabs: E-PUSH SERVER, DASHBOARD, ADMIN, MASTER, and DEVICE MANAGEMENT. On the right of the navigation bar are links for ROOT and LOG OUT. Below the navigation bar are four summary cards: TOTAL EMPLOYEE (9), TOTAL DEVICE (3), TOTAL LOG OF MONTH (23), and TOTAL LOG OF DAY (0). Below these cards is the 'USER INFO' section, which contains a table with columns: User Id, Login-Name, Admin, Last-Login, Edit, and Status. The table has one row with data: 1, 101, root, YES, 2017-12-05 10:28:59, and Enabled. Above the table are filters for User Types, TOP, and Status. At the bottom of the User Info section is a pagination bar showing Page 1 of 1 and a view count of 1 - 1 of 1.

User Id	Login-Name	Admin	Last-Login	Edit	Status
1	101	root	YES	2017-12-05 10:28:59	Enabled

User Info is used to create application login users with **ADD** option and also can **SEARCH, EDIT, FILTER** the users

User Info → Search

USER INFO

User Types: [All] | TOP: [Top-500] | Status: [All] | [Search]

	User Id	Login-Name	Admin	Last-Login	Edit	Status
1	101	root	YES	2017-12-05 10:28:59	[Edit]	Enabled

Search...

User Id equal []

User Id
Login-Name
Admin
Last-Login
Edit
Status

[Find]

Page 1 of 1 | 100 | View 1 - 1 of 1

User Info → Edit

Update User Info

LOGIN NAME: root

PASSWORD:

UPDATE PASSWORD: ☐

ADMIN: ☒

STATUS: ☒

[Update] [Cancel]

Employee info→Edit

Update Employee

NAME	<input type="text" value="Prakash L"/>	CODE	<input type="text" value="1133"/>
DEVICE CODE	<input type="text" value="1133"/>	DEVICE PASSWORD	<input type="text"/>
RFID NUMBER	<input type="text" value="321456987"/>	STATUS	<input type="text" value="Active"/>

Employee info → Search

Search...

Empl. Id	equal	<input type="text"/>
----------	-------	----------------------

Empl. Id
Emp. Name
Emp. Code
Emp. Code In Device
Emp. Device Pwd.
RFID Number
Status
Edit
In-Activate

Find

		1
		1133
		123

Employee info → Upload Employee Info

In this option we can upload employees information through excel sheet format we given in master - employees

E-PUSH SERVER
DASHBOARD
ADMIN
MASTER
DEVICE MANAGEMENT

ROOT
LOG OUT

TOTAL EMPLOYEE
9

TOTAL DEVICE
3

TOTAL LOG OF MONTH
23

TOTAL LOG OF DAY
0

UPLOAD EMPLOYEES INFO

EmployeeInfo.csv

#	Employee Name	Employee Code	Device Code	Password	Card Number
1	1	1	1		
2	1133	1133	1133		
3	shai	123	123		
4	1782	1782	1782		
5	1804	1804	1804		
6	2	2	2		
7	3	3	3		
8	4	4	4		
9	5	5	5		

Page 1 of 1
100
View 1 - 9 of 9

4. Device Management

It is used to add the devices in the application and also to search the devices

Device Management → Device Info

E-PUSH SERVER
DASHBOARD
ADMIN
MASTER
DEVICE MANAGEMENT

ROOT
LOG OUT

TOTAL EMPLOYEE
2

TOTAL DEVICE
11

TOTAL LOG OF MONTH
1

TOTAL LOG OF DAY
0

DEVICE INFO

TOP

DEVICES

[Top-500]

[ALL]

Q

	Device-Id	Device-FullName	Device-ShortName	Serial No.	Last Ping Date	Stamp	OP-Stamp	PH-Stamp	Edit	Status	Delete
1	101	I face	I face	6316153300601	2017/10/16 19:00:46	568499175	571863498	568499175	<input checked="" type="checkbox"/>	OFFLINE	
2	102	F18	F18	AIOR173960343	2017/10/31 16:05:00	9999	9999	0	<input checked="" type="checkbox"/>	OFFLINE	
3	110	Mssds1	Mssds1	OIN609005608290	-	0	0	0	<input checked="" type="checkbox"/>	OFFLINE	
4	109	Mssds	Mssds	OIN610005609300	-	0	0	0	<input checked="" type="checkbox"/>	OFFLINE	
5	111	ICLOCK990	iclock	OIN612003612200	2017/11/27 18:10:29	575489400	575489400	575489400	<input checked="" type="checkbox"/>	OFFLINE	
6	106	SFace	SF	OIN612006611080	2017/11/27 16:26:48	9999	9999	9999	<input checked="" type="checkbox"/>	OFFLINE	
7	103	TEst	test	OIN701005701080	2017/09/09 14:43:34	9999	9999	0	<input checked="" type="checkbox"/>	OFFLINE	
8	105	X990	x990	OIN703005703140	2017/10/31 15:48:36	9999	9999	0	<input checked="" type="checkbox"/>	OFFLINE	
9	104	ICLOCK990	ICLOCK990	OIN705003702210	2017/09/09 15:01:15	568565336	568566054	0	<input checked="" type="checkbox"/>	OFFLINE	
10	108	X99011	X990	OIN706005706200	2017/11/27 16:48:18	9999	9999	0	<input checked="" type="checkbox"/>	OFFLINE	
11	107	Palm Device	palm dVICE	OIN707006707120	2017/11/27 16:42:59	9999	9999	0	<input checked="" type="checkbox"/>	OFFLINE	

Page 0 of 1
100
View 1 - 11 of 11

ADD Device info –

Update Device Info

DEVICE NAME

SHORT NAME

SERIAL NUMBER

IP ADDRESS

LOCATION

TIMEZONE

TIMEOUT

DIRECTION

System Direction(In/Out) Device ▼

Update

Cancel

Device name: To assign a device name.

Short Name: To assign a short name.

Serial Number: To assign 19 digit serial number of the biometric device (It is Mandatory for device communication)

IP address: To assign device ip address

Location: To assign device location

Time Zone: This option is used for time synchronization where one can assign time zone value and as per that device timing automatically get synchronized with the server timing

Example:

India Time Zone [+5.30]:- +5:30 value is not recognized by the software so it is converted into minutes and then added to the software i.e., mentioning as 330 minutes $[(5*60) + 30]$

Dubai Time Zone [+4.00]:- +4:00 value is not recognized by the software so it is converted into minutes and then added to the software i.e., mentioning as 240 minutes $[(4*60) + 0]$

Time Out: when device is in idle mode and no punches are made then the device will get disconnected with the server after the set time. Default 300 second is assigned

Device Info → Search Option

The option is used to search the added device by its Device ID, Device Full Name, Serial Number, Last Ping Date, stamp, Op stamp, PH-Stamp, Edit, Status wise.

Device-Id	Device-FullName	Device-ShortName	Serial No.	Last Ping Date	Stamp	OP-Stamp	PH-Stamp	Edit	Status
i face	6316153300601			2017/10/16 19:00					
F18	AIOR173960343			2017/10/31 16:05					
Mssds1	OIN609005608290			-					

Right click on device –

All the below commands will execute only if the device is online

The screenshot displays the 'DEVICE MANAGEMENT' section of the eSSL interface. At the top, there are four summary cards: 'TOTAL EMPLOYEE 9', 'TOTAL DEVICE 3', 'TOTAL LOG OF MONTH 23', and 'TOTAL LOG OF DAY 0'. Below these is the 'DEVICE INFO' table. The table has columns for Device-Id, Device-FullName, Device-ShortName, Serial No., Last Ping Date, Stamp, OP-Stamp, PH-Stamp, Edit, Status, and Delete. Three devices are listed: 101 (I face), 114 (SF900), and 113 (F21). A right-click context menu is open over the first device (101), showing options: 'Reset Device Error', 'Reset Transaction Stamp', 'Reset OP Stamp', 'Reset Photo Stamp', 'Clear Logs From Device', 'Change Device IP Address', 'Change Device Subnet Mask', 'Change Device Gateway', and 'Change Device Card Key'. The status of device 101 is 'OFFLINE'.

Device-Id	Device-FullName	Device-ShortName	Serial No.	Last Ping Date	Stamp	OP-Stamp	PH-Stamp	Edit	Status	Delete
101	I face	I face	6316153300601	2017/12/02 16:03:22	0	0	0	[icon]	OFFLINE	[icon]
114	SF900	SF900	OIN612006611080	2017/12/04 17:00:00	0	0	0	[icon]	OFFLINE	[icon]
113	F21	F21	OIN706006705180	2017/12/01 17:00:00	0	0	0	[icon]	OFFLINE	[icon]

Reset Device error: At the time of connecting device to the software device will throw a error if the device is not compatible with the software. The command is used to clear these errors

Reset Transaction Stamp: The command is used to send a request to the device for resending all the log data to the application.

Reset OP Stamp: The command is used to send a request to the device for resending all the users along with fingerprint templates to the application.

Reset PH-Stamp: The command is used to send a request to the device for resending all the users along with Attendance Photo to the application.

Clear Logs from device: The command is used to clear all the logs from device.

Change Device Ip address: The command is used to change the device Ip address.

Change Device subnet mask: The command is used to change the device subnet mask.

Change Device Gateway: This command will change the device gateway.

Change Device Card Key: The command is used to change the mifare card password for the devices integrated with the mifare

Restart Device: The command is used to restart the device.

Device Management → Device Log

Device Logs contains raw data in which log records can be viewed and also used to filter Device wise and Date (From-To date) wise records

Auto- Reload: - The option is used to refresh the page automatically

Top – 500, 1000, 1000, 5000, 50000, 100000 logs can be filtered

E-PUSH SERVER
DASHBOARD
ADMIN +
MASTER -
DEVICE MANAGEMENT -
ESSL
LOG OUT

TOTAL EMPLOYEE
115
TOTAL DEVICE
10
TOTAL LOG OF MONTH
77769
TOTAL LOG OF DAY
10

AUTO-RELOAD
☐

TOP
[Top-500]

DEVICES
[ALL]

FROM DATE
2017-05-24

TO DATE
2017-05-24

	Device-Log	Device-Name	Serial No.	Device-Location	Emp-Code	Emp-Name	Log-Date	Downloaded-Da	Verify Method	Lat	Long.	Log-Img
1	77769	icloxck	OINB12003612	blr	988888888	988888888	2017-05-24 12:40	2017-05-24 12:40	VS_FP_OR_PW_OR_RF_	0	0	
2	77768	icloxck	OINB12003612	blr	988888888	988888888	2017-05-24 12:40	2017-05-24 12:40	VS_FP_OR_PW_OR_RF_	0	0	
3	77767	icloxck	OINB12003612	blr	988888888	988888888	2017-05-24 12:40	2017-05-24 12:40	VS_FP_OR_PW_OR_RF_	0	0	
4	77766	icloxck	OINB12003612	blr	988888888	988888888	2017-05-24 12:40	2017-05-24 12:40	VS_FP_OR_PW_OR_RF_	0	0	
5	77765	icloxck	OINB12003612	blr	988888888	988888888	2017-05-24 12:40	2017-05-24 12:40	VS_FP_OR_PW_OR_RF_	0	0	

Page 1 of 1
100
View 1 - 10 of 10

Device Logs → Search Logs

The option is used to search device logs by Device-LogID, Device Name, Serial Number, Device Location, Employee code, Employee name, Log date, Download date, Verify method, Lat, Long, Log.Img

Search...

Device-LogId equal

Device-LogId
Device-Name
Serial No.
Device-Location
Emp-Code
Emp-Name
Log-Date
Downloaded-Date
Verify Method
Lat
Long.
Log.Img

Find

DEVICE LOGS

AUTO-RELOAD ☐ TOP [Top-500] DEVICES [ALL] FROM DATE 2017-12-01 TO DATE 2017-12-05

	Device-LogId	Device-Name	Serial No.	Device-Location	Emp-Code	Emp-Name	Log-Date	Downloaded-Date	Verify Method	Lat	Long.	Log.Img
17	7				1		2017-12-02 16:59	2017-12-04 13:05	VS_FP	0	0	
18	6		006611	blr	1		2017-12-02 16:58	2017-12-04 13:05	VS_FP	0	0	
19	5	F21	OIN706006705	b	1133	1133	2017-12-01 12:08	2017-12-01 12:08	VS_FP	0	0	

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Device Management → Device Commands

The device command is used to view the status of the commands

For Example: - Upload users or fingerprint templates, reset OP stamp, reset transaction stamp, reset PH-photo Stamp etc

E-PUSH SERVER
DASHBOARD
ADMIN
MASTER
DEVICE MANAGEMENT
ROOT
LOG OUT

TOTAL EMPLOYEE
9
TOTAL DEVICE
3
TOTAL LOG OF MONTH
23
TOTAL LOG OF DAY
0

DEVICE COMMANDS

TOP: [Top-500]
DEVICES: [All]
FROM DATE: 2017-12-01
TO DATE: 2017-12-05
STATUS: [All]

Command Id	Device Name	Serial No.	Device Location	Device Commands	Created Date	Executed Date	Status	Delete	
1	2117	SF900	OIN61200661108	blr	DELETE USER 1133	2017-12-04 13:26:57	2017-12-04 13:27:06	SUCCESS	
2	2116	SF900	OIN61200661108	blr	ENROLL FINGER 1133[BioIndex=3]	2017-12-04 13:24:30	2017-12-04 13:25:25	SUCCESS	
3	2115	SF900	OIN61200661108	blr	ADD USER 1133	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS	
4	2114	SF900	OIN61200661108	blr	ADD USER 1133	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS	
5	2113	SF900	OIN61200661108	blr	RESET TRANSACTION STAMP	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS	
6	2112	SF900	OIN61200661108	blr	RESET TRANSACTION STAMP	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS	
7	2111	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:52	SUCCESS	
8	2110	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:51	SUCCESS	
9	2109	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:50	SUCCESS	
10	2108	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:50	SUCCESS	
11	2107	i face	6316153300601	blr	RESET PHOTOSTAMP	2017-12-02 16:00:35	2017-12-02 16:00:37	SUCCESS	

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Device Management → Device Operation Log

The option will display the operations of the device.

E-PUSH SERVER
DASHBOARD
ADMIN
MASTER
DEVICE MANAGEMENT
ROOT
LOG OUT

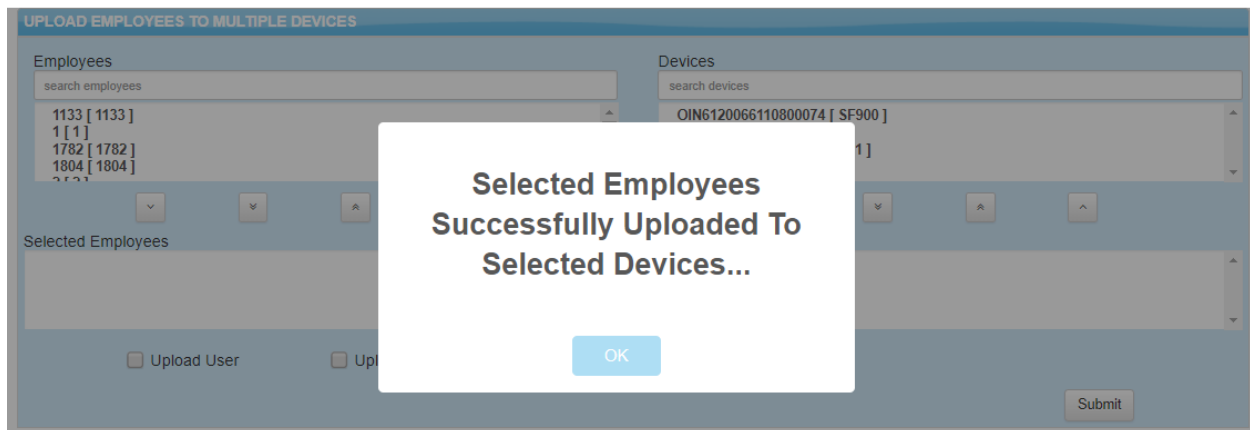
TOTAL EMPLOYEE
2
TOTAL DEVICE
11
TOTAL LOG OF MONTH
1
TOTAL LOG OF DAY
0

DEVICE OPERATIONS LOGS

AUTO-RELOAD: ☐
TOP: [Top-1000]
LOG TYPE: [All]
DEVICES: [All]
FROM DATE: 2017-10-01
TO DATE: 2017-11-28

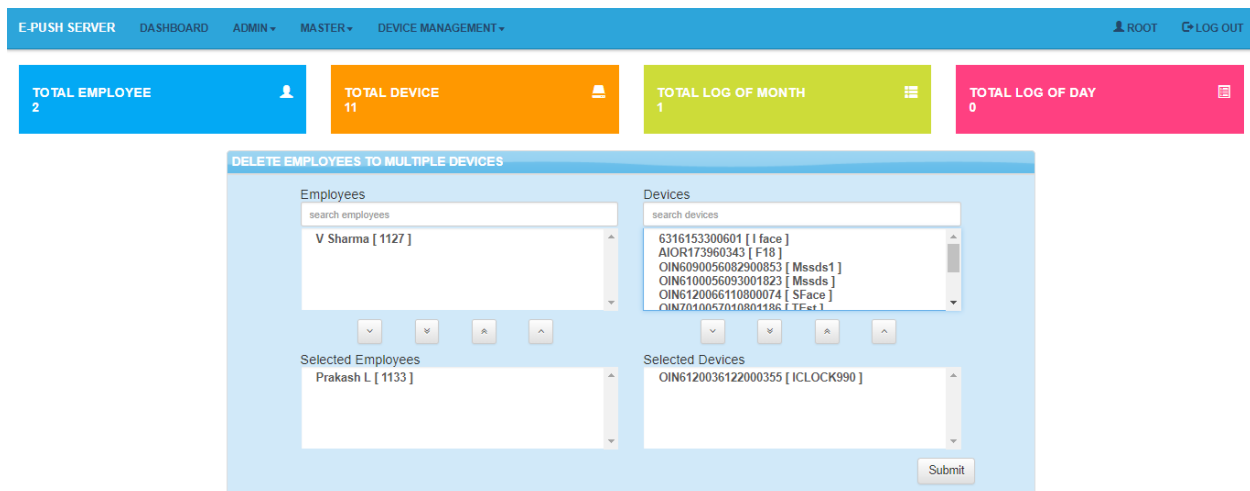
Device-OPLogId	Log-Type	Executed On	Device Name	Serial No.	Device Location	
1	2	Enter into the Main Menu	2017/11/27 18:10:09	iclock	OIN6120036122000355	BLR
2	1	Enter into the Main Menu	2017/11/27 18:09:57	iclock	OIN6120036122000355	BLR

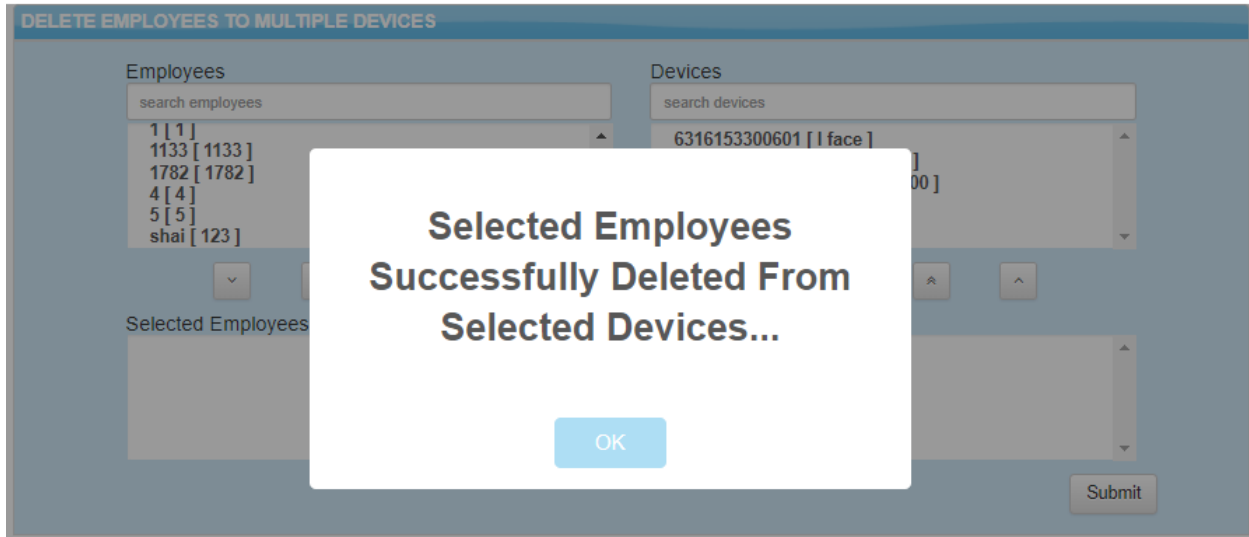
Page 1 of 1 | 100 | View 1 - 2 of 2



Device Management → Delete Employees from Device

The option is used to delete the employees from devices





Device Management – Upload Employees Attendance for a Device

Through pen drive we can take the raw data from Offline device upload data in epushserver database

E-PUSH SERVER DASHBOARD ADMIN MASTER DEVICE MANAGEMENT ESSL LOG OUT

TOTAL EMPLOYEE
115

TOTAL DEVICE
10

TOTAL LOG OF MONTH
77759

TOTAL LOG OF DAY
5

UPLOAD EMPLOYEES ATTENDANCE FOR A DEVICE

DEVICES
4265591420810 [x-9]

Choose file OIN606005606...._attlog.dat Upload Attendance

#	Employee Code	Log Date-Time
1	1582	2016-07-19 11:49:19
2	1582	2016-07-19 11:49:21
3	1582	2016-07-19 11:49:23
4	1582	2016-07-19 11:49:27
5	1582	2016-07-19 11:50:03
6	1582	2016-07-19 11:50:05
7	1582	2016-07-19 11:50:05
8	1582	2016-07-19 11:50:06
9	1582	2016-07-19 11:50:08
10	1582	2016-07-19 11:50:09
11	1582	2016-07-19 11:50:10
12	1582	2016-07-19 11:50:11

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Device Management- Device Employees Privilege

Through this option we can set admin privilege in Device

E-PUSH SERVER
DASHBOARD
ADMIN
MASTER
DEVICE MANAGEMENT
ROOT
LOG OUT

TOTAL EMPLOYEE
2
TOTAL DEVICE
11
TOTAL LOG OF MONTH
1
TOTAL LOG OF DAY
0

DEVICE EMPLOYEES PRIVILEGE

Employees
search employees
V Sharma [1127]

Devices
search devices
6316153300601 [I face]
AIOR173960343 [F18]
OIN6090056082900853 [Msds1]
OIN6100056093001823 [Msds]
OIN6120066110800074 [SFace]
OIN70100057010801186 [TFE1]

Selected Employees
Prakash L [1133]

Selected Devices
OIN6120036122000355 [ICLOCK990]

Select Privilege
Select Privilege
Normal
Admin

Submit

Device Management- Remote Employee Enrollment in Device

Through this option we can send user id to device then in device it will pop up finger print option we can punch time 3 time it will enroll and it save finger print in device.

E-PUSH SERVER
DASHBOARD
ADMIN
MASTER
DEVICE MANAGEMENT
ROOT
LOG OUT

TOTAL EMPLOYEE
2
TOTAL DEVICE
11
TOTAL LOG OF MONTH
1
TOTAL LOG OF DAY
0

REMOTE EMPLOYEE ENROLLMENT AT DEVICE

Employees
search employees
Prakash L [1133]

Devices
search devices
OIN6120036122000355 [ICLOCK990]

Finger
3

☒ Update Previous Bio?

☐ Left Little
☐ Left Ring
☒ Left Middle
☐ Left Index
☐ Left Thumb

☐ Right Thumb
☐ Right Index
☐ Right Middle
☐ Right Ring
☐ Right Little

Submit



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