

User Manual

NGTeco Time Clock – K4 Model

Date: December 2021

Doc Version: 1.0

English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website
www.ngteco.com.

About the Manual

This manual introduces the operations and usage of the **NGTeco Time Clock - K4 Model**.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

| For Software | |
|------------------|---|
| Convention | Description |
| Bold font | Used to identify software interface names e.g. OK , Confirm , Cancel . |
| > | Multi-level menus are separated by these brackets. For example, File > Create > Folder. |
| For Device | |
| Convention | Description |
| < > | Button or key names for devices. For example, press <OK>. |
| [] | Window names, menu items, data table and field names are inside square brackets. For example, pop up the [New User] window. |
| / | Multi-level menus are separated by forward slashes. For example, [File/Create/Folder]. |

Symbols






| Convention | Description |
|---|--|
|  | This represents a note that needs to pay more attention to. |
|  | The general information which helps in performing the operations faster. |
|  | The information which is significant. |
|  | Care taken to avoid danger or mistakes. |
|  | The statement or event that warns of something or that serves as a cautionary example. |

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1 Overview

This document outlines the menu operations of the **NGTeco Time Clock - K4 Model**. The NGTeco Time Clock provides convenience for users and minimizes the requirement of the computer skills of users. The clock allows the setting of attendance rules, managing user information, managing user privileges, setting pay periods, generating timecard reports and attendance logs, etc.

Key Features

- Easy to monitor and straight-forward services.
- Reduces management cost for attendance related procedures.
- Advanced attendance analytics.
- Granular visibility into attendance patterns.
- Greatly reduces month-end hassles and compliance challenges.

2 Operational Procedure

Note: Press and Hold M/OK for 3 seconds to open the menu.

2.1 Finger Enrollment

Finger Enrollment procedure includes capturing a user's fingerprint and saving it as a template to the corresponding User ID. To enhance the fingerprint authentication rate, make sure you enroll the finger in a proper manner.

2.1.1 Finger Selection for Enrollment

- It is recommended to use the index finger or middle finger to enroll your fingerprint.
- If the fingerprints on your selected hand are worn or damaged, try using the other hand.
- If the fingers are small, try enrolling the thumb finger.

2.1.2 Enrollment Operation

- Place the finger flat and centered on the sensor surface.
- The score for each enrollment will be displayed. Make sure the score is high enough to ensure proper enrollment and authentication.
- Place the finger consecutively until the success message appears. An illustration is given below:

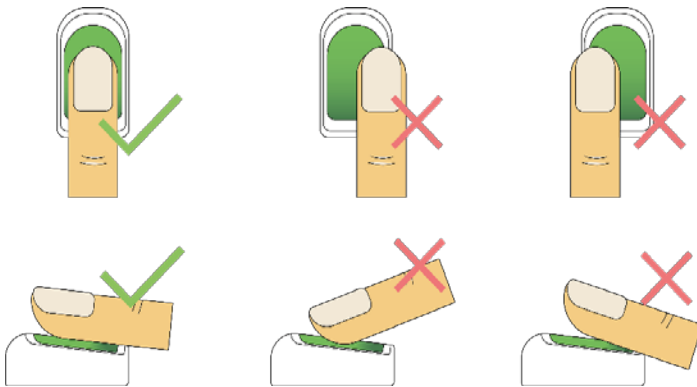


Figure 2-1: Fingerprint Registration

2.1.3 Quality Improvement of Fingerprint Reads

- Place the finger firmly on the sensor surface.
- Always use clean fingers for enrollment.
- Do not slide the finger while enrolling it.
- Avoid angled or tilted finger positions for enrollment.

For further details, refer [Fingerprint Enrollment](#).

2.2 Verification Modes

In the NGTeco Time Clock, there are two verification modes, namely:

- Fingerprint verification
- Password verification

These verification modes can be used for check-in and check-out punches and access to the Admin menu.

2.2.1 Fingerprint

The fingerprint verification can be done in two ways:

1: N Verification: The clock compares the current fingerprint collected by the fingerprint sensor with all the fingerprints on the clock. Press your finger properly on the fingerprint sensor. If the fingerprint matches with the saved template, the verification is successful.

If the verification is successful, the success message will be displayed as shown below:

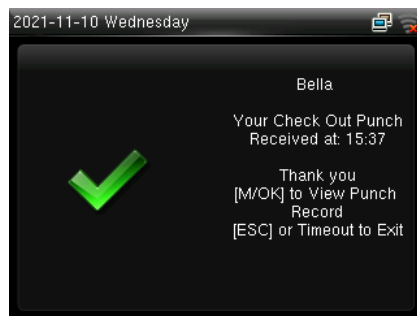


Figure 2-2: Successful Biometric Verification

If the verification failed, the message will be displayed as shown below:



Figure 2-3: Failed Biometric Verification

1:1 Verification: The clock compares the current fingerprint collected by the fingerprint sensor with the fingerprint template saved for the corresponding User ID. Enter your User ID through the keypad and press your finger.

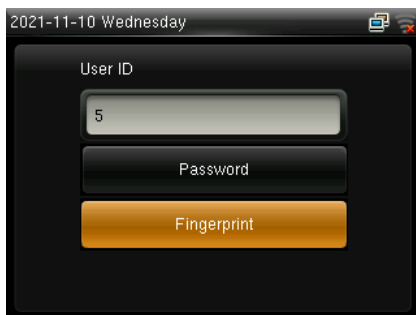


Figure 2-4: 1:1 Verification Screen

If the fingerprint matches the saved template, the verification is successful, and the success message will be displayed as shown below:

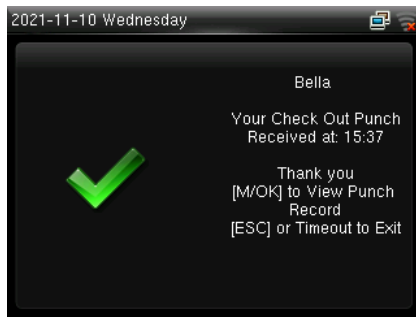


Figure 2-5: Successful Biometric Verification

If the verification failed, the message will be displayed as shown below:

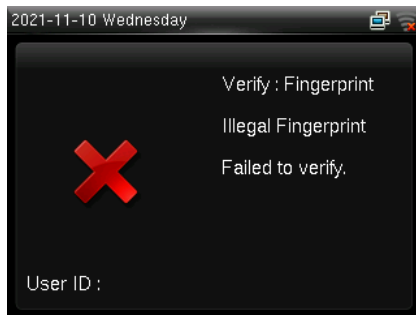


Figure 2-6: Failed Biometric Verification



If the clock displays **"Error! Invalid user ID"**, then the User ID is not yet created.

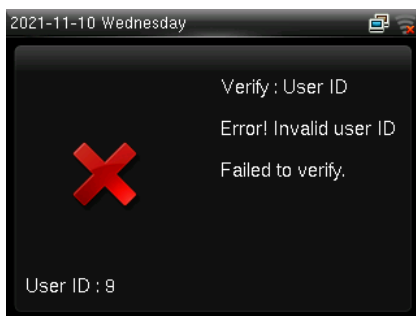


Figure 2-7: Failed 1:1 Verification

If the clock instructs **"Please try again"**, then press your finger again. You can try 2 more times. If the verification fails after trying for 2 more times, then the clock returns to the home screen.

2.2.2 Password

In the Password verification mode, the clock compares the entered password with the registered password corresponding to the User ID. If both the passwords match, then the verification is successful.

If the verification is successful, the success message will be displayed as shown below:

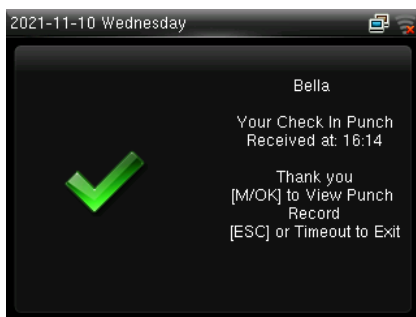


Figure 2-8: Successful Password Verification

If the verification failed, the message will be displayed as shown below:



Figure 2-9: Failed Password Verification

2.2.3 Standby Interface

The clock's home screen displays the current attendance status:

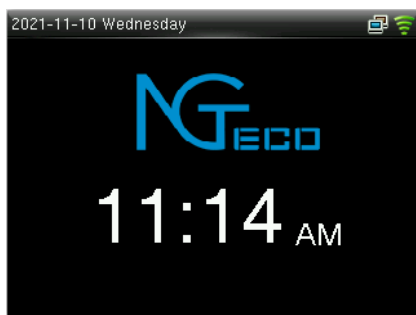


Figure 2-10: Home Screen

2.3 T9 Mode

The T9 mode allows you to enter the Uppercase, Lowercase, and Special characters in the text input fields. You can enter the alphabets and special characters by pressing one keystroke per letter.

- Navigate to the required text field and press <M/OK>.

Add User

| | |
|-------------------|----------------------|
| User ID | 5 |
| First Name | |
| Last name | |
| User Role | Employee |
| Verification Mode | Password/Fingerprint |
| Fingerprint | 0 |

First Name

Please input

Right key to switch input method, Left key to back space

[Aa]

Figure 2-11: Add User Details

- Each key on the keypad has a few letters printed above them. For example, pressing 3 can enter D, E, and F. To enter "F", press 3 thrice. This is accomplished by comparing the number of keystrokes with the internal syntactical dictionary to determine the letter.
- Press <▶> or <▲> to switch between Uppercase, Lowercase, and Special characters.

First Name

Please input

Right key to switch input method, Left key to back space

[symbol]

0., 1.. 2.; 3.: 4./ 5.? 6.! 7.% 8.@ >

Figure 2-12: Special Characters

- To add the special character, press the corresponding key once. For example, to enter "@" press 8 once.
- After the input is complete, press the <M/OK> key twice to save.

3 Privileges

The user privileges are classified as:

- Administrator
- Users

3.1 Administrator

The Administrator privilege protects the clock against unwanted damage to important configurations and unwanted changes. The Administrator has the privilege to operate all the menus in addition to fingerprint/password-based attendance maintenance. The Admin can make changes to the configuration, add and modify user details, and query on attendance records. Click [here](#) to view the detailed menu operations.

Initially, the Admin must press and hold the <M/OK> key for 3 seconds. Then the Admin verification screen appears as shown below:

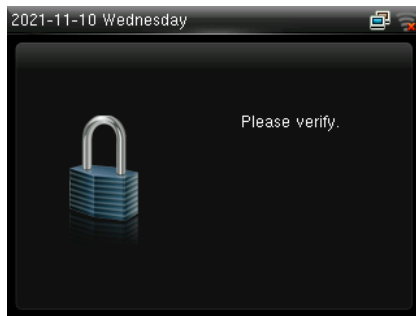


Figure 3-1: Locked Screen for Admin Verification

The Admin must verify the fingerprint or press <M/OK> to verify the password.

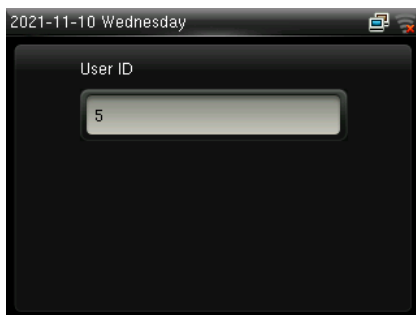


Figure 3-2: Admin Verification

If a person other than Admin tries to open the menu with his own credentials, an error will be displayed as shown below:



Figure 3-3: Failed Admin Verification

Note: After registering as an administrator, you must use the administrator authentication method to enter the menu. Please keep your password in a safe place. If you forget your password, you can apply for a temporary password for verification.

3.2 Users

Users can make attendance punch through fingerprint/password verification methods.

For further details, refer [Verification Modes](#).

4 Main Menu

The Time Clock comprises the following menu. Long press 3s **<M/OK>** to enter the menu.



Figure 4-1: Main Menu

Function Definition:

Users (User Management): Add, Edit, and Delete user's information, including User ID, First Name, Last name, User role, Verification mode, Fingerprint and Password. Use the USB disk to Upload or Download the user's function.

Comm. (Communication Settings): Set the communication parameters between device and PC, such as DHCP, IP Address, Subnet mask, Gateway, Wi-Fi, WIFI setup by USB, set the App connection.

System: Set the system parameters, such as Date/Time, Fingerprint parameters, Autotest, Reset and USB upgrade.

Pay Period: Set the Pay period type and Start day of the week.

Data (Data Management): Download Attendance Log, Delete Attendance/All Data and Clean Permission.

Rule: Set the Attendance rule, such Maximum work hours, Day cutoff time, Duplicate punch interval, Enable auto punch mode and View punch record.

Time Data: View the user's Today's attendance, History attendance, and Add missing punch.

Time Report: Select the Pay period, set the report hours format to download the time report.

System Info: Check the Device usage, Basic information, and Firmware information etc.

5 User Management

The **Users** menu frames a role-based access control and the tasks they can perform in the time clock. The Administrator(s) can grant and revoke roles and permissions at the clock level. To change the permission of a user, the administrator(s) updates the role. It allows the Administrator(s) to add new users, edit the details of an existing user, uploading/downloading the user details from/to a USB drive.

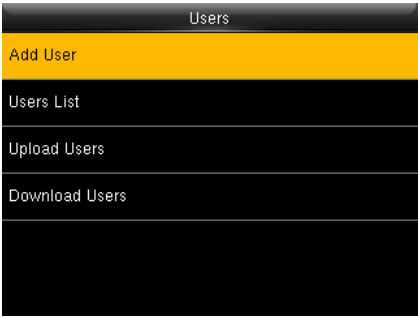


Figure 5-1: User List

5.1 New User Registration

New users in an organization can be added to the time clock by an Administrator. It includes simple steps that can be performed without much effort. The steps to add a new user are given below:

1. Go to **[Users]** and navigate to **[Add User]** by pressing the respective navigation key. The Interface to add a new user will be displayed as shown below:

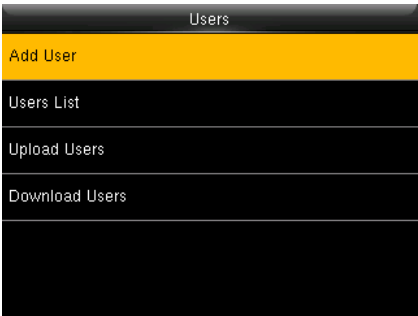


Figure 5-2: Add a New User

2. Enter the following details:

Add User

User ID5

First Name

Last name

User RoleEmployee

Verification ModePassword/Fingerprint

Fingerprint0

Add User

First Name

Last name

User RoleEmployee

Verification ModePassword/Fingerprint

Fingerprint0

Password

Figure 5-3: User Details




- **ID:** The User ID will be auto-generated beginning from 1. If you want to change the User ID generated by the clock, delete the displayed ID by pressing <  > and enter the new User ID.
- **First Name:** Enter the First Name of the user.
- **Last Name:** Enter the Last Name of the user. Refer [T9 Mode](#) for further details.
- **User Role:** Set the User Role of the user as Employee/Admin. Press the <  > or <  > key to select the User Role, and then press <M/OK>.
- **Verification Mode:** The available verification modes are: Password/Fingerprint, Fingerprint only, User ID only, Password, User ID + Fingerprint, Fingerprint + Password (**Note:** "/" means "or", and "+" means "and").
- **Fingerprint:** To enroll the fingerprint, press <M/OK>. The interface to enroll the fingerprint will be displayed as shown below:



Figure 5-4: Fingerprint Enrollment

- To view more details, refer [Fingerprint Enrollment](#).
- After successful enrollment, the success message will be displayed as shown below:



Figure 5-5: Successful Enrollment



You can register a maximum of three fingerprints. If you try to register more than 3 fingerprints, the clock raises an alert message as shown below:

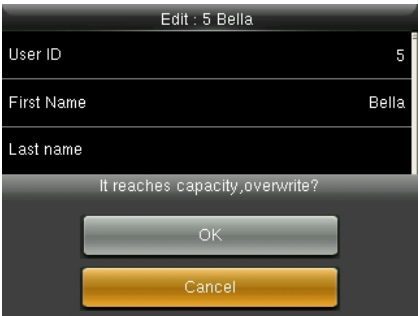


Figure 5-6: Alert to Overwrite Fingerprints

If you press **<M/OK>**, then all the registered fingerprints will be deleted, and you can restart the enrollment process.

- **Password:** To register a password, press the **<M/OK>** key. The interface to register the password will be displayed as shown below:

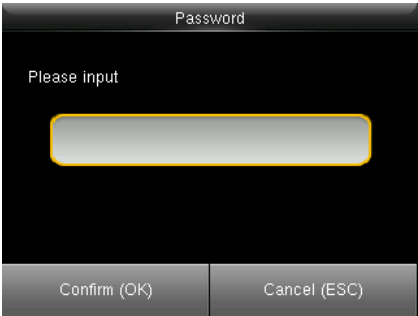


Figure 5-7: Enroll Password



The entered password must be a maximum of 8 characters.

5.2 User Data Management

The Administrator can also modify the existing user data. The steps to edit the user data are given below:

1. Go to **[Users]** and navigate to **[Users List]**.

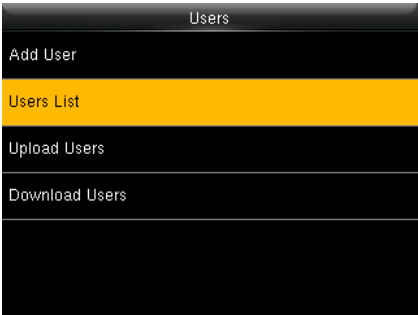


Figure 5-8: Users List Menu

2. The user's list will be displayed as shown below:

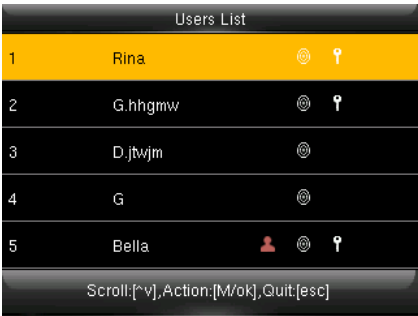


Figure 5-9: Users List

5.2.1 Edit User Details

User : 5 Bella

Edit

Delete

Edit : 5 Bella

User ID5

First NameBella

Last name


User RoleAdmin

Verification ModePassword/Fingerprint

Fingerprint1

Figure 5-10: Edit User Details

1. Navigate to the corresponding field and make necessary changes. To add another fingerprint, navigate to Fingerprint and press **<M/OK>**. Enroll the fingerprint. Similarly, navigate to Password and press **<M/OK>**. Enter the New Password and confirm the same.
2. Finally, navigate to **[Save]** and press **<M/OK>**.



You cannot edit the ID of the user.

5.2.2 Delete User

1. If you require to delete a user permanently, navigate to the corresponding user and select **[Delete User]**.

User : 5 Bella

Edit

Delete

Delete : 5 Bella

Delete User

Delete Fingerprint Only

Delete Password Only

Figure 5-11: Delete User

2. An alert will be displayed as shown below:

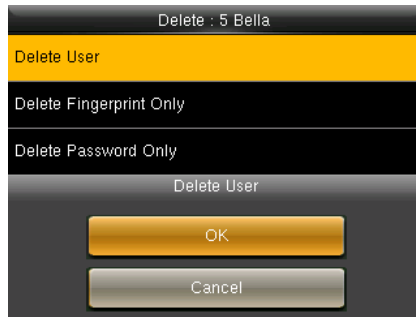


Figure 5-12: Alert to Delete User

3. Press **<M/OK>** to delete the User.

5.3 How to Transfer User Data

The user data can be transferred in two ways:

- From Clock to the USB drive
- From USB drive to clock

5.3.1 Upload User Data from USB Drive to Clock

To add a large number of user data, you can directly upload it from a USB drive. The clock facilitates you to add bulk user data without any complexity in a short duration of time. The procedure to upload the user data is given below.

1. Go to **[Users]** and navigate to **[Upload Users]**.

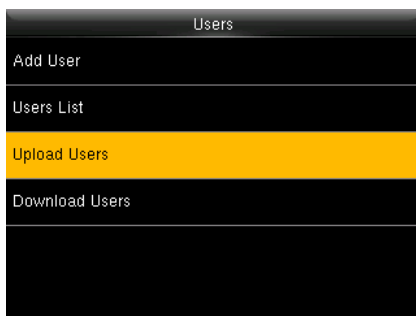


Figure 5-13: Upload Users Data

2. Insert the USB drive into the USB slot.
3. Navigate to **[Download users template file]** and press **<M/OK>**.

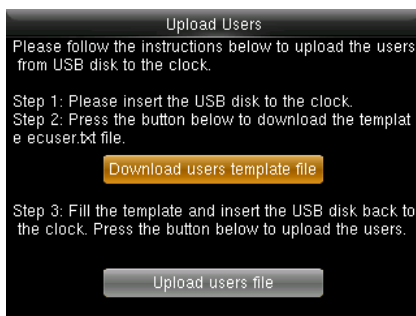


Figure 5-14: Download Template

4. The template will be downloaded to the USB drive with the file name **ecuser.txt** and the success message will be displayed as shown below:



Figure 5-15: Success Message after Downloading Template

- 5. Insert the USB drive to your PC to edit the template file.
- 6. The template file will be displayed as shown below:

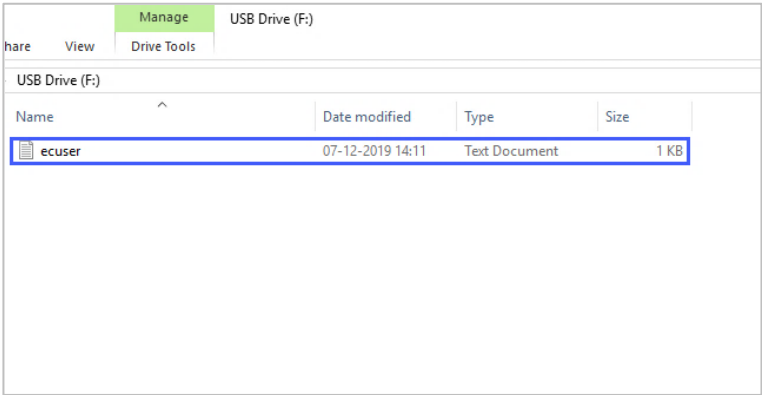


Figure 5-16: Template File - 1

7. Double-click to open the template file. The template file details will be displayed as shown below:

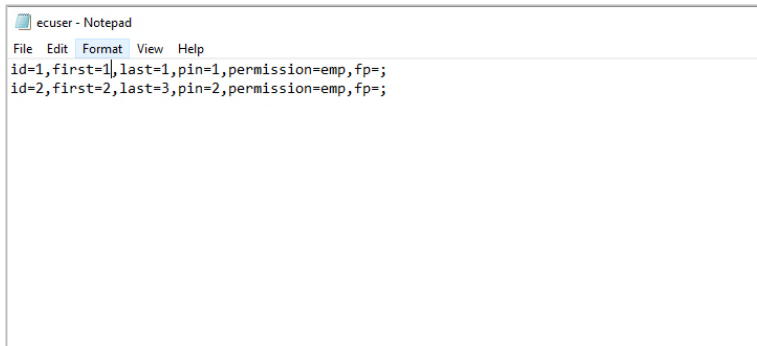


Figure 5-17: Template File -2

8. Edit the ID, First Name, Last Name, Password, and permission. An example is shown below:

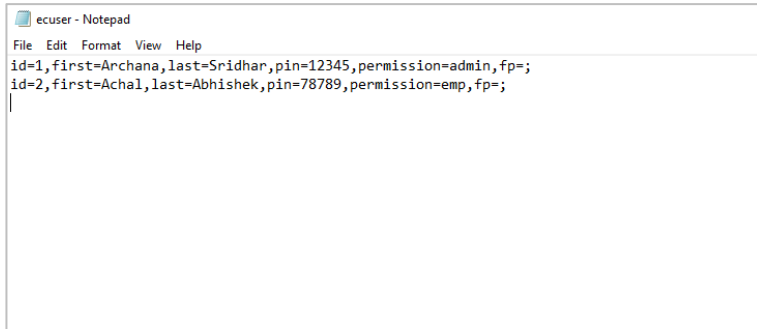


Figure 5-18: Edit User Details

9. Save the template and insert the USB drive into the clock again.
10. Go to **[Users]** and navigate to **[Upload Users]**.
11. Navigate to **[Upload user file]** and press **<M/OK>**.



Figure 5-19: Upload Template

12. After uploading, the success message will be displayed as shown below:



Figure 5-20: Success Message after Uploading the Template



If any existing User ID is the same as the uploaded User ID, then the existing user details will be replaced by the newly uploaded user details.

5.3.2 Download User Data from Clock to USB Drive

If you need to download all the user details, perform the following steps:

1. Go to **[Users]** and navigate to **[Download Users]**.

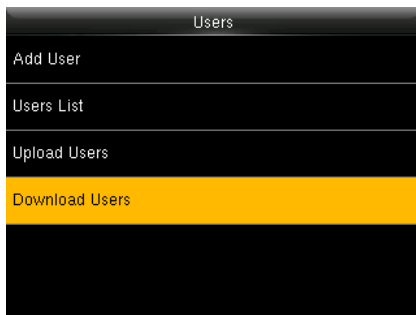


Figure 5-21: Download User Data -1

2. Insert a USB Drive into the clock.



Figure 5-22: Download User Data - 2

3. Navigate to **[Download Users]** and press **<M/OK>**.
4. The success message after downloading the user data will be displayed as shown below:



Figure 5-23: Success Message after Downloading User Data

5. Insert the USB drive to your PC and the file will be downloaded in the name of **"ecuser.txt"**.
6. The downloaded file will be displayed as shown below:

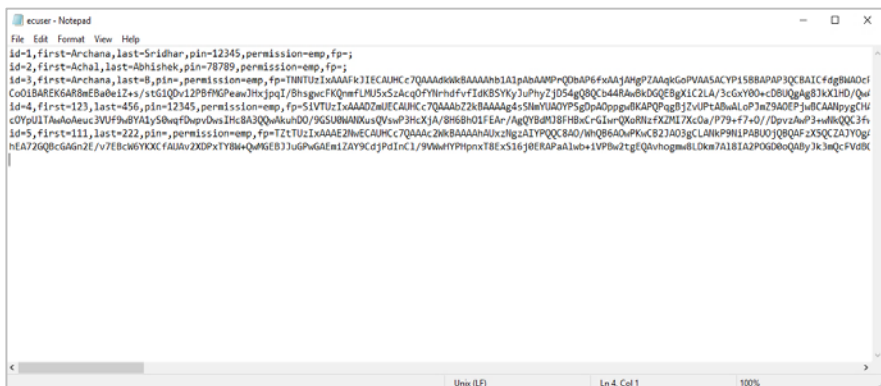


Figure 5-24: Downloaded File

6 Communication Parameters

Open the "Comm." Menu to set the communication parameters.

6.1 Manual Ethernet Configuration

The steps to connect to Ethernet is given below:

1. Go to **[Comm.]** then **[Ethernet]**.

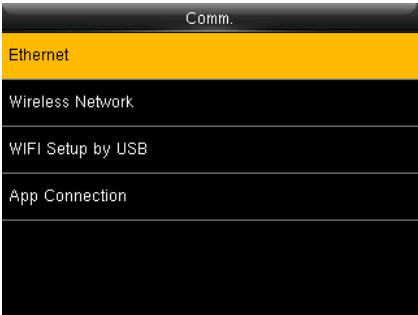


Figure 6-1: Manual Ethernet Connection-1

2. Set Ethernet parameters.

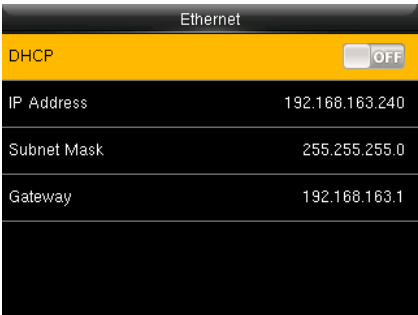


Figure 6-2: Manual Ethernet Connection-2

- **Enable DHCP:** Dynamic Host Configuration Protocol, which is used to allocate dynamic IP addresses to clients by a server.

- **IP Address:** Modify if necessary. It cannot be the same with PC.
- **Subnet Mask:** Modify it if necessary.
- **Gateway:** It is necessary to set an address if the device and PC are in different network segment. Modify if necessary.

6.2 Manual Wi-Fi Configuration

6.2.1 Connection to an Existing Wi-Fi

The steps to connect to Wi-Fi is given below:

1. Go to **[Comm.]** then **[Wireless Network]**.

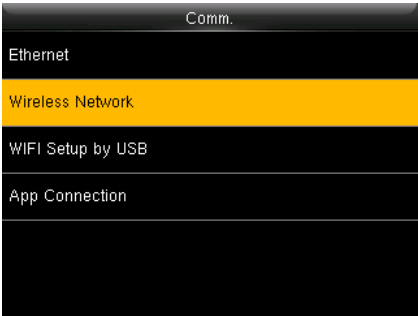


Figure 6-3: Manual Wi-Fi Connection

2. The list of available Wi-Fi connections will be displayed as shown below:

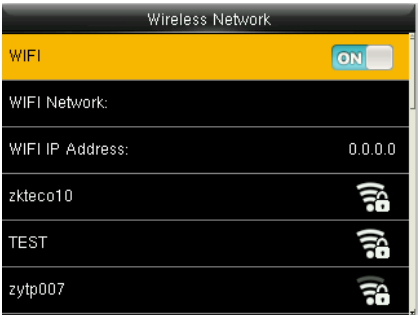


Figure 6-4: Available Wi-Fi Networks

3. Navigate to the required Wi-Fi connection and press **<M/OK>**.
4. The interface to connect Wi-Fi will be displayed as shown below. If the signal strength is weak, the device may fail to connect.

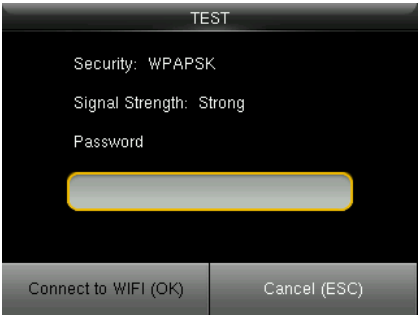


Figure 6-5: Wi-Fi Connection Interface

5. Navigate to **[Password]** and enter the password to connect.
6. Then navigate to **[Connect to WIFI (OK)]** and press **<M/OK>**.
7. Once connected, the connectivity status will be displayed as shown below:

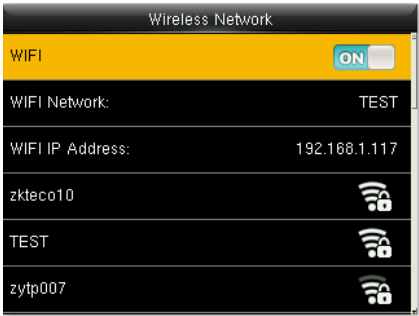


Figure 6-6: Connected Wi-Fi



If the special symbol is set as the Wi-Fi password, only these are supported:

| | | | |
|------|-------|-------|--------------------|
| 0. , | 9. # | 18. { | 27. & |
| 1. . | 10. * | 19. } | 28. _ |
| 2. ; | 11. + | 20. < | 29. |
| 3. : | 12. - | 21. > | 30. \$ |
| 4. / | 13. = | 22. ~ | 31. (Space symbol) |
| 5. ? | 14. (| 23. " | 32. ^ |
| 6. ! | 15.) | 24. ` | |
| 7. % | 16. [| 25. \ | |
| 8. @ | 17.] | 26. ' | |

Note:

- Device Wi-Fi only supports 2.4GHz communication.
- It is recommended that you connect your device within approximately 15 metres of Wi-Fi.
- If the Wi-Fi connection status of your device shows not connected for a long time, please enter the password again.

6.2.2 New Wi-Fi Connection

To add a new Wi-Fi connection, perform the following steps:

1. Go to **[Comm.]** then **[Wireless Network]**.
2. Press **[Add WIFI Network]** to add a new connection. The interface to add a new connection will be displayed as shown below:

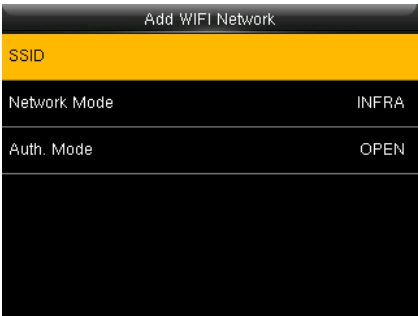


Figure 6-7: SSID and Password

- 3. Press Add Wi-Fi Network to add the Wi-Fi manually.
- 4. On this interface, enter the Wi-Fi network parameters. (The added network must exist.)



After successfully adding the Wi-Fi manually, follow the same process to search for the added Wi-Fi name. Click [here](#) to view the process to search the Wi-Fi network.

6.2.3 Enable/Disable DHCP

To enable/disable DHCP, perform the following steps:

- 1. Go to **[Comm.]** then **[Wireless Network]**.
- 2. Press **[Advanced]** to view the DHCP settings.
- 3. Turn on DHCP if unable to connect to WI-FI.

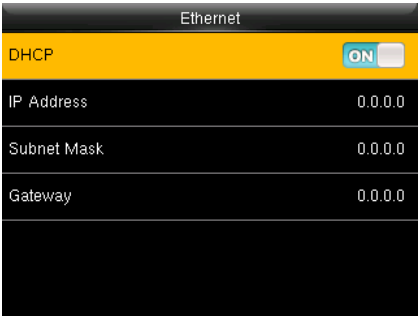


Figure 6-8: DHCP Interface

- 4. If you disable DHCP, you must manually set the IP Address, Subnet mask, and Gateway by pressing <▼>. The interface is shown below:

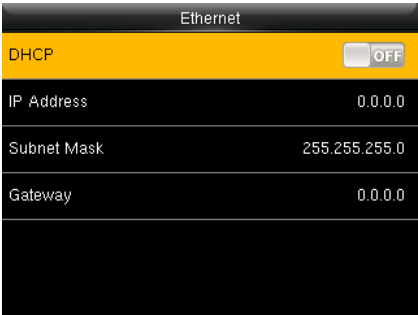


Figure 6-9: DHCP Connectivity

- 5. Then navigate to <M/OK>.and press <M/OK>.

6.3 Wi-Fi Configuration through USB

You can also configure Wi-Fi through the Wi-Fi configuration template uploaded from a USB disk.

To configure Wi-Fi through a USB disk, perform the following steps:

- 1. Go to [Comm.] then [Wi-Fi Setup by USB].

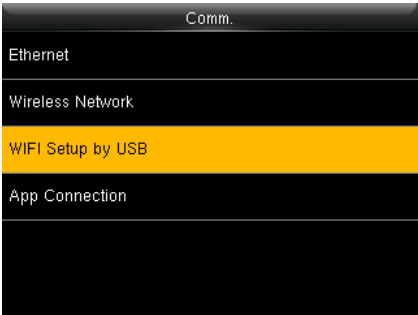


Figure 6-10: Wi-Fi Setup by USB

- 2. The interface to download the template will be displayed as shown below:



Figure 6-11: Wi-Fi Setup Template Download

- 3. Insert a USB drive into the clock.
- 4. Navigate to **[Download]** and press **<M/OK>**.
- 5. After downloading the template, a success message will be displayed as shown below:

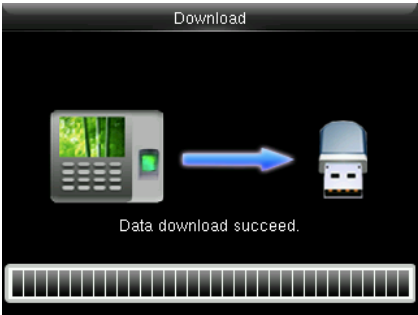


Figure 6-112: Success Message after Download

- 6. Now, insert the USB drive into your PC. The Wi-Fi configuration file will be downloaded as shown below:

| Name | Date modified | Type | Size |
|--------|------------------|---------------|------|
| update | 28-01-2020 10:01 | File folder | |
| ecwifi | 28-01-2020 10:02 | Text Document | 1 KB |

Figure 6-113: Downloaded Template

- 7. Modify the template file by entering the SSID and Password.

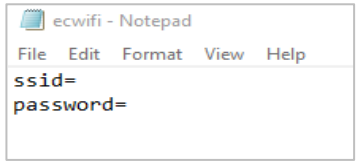


Figure 6-114: Connectivity Interface

- 8. Save the file and again insert the USB drive to the clock.
- 9. Go to **[Comm.]** then **[Wi-Fi Setup by USB]**.
- 10. Then select **[Upload]**.
- 11. The clock will be connected to the configured Wi-Fi with the uploaded SSID and Password.

6.4 App Connection

Go to **[Comm.]** and then **[App Connection]** to view the QR code.

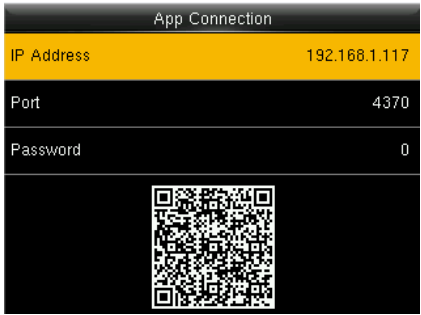


Figure 6-115: App Connection

IP Address: IP Address of the device.

Port: The Port number of the device.

Password: Password to connect to the NGTeco Time app.

Note: The device must be connected to Wi-Fi or the Ethernet successfully, otherwise the QR code will not be displayed.

The process in detail refers to [14 Connect to NGTeco Time App](#).

7 System

Here, the user can set the related system parameters to maximize the performance of the device.

7.1 Clock Date and Time

It is necessary to calibrate the date and time of the clock before usage to ensure accurate attendance time. The procedure to set the date and time is given below:

- 1. Go to **[System]** and press **<M/OK>**.

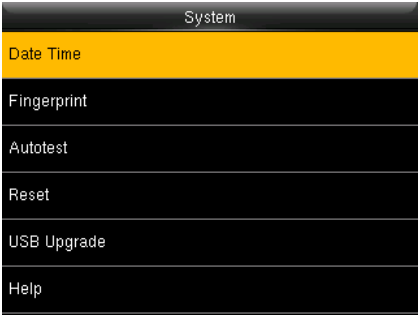


Figure 7-1: Date and Time Settings -1

- 2. Then go to **[Date and Time]** and press **<M/OK>**. The interface appears as shown below:

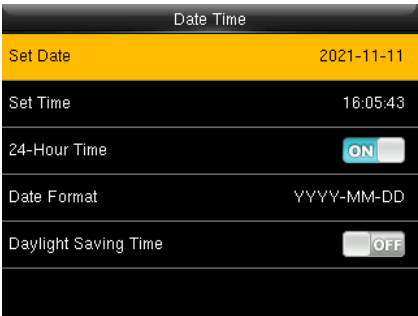


Figure 7-2: Date and Time Settings -2

The following are the required parameters to set the date and time.

Set Date/Time: Set date and time of the device.

24-Hour Time: Select whether to use the 24-hour display mode. If not, the 12-hour display mode is adopted.

Date Format: Set the Date Format from the available options using <▲> or <▼> key.

Daylight Saving: Enable or Disable the Daylight Saving using <M/OK> key.

After setting the parameters press <M/OK> to save the date and time.

7.2 Fingerprint Parameters

1. Go to **[System]** and press <M/OK>.

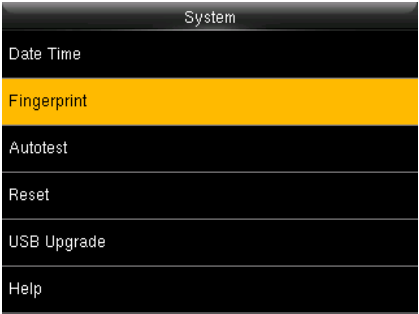
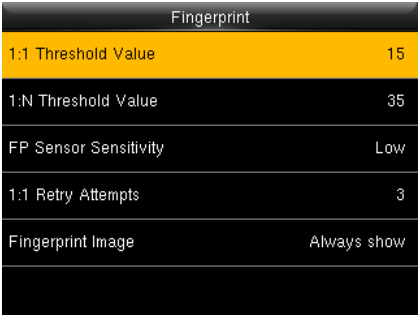


Figure 7-3: Fingerprint Parameter Settings -1

2. Then go to **[Fingerprint]** and press **<M/OK>**. The interface appears as shown below:



| Fingerprint | |
|-----------------------|-------------|
| 1:1 Threshold Value | 15 |
| 1:N Threshold Value | 35 |
| FP Sensor Sensitivity | Low |
| 1:1 Retry Attempts | 3 |
| Fingerprint Image | Always show |
| | |

Figure 7-4: Fingerprint Parameter Settings -2

The following are the required parameters to set the Fingerprint.

1:1 Threshold Value: Under 1:1 verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint template associated with the entered user ID enrolled in the device is greater than the set threshold value.

1:N Threshold Value: Under 1:N verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint templates enrolled in the device is greater than the set threshold value.

FP Sensor Sensitivity: To set the sensibility of fingerprint acquisition. It is recommended to use the default level "**Medium**". When the environment is dry, resulting in slow fingerprint detection, you can set the level to "**High**" to raise the sensibility; when the environment is humid, making it hard to identify the fingerprint, you can set the level to "**Low**".

1:1 Retry Times: Users might forget the registered fingerprint or press the finger improperly. 1:1 Verification allows to set the retry authentication attempts for the users in order to reduce the process of re-entering user ID and increase the security.

Fingerprint Image: To set whether to display the fingerprint image on the screen during fingerprint enrollment or verification. Four choices are available:

Show for enroll: to display the fingerprint image on the screen only during enrollment.

Show for match: to display the fingerprint image on the screen only during verification.

Always show: to display the fingerprint image on screen during enrollment and verification.

None: not to display the fingerprint image.

7.3 Autotest

The auto test enables the system to automatically test whether the functions of various modules are normal, including the LCD, Voice, Face, Keyboard and Clock tests.

1. Go to **[System]** and press **<M/OK>**.

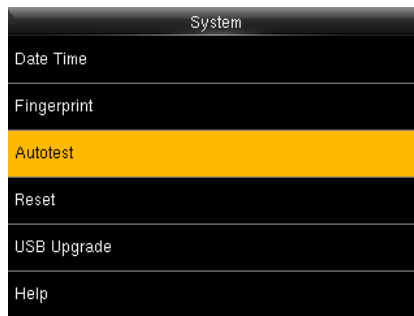


Figure 7-5: Autotest Interface -1

2. Then go to **[Autotest]** and press **<M/OK>**. The interface appears as shown below:

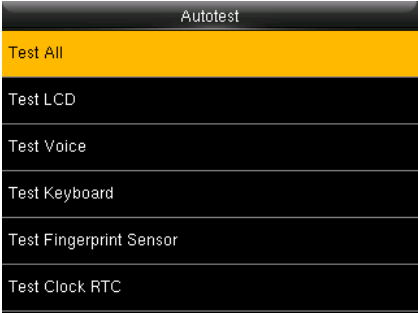


Figure 7-6: Autotest Interface -2

Test All: The device automatically tests the LCD, Voice, Keyboard, Face and Clock RTC, press [OK] to continue and press [ESC] to exit.

Test LCD: The device tests the display effect of LCD screen by displaying full color, pure white, and pure black to check whether the screen displays colors properly.

Test Voice: The device automatically tests whether the voice files stored in the device are complete and the voice quality is good.

Test Keyboard: Checks if the keyboard is available.

Test Fingerprint Sensor: To test the fingerprint sensor by pressing a finger on the scanner to check if the acquired fingerprint image is clear. When you are pressing a finger on the scanner, the fingerprint image will display on the screen.

Test Clock RTC: Checks if the RTC (Real-Time Clock) is accurate.

7.4 Reset

The menu is used to reset the Communication settings, System settings, etc.

1. If you need to reset the device, please enter **[System]**, select **[Reset]**, and press **<M/OK>**.

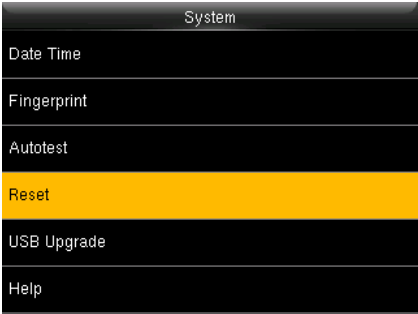


Figure 7-7: Reset

2. An alert will be displayed as shown below:

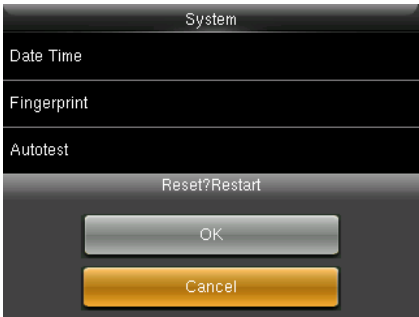


Figure 7-8: Alert to Reset

7.5 USB Upgrade

The firmware program of device can be updated with upgrade package in USB disk. You are not suggested to upgrade the firmware by yourself. If you need the upgrade file, please contact our technical support personnel.



Figure 7-9: USB Upgrade

7.6 Help

You can contact us for any queries related to the working of the attendance clock. Go to [System] and then [Help].

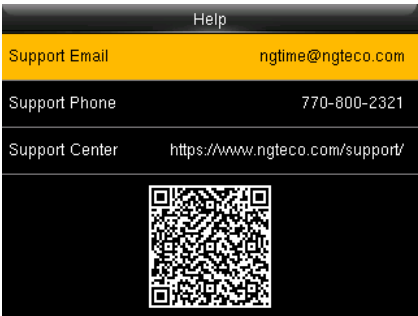


Figure 7-10: Support Screen

8 Pay Period

A pay period is a length of time over which the user's attendance time is recorded and paid. It is a recurring time schedule that determines how often the users will be paid. The pay period ensures that the users will be paid regularly for their work. It also simplifies the reporting requirements for employer liabilities.

The types of pay periods adopted in this time clock are:

- Weekly Pay Period
- Bi-weekly Pay Period
- Semi-monthly Pay Period
- Monthly Pay Period

8.1 Weekly Pay Period

A weekly pay period consists of 52 pay periods in a year, one week of each. The payroll is scheduled to run on the same day every week.

Perform the following steps to set the Weekly Pay Period:

1. Go to **[Pay Period]**.
2. Press **<M/OK>** to view the available pay period options.
3. Select **[Weekly Pay Period]**.

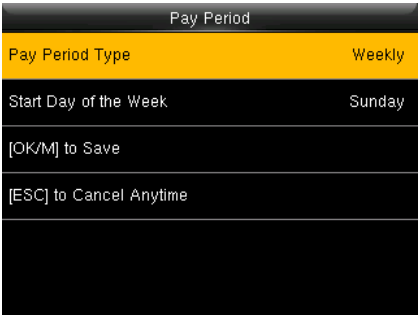


Figure 8-1: Weekly Pay Period

- **Start day of the Week:** It means that the start of the week is counted from this day.
4. Then press **<▼>** to navigate and set the starting day of the week.
 5. Then navigate to **[OK/M to Save]** and press **<M/OK>**.

8.2 Bi-weekly Pay Period

A bi-weekly pay period consists of 26 pay periods in a year (2 weeks or 14 days). Like the weekly pay period, a bi-weekly pay period also starts on the known day of a week.

Perform the following steps to set the Bi-Weekly Pay Period:

1. Go to **[Pay Period]**.
2. Press **<M/OK>** to view the available pay period options.
3. Select **[Bi-Weekly Pay Period]**.

| Pay Period | |
|---------------------------|------------|
| Pay Period Type | Bi-Weekly |
| Start Day of the Week | Sunday |
| Pay Period Effective Date | 2020-07-05 |
| [OK/M] to Save | |
| [ESC] to Cancel Anytime | |
| | |

Figure 8-2: Bi-Weekly Pay Period

- **Start day of the Week:** It means that the start of the week is counted from this day.
 - **Pay Period Effective Date:** This date is bi-weekly pay start day.
4. Then press <▼> to navigate and set the effective starting date of the pay period.
 5. Press <▼> to select the start day of the week.
 6. Then navigate to **[OK/M to Save]** and press <M/OK>.

8.3 Semi-monthly Pay Period

A semi-monthly pay period consists of 24 pay periods in a year. Each month will have exactly 2 pay periods. By default, the first pay period runs from the 1st-15th date of the month and the second pay period runs from 16th to the last date of the month. (Note: The start day of Semi-month may vary for each company)

Perform the following steps to set the Semi-Monthly Pay Period:

1. Go to **[Pay Period]**.
2. Press <M/OK> to view the available pay period options.
3. Select **[Semi-Monthly Pay Period]**.

| Pay Period | |
|---------------------------------|--------------|
| Pay Period Type | Semi-Monthly |
| Start Date of First Half Month | 1 |
| Start Date of Second Half Month | 16 |
| Start Day of the Week | Sunday |
| [OK/M] to Save | |
| [ESC] to Cancel Anytime | |

Figure 8-3: Semi-Monthly Pay Period

- **Start Date of First Half Month:** The first half of the month is calculated from this day.
 - **Start Date of Second Half Month:** The second half of the month starts from this day.
 - **Start Day of the Week:** It means that the start of the week is counted from this day.
4. Then, press <▼> to navigate and set the start day of the first and second half of the month.
 5. Then, press <▼> to navigate and set the start day of the week.
 6. Navigate to **[OK/M to Save]** and press <M/OK>.

8.4 Monthly Pay Period

The payroll runs on the same date of every month.

Perform the following steps to set the Monthly Pay Period:

1. Go to **[Pay Period]**.
2. Press <M/OK> to view the available pay period options.
3. Select **[Monthly Pay Period]**.

| Pay Period | |
|-------------------------|---------|
| Pay Period Type | Monthly |
| Start Date of the Month | 1 |
| Start Day of the Week | Sunday |
| [OK/M] to Save | |
| [ESC] to Cancel Anytime | |
| | |

Figure 8-4: Monthly Pay Period

- **Start Date of the Month:** The beginning of each month is calculated from this day.
 - **Start Day of the Week:** It means that the start of the week is counted from this day.
4. Then, press <▼> to navigate and set the start day of the month.
 5. Then, press <▼> to navigate and set the start day of the week.
 6. Navigate to **[OK/M to Save]** and press <M/OK>.

9 Data Management

Data Management is an administrative process that includes acquiring, validating, and processing the required data to ensure the smooth functioning of the time-attendance clock.

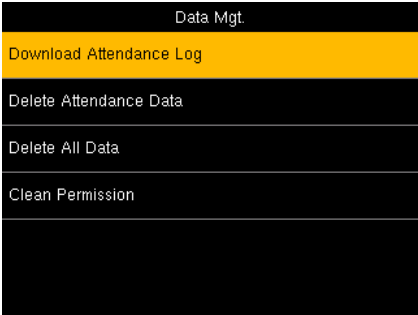


Figure 9-1: Data Management

9.1 Attendance Log Management

Attendance logs are usually updated in the attendance software for further processing.

9.1.1 Download Attendance Logs

Perform the following steps to download the attendance logs:

1. Insert the USB drive into the clock.
2. Go to **[Data]** and then **[Download Attendance Log]**.

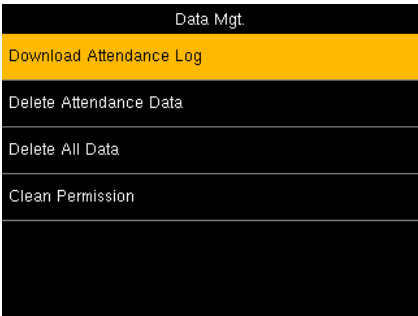


Figure 9-2: Download Attendance Log

3. After downloading the attendance logs, a success message will be displayed as shown below:

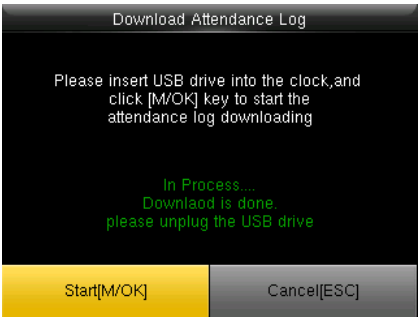


Figure 9-3: Success Message after Downloading Attendance Logs

4. Now, insert the USB drive to your PC and upload the logs to the attendance software.
5. The downloaded file on the USB drive will be named **AttendanceLogxxxx.dat** as below. You can open it with a text editor to view the attendance data.

| <input type="checkbox"/> | Name | Date modified | Type | Size |
|--------------------------|---------------------------------|----------------------|-------------|-------|
| <input type="checkbox"/> | AttendanceLog01272020164855.dat | 1/27/2020 4:48 PM | DAT File | 18 KB |
| <input type="checkbox"/> | ZKVAMS | 1/9/2020 3:38 PM | File folder | |
| <input type="checkbox"/> | backup | 12/9/2019 11:29 A... | File folder | |
| <input type="checkbox"/> | BioSecurityFile | 10/9/2019 12:11 PM | File folder | |
| <input type="checkbox"/> | Distributor Price Lists | 10/2/2019 11:50 A... | File folder | |

Figure 9-4: Downloaded Attendance Logs

9.1.2 Delete Attendance Data

Perform the following steps to delete the attendance logs:

- 1. Go to [Data] then [Delete Attendance Data].

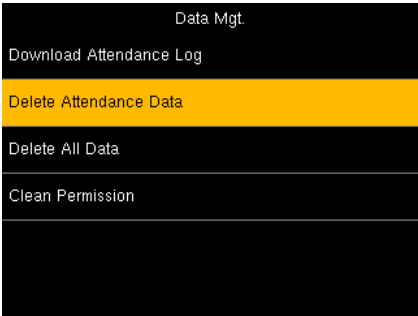


Figure 9-5: Delete Attendance Data

- 2. An alert will be displayed as shown below:

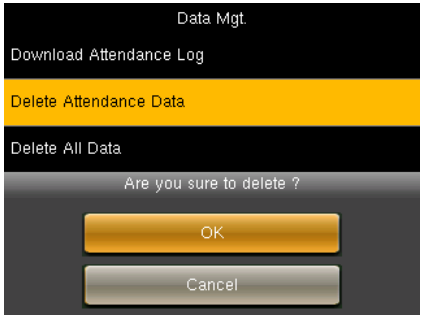


Figure 9-6: Confirmation to Delete Attendance Logs

- 3. Press <M/OK> to delete all the attendance data.

9.2 Delete All Data

Perform the following steps to delete all the data:

- 1. Go to [Data] then [Delete All Data].

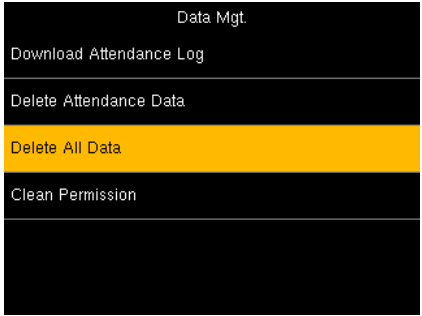


Figure 9-7: Delete All Data

- 2. An alert will be displayed as shown below:

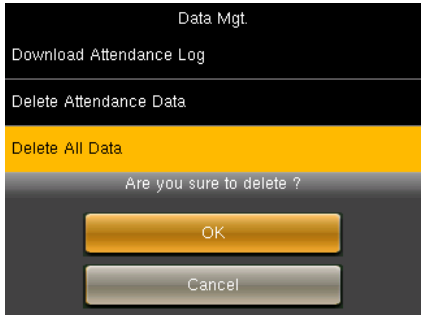



Figure 9-8: Confirmation to Delete All Data

- 3. Press <M/OK> to delete all the data.

 If you are sure to Delete All Data, all the information in the device will be deleted.

9.3 Clear Admin Privileges

You can reset the Admin privileges, and this can be done at a single instance instead of doing one by one. The procedure is given below:

- 1. Go to [Data] then [Clear Permission].

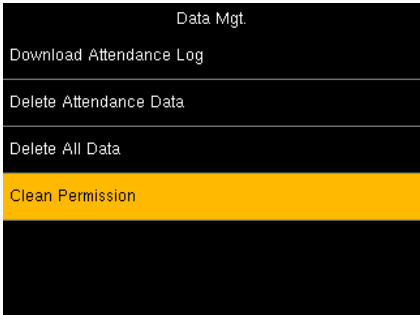


Figure 9-10: Clear Permission

2. An alert will be displayed as shown below:

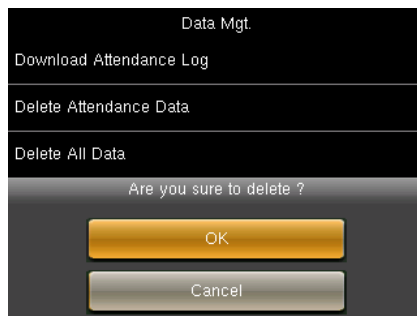


Figure 11-12: Confirmation to Clear Permission

3. Press **<M/OK>** if you want to reset the Admin Privileges.

10 Attendance Management

The NGTeco Time Clock automates and provides a simple way to record the attendance of users with Fingerprint/Password verification. It also assists the employer to track the user's attendance analytics such as work hours, absenteeism, missing attendance punches, etc. This automated clock greatly reduces the computational errors and transcriptional errors thus facilitating hassle-free attendance calculation.

10.1 Attendance Rules

Attendance Rules are a predefined set of specifications framed to maintain clear and consistent attendance management of the users.

The procedure to set the attendance rules is given below:

1. Go to **[Rule]**.
2. The interface to set the attendance rules will be displayed as shown below:

| Attendance Rule | |
|--------------------------|-------------------------------------|
| Maximum Work Hours | 12 Hours |
| Day Cutoff Time | 00:00 |
| Duplicate Punch Interval | 0 Minutes |
| Auto Punch Mode | <input checked="" type="checkbox"/> |
| View Punch Record | <input checked="" type="checkbox"/> |
| | |

Figure 10-1: Attendance Rule

3. Enter the following details:

Maximum Work Hours: Set the maximum number of working hours in a day. When the time difference between two attendance punches (check-in and check-out) exceeds this maximum work hour, then the attendance will be calculated separately for that day. Then you can identify that there are missing attendance punches between the actual punches made by the users. The default value is 12 hours.

Day Cutoff Time: Set the time on which the day is changed to the next day on the clock.

Example: Consider the day change time is set to 2:00 AM. If the users start to work before 2:00 AM, then the total worked hours until check-out will be added to the previous day. If the users start to work after 2:00 AM, then the total worked hours until check-out will be added to the next day.

Duplicate Punch Interval: The Duplicate Punch interval defines the time duration in which the clock considers only the first attendance punch, even if you make many attendance punches within the defined period. The unit is **minutes**.

Example: Assume that the duplicate punch period is 5 minutes. If you make several check-in attendance punches within 5 minutes, the clock considers only the first punch time and ignores the rest of the attendance punches.

Auto Punch Mode: When this feature is enabled, the punch state will not be displayed on the home screen and the punch state will be updated automatically based on the previous punch state of the user. For example, if the user's first punch state is Check-in, then the next punch state is Check-out. This feature is enabled by default.

Note: When the time exceeds the Day Cutoff Time, the punch state will be reset to Check-in.

If the Auto Punch Mode is turned off, the user needs to select the punch state manually and the punch state will be displayed on the home screen. Press the ☺/< button to change the punch state to IN, and the <M/OK> button to change the punch state to OUT. The punch state is Check-in by default and if the user presses the <M/OK> button the state will change to Check-out for five seconds. Then, the state will be auto-changed to Check-in.

View Punch Record: When this option is turned on, the users can view their attendance records by themselves.

If the View Punch Record is turned off, the users cannot view the attendance records.

11 Attendance Tracking

You can track and monitor the user's attendance to ensure productivity and workflow during working hours.

11.1 Every Day's Attendance

The clock is equipped with a provision to view the daily attendance of users. The steps to view the daily attendance is given below:

- 1. Go to **[Time Data]** and then **[Today's Attendance]**.

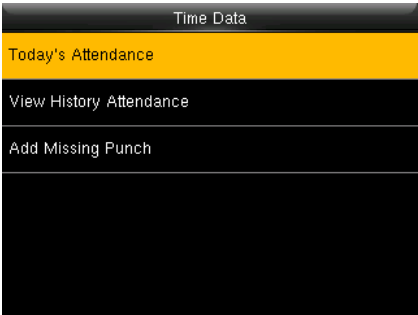


Figure 11-1: Today's Attendance

- 2. The attendance details of the day will be displayed as shown below:



| Today's Attendance - 2021-11-12 | | | |
|---|-------|-------|---|
| Name | Time | State | Verify |
| Bella | 08:59 | IN |  |
| Bella | 18:11 | OUT |  |
| Scroll Up:[↑] ,Scroll Down:[↓],Quit:[ESC] | | | |

Figure 11-2: Attendance Details

3. The columns are described as follows:

Name: Displays the Name of the users.

Time: Displays the time when the attendance punch is made.

State: Displays the state of the attendance punch (check-in/check-out).

Verify: Displays the Users verification mode.

11.2 Attendance of Individual Users

The clock has a provision to track the attendance of individual users to ensure all users are fulfilling their obligations. It also helps the Management to identify the potential attendance issues. The steps to track the attendance of individual users are given below:

1. Go to **[Time Data]** and then **[View History Attendance]**.

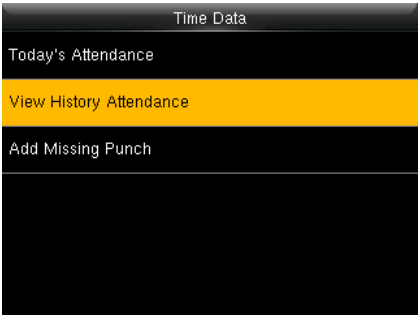


Figure 11-3: Attendance History

2. The list of users will be displayed as shown below:

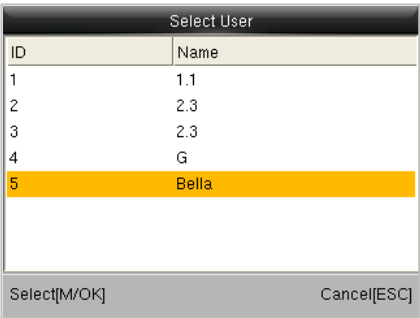


Figure 11-4: Selecting a User

- 3. To select a user, and press <M/OK>.
- 4. The attendance of the selected users will be displayed as shown below:

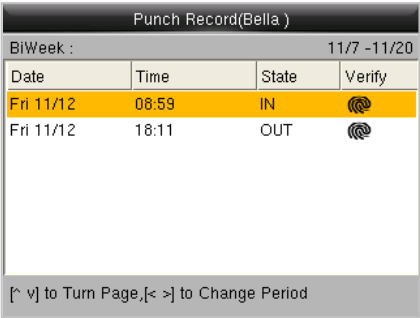


Figure 11-5: Attendance Details of the Selected Users

11.3 Add Missing Attendance Punch

When a user forgets to punch for check-in/check-out, the attendance details can be logged in manually. The steps to add manual logs is given below:

1. Go to **[Time Data]** and then **[Add Missing Punch]**.

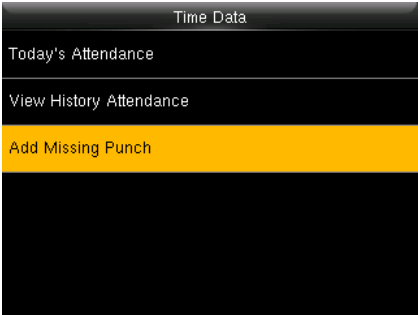


Figure 11-6: Add Missing Punches

2. The interface to select users will be displayed.

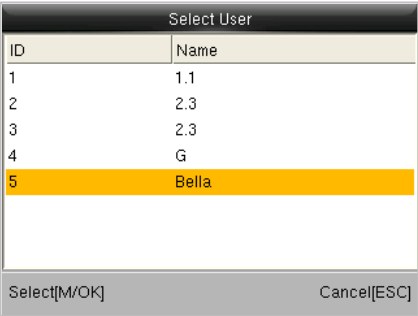


Figure 11-7: Missing Punch Details

3. The interface to add the missing punches will be displayed as shown below:

| Add Missing Punch | |
|-------------------------|----------------|
| User | 5.Bella |
| Date | Fri 2021-11-12 |
| Time | 18:55:06 |
| Punch State | Check In |
| [OK/M] to Save | |
| [ESC] to Cancel Anytime | |

Figure 11-8: Missing Punch Details

4. **Date:** Enter the date on which you must add the missing attendance punch by navigating to Month, Date, and Year text boxes by pressing <▲> or <▼> key.
5. **Time:** Enter the Time by navigating to Hour and Minute text boxes by pressing <▲> or <▼> key. If the time format is 12-hours, then select **[AM/PM]** by pressing <▲> or <▼> key.
6. Select the attendance state as Check-in/Check-out by pressing <▲> or <▼> key.
7. Navigate to **[OK/M to Save]** and press <M/OK>.

Note: Check-in and check-out information cannot be deleted from the device, but administrators can use the edit check-in/check-out function in the NGTeco Time app. For details, see [Edit Punch](#).

12 Time-Attendance Reports

You can generate statistical reports that display the attendance details of the users in the specified pay period. The difficulty of maintaining the user's time and attendance is lessened with this simple reporting system. The data generated from these attendance reports assist with efficient management of user's resources and report accuracy.

12.1 Report Parameters

The procedure to set the report parameters is given below:

- Go to **[Time Report]**. The interface to generate reports will be displayed as shown below:

| Time Report | |
|---------------------|-------------------------|
| Select Pay Period | 2021-11-07 - 2021-11-20 |
| Report Hours Format | HH:MM |
| [OK/M] to Download | |
| | |

Figure 12-1: Time Report

Select Pay Period: The available pay period options are the **Current Pay Period** and **Custom Pay Period**. You can also select the date range of the pay period which is currently being used. In the Custom Pay period, you can define the date range within 31 days.

Report Hours Format: Select the report hours format.



The Start and End dates are predefined based on the selected pay periods except for the Custom Pay period.

12.2 Download Reports

1. Insert a USB drive to download the report.
2. Navigate to **[OK/M to Download]** and press **<M/OK>**.
3. After downloading the report, the success message will be displayed as shown below:

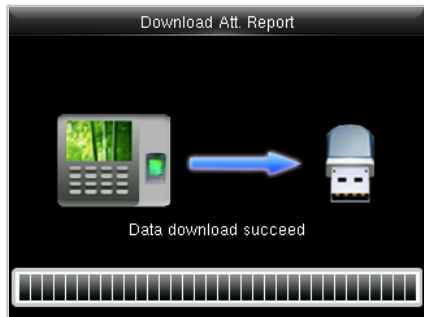


Figure 12-2: Success Message after Generating Time Report

4. Now insert the USB drive into your PC to view the reports.
5. The report will be downloaded by the name of date and time as shown below:

| 名称 | 修改日期 | 类型 | 大小 |
|---|-----------------|---------|-------|
| dateFormulaTemp.dat | 2020/3/12 14:03 | DAT 文件 | 0 KB |
| emfw.cfg | 2020/3/10 10:10 | CFG 文件 | 12 KB |
| log.txt | 2020/3/10 10:12 | 文本文档 | 1 KB |
| NGTimereport-20200101-20200130-1408.xls | 2020/3/12 14:09 | XLS 工作表 | 99 KB |
| NGTimereport-20200304-20200317-1403.xls | 2020/3/12 14:03 | XLS 工作表 | 13 KB |
| NGTimereport-20200304-20200317-1405.xls | 2020/3/12 14:05 | XLS 工作表 | 13 KB |

Figure 12-3: Downloaded Attendance Report

6. The report will be displayed as shown below:

| | A | B | C | D | E | F | G |
|----|--------------------|------------|------------|-----------------------|--------------------|-------------|---|
| 43 | Pay Period | | | 01/01/2020-01/30/2020 | | | |
| 44 | Employee | | | Jjntj Tnjtn (3) | | | |
| 45 | Date | IN | OUT | Work Time | Daily Total | Note | |
| 46 | WED | 01/01/2020 | 01:53 PM | 03:55 PM | 02:01 | 02:01 | |
| 47 | THU | 01/02/2020 | | | | | |
| 48 | FRI | 01/03/2020 | | | | | |
| 49 | SAT | 01/04/2020 | | | | | |
| 50 | SUN | 01/05/2020 | | | | | |
| 51 | MON | 01/06/2020 | 10:45 AM | 11:45 AM | 01:00 | 01:00 | |
| 52 | TUE | 01/07/2020 | 10:26 AM | 11:31 AM | 01:05 | 01:05 | |
| 53 | WED | 01/08/2020 | 11:01 AM | 11:15 AM | 00:14 | 00:14 | |
| 54 | THU | 01/09/2020 | 03:36 PM | 05:36 PM | 02:00 | 02:00 | |
| 55 | FRI | 01/10/2020 | | | | | |
| 56 | SAT | 01/11/2020 | 05:54 PM | 09:57 PM | 04:03 | 04:03 | |
| 57 | SUN | 01/12/2020 | 07:59 AM | 10:02 AM | 02:03 | 02:03 | |
| 58 | MON | 01/13/2020 | 02:03 AM | 09:07 AM | 07:03 | 07:03 | |
| 59 | TUE | 01/14/2020 | 09:07 AM | 11:11 AM | 02:04 | 02:04 | |
| 60 | WED | 01/15/2020 | 02:12 AM | 10:16 AM | 08:03 | 08:03 | |
| 61 | THU | 01/16/2020 | | | | | |
| 62 | FRI | 01/17/2020 | | | | | |
| 63 | SAT | 01/18/2020 | 01:27 AM | 10:27 AM | 09:00 | 09:00 | |
| 64 | SUN | 01/19/2020 | | | | | |
| 65 | MON | 01/20/2020 | | | | | |
| 66 | TUE | 01/21/2020 | | | | | |
| 67 | WED | 01/22/2020 | | | | | |
| 68 | THU | 01/23/2020 | | | | | |
| 69 | FRI | 01/24/2020 | | | | | |
| 70 | SAT | 01/25/2020 | | | | | |
| 71 | SUN | 01/26/2020 | | | | | |
| 72 | MON | 01/27/2020 | | | | | |
| 73 | TUE | 01/28/2020 | | | | | |
| 74 | WED | 01/29/2020 | | | | | |
| 75 | THU | 01/30/2020 | | | | | |
| 76 | Total Hours | | | | | 38:40 | |

Figure 12-4: Detailed Attendance Report

7. The report consists of the specific Pay period, Name of the employee, Date-wise check-in and check-out time, actual work time, and total worked time.
8. The report uses the nearest rule calculation. For example, if the punch states are IN, IN, and OUT for the same user, the device will match the second IN and OUT and the report displays Missing OUT for the first IN.

| ID | Name | Date | IN | OUT | Work Time | Note |
|-----|----------|------------|----------|----------|-----------|-------------|
| 999 | wangl wu | 01-20-2021 | 06:01 AM | | | Missing OUT |
| 999 | wangl wu | 01-21-2021 | 05:51 AM | 06:22 AM | 0.51 | |

9. If the time interval between the IN and OUT states is more than the maximum work hours, then the report will show Missing IN and Missing OUT.

13 System Info

You can check the storage status as well as the firmware information of the device through the **[System Info]** option.

- Go to **[System Info]** and press **<M/OK>**.

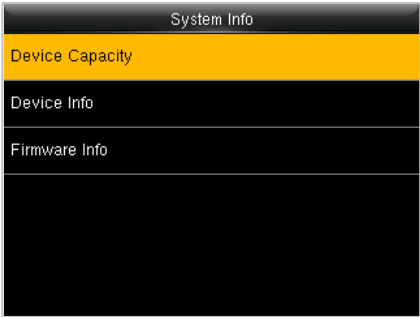


Figure 13-1: System Information

Select the specific option to check the parameters:

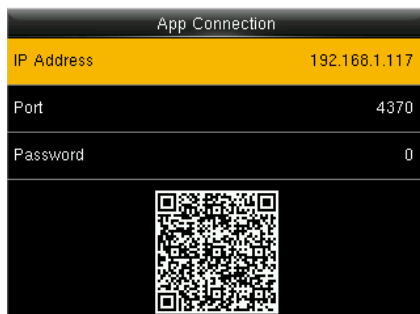
Device Usage: Displays the Number of users, Admin users, Password, Fingerprint, Attendance record and User photo.

Device Info (Information): Displays the Device name, Serial number, MAC address, Fingerprint algorithm, Platform information, Manufacturer date.

Firmware Info: Displays the Firmware version and other version information of the device.


14 Connect to NGTeco Time App

The App Connection interface allows you to connect the NGTeco Time Mobile app with the time clock. Once connected, you can perform User management, Report management, etc. on the Mobile app. The process is as follows:



1. Download and install the NGTeco Time App on your phone.
2. Connect the mobile and time clock to the same Wi-Fi network.
3. Select **[Comm.]** and then **[App Connection]** to view the QR code.
4. Enter the Password and Confirm.



1. Open the NGTeco Time App and press  to scan the QR code from the clock.
2. After a successful connection, you can set the clock parameters from your mobile.

14.1 Register Users from App

1. Go to **Users** menu.
2. Click the **Add User** icon to add a **New user**.
3. The User ID can be auto generated or manually assigned.
4. Enter the First Name, Last Name and Password.
5. Set the permission.
6. Click **Save & Sync** to sync the user details to the time clock.
7. Open the User List on the clock to enroll user's face.

14.2 Attendance

View Attendance Record

1. Go to **Attendance** menu.
2. Select **View User's Attendance Record**. You can also select the date.

Add Missing Punch from App

1. Go to **Attendance** menu.
2. Click the **Add Punch** icon.
3. Select the user to add the missing check-in/out.
4. Select the Punch Date and Time.
5. Select the Punch State.
6. Click **Save & Sync** to sync the attendance details to the clock.

Edit Punch

1. Go to **Attendance** menu.
2. Select the user record you want to edit, and click the **Edit Punch** icon.
3. Select the Punch Date and Time.
4. Select the Punch State.
5. Click **Save & Sync** to sync the attendance details to the clock.

14.3 Download Time Report from App

Report

Select User: BrownJack

Select Pay Period: ☒

- 04/03/2021-04/16/2021
- 03/20/2021-04/02/2021
- 03/06/2021-03/19/2021
- 02/20/2021-03/05/2021

Select Custom Period: ☐

Email Timecard Report To:
Multiple emails are separated by";"

Input email here if the employee has no email address

Download & Email Report

1. Go to **Report** menu.
2. Select a user or all the users.
3. Select the specific **Pay Period**.
4. Or, select **Custom Period** and set a date range within 31 days.
5. Enter the email addresses.
6. Click **Download & Email Report** to generate the time report.

Note: Connection to a computer and remote download of reports is not supported.

14.4 Setup Pay Period and Attendance Rule from App

Setup

Pay Period: Weekly

Start Day of the Week: Sunday

Day Cutoff Time: 00:00

Duplicate Punch Interval: 5 minutes

Maximum Work Hours: 8 hours

Report Hours Format: ☒ Decimal ☐ HH:MM

Save & Sync

1. Go to **Setup** menu.
2. Set the **Pay Period**.
3. Set the **Start Day of the week**.
4. Set the **Day Cutoff Time**.
5. Set the **Duplicate Punch Interval**.
6. Set the **Maximum Work Hours**.
7. Set the Time format for report generation. Click **Save & Sync** to sync the settings to the clock.

15 Troubleshooting

| Category | Issue | Quick fix |
|-------------|--|--|
| Power | The clock does not operate after the power is supplied | <ul style="list-style-type: none">• Check the Power Cable for any damages. |
| PIN | I lost my PIN | <ul style="list-style-type: none">• Contact the Administrator to change the PIN.• If you have lost the Admin PIN, contact the supplier. |
| Fingerprint | The enrolled fingerprint could not be authenticated | <ul style="list-style-type: none">• Place the finger in a proper position.• Make sure your finger is free from cuts and stains. If the registered finger has such flaws, enroll another finger. |
| Admin | I lost my Admin credentials | <ul style="list-style-type: none">• Contact another Admin to reset your credentials.• Contact the supplier for further proceedings. |

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