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### 1 conanair Base Station version

The current version is 3.0.1. It supports from version 2.0.x onwards of [the conanair](#) device.

### 2 Operating environment

#### 2.1 Operating System

conanair [Base Station](#) is designed to run on Microsoft supported Windows. However, it is performed on the latest Windows10 Pro (64-bit Ver). Also, the color-coded display of the console can only be done on Windows10. This is due to the specifications of the Window command prompt.

#### 2.2 Hardware

The minimum configuration is to meet the Windows system requirements.

The greater the number of conanair units supported, CPU with high processing speed and large capacity memory are required. In addition, the amount of free hard disc space needed must be commensurate with the amount of data to be stored.

### 3 Install

Run the installer `cna_base_setup_0_0_3d.exe` and follow the on-screen prompts.

After installation, configure the settings according to the separate document “conanair automatic mode interface specifications (0.0.4).”

#### 3.1 Install folder

Conanair Base Station saves the data used internally by the applications to a subfolder under the installation folder.

- When it has multiple drives, select a drive with enough free space to save the amount of data you intend to save.
- Select a location where it can read and write without any issue with the user authority to run the Base Station.

Also, `APP_ROOT` used by the user application can be set to any voluntary location from the above.

### 4 Precautions at the start of use conanair

When a battery is installed in a conanair with completed Wi-Fi connection settings, etc. (including cases where the battery is removed and reinstalled), Conanair will start communicating with the Base Station if it is left unattended without entering the Web settings. At this time, the communication is retried almost continuously until it is possible to communicate and obtain schedule information. Therefore, leaving the device in a state where communication is not possible, such as the following, will drain the battery in a relatively short time.

- Network used by conanair is not working properly.
- Base Station isn't working.
- The correct authentication key file isn't installed on a base station.
- Conanair setting in question is not described in `tags.conf` file.

Also, a provisional schedule such as acquiring an original schedule by recommunicating after 3 mins is set up to correct conanair built-in timer at the first communication. Even if the first communication is succeeded if the second communication fell in impossible communication status, it tries to communicate every 3 mins, so a battery is drain abnormally faster than an original schedule.

After the battery is installed, the first data will be saved for the third time in a normal communication. This is done at the time according to the original schedule but tends to have more time errors than the fourth and subsequent times.

To prevent abnormal battery drain, we recommend the following operation when batteries are installed in Conanair.

- (1) Do not leave Conanair unattended until you have verified that the first and second were successful.
  - Visual confirmation of LED display
  - Visual confirmation of console screen
- (2) Confirm that the third communication was run normally by the method below.
  - Check the saved data
  - Check in the status report (can check 4<sup>th</sup> scheduled communication date)

If you have gone this far, you have completed the confirmation process immediately after installing the batteries.

Note: time error regarding an original schedule time tends to increase at the third times communication. Time error is predicted might be about 3% from putting a battery in until an original schedule time.

## 5 Report

The following reports will be created directly under set APP\_ROOT.

### 5.1 Error report

Reports errors found when loading settings

File name	Summary
key_error.txt	Abnormal of authentication key file's format
key_vs_tags.txt	Non-correspondence tags.conf file content and existing authentication key file
sched_error.txt	schedule.conf file content problems
tags_error.txt	tags.conf file content problems

### 5.2 Event log

File name: evtlog.txt

It records problems and anomalies that occur during operation. Much of the content overlaps with the console display, but some of it appears only in one or the other.

### 5.3 Status reports

File name: status.txt

This is a summary of the operating status of each individual conanair.

The same information can be displayed in the console. In the console, you can also limit as only things doesn't send data even after scheduled date and display them.

#### 5.4 Configuration report

File name: schedule.txt

A list of Tag, ID, and schedule settings for each conanair.

It reflects the latest information loaded by Base Station. You can check to see if your changes in the configuration file have been loaded correctly.

#### 5.5 Parameter Lists

File name: appparam.txt

This is a list of settings for the entire application.

It reflects the latest information loaded by Base Station. You can check to see if your changes in the configuration file have been loaded correctly.

### 6 Console

Base Station doesn't have a graphical interface.

Display of operating and minimal operations are performed using the same console as the command prompt. However, it is not necessary to enter commands.

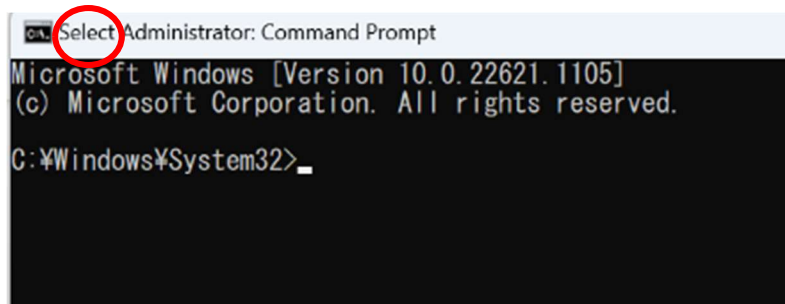
#### 6.1 How to operate

Operated by pressing keys on the keyboard.

Key	Operation
Q	Exit Base Station
Ctrl+Break	Restart Base Station
Ctrl+C	Reload configuration
C	Display configuration report on screen
P	Display parameter lists on screen
S	Display status report on screen
B	Display on-screen status report focused on problematic items

#### 6.2 Note on simple selection mode

You can select and copy text displayed at the command prompt using the mouse. This may cause a selection to be made simply by mouse clicking on the command prompt, even if you do not intend to do so.

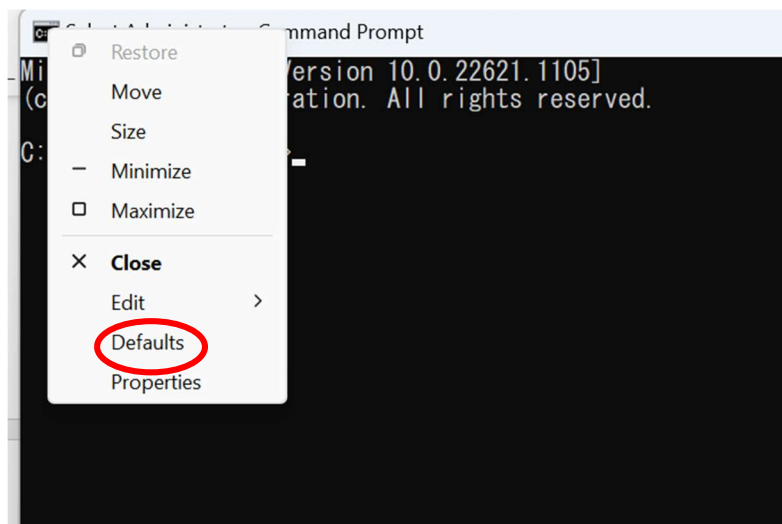


When a program running at the command prompt tries to display text on the screen in a "selected" state, it waits until it is no longer selected. In other words, the program stops running. This is a big problem for a program like Base Station, which is designed to run continuously.

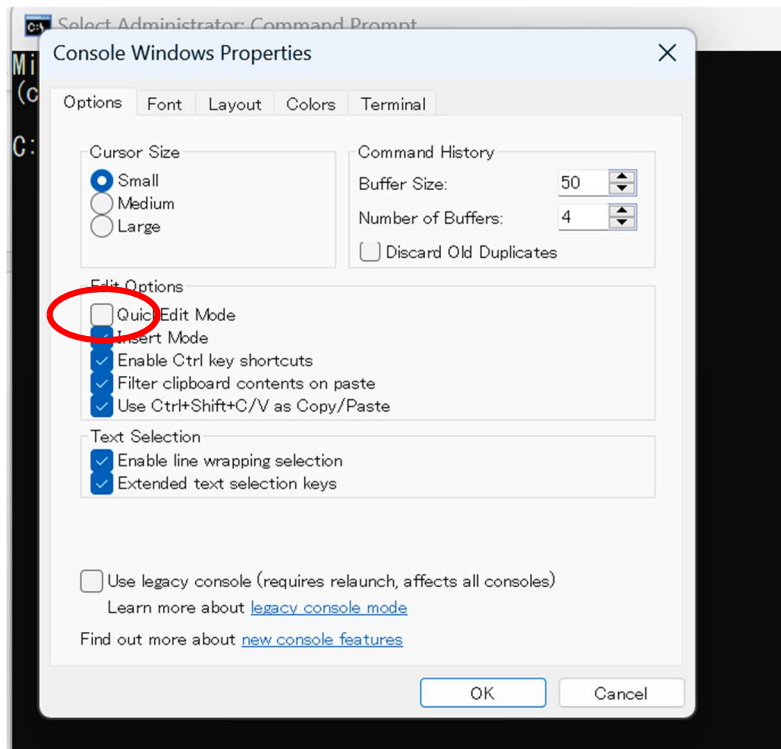
Base Station has a thread dedicated to screen display and separates it from other processes so that processing can continue even in the selected state. At this time, information to be displayed on the screen is stored in memory. Therefore, while this is not a problem for a short period of time, it is possible to run out of memory if the selection state continues ongoingly. In the worst case, Windows itself may become unstable.

This problem can be prevented by deselecting "Simple Edit Mode" using the following operation.

- (1) Open a new command prompt that is not Base Station, right-click the upper left corner, and select "Default Value" from the menu.



- (2) Uncheck "Simple Edit Mode" in "Console Window Properties" "Edit Options" and click "OK".



- (3) Close the opened command prompt, and if the Base Station command prompt was open, close it and reopen it.

When to continuous operation of Base Station, it is strongly recommended to deactivate the "Simple Edit Mode" using the above procedure. Even with this setting, you can still activate the simple edit mode in the "Properties" of individual command prompts. Or you can start the selection operation by right-clicking the menu item "Edit" -> "Mark".

It is also recommended to check the settings from time to time as the entire system settings may be reset due to Windows update.

## Revision history

2019-4-12      0.0.3 → 0.0.4

Revised wording

Revised version number to match other documents

2023-1-10      0.0.4 → 3.0.4

Revised wording

Revised version number to match other documents