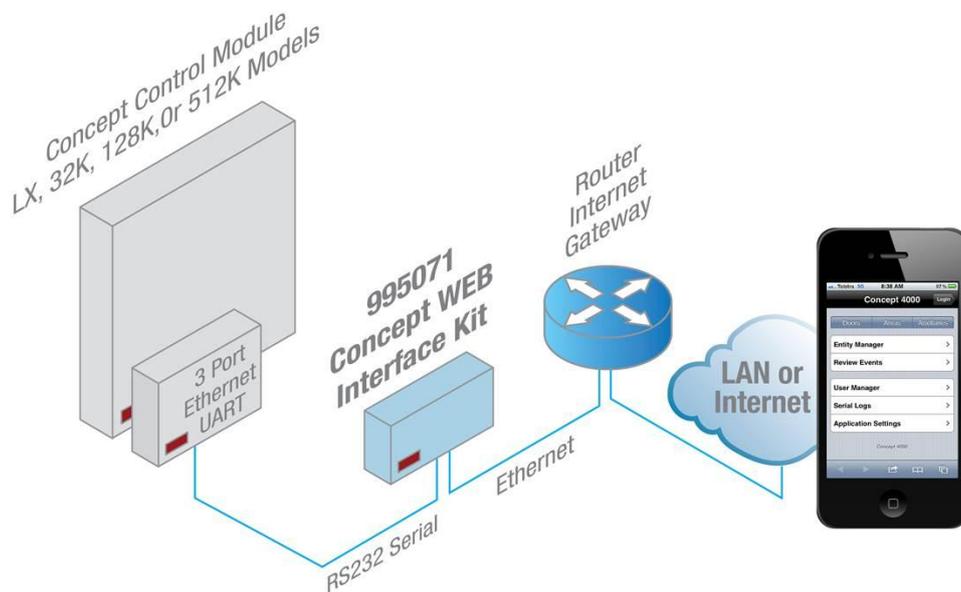




## CONCEPT TO IPHONE WEB INTERFACE INSTALLATION MANUAL

995071



## **UPDATES AND ADDITIONAL INFORMATION:**

---

*Check the Website regularly for:*

- Updates and/or changes to this manual.

*Home Page:*

- <http://www.innerrange.com>

*Please send or fax any comments regarding this manual to:*

Support at the Head Office address. (See front cover)

Or e-mail to: [publications@innerrange.com](mailto:publications@innerrange.com)

*Disclaimer:*

1. The manufacturer and/or its agents take no responsibility for any damage, financial loss or injury caused to any equipment, property or persons resulting from the correct or incorrect use of the Inner Range system and its peripherals. The purchaser assumes all responsibility in the use of the Inner Range system and its peripherals.
2. Whilst every effort has been made to ensure the accuracy of this manual, Inner Range Pty Ltd assumes no responsibility or liability for any errors or omissions. Due to ongoing development the contents of this manual are subject to change without notice.

## Introduction

---

The Concept web interface kit provides a convenient portal to control your Concept controller from anywhere in the world.

This product has been designed in conjunction with [dingowebsites.com](http://dingowebsites.com).

## Features

- Individual control of Area, Door and Home Auxiliaries.
- Remote web access to the Concept 4000 controller.
- Individual user logins.
- Clean and easy to use interface.
- Display review events.
- Block access to certain elements.

## Requirements

---

- Concept web interface module.
- Concept panel with the following configuration:
  - Firmware v7.00 or above.
  - A multiport Ethernet expansion board (V4.01 or later) with an unallocated RS232 port to connect the Concept controller to the Concept web interface module.
- An understanding of networking fundamentals.
- Best viewed with an iPhone, iPad or Android device using the (free) Dolphin browser.
  - Safari and Chrome are ideal browsers for accessing the web interface via PC.
  - Visual elements may not display as expected on other browsers.



Concept LX panels do not have home auxiliaries.

# Configuration

---

## Concept

1. Log in in to the Concept controller: [0], [1], [Ok]
2. Configure the communications task: [Menu], [7], [3], [1], [Ok]
3. Select an appropriate task number: [▲] / [▼]
4. Communications task name – **Automation** [▶] x21  
Use the following options: [Help], [9]
  - Port – *Any*.
  - Baud rate – **9600** [▶] x5
5. Enable the communications task: [Help], [0], [9]

## Notes

- Make sure the communication task is idle before programming.
- Pressing the [9] key toggles the communication task between active and idle.
- Make sure the port selected for this communications task is not in use by another.
- Optional – Enable the PIN code required option on the 'TRAP . . .' screen.
- Please refer to 'Automation / Advanced Automation Comms-21-1' of the Programming, Applications And Reference Manual for more detail.

## iPhone web interface

The web interface module is configured for DHCP. To determine what IP has been assigned to the web interface module, attach a monitor to the VGA port and wait until the boot process has completed.

The MAC address has been printed on the front of the web interface module so IT administrators can add the device to the DHCP server for fixed addressing.

Typical post boot output:

```
MAC Address: [ 00:1b:eb:30:22:11 ]
Currently assigned IP: [ 192.168.131.133 ]
```

If there is trouble with the Ethernet adaptor for whatever reason the following message will appear:

```
MAC Address: [ Fail ]
```

The following message will appear if the DHCP server has not served an IP or the iPhone web interface is not physically attached to a network with a DHCP server:

```
Currently assigned IP: [ None ]
```

TCP ports 22, 80 and 443 are exposed on the web interface.

Port	Description
22	Secure Shell (SSH)—used for secure logins, file transfers (scp, sftp) and port forwarding
80	Hypertext Transfer Protocol (HTTP)
443	HTTPS (Hypertext Transfer Protocol over SSL)

Port 22 is only required for configuration of the web interface. We recommend that this port is only exposed to the local area network.

We recommend using TCP port 443 to access the web interface. A dialog will most likely appear requiring approval of a self-signed certificate before you can use the interface. This is expected behaviour and will occur once for each browser used.

As an alternative to (or in addition to) TCP port 443, port 80 can also be used to access the web interface.

## Router configuration

Most routers will allow the user to permanently assign an IP address to the web interface module (MAC address). Please refer to your router's documentation for further information.

## Accessibility from the cloud

Depending on your ISP you may or may not have a statically assigned public IP address. Users without a statically assigned address might want to consider using a free re-direction service such as No-IP or DynDNS. These services allow the user to enter an address as an alternative to an IP for accessing the web interface module. You will need to configure your router to use this service (if supported) or alternatively you can configure a computer that is permanently on to run the redirection service client.

Additionally, the router will need to be configured to forward port 80 to the IP given to the web interface module.

## Usage

---

Open your browser and enter the IP address assigned to the web interface module.

Eg. `http://192.168.131.133`

If you are using port 443, you will need to enter `https://192.168.131.133` instead.



iPhone users might find that without entering `http://` or `https://` before the IP address will end up with the device prefixing the address with `www.`.

## Login

When you access the web page for the first time you will be presented with a default view here:

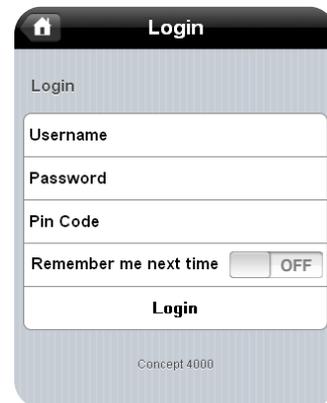
Tap any one of the available options to proceed to the login dialog.



If you want to remain logged in, tap the 'Remember me' button.

### Default login details:

Username: **admin**  
Password: **admin**



We strongly recommend you change the password for the admin account as soon as possible to avoid unauthorised access to your concept controller.

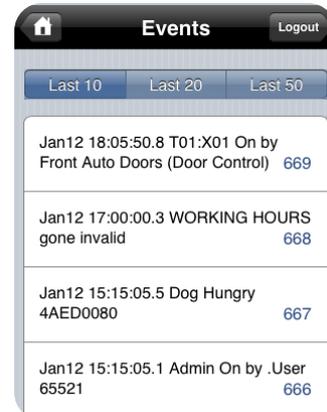
### PIN Code:

The optional PIN code field allows entry of the PIN code the user would normally enter if using a standard Concept terminal. If the option has been enabled in the panel communication task programming, the user will need to enter a valid PIN code to control areas.

The PIN code entered will need to be assigned to one of the first 32 users in the Concept controller with an appropriate area list.

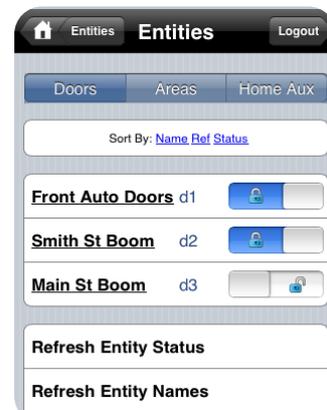
## Review

Review events are displayed as the last 10, 20 or 50 items. Tapping any one of the 'Last X' button will refresh the view with latest review events.



## Control

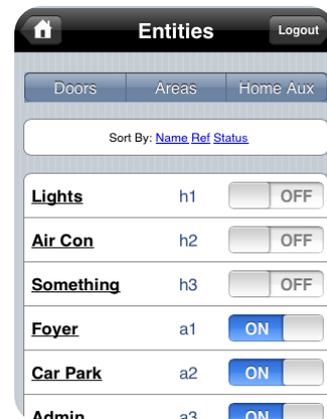
To control an area, door or home auxiliary, tap the appropriate button from the home page followed by the button for the entity you want to control.



Door unlocking is not timed. Unlocking a door will leave the door unlocked until you lock it again. Calculated auxiliaries and/or Auxiliary timers can be used to automatically re-lock doors as required.

## Custom entity naming

You can change the name of the entities displayed and their visibility. To change entity properties, tap 'Entity manager' on the home page.



Tap the entity you want to change to display its details.



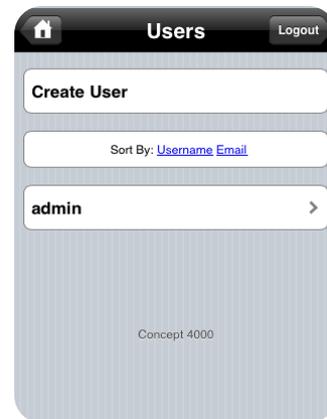
## User management

Users can be added or removed by tapping 'Application settings' from the home page followed by 'User manager'.

This feature is only available to the 'Admin' user.

### Creating a new user

- Tap 'Create User'.
- Enter the name for the new user in the 'Username' field.
- Enter the new users' password in the 'Password' and 'Confirm Password' fields.
- Tap 'Save' to create the user.



### Delete an existing user

- Tap the user to be removed.
- Tap 'Delete User'.
- Tap 'OK' on the confirmation dialog.

### Changing the password on an existing user

- Tap the user that is to have their password changed.
- Enter the new password in the 'Password' and 'Confirm Password' fields.
- Tap 'Save' to commit the password change to the user.



Users managed by the web interface module are not related to the users on the Concept controller.

## Settings

Tap 'Application settings' from the home page followed by 'Application settings' again to access the web interface settings.



<b>Page Size</b>	The total number of Doors / Areas / Home Auxiliaries displayed per page.
<b>Zone Download Limit</b>	The total number of zone descriptions the web interface module will download from the controller.
<b>Area Retry Limit</b>	The total number of attempts the application will make to refresh the area status during an arm. Minimum recommended value is 20.
<b>Com Port</b>	The serial communications port used on the web interface module to communicate with the controller.
<b>Serial Logging</b>	Reserved for diagnostics purposes.
<b>License Key</b>	The license key to enable the web interface module.
<b>Submit</b>	Save changes.



Before an area is armed, the Concept panel will take time to check all of the associated inputs. The Area Retry Limit should be increased if the area status is not reporting correctly.

If you see the following message displayed at the top of any page, you will need to check the connection from the Concept controller to the web interface module and the Automation task programming.

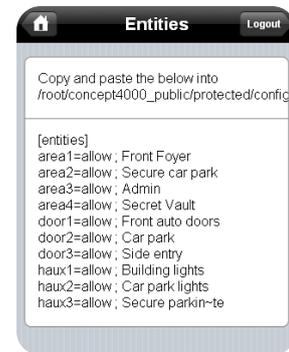
⚠ Concept 4000 comms error, please check serial connection.

## Entity Permissions

The entity permission settings can be configured by the installer to lockout individual entities to all web interface users.

Tap 'Application settings' from the home page followed by 'Entity Permissions' again to access the entity permission configuration page.

This page will only list the available (programmed) entities and provide a default 'allow all' list. It will also display the location of the file that is to contain the entity list.



Entities have one of two options – allow or deny.

Invalid entities or entities with a value other than deny are treated as deny.

Entities that are set to deny are still visible in the Area / Door / Home Aux pages. However, the entity cannot be controlled.



This is an advanced option. Care should be taken to follow the directions exactly as directed. Please read the remainder of the document before proceeding.

## Creating an entity list (Option 1)

1. Using the browser on your computer navigate to the Entity Permissions page.
2. Copy all of the text below the line. (See the Entities.ini example below)
3. Open a notepad application and create a new document.
4. Modify each line as required by replacing “allow” with “deny” to stop all users from controlling particular entities.
5. Save the file to a USB drive as “entities.ini”.
6. Insert the USB drive in to one of the available USB ports on the web interface module.
7. If you have not already done so, plug a keyboard and monitor in to the web interface module.
8. Log in to the web interface module using the username “admin” and password “admin”.
9. Mount the USB drive by typing “sudo mount /dev/sda1 /media”. You will be required to enter your password once more.
10. Copy the configuration file to the web interface by typing “sudo cp /media/entities.ini /root/concept4000\_public/protected/config/entities.ini”.
11. Unmount the USB drive by typing “sudo umount /media”.
12. Log out of the web interface by typing “exit”.

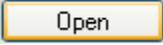
### Notes:

- The above procedure assumes you are using a USB drive formatted as FAT or NTFS. (If the USB drive works under Windows, it should be usable for the above procedure)
- If your USB drive has multiple partitions on it, the procedure above may not work.

## Creating an entity list using PuTTY (Option 2)

1. Using the browser on your computer navigate to the Entity Permissions page.
2. Copy all of the text below the line. (See the Entities.ini example below)
3. Open a notepad application and create a new document.
4. Modify each line as required by replacing “allow” with “deny” to stop all users from controlling entities.
5. Login to the web interface using PuTTY (or an equivalent application).



6. When you click , a new window will appear with a login prompt.

```
Login as:
```

7. Enter the username "admin" and password "admin".
8. Ensure the old configuration file has been removed (if it exists) by entering "sudo rm /root/concept4000\_public/protected/config/entities.ini". You will be prompted for your password once more.
9. Create the new entity configuration file "sudo vim /root/concept4000\_public/protected/config/entities.ini"
10. You should see a line at the bottom of the screen like this:  

```
"/root/concept4000_public/protected/config/entities.ini" [New File]
```
11. Go to your notepad application and copy all of the text.
12. Go back to your PuTTY session and press "i". "-- INSERT --" should appear at the bottom of the screen.
13. Right click anywhere in the PuTTY window. The text you copied from the notepad application should now be in your PuTTY window.
14. Press "Escape" followed by ":" then "x" to save your work.
15. Type "exit" to close your connection to the web interface and close PuTTY.

If for whatever you get stuck or make a mistake, you can always close the PuTTY window and start again.



PuTTY is a free Telnet and SSH client for Windows. You can download it from here:



"<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>"

### Entities.ini example

```
[entities]
area1=allow ; Front Foyer
area2=allow ; Secure car park
area3=allow ; Admin
area4=deny ; Secret Vault
door1=allow ; Front auto doors
door2=allow ; Car park
door3=allow ; Side entry
haux1=allow ; Building lights
haux2=allow ; Car park lights
haux3=allow ; Secure parking
```

**This page has been intentionally left blank**

