

# Operation Guide

IntelliFlex I/O Central Network Controller User Interface

**July 6, 2020**

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## Introduction

The IntelliFlex I/O Central Network Controller (CNC) provides a web-based user interface that can be used to monitor and override shades in a network. It also provides the ability to create schedules and view logs of past shade movements. This document is a guide for how to use the interface both locally on the CNC as well as remotely through the network.

## Accessing the User Interface

There are three ways of accessing the user interface on the CNC.

### Touchscreen Mode

The CNC can be used as a touchscreen for all functions that do not require the user to input characters from a keyboard. This is useful in cases where the CNC will function as a user override wall station, without the need for a login for security.

### Desktop Mode

The CNC can be used as a desktop station by plugging in a USB keyboard and mouse. An external monitor can optionally be connected using the HDMI port. This mode is useful for managing all aspects of the system from a local station.

### Network Mode

The user interface for the CNC is web-based, which means that it can be accessed from any computer in the same network as the CNC using a web browser. The URL to access the CNC will be determined during the commissioning process, but in general will be:

`http://<IP Address>:8080/`

## User Types

There are two types of user accounts on the CNC: Admin and Standard.

### Admin User

The Admin user has access to all functions in the system including monitoring and overriding any shade, creating groups and schedules, and managing other users.

### Standard User

The Standard user has access to a limited number of shades and functionality, as configured by the Admin user.

## Operation

This section describes the operation of all functions of the user interface.

### Login Screen

**Sign in**

**Username**

**Password**

[Login](#)

The login screen allows users to log into their account on the CNC. When the CNC is used in touchscreen mode, the login screen is bypassed and the user is logged in automatically.

### Admin User Operation

If logged in as an Admin user, the following screens are available.

### Shades Screen

<a href="#">Shades</a>   <a href="#">Groups</a>   <a href="#">Schedules</a>   <a href="#">Sensors</a>   <a href="#">Switches</a>   <a href="#">Users</a>   <a href="#">Settings</a>						
<input type="checkbox"/>	<b>Shades</b>		<b>Pos (%)</b>	<b>Status</b>	Network	All <span>▼</span>
<input type="checkbox"/>	1-E-01		0	User	<input type="checkbox"/>	Out Of Service
<input type="checkbox"/>	1-E-02		0	User	<a href="#">Open</a>	
<input type="checkbox"/>	2-S-01		0		<a href="#">Prev Stop</a>	
<input type="checkbox"/>	2-S-02		0	User	<a href="#">Stop</a>	
<input type="checkbox"/>	2-S-03		0	User	<a href="#">Next Stop</a>	
<input type="checkbox"/>	2-W-01		0	User	<a href="#">Close</a>	
<input type="checkbox"/>	2-W-02		0	User	<a href="#">Clear Override</a>	
<input type="checkbox"/>					<a href="#">History</a>	

The Shades screen displays a list of shades in the system and the current position of that shade. The user can select a shade from the list to move it to a new position using the Open, Prev Stop, Stop, Next Stop or Close commands. The Clear Command button returns the shade to automatic control.

History
✕

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Date

✕
📅

Time	User	Cmd	Priority	ObjectName
2019-06-27 10:18:34	admin	Move Fully Extended	7	Office 501
2019-06-27 10:18:28	admin	Move Fully Extended	7	Office 501
2019-06-27 10:18:24	admin	Stop	7	Office 501
2019-06-27 10:18:23	admin	Move Fully Retracted	7	Office 501
2019-06-27 10:18:05	admin	Stop	7	Office 501
2019-06-27 10:18:02	admin	Move Fully Extended	7	Office 501

The History button brings up a history of movements for that shade that can be filtered by date.

The Out of Service checkbox is used to lock a shade so it cannot be moved by any means.

### Groups Screen

Devices
Groups
Schedules
Sensors
Users

Name	
All Shades	+
Boardroom	-
Offices	Edit
	Retract
	Stop
	Extend
	Clear Override

The Groups screen allows groups of shades to be sent commands at once. The Retract, Stop, Extend or Clear Override buttons can be used to send that command to the selected group from the list. Groups can be added with the + button, removed with the – button or edited with the Edit button.

Add Group ×

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Name

- Boardroom E
- Boardroom S
- Office 501
- Office 504
- Reception

---

When adding or editing a group, the name for the group and the shades belonging to the group are set.

### Schedules Screen

Devices
Groups
Schedules
Sensors
Users

Name	Time	Days	Action	Users
Open in the Morning	08:00	Mon, Tue, Wed, Thu, Fri	Open	admin
Close at Night	17:00	Mon, Tue, Wed, Thu, Fri	Close	admin

+

-

Edit

The Schedules screen allows the user to schedule overrides for groups of shades. The + button is used to add a schedule, and the – and Edit buttons are used to remove and edit the selected schedule from the list.

Name Open in the Morning

Days Mon, Tue, Wed, Thu, Fri

Time 08:00 ⌄

Action Open

Boardroom E  
 Boardroom S  
 Office 501  
 Office 504  
 Reception

The following properties can be set for each schedule:

- **Name** – The name for the schedule
- **Days** – The days of the week that the schedule should run on
- **Time** – The time for the schedule to occur at
- **Action** – The action to perform at the scheduled time
- **Shade Group** – The shades to perform the scheduled action on

### Sensors Screen

Devices
Groups
Schedules
Sensors
Users

Sensor

Name	Type	Reading
Sun W	Sun	0.0 Lux
Sun S	Sun	0.0 Lux
Wind 1	Wind Speed	0.0 mph
Wind 2	Wind Speed	0.0 mph

History

The Sensors screen shows a list of sensors in the system and the current reading for those sensors.



History

Date

Time	Name	Value
2019-06-27 10:00:17	Sun S	0.00 Lux
2019-06-27 10:00:17	Sun W	0.00 Lux
2019-06-27 09:59:36	Sun 1	0.00 Lux
2019-06-27 09:59:36	Sun 2	0.00 Lux
2019-06-27 09:58:54	Wind 2	0.00 mph
2019-06-27 09:58:54	Wind 1	0.00 mph
2019-06-27 09:32:51	Sun 1	0.00 Lux
2019-06-27 09:32:51	Sun 3	200000.00 Lux
2019-06-27 09:32:51	Sun S	100.00
2019-06-27 09:32:51	Sun E	100.00

The History button can be used to show a history of sensor readings that can be filtered by date.

### Switches Screen

Shades Groups Schedules Sensors **Switches** Users Settings

**Name**

Out Of Service

- 3802704 Zone 1
- 3802704 Zone 2
- MT S Switch
- MT W Switch

The Switches screen allows switches to be disabled. This is done by selecting the switch and checking the Out of Service box. Once disabled the switch will no longer operate its assigned group of shades.

## Users Screen

Names	Type
admin	manager
Bob Smith	user
Cathy Jones	user

Name	admin
Type	manager
<input type="button" value="Submit"/>	
<input type="button" value="Set Shades"/>	

The Users screen is used to create and edit users of the system. Users are added with the + button and removed with the – button. If the selected user type is User, the Set Shades button is used to select the shades which that user will be given permission to operate.

## Standard User Operation

If logged in as a Standard user, the following screens are available:

### Devices Screen

The Devices screen functions in the same way as the Admin user, with the following restrictions:

- Only the shades that the user has permissions for are shown in the list
- The current position of the shades is not shown
- The History button is not shown

### Schedules Screen

The Schedules screen functions in the same way as the Admin user, with the following restrictions:

- Only the schedules that were created by the user are shown
- Only shades that the user has permissions for can be scheduled

### Groups Screen

The Groups screen functions in the same way as the Admin user, with the following restrictions:

- Groups cannot be added or removed
- Only groups containing only shades that the user has permissions for are shown