

Sample Screenshots (Part 2)

Crestron and AMX

Please find Part 2 of a collection of sample screenshots of software designed, developed and commissioned during my employment at AVMI:

Company/Client	Location	System Description	Role
1. Global Bank	UK Branch Rollout	Digital signage and LCD groups	Management and control
2. High St Phone Store	London	Digital signage	Monitoring and diagnostics

I was responsible for all aspects of GUI design, program design, development, test, commission, demonstration and handover to client. This document has been split into x2 parts so that each part is not too large and can be opened and viewed directly on github.com.

1. Global Bank UK Branch Rollout

Digital Signage LCD Groups – Management and Control

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Store Open	--:--	--:--	--:--	--:--	--:--	--:--	--:--
Store Close	--:--	--:--	--:--	--:--	--:--	--:--	--:--

No Display Groups.
Please ensure that the System Config (*.csv) file contains Display Groups and is loaded onto processor.

Display Control | Display Offset | FTP | IP Ping

Sunday 11th August 2019 17:02

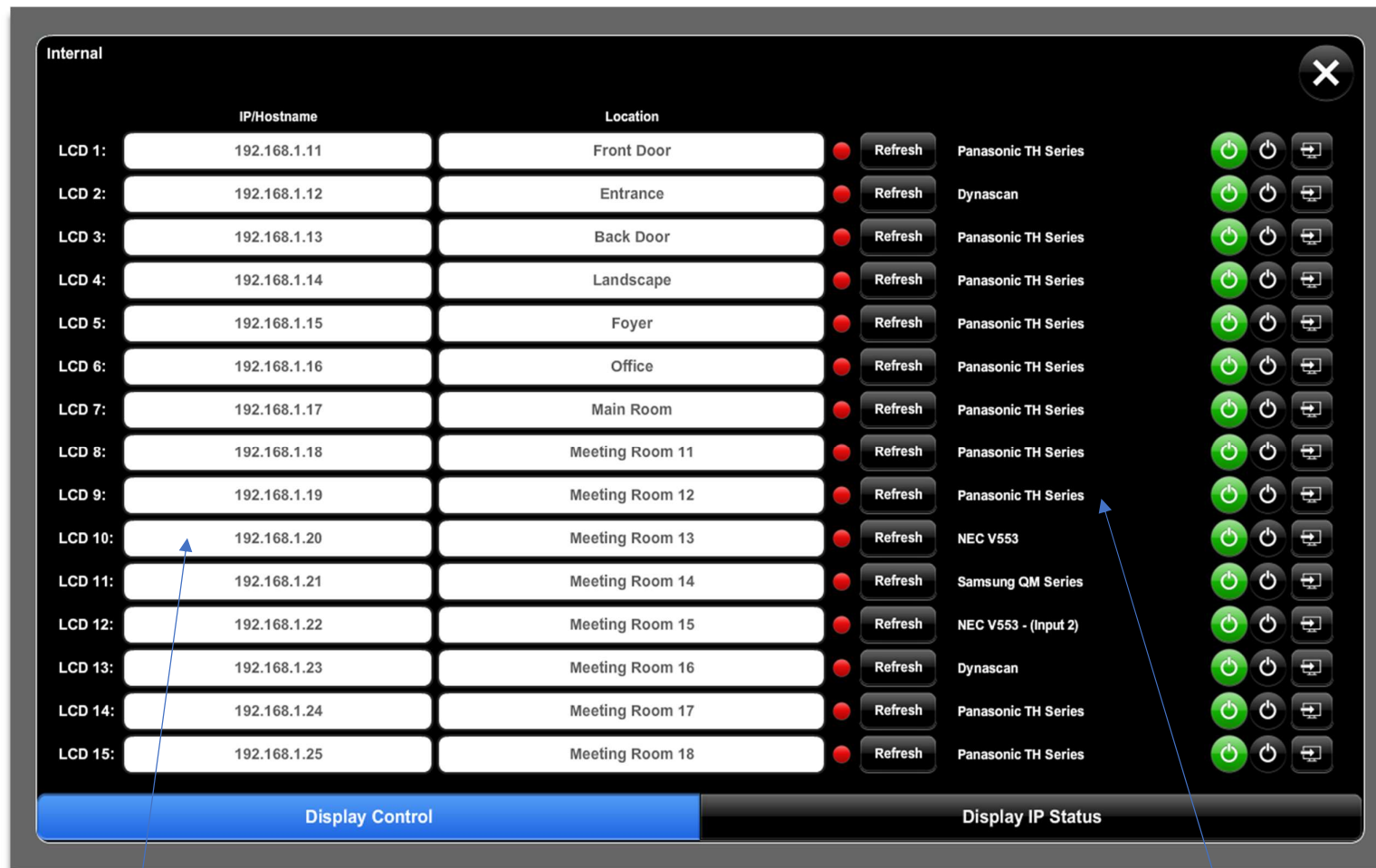
Control up to x4 LCD groups each containing up to x15 LCDs via LAN within a bank branch

Branch specific SystemConfig.csv is loaded into system, containing all LCD names, grouping, IP, scheduling and API information



Manual power control of the x2 LCD groups called 'Internal' and 'External'

Use either a locally defined schedule or a remote schedule stored on banks FTP server to set the on/off times of the LCD groups



LCD group contains up to x15 LCDs controlled via LAN

Remotely change make/model or API of LCD without needing to update program or disrupt branch

	IP/Hostname	Location			
LCD 1:	192.168.1.11	Front Door	●	Refresh	Connection Broken Locally
LCD 2:	192.168.1.12	Entrance	●	Refresh	Connection Broken Locally
LCD 3:	192.168.1.13	Back Door	●	Refresh	Connection Broken Locally
LCD 4:	192.168.1.14	Landscape	●	Refresh	Connection Broken Locally
LCD 5:	192.168.1.15	Foyer	●	Refresh	Connection Failed
LCD 6:	192.168.1.16	Office	●	Refresh	Connection Broken Locally
LCD 7:	192.168.1.17	Main Room	●	Refresh	Connection Broken Locally
LCD 8:	192.168.1.18	Meeting Room 11	●	Refresh	Waiting for Connection
LCD 9:	192.168.1.19	Meeting Room 12	●	Refresh	Waiting for Connection
LCD 10:	192.168.1.20	Meeting Room 13	●	Refresh	Waiting for Connection
LCD 11:	192.168.1.21	Meeting Room 14	●	Refresh	Waiting for Connection
LCD 12:	192.168.1.22	Meeting Room 15	●	Refresh	Connection Failed
LCD 13:	192.168.1.23	Meeting Room 16	●	Refresh	Connection Failed
LCD 14:	192.168.1.24	Meeting Room 17	●	Refresh	Connection Failed
LCD 15:	192.168.1.25	Meeting Room 18	●	Refresh	Connection Failed

Display Control

Display IP Status


Real time status of IP connections to LCDs within branch

All LCD IP connections auto refresh with additional ability to manually clear, flush and refresh the connection

Store Schedule ☐ Local ☒ Remote

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Internal On	09:00	09:00	09:15	09:00	09:00	--:--	--:--
Internal Off	01:30	19:30	19:30	19:30	19:30	--:--	--:--
	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable	<input type="checkbox"/> Enable

Internal




☒ View Times

Store Open Offset: 01 h 00 m ☒ Prior ☐ After ☒ Enable

Store Close Offset: 01 h 30 m ☐ Prior ☒ After ☒ Enable

External



☐ View Times

Store Open Offset: 02 h 00 m ☒ Prior ☐ After ☒ Enable

Store Close Offset: 02 h 30 m ☐ Prior ☒ After ☒ Enable

Display Control **Display Offset** FTP IP Ping

Monday 8th July 2019 12:35

LCD group offset provides the ability to apply an offset to when the LCD group turns on/off relative to the branch open/close times

Press any text field to open keypad to set time/value

Server URL:

Username:

Password:

Daily Download: ☒ Enable ☐ Auto Generate ☒ Fixed

Branch ID:

System Config: FTP Load Success ✓

Remote Schedule: FTP Load Success ✓

File Open.
File Reading...

Click on status icons for further information

Display Control Display Offset **FTP** IP Ping

Monday 8th July 2019 15:57

Automate daily download of remote schedule from the banks own FTP server to enable centralised remote management, rapid deployment and commission

Press on text fields to open keyboard

Server URL:
ftp.avmimpact.com/Test

Username:
Paul_Surridge

Password:

Daily Download:
02:00

☒ Enable

☐ Auto Generate

☒ Fixed

Branch ID:

System Config:
Remote Schedule:
File Open.
File Reading...

✓

System Config
Success

➔

Success: System Config loaded.

Updated: Local Schedule.

Updated: Display Types.

Updated: Display Group 1 Name, IP/Hostnames, Locations and Types: Internal

Updated: Display Group 2 Name, IP/Hostnames, Locations and Types: External

Updated: Display Group 3 Name, IP/Hostnames, Locations and Types: [Not In Use]

Updated: Display Group 4 Name, IP/Hostnames, Locations and Types: [Not In Use]

Updated: Display Groups Store Open Offset.

Updated: Display Groups Store Close Offset.

Updated: Display Groups Days Enable.

Total Active Display Groups: 2

Last Attempt: Monday 8th July 2019 14:30

Last Success: Monday 8th July 2019 14:30

Success ✓

Success ✓

⏮ ⏭

Click on status icons for further information

Display Control

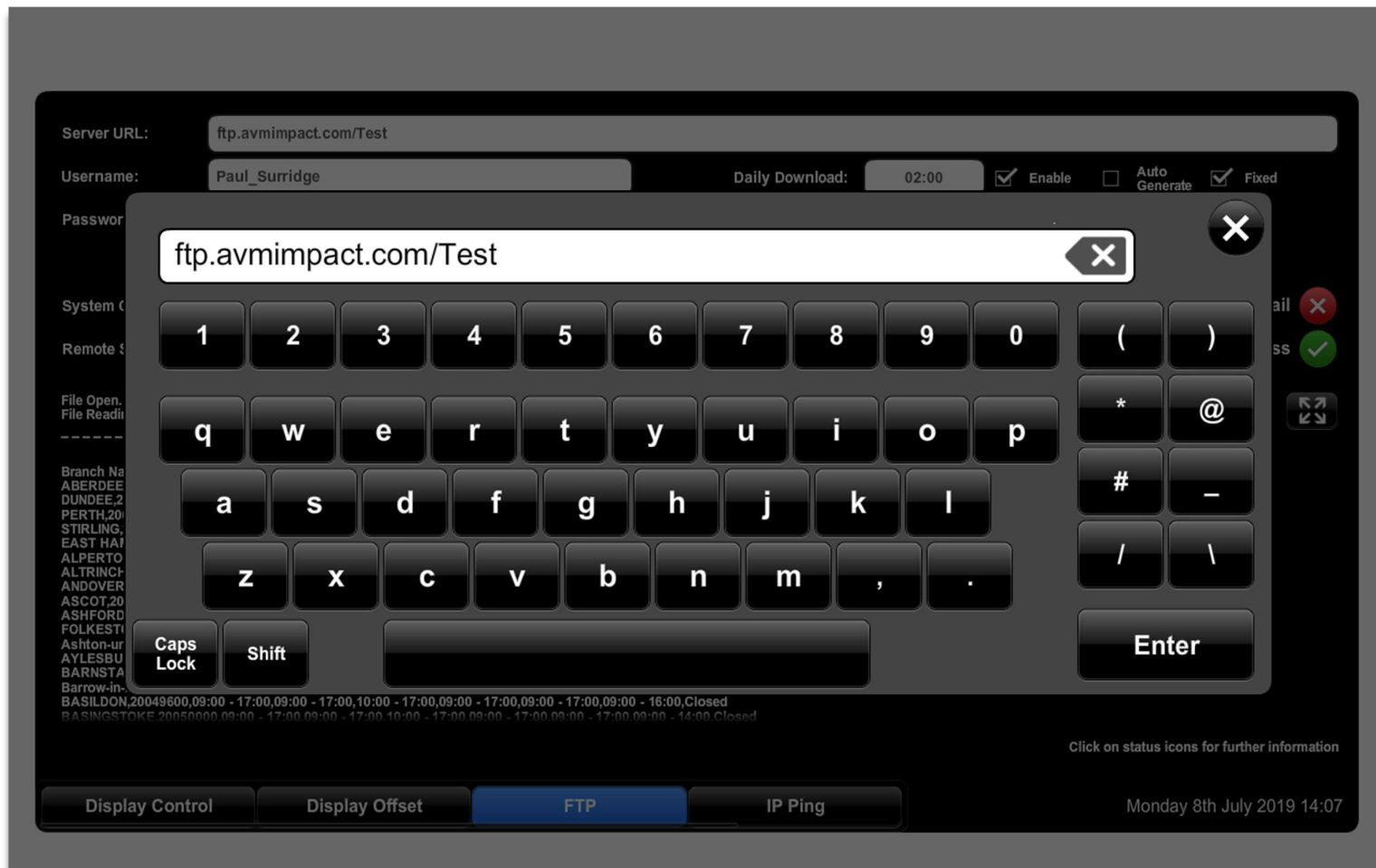
Display Offset

FTP

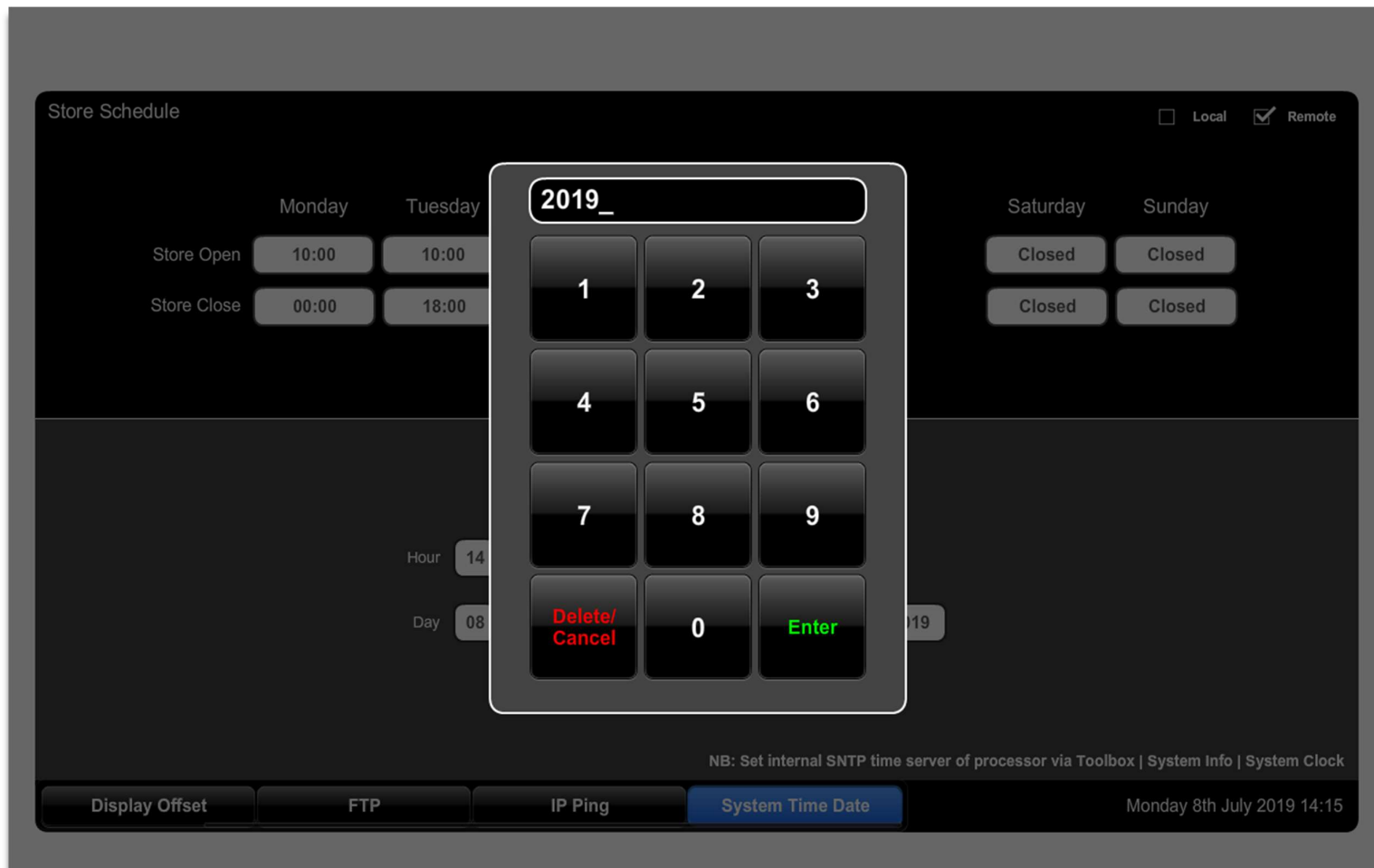
IP Ping

Monday 8th July 2019 15:57

SystemConfig.csv download and install status report



Multipurpose keyboard for entering text into any relevant field



Multipurpose keypad for entering numerical value into any relevant field

Store Schedule

☐ Local ☒ Remote

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Store Open	10:00	10:00	10:15	10:00	10:00	Closed	Closed
Store Close	00:00	18:00	18:00	18:00	18:00	Closed	Closed

IP/Hostname: 192.168.1.104

Ping

Pinging Host 192.168.1.104

*Reply from 192.168.1.104: Echo size=32 time 1ms TTL=128

*Reply from 192.168.1.104: Echo size=32 time 1ms TTL=128

*Reply from 192.168.1.104: Echo size=32 time 1ms TTL=128

*Reply from 192.168.1.104: Echo size=32 time 1ms TTL=128

*

*RMC3>

Display Control

Display Offset

FTP

IP Ping

Monday 8th July 2019 14:11

Diagnosis tool for testing IP connectivity to any LCD or IP device on banks LAN

Store Schedule

☐ Local ☒ Remote

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Store Open	10:00	10:00	10:15	10:00	10:00	Closed	Closed
Store Close	00:00	18:00	18:00	18:00	18:00	Closed	Closed

Hour14Minute13

Day08Month07Year2019

NB: Set internal SNTP time server of processor via Toolbox | System Info | System Clock

Display Offset

FTP

IP Ping

System Time Date

Monday 8th July 2019 14:13

Set internal time date of processor

2. High St Phone Store London (Pilot Only)

Digital Signage - Monitoring and Diagnostics

Store Address:
Store ID:

Name	Location	IP/Hostname	Port	Tx	Rx	Logging	Error	Online
LCD 1	Video Wall	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD 2	Video Wall	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD 3	Video Wall	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD 4	Video Wall	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD 5	Video Wall	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD 6	Video Wall	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD Entrance	Entrance	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD Customer 1	Desk 1	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
LCD Customer 2	Desk 2	System110-VideoWall-London-53572.uk	23			<input type="checkbox"/>		
Encoder 1	Rack	System110-VideoWall-London-53572.uk	5001			<input type="checkbox"/>		
Encoder 2	Rack	System110-VideoWall-London-53572.uk	5001			<input type="checkbox"/>		
Encoder 3	Rack	System110-VideoWall-London-53572.uk	5001			<input type="checkbox"/>		

Press device for Status/Setup

Device Status Device Setup Manual Test - IP Ping Global Settings

Dashboard provides an overview and status of the branches digital signage components on LAN

Footer to browse pages of dashboard

Real time Tx/Rx activity, online/error

The screenshot displays a web application for monitoring LCDs. The main window is titled 'LCD 1 Monitoring and Diagnostics'. It contains several sections:

- Header:** LCD 1 Monitoring and Diagnostics
- Metadata:** Name: LCD 1, Location: Video Wall 1, IP/Hostname: System110-VideoWall-London-53572.uk, Port: 23
- Details:** Make: Samsung, Model: DB65H, Serial Number: FGR65476 - HSJD
- IP Connection:** Status: Connected, Description: -, Error Code: -. Includes a 'Refresh' button.
- Device Error:** Description: LCD Component Fail, Code: 14. Includes 'Reboot' and 'Clear' buttons.
- Log:** Event log will record last x50 Online/Offline/Error events associated with device. Includes 'Clear', 'View', 'On', and 'Off' buttons. A blue arrow points to the 'View' button.
- Manual Control:** Use keyboard to manually send commands to device. Includes an 'Open' button.

On the right side, there is a table with columns 'Error' and 'Online' showing status for multiple devices. At the bottom, there are tabs for 'Device Status', 'Device Setup', 'manual test * if fail', and 'Global Settings'.

Select device to view all associated fields, controls and attributes

Each device has its own log recording the last x50 online/offline/error events

Total: 5

15

Store Address:
Store ID:

Setup
Configure Device Entry

Make: Device Type:

Model:

Serial Number:

Name:

Location:

IP/Hostname: Port:

IP Connection Test

Status: ☐

Description:

Error Code:

Press a field to change

Device Status Device Setup Manual Test - IP Ping Global Settings

Add/remove device, press on field to open keyboard to enter attribute details

Test IP connectivity to device

Store Address:
Store ID:

Global Settings
Device Table Import/Export

Path
//users/DeviceTable.txt

Import **Export**

Poll
Cyclical poll of all devices.

On **Off**

Device Errors
Sequentially clear any error on all devices.

Clear All

Reboot
Sequentially reboot all devices.

Reboot All

Time Date Setup
Set Time and Date of local processor for timestamp used in any device Event Log.

Setup

Press a field to change

Press device for Status/Setup

Device Status **Device Setup** **Manual Test - IP Ping** **Global Settings**

Name	Error	Online
LCD 1		
LCD 2		
LCD 3		
LCD 4		
LCD 5		
LCD 6		
LCD E		
LCD C		
LCD C		
Encod		
Encod		
Encod		

Global setup of parameters and behaviors of the dashboard

Save/load all device definitions for rapid deployment and backup