

---

## Wireframes for ACS Port Forwarding with Track Changes

Version 4.0

*June 28, 2016*

*Prepared by Kristopher Hooper*



Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<input type="text" value="8085"/>	<input type="text" value="8085"/>	<input type="text" value="Both"/> ▾	<input type="text" value="102.235.32.21"/> ▾	✕
<input type="text" value="119"/>	<input type="text" value="119"/>	<input type="text" value="Both"/> ▾	<input type="text" value="102.235.32.22"/> ▾	✕

Add New Rule ▾

### 1. Initial Screen

Typical port forwarding screen showing rules that the are presently set on the device.





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP
<input type="text" value="8085"/>	<input type="text" value="8085"/>	<input type="text" value="Both"/> ▾	<input type="text" value="102.235.32.21"/> ▾ ×
<input type="text" value="119"/>	<input type="text" value="119"/>	<input type="text" value="Both"/> ▾	<input type="text" value="102.235.32.22"/> ▾ ×

Add New Rule ▾

- Both
- TCP
- UDP

### 2. Protocol Selection

The user toggles the Protocol selector for an individual rule.





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<input type="text" value="8085"/>	<input type="text" value="8085"/>	<input type="text" value="Both"/> ▾	<input type="text" value="102.235.32.21"/> ▾	✕
<input type="text" value="119"/>	<input type="text" value="119"/>	<input type="text" value="TCP"/> ▾	<input type="text" value="102.235.32.22"/> ▾	✕

Add New Rule ▾

### 3. Protocol Edit Highlighted

When the user changes the option it is highlighted in yellow.





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>	
119	119	TCP	102.235.32.22	

Add New Rule

#### 4. Deletion of a Rule

If the user clicks the [ x ] related to a rule, the rule is marked for deletion.

It is highlighted in yellow to indicate a change, and values are struck through to indicate that they will be removed from the device upon next sync.





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## 5. Rule Selection Templates Based on Application

If the user clicks the arrow portion of the Add New Rule button, they are presented with options for common port and protocol combinations.

### Port Forwarding

Enable Port Forwarding



#### Rules

Public Port	Private Port	Protocol	Remote IP	
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>	
119	119	TCP	102.235.32.22	

Add New Rule

- World of Warcraft
- Xbox Live
- SSH
- HTTP
- FTP





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## 6. Template-based New Rule Added

The new rule with the templated values appropriate for the application is added to the rule list.

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>	
<input type="text" value="119"/>	<input type="text" value="119"/>	TCP	<input type="text" value="102.235.32.22"/>	
<input type="text" value="22"/>	<input type="text" value="22"/>	TCP	<input type="text"/>	

Add New Rule





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## 7. Remote IP Selection

The Remote IP select is prepopulated with values to help prevent typing errors while entering IP addresses.

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
8085	8085	Both	102.235.32.21	↻
119	119	TCP	102.235.32.22	✕
22	22	TCP		✕

Add New Rule

- Robson  
102.235.32.7
- Barclay  
102.235.32.20
- Gilford  
102.235.32.11
- Pendrell  
102.235.202.4







Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>	
119	119	TCP	102.235.32.22	
22	22	Both	102.235.32.20	

Add New Rule

### 8. Remote IP Selection and Save

The selected Remote IP is added to the rule.

Save is clicked and the change is submitted to the system.





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL AAABBVVV

↔ You are viewing pending changes. Settings which differ from those on the device are highlighted.

Cancel pending changes and edit

## Port Forwarding

Enable Port Forwarding

True

### Rules

Public Port	Private Port	Protocol	Remote IP
8085	8085	Both	102.235.32.21
119	119	TCP	102.235.32.22
22	2200	Both	102.235.32.20

### 9. Pending Change State

The screen is updated to indicate that the changes have been submitted but are not yet on the device.

The differences between what is presently on the device and what is pending are visible in the list of rules.

This allows the administrator (or others) to get an at-a-glance sense of how both the device and system are currently configured.

The user clicks “Cancel pending changes and edit”.





Revert Save



The device change has been cancelled. You can edit and save or revert to current device settings.



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL

AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>	
<input type="text" value="22"/>	<input type="text" value="2200"/>	<input type="text" value="Both"/>	<input type="text" value="102.235.32.20"/>	
<input type="text" value="119"/>	<input type="text" value="119"/>	<input type="text" value="TCP"/>	<input type="text" value="102.235.32.22"/>	

Add New Rule

### 10. Pending Cancelled

Cancelling the pending changes removes the system operation. The changes will no longer be pushed to the device.

The changes that the user was proposing are shown in the even that the user would like to make some edits for resubmission (saving).

These changes are lost if the user navigates from this page, and they page will then reflect devices settings (as they are in sync).





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL

AAABBVVV

● Device synchronization has failed: The public port 119 is not valid.

You may wish to edit and resubmit device changes. Settings which differ from those on the device are highlighted.

Dismiss notice and edit

## 11. Error State

In the error state the proposed changes continue to be highlighted, but will not be (or could not be) synced to the device.

User clicks "Dismiss notice and edit".

## Port Forwarding

Enable Port Forwarding

True

### Rules

Public Port	Private Port	Protocol	Remote IP
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>
22	2200	Both	102.235.32.20
119	119	TCP	102.235.32.22

Hub > Devices > CSR Dashboard > Device Service





Revert Save



The device change has been cancelled. You can edit and save or revert to current device settings.



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL

AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>	
<input type="text" value="22"/>	<input type="text" value="2200"/>	<input type="text" value="Both"/>	<input type="text" value="102.235.32.20"/>	
<input type="text" value="119"/>	<input type="text" value="119"/>	<input type="text" value="TCP"/>	<input type="text" value="102.235.32.22"/>	

### 12. Dismissal of Notice Post-Error

Dismissing the error allows the user to continue with edits.

Changes are lost if the user navigates from this page, and the page will then reflect devices settings (as they are in sync).

Add New Rule





Save



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL

AAABBVVV

**▲ Connection request rejected.** Synchronization will be attempted later.  
You may wish to edit and resubmit device changes. Settings which differ from those on the device are highlighted.

Cancel pending changes and edit

### 13. Connection Warning

Shown if the system is unable to connect with the device.

## Port Forwarding

Enable Port Forwarding True

### Rules

Public Port	Private Port	Protocol	Remote IP
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>
22	2200	Both	102.235.32.20
119	119	TCP	102.235.32.22





Revert Save



The device change has been cancelled. You can edit and save or revert to current device settings.



# HITRON TECHNOLOGIES. INC CGNM-2250-SDL

AAABBVVV

## Port Forwarding

Enable Port Forwarding



### Rules

Public Port	Private Port	Protocol	Remote IP	
<del>8085</del>	<del>8085</del>	<del>Both</del>	<del>102.235.32.21</del>	
<input type="text" value="22"/>	<input type="text" value="2200"/>	<input type="text" value="Both"/>	<input type="text" value="102.235.32.20"/>	
<input type="text" value="119"/>	<input type="text" value="119"/>	<input type="text" value="TCP"/>	<input type="text" value="102.235.32.22"/>	

### 14. Cancelling After Connection Request

Dismissing the connection request notice allows the user to continue with edits.

Changes are lost if the user navigates from this page, and the page will then reflect devices settings (as they are in sync).

Add New Rule

