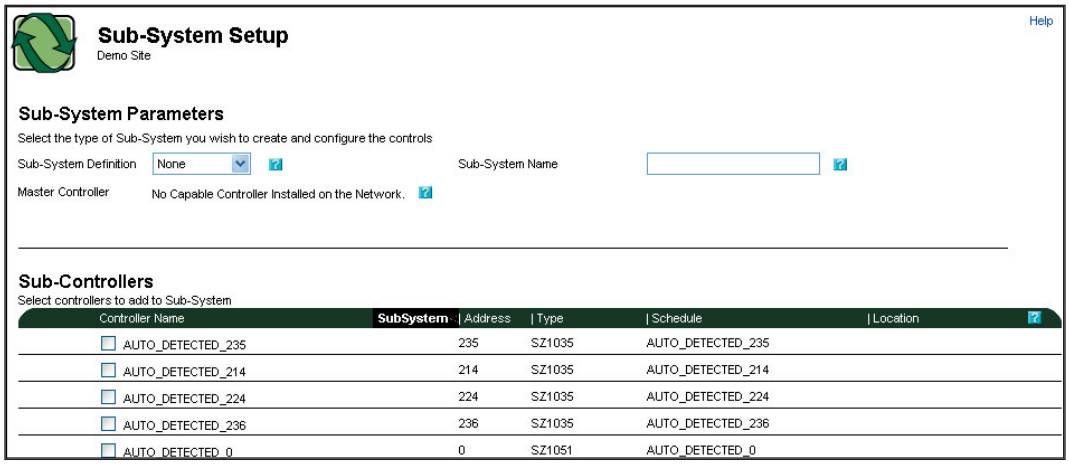
# Loop Sub-System

To setup a Loop Sub-System go to the Main Site page and click the "Add Subsystem" button to get to the Sub-System Setup page.

| *Note:* | QD2040-REG or higher is required to access the Loop Sub-System. |
|---|---|




**Sub-Controllers** - First, scroll down to the bottom of the page to select sub-controllers you wish to include in the Sub-System. Only allowable controllers are selectable in this list.

**Sub-System Definition** - Next Scroll to the top of the page to begin programming the Sub-System. Select the Sub-System type you wish to setup from the drop-down.

**Loop Control** - Ensures that the supply water is provided to any zone on the system as required. For example, if there is an over-ride request from a zone, the Loop Control system will ensure that the water is flowing to meet this request.

**Sub-System Name** - Enter a name that is descriptive of the use and function of this Sub-System.

**Master Controller** - Select the main controller that is providing control for the heating / cooling / pump flow to the loop from the drop-down. Once you have selected a controller, additional controller details and configuration options will appear below.

| | |
|---|---|
| *Note:* | Only controls capable of acting as the Master Controller will be available in the drop-down, including the SZ2161 and SL1001a. If you do not have these controllers installed on the network you will be unable to create a Loop Control Sub-System. |

**Secondary Master Controller** - Select a second master controller. A second master controller may be added to the Sub-System to operate in conjunction with the master controller. Typically this device will handle control capabilities that are not available in the Master Controller.

| | |
|---|---|
| *Note:* | This "Secondary Master Controller" option is only available for the SZ2166. |

**Fallback Flow Switch** - Select the appropriate controller from the drop-down. Once you have selected a controller, additional controller details and configuration options will appear below. The Fallback Flow Switch is a redundant measure for proving flow using a flow switch connected to a DI (digital input) on any other controller within the Sub-System. In the event there is "No Flow", the controller will send a signal to shut down the thermostats on the loop.

| | |
|---|---|
| *Note:* | The Master Controller cannot be selected as the "Fallback Flow Switch". |

| | |
|---|---|
| *Note:* | When using a SL1001a as the Master Controller, you must select a "Fallback Flow Switch" since the SL1001a does not have this function built in. |

**Control Point** - Select the point on the Controller (DI) where the Flow Switch is connected.

**Schedule** - If desired select the schedule you want to utilize for the loop from the drop-down. All of the schedules that have been created in the Scheduling page will be included in the drop-down or select "None" for *Ubiquity*™ to automatically set a schedule based on the latest and earliest points in the schedule, dictated by all the schedules included in the loop.

| | |
|---|---|
| *Note:* | Because each controller only supports two occupancy periods per day, the automatic function only determines the largest interval of unoccupancy and adjusts the schedule accordingly. |

| | |
|---|---|
| *Note:* | The automatic function will also adjust for holiday scheduling. A summary of the schedule will appear below the drop-down. |

**"Refresh Schedule"** - Click the "Refresh Schedule" button to activate the operational schedule of the Loop Sub-System. This function will check all start and stop times of controllers within the Sub-System and operate the system based on the earliest occupied start time and latest occupied stop time.

| *Note:* | You may have multiple loops in a single network of controllers, however you can only use each controller once. If you wish to move a controller to another loop you must unselect it from its current loop first. |
|---|---|

**Submit** - Once you have made all your programming selections for the Sub-System, click the "Submit" button to save the changes to *Ubiquity*™.

- **Delete Subsystem** - If you wish to delete a Sub-System, click the "Delete Subsystem" button at the bottom of the page.

# Generic Sub-System

The Generic Sub-System allows a user to setup a custom control loop based on any single point or combination of points within a single site. The resulting action is open ended as well, and can be performed by a single controller or a combination of controllers within that same site. Users will be able to create multiple Generic Sub-Systems, providing a completely flexible and powerful control solution. An example of a Generic Sub-System would be putting all controllers into occupied mode if an override button-press is detected anywhere within the site (site-wide override).

| *Note:* | The Generic Sub-System is currently in development. When available, it will most likely require a certain model of the QD2040 (-REG, -ADV, -MAX) and corresponding hardware/controls to access this feature. Check the News section for an announcement of when it becomes available, the exact hardware requirements, and links to the updated instructions/user manual. |
|---|---|