

Managing Services

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Service Configuration Overview

Types

The resource system supports 3 general types of services:

Blue services can only be configured/created by a system administrator.

1. **Scheduled** - Services that have a start time and ending time for each use.
 1. **Per Hour** - Services that charge based on the duration of use
 2. **Per Run** - Services that charge the same amount per use regardless of duration
2. **Line Item** - Services that have a quantity and price per unit
 1. **Line Item** - A blank line item form that allows the submitter to specify all aspects of the order (Rates, Quantity, Descriptions). **Note: Line Item services are forced to be "Manager Only" by system convention.**
 2. **Order Form Template** - A pre-filled line item form that allows the submitter to specify just the desired quantities with all other information provided as a fixed submission.
 3. **Genome Processing** - A Sanger Genome Sequencing specialized BBSP variant. (highly customized submission system. Works with an outside processing script to provide quick-turn around file delivery of 96-Well Sanger Robotics results. Generates Line Item orders.
 4. **Black Box Sample Processing (BBSP)** - A generalized sample processing / submission system that includes file storage. Generates Line Item orders.
 5. **Mass Spectrometry Sample Processing (MSSP)** - A Mass Spectrometry specialized BBSP variant that generates line item orders.
 6. **FASTA Sample Processing (FASTA)** - A DNA Sequencing specialized BBSP variant that generates line item orders.
3. **Data Collection/Other** - Services that do not have a price but are instead for collecting data
 1. **Custom** - Links to a custom subsystem or ordering form. (Requires developer involvement)
 2. **Link** - A hyperlink to a fixed or outside page. Primarily used for linking to training or other informational documents
 3. **Data Form Template** - A configurable data collection form. Does not generate an order/charge.
4. **Walkup** - A cousin of the scheduled service, walkup services are services that record usage in real time and create a charge event based on the start and end times.

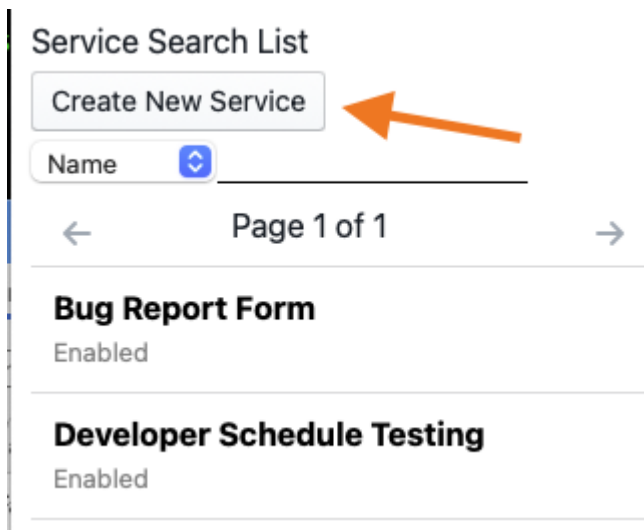
All service types except data collection services will generate an order record with associated events (scheduled) and line items. Services can be configured to automatically exclude created orders from the billing process if the services are provided for free.

Scheduled Service Configuration

Scheduled services for the resource system represent an order for services that are intended to take place on a specific instrument at a given time. Schedules services may be configured to have as many selectable rates as desired. Configuration of a scheduled service is broken down into a number of sections identified below.

Creating a new service

A new service can be created by clicking the "Create New Service" button located above the service list search box



The screenshot shows a web interface titled "Service Search List". At the top, there is a button labeled "Create New Service" which is pointed to by a large orange arrow. Below this button is a search input field with the placeholder text "Name" and a blue dropdown arrow icon. Under the search field, there is a pagination bar showing "Page 1 of 1" with left and right navigation arrows. Below the pagination bar, there are two service entries listed. The first entry is "Bug Report Form" with the status "Enabled". The second entry is "Developer Schedule Testing" with the status "Enabled". Each entry is separated by a horizontal line.

Newly created services will not exist until saved after initial configuration. This means that some functionality that needs an id number such as creating service rates will not be available until the user click the "Save" button to save a newly created service.

Service Detail Editor

Creating New Record

Identifiers
Name

Type

Parent Group

Identifiers

Service Detail Editor

Record ID
57

Identifiers
Name

Type

Parent Group

- **Record ID** - The system ID number identifying the service
- **Name** - The display name of the service in question.
- **Type** - The type of the service. Defaults to "Scheduled"
- **Parent Group** - The group to which this service belongs. Defaults to the currently active group but may be changed to any group that the creating user is listed as a manager for

Visuals

Visuals

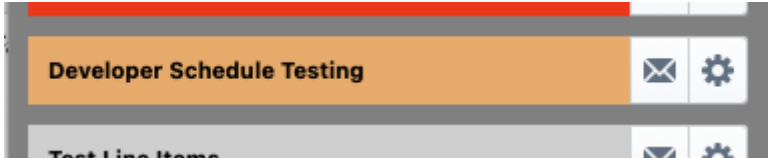
Color

#f2a464

Display Weight (Higher # = Displayed Higher)

0

- **Color** - The color of the button to access the service as it appears in the group services list. This field will accept and valid CSS color in string format. Ex:



- **Display Weight** - How high in the list a service will be displayed. Higher values will display first. Ex: 10 will appear after 50
- **Display Path** - For facilities with large numbers of instruments / services it can be helpful to have some additional level of organization. The display path setting allows managers to organize services into folder style nested groupings. The convention follow standard unix pathing conventions. Ex: "/Microscopes/" will display the given service under an expandable section with all other services that have the same configuration.

Contact Information

Contact Info

Location

Location

Contact Email

All Events



Email

Add Email

- **Location** - The location the service is located at. This field is optional and will display after the service name on the list of services
- **Contact Email** - The list of email addresses that should be send a notification message. The contact email list can be configured to send emails to any number of addresses. Generally this will be the email of the person or persons responsible for managing the instrument. Email contacts can be configured to receive emails on the following events:
 - **All Events** - Send a notification for event creation, deletion, and update actions
 - **Only Create** - Send a notification on event creation
 - **Only Update** - Send a notification on event update
 - **Only Delete** - Send a notification on event deletion

-

Note: The contact email configuration does NOT override the general "Notification Verbosity" setting for the service. If a service is configured to suppress all notification messages then no emails will be sent regardless of the contact email configuration

General Config

General Config

Enabled

Notification Verbosity

Manager Only

Yes

All Actions

No

- **Enabled** - Whether this services is actively in use
 - Yes - Active
 - No - Inactive
 - Archived - Inactive and hidden from search list. (Used for removing services from general use and decluttering un-used service records
- **Notification Verbosity** - When to send notification emails for actions that occur on the service
 - No Messages - No notifications sent
 - On Create - Only send event creation notifications
 - On Delete Only - Only send event deletion notifications
 - On Create/Delete - Only send notification when an event is created or deleted
 - All Messages - Send notification for all event creation, update, and delete actions
- **Manager Only** - Controls if service is visible/available to all users of a facility or just facility managers

Tags

Tags



Tag strings used by the system for categorization and certain actions. No special tags are defined for services at this time.

Scheduler Config

Scheduler Config

Allow After Hours Access Exclude from Billing

No



No



Lead Time (in Days)

1

Allow Scheduling inside Lead

Yes



Maximum Lead Time (in Days)

14

Scheduling Interval

30 Minutes



Interevent Gap Duration (in Minutes)

Interevent Gap Duration (in Minutes)

- **Allow After Hours Access** - Controls if the blocked times are treated as "After Hours" or "Blocked"
 - **No** - Time blocks are not accessible to general users. Administrators and Managers may still schedule in "Blocked" times
 - **Yes** - Allow users with explicitly granted "After Hours" permissions to schedule during off-hours
 - **Yes (All Users)** - Allow any user to schedule time during off-hours
- **Exclude from Billing** - Controls if any orders created on this service are automatically excluded from billing. Useful if a service is provided for free.
- **Reopen Event Details on Create** - Some use cases need immediate access to the newly created event (eg. instrument interlocks). This convenience setting has the system immediately re-open the created event after it's initial creation.
- **Lead Time** - Determines how many days in advance a user must schedule. 0 or empty is no lead time.
- **Allow Scheduling inside Lead** - Controls if a user may create (but not update or delete) an event inside the lead time. Useful for services that can be scheduled quickly (filling a last minute cancellation) but need special attention on cancellation.
- **Maximum Lead Time** - The maximum number of days in advance a service can be scheduled by a user. Useful for preventing users from "camping" time slots for months in advance that they may not use.
- **Scheduling Interval** - The minimum "block" size of a scheduled event. Accepts sizes from 15 minutes to 1 week.
- **Interevent Gap Duration** - The minimum amount of time between service uses. Useful if a service has setup/teardown needs.

Blocked/Off-Hours Times

Blocked/Off-Hours Times

Sunday

Start (HH:mm)

End (HH:mm)

Add

Monday

0:00 - 9:00 ×

17:00 - 24:00 ×

Start (HH:mm)

End (HH:mm)

Add

Tuesday

0:00 - 9:00 ×

17:00 - 24:00 ×

Start (HH:mm)

End (HH:mm)

Add

Wednesday

0:00 - 9:00 ×

17:00 - 24:00 ×

Start (HH:mm)

End (HH:mm)

Add

Thursday

0:00 - 9:00 ×

17:00 - 24:00 ×

Start (HH:mm)

End (HH:mm)

Add

Friday

0:00 - 9:00 ×

17:00 - 24:00 ×

Start (HH:mm)

End (HH:mm)

Add

Saturday

0:00 - 24:00 ×

Start (HH:mm)

End (HH:mm)

Add

This section controls what times during the week are treated as Off or Blocked hours during which altered rates may be applied or access may be blocked entirely. Time formats are in 24 hour formats. Defaults to no limits. Common times are 00:00 - 09:00 and 17:00 - 24:00 to give a 9am to 5pm working day.

Custom Data Config

Custom Data Config

Enable Data 1

Enable Data 2

Enable Data 3

Enable Data 4

Enable Data 5

Yes

No

No

No

No

Data 1 Label

Label

Label

Create Event

Cancel

Some services may require additional information to perform. Up to 5 custom data fields may be enabled for the scheduling user to enter custom information. These custom fields will appear as text input boxes at the bottom of the event details with the provided data label/query.

Custom Data Field Label Config

Custom data fields may also be marked as required and/or displayed as a dropdown selection list using the following configurations in the Data Label field

`<data_label_text>::required::<comma_separated_list_of_options>` - Required Option Dropdown

`<data_label_text>::required` - Required Text Field

`<data_label_text>::<comma_separated_list_of_options>` - Optional Option Dropdown

Example Config

Data 1 Label

Printer Nozzle Size::required::0.4mm,0.6mm,0.2mm

Description/Comments (optional)

Printer Nozzle Size **Required**

-- Select Value --

Create Event Cancel

Service Rate Config

Service Rates

Type / Color / Label	Rates: On / Off / Commerical On / Commercial Off
<div><div><div></div><div></div><div>#808080</div><div></div></div><div>Per Hour</div><div>Standard Rate</div></div>	<div>\$ 20</div> <div>\$ 11</div> <div>\$ 110</div> <div>\$ 105</div> <div>Delete</div>
<div><div><div></div><div></div><div>#808080</div><div></div></div><div>Per Hour</div><div>Item Rate</div></div>	<div>\$ 10</div> <div>\$ 0</div> <div>\$ 15</div> <div>\$ 15</div> <div>Delete</div>
<div>+ Add Rate</div>	

Each service can have as many rates as desired. Users will have the option to select these rates in a dropdown when scheduling. Rates for scheduled events have 7 needed configuration options:

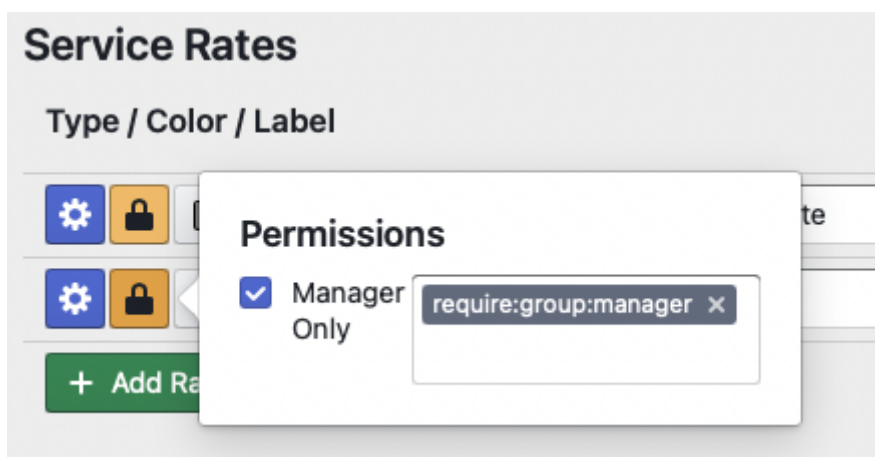
1. **Rate Name** - The name displayed in the rate dropdown.
2. **Type** - The type of the rate charge

- **Per Hour** - Charge based on the length of the event in question split correspondingly over the on and off hours used
 - **Per Run** - Charge a flat fee for the event regardless of duration
3. **On Hours Rate** - The rate to charge at for usage that occurs during On Hours as defined in the "Blocked/Off-Hours" configuration section. This rate should be the "At Cost" internal charge rate.
 4. **Off Hours Rate** - The rate to charge at for usage that occurs during Off Hours as defined in the "Blocked/Off-Hours" configuration section. This rate should be the "At Cost" internal charge rate.
 5. **Commercial On Hours Rate** - The rate to charge at for usage that occurs during On Hours as defined in the "Blocked/Off-Hours" configuration section. This rate can be any rate but should be no less than the internal cost.
 6. **Commercial Off Hours Rate** - The rate to charge at for usage that occurs during Off Hours as defined in the "Blocked/Off-Hours" configuration section. This rate can be any rate but should be no less than the internal cost.
 7. **Display Color** - The color that any event scheduled at this rate should be appear as when viewed on the calendar. Accepts any valid CSS color string. Can be blank.

All config fields MUST be filled out except the display color regardless of whether you expect to be handling commercial orders on the service. Since users are responsible for selecting their own accounts you cannot control which type of account might be selected for charging the order. If you do not have commercial rates for your services using 2x the internal rate is a safe choice. All fields must ALSO be filled out if you are doing "Per Run" rates.

Service Rate Permissions

Service Rates can be restricted to group managers only. Click on the lock icon and check the "Manager Only" box



Rates marked as such will appear to users as disabled.

Process (required)

✓ Standard Rate

Item Rate -- Manager Only --

PO Number (optional)

Service Auto-Charges / Fees Config

Each service can also be configured to automatically attach separate fees for service (apart from the hourly charge) to events created. These charges will be attached at the time that the event is created and can be either Fixed Fees or Duration Linked. In both cases the line item description will be the information provided in the "Fee Description" field.

Event Service Fees

Fee Description	Type	Rate	Rate (Commercial)	Amount/Rate Multiplier	(Unused)
Test Fixed Fee	Fixed Fee	10	20	1	0
Test Duration Fee	Duration Linked	1	2	1	0

Add Preset

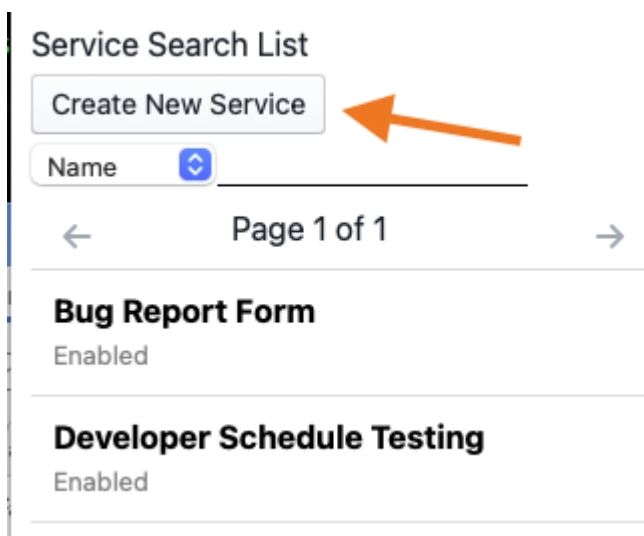
- Fixed Fee** - Fixed Fees are attached to the order as a line item and will remain the same regardless of event duration. This can be used to apply setup fees or other one time charges.
- Duration Linked** - Duration linked fees are applied to events on the basis of their total duration. The charge will be equal to the Rate * Rate Multiplier * Total Event Duration in hours. This can be used to attach charges for consumables usage.

Line Item Service Configuration

Line Item services for the resource system represent an order for services that have an item quantity and price per item. Generally this means that any service that is not a scheduled service is treated as a line item service. Configuration of a line item service is broken down into a number of sections identified below. Line Item services share most of their configuration with scheduled services.

Creating a new service

A new service can be created by clicking the "Create New Service" button located above the service list search box



The screenshot shows a web interface titled "Service Search List". At the top, there is a button labeled "Create New Service" which is highlighted by an orange arrow. Below the button is a search input field with the placeholder text "Name" and a blue dropdown arrow icon. Underneath the search field, there is a pagination bar showing "Page 1 of 1" with left and right navigation arrows. Below the pagination bar, there are two service entries listed: "Bug Report Form" and "Developer Schedule Testing". Each entry has a status indicator "Enabled" below its name.

Newly created services will not exist until saved after initial configuration. This means that some functionality that needs an id number such as creating service rates will not be available until the user click the "Save" button to save a newly created service.

Service Detail Editor

Creating New Record

Identifiers
Name

Type

Parent Group

Identifiers

Service Detail Editor

Record ID
57

Identifiers
Name

Type

Parent Group

- **Record ID** - The system ID number identifying the service
- **Name** - The display name of the service in question.
- **Type** - The type of the service. Defaults to "Scheduled"
- **Parent Group** - The group to which this service belongs. Defaults to the currently active group but may be changed to any group that the creating user is listed as a manager for

Visuals

Visuals

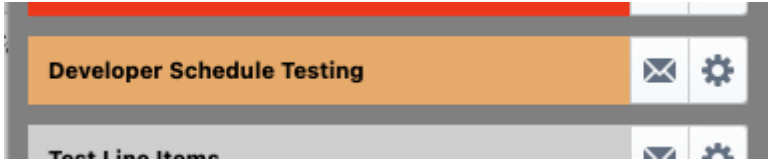
Color

#f2a464

Display Weight (Higher # = Displayed Higher)

0

- **Color** - The color of the button to access the service as it appears in the group services list. This field will accept and valid CSS color in string format. Ex:



- **Display Weight** - How high in the list a service will be displayed. Higher values will display first. Ex: 10 will appear after 50
- **Display Path** - For facilities with large numbers of instruments / services it can be helpful to have some additional level of organization. The display path setting allows managers to organize services into folder style nested groupings. The convention follow standard unix pathing conventions. Ex: "/Microscopes/" will display the given service under an expandable section with all other services that have the same configuration.

Contact Information

Contact Info

Location

Location

Contact Email

All Events



Email

Add Email

- **Location** - The location the service is located at. This field is optional and will display after the service name on the list of services
- **Contact Email** - The list of email addresses that should be send a notification message. The contact email list can be configured to send emails to any number of addresses. Generally this will be the email of the person or persons responsible for managing the instrument. Email contacts can be configured to receive emails on the following events:
 - **All Events** - Send a notification for order creation, deletion, and update actions
 - **Only Create** - Send a notification on order creation
 - **Only Update** - Send a notification on order update
 - **Only Delete** - Send a notification on order deletion
- **Note:** The contact email configuration does NOT override the general "Notification Verbosity" setting for the service. If a service is configured to suppress all notification messages then no emails will be sent regardless of the contact email configuration. Also

note that Line Item orders only generate "Create" notifications.

General Config

General Config

Enabled

Notification Verbosity

Manager Only

Yes

All Actions

No

- **Enabled** - Whether this services is actively in use
 - Yes - Active
 - No - Inactive
 - Archived - Inactive and hidden from search list. (Used for removing services from general use and decluttering un-used service records)
- **Notification Verbosity** - When to send notification emails for actions that occur on the service
 - No Messages - No notifications sent
 - On Create - Only send order creation notifications
 - On Delete Only - Only send event deletion notifications (Delete not applicable for Line Item Orders)
 - On Create/Delete - Only order notification when an event is created or deleted (Delete not applicable for Line Item Orders)
 - All Messages - Send notification for all event creation, update, and delete actions (Delete and Update not applicable for Line Item Orders)
- **Manager Only** - Controls if service is visible/available to all users of a facility or just facility managers

Tags

Tags



Tag strings used by the system for categorization and certain actions. No special tags are defined for services at this time.

Custom Data Config

Custom Data Config

Enable Data 1 Enable Data 2 Enable Data 3 Enable Data 4 Enable Data 5

Yes

No

No

No

No

Data 1 Label

Label

Description

Test Item

Amount

0

Rate

\$10.00

Line Total

\$0.00

Vendor Price

(Optional)

Some services may require additional information to perform. Up to 5 custom data fields may be enabled for the ording user to enter custom information. These custom fields will appear as text input boxes at the bottom of the line details with the provided data label/query.

Service Presets

Service Presets

Label	Type	Per Item Rate	Commercial Rate	Minimum Quantity	Maximum Quantity	Conditional Fee	Delete
Test Item	Per Item (Required - Editable)	10	100	0	10	0	
Add Preset							

Line item services have presets instead of rates. These presets serve a variety of purposes depending on the the type of service. For "Line Item" and "Order Form" type services the line presets serve as pre-filled lines. The only difference between a "Line Item" and "Order Form" service is that "Line Item" services allow ordering users to add manual lines to the order. Line item services can have zero or more presets. Generally "Line Item" type services will have no presets and serve as a manager only order form. Service presets have 7 configuration fields of which the first 4 are required:

1. **Label** - The Description to be attached to this line item
2. **Type** - The line preset type
 - Per Item - A fully configurable/removable line item

Order Lines

Description	Amount	Rate	Commercial Rate	Line Total	
Test Item	0	10	100	\$0.00	Re
Vendor Price					
(Optional)					

- Per Item (Required - Editable) - A order form line item with a alterable quantity

Description		
Optional Item		
Amount	Rate	Line Total
<input type="text" value="0"/>	\$10.00	\$0.00
Vendor Price		
<input type="text" value="(Optional)"/>		

- Per Item (Required - Fixed) - An uneditable "fee" style line item

		Vendor Price	
Description	Amount	Rate	<input type="text" value="(Optional)"/>
Fee Item	0	\$10.00	Line Total \$0.00

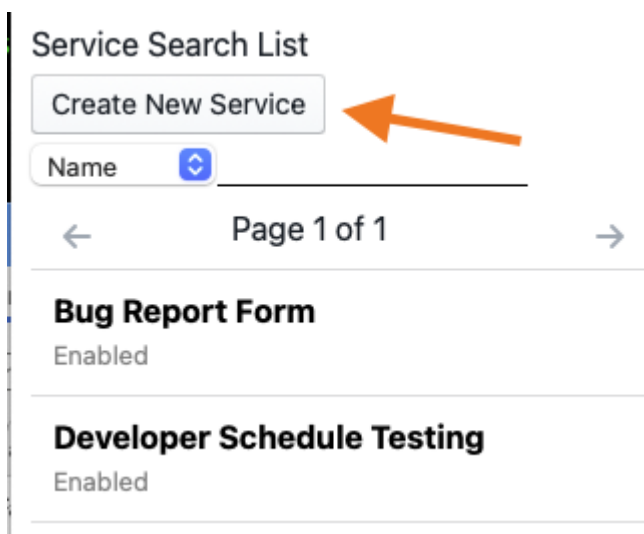
3. **Per Item Rate** - The cost per item to default to or enforce
4. **Commercial Rate** - The cost per item to default to or enforce for commercial accounts
5. **Minimum Quantity** - The smallest number of this item the user can select. (Serves as the default field value, only enforced on (Required) preset types)
6. **Maximum Quantity** - The largest number of this item the user can order. Defaults to 0 where 0 allows unlimited quantities. (Only enforced on (Required) preset types for values above 0)
7. **Conditional Fee** - Used by the BBSP and other Sample Processing service types. No effect for general line item services.

Order Form Service Configuration

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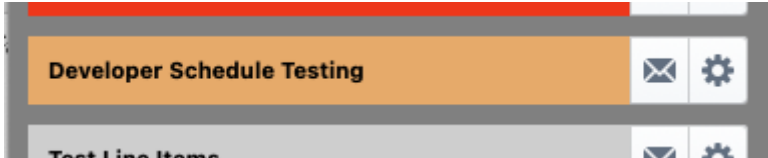
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Enable Data 1 Enable Data 2 Enable Data 3 Enable Data 4 Enable Data 5

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Data 1 Label

Label

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Test Item

Amount

0

Rate

\$10.00

Line Total

\$0.00

Vendor Price

(Optional)

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Order Lines

Description	Amount	Rate	Commercial Rate	Line Total	
Test Item	0	10	100	\$0.00	Re
Vendor Price					
(Optional)					

- Per Item (Required - Editable) - A order form line item with a alterable quantity

Description		
Optional Item		
Amount	Rate	Line Total
<input type="text" value="0"/>	\$10.00	\$0.00
Vendor Price		
<input type="text" value="(Optional)"/>		

- Per Item (Required - Fixed) - An uneditable "fee" style line item

		Vendor Price	
Description	Amount	Rate	Line T
Fee Item	0	\$10.00	\$0.00
		<input type="text" value="(Optional)"/>	

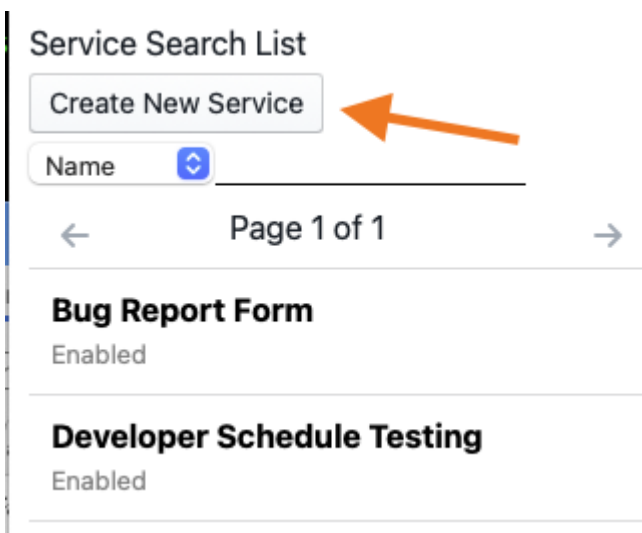
3. **Per Item Rate** - The cost per item to default to or enforce
4. **Commercial Rate** - The cost per item to default to or enforce for commercial accounts
5. **Minimum Quantity** - The smallest number of this item the user can select. (Serves as the default field value, only enforced on (Required) preset types)
6. **Maximum Quantity** - The largest number of this item the user can order. Defaults to 0 where 0 allows unlimited quantities. (Only enforced on (Required) preset types for values above 0)
7. **Conditional Fee** - Used by the BBSP and other Sample Processing service types. No effect for general line item services.

Black Box Sample Processing Service Config

Black Box Sample Processing (BBSP) services for the resource system represent an order for services that have an item quantity and price per item. BBSP Services also include limited sample configuration and data storage ability.

Creating a new service

A new service can be created by clicking the "Create New Service" button located above the service list search box



The screenshot shows a web interface titled "Service Search List". At the top left, there is a button labeled "Create New Service" with an orange arrow pointing to it. Below this button is a search input field with the placeholder text "Name" and a blue dropdown arrow icon. Below the search field, there is a pagination bar showing "Page 1 of 1" with left and right navigation arrows. Below the pagination bar, there is a list of services. The first service is "Bug Report Form" with the status "Enabled". The second service is "Developer Schedule Testing" with the status "Enabled".

Newly created services will not exist until saved after initial configuration. This means that some functionality that needs an id number such as creating service rates will not be available until the user click the "Save" button to save a newly created service.

Service Detail Editor

Creating New Record

Identifiers
Name

Type

Parent Group

Identifiers

Service Detail Editor

Record ID
57

Identifiers
Name

Type

Parent Group

- **Record ID** - The system ID number identifying the service
- **Name** - The display name of the service in question.
- **Type** - The type of the service. Defaults to "Scheduled"
- **Parent Group** - The group to which this service belongs. Defaults to the currently active group but may be changed to any group that the creating user is listed as a manager for

Visuals

Visuals

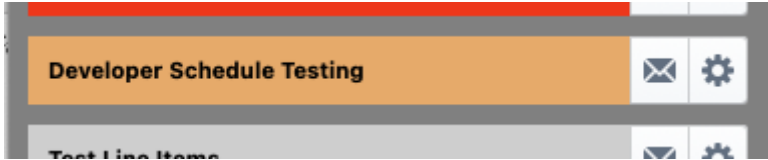
Color

#f2a464

Display Weight (Higher # = Displayed Higher)

0

- **Color** - The color of the button to access the service as it appears in the group services list. This field will accept and valid CSS color in string format. Ex:



- **Display Weight** - How high in the list a service will be displayed. Higher values will display first. Ex: 10 will appear after 50
- **Display Path** - For facilities with large numbers of instruments / services it can be helpful to have some additional level of organization. The display path setting allows managers to organize services into folder style nested groupings. The convention follow standard unix pathing conventions. Ex: "/Microscopes/" will display the given service under an expandable section with all other services that have the same configuration.

Contact Information

Contact Info

Location

Location

Contact Email

All Events



Email

Add Email

- **Location** - The location the service is located at. This field is optional and will display after the service name on the list of services
- **Contact Email** - The list of email addresses that should be send a notification message. The contact email list can be configured to send emails to any number of addresses. Generally this will be the email of the person or persons responsible for managing the instrument. Email contacts can be configured to receive emails on the following events:
 - **All Events** - Send a notification for order creation, deletion, and update actions
 - **Only Create** - Send a notification on order creation
 - **Only Update** - Send a notification on order update
 - **Only Delete** - Send a notification on order deletion
- **Note:** The contact email configuration does NOT override the general "Notification Verbosity" setting for the service. If a service is configured to suppress all notification messages then no emails will be sent regardless of the contact email configuration. Also

note that Line Item orders only generate "Create" notifications.

General Config

General Config

Enabled

Notification Verbosity

Manager Only

Yes

All Actions

No

- **Enabled** - Whether this services is actively in use
 - Yes - Active
 - No - Inactive
 - Archived - Inactive and hidden from search list. (Used for removing services from general use and decluttering un-used service records)
- **Notification Verbosity** - When to send notification emails for actions that occur on the service
 - No Messages - No notifications sent
 - On Create - Only send order creation notifications
 - On Delete Only - Only send event deletion notifications (Delete not applicable for Line Item Orders)
 - On Create/Delete - Only order notification when an event is created or deleted (Delete not applicable for Line Item Orders)
 - All Messages - Send notification for all event creation, update, and delete actions (Delete and Update not applicable for Line Item Orders)
- **Manager Only** - Controls if service is visible/available to all users of a facility or just facility managers

Tags

Tags



Tag strings used by the system for categorization and certain actions. No special tags are defined for services at this time.

Custom Data Config

Custom Data Config

Enable Data 1 Enable Data 2 Enable Data 3 Enable Data 4 Enable Data 5

Yes

No

No

No

No

Data 1 Label

Label

Description

Test Item

Amount

0

Rate

\$10.00

Line Total

\$0.00

Vendor Price

(Optional)

Some services may require additional information to perform. Up to 5 custom data fields may be enabled for the ordering user to enter custom information. These custom fields will appear as text input boxes at the bottom of the line details with the provided data label/query.

Service Presets

Service presets for the BBSP system function as

Service Presets						
Process Type	Type	\$/Sample	\$/Sample (Commercial)	Min Sample #	Maximum Quantity	Delete
Tubes	Process	1	2	1	0	Delete
Process Type	Type	\$/Sample	\$/Sample (Commercial)	Min Sample #	Maximum Quantity	Delete
Plate	Fee	3	5	95	0	Delete
Process Type	Type	\$/Sample	\$/Sample (Commercial)	Min Sample #	Maximum Quantity	Delete
4 Plate	Process	5	9	380	0	Delete
Add Preset						

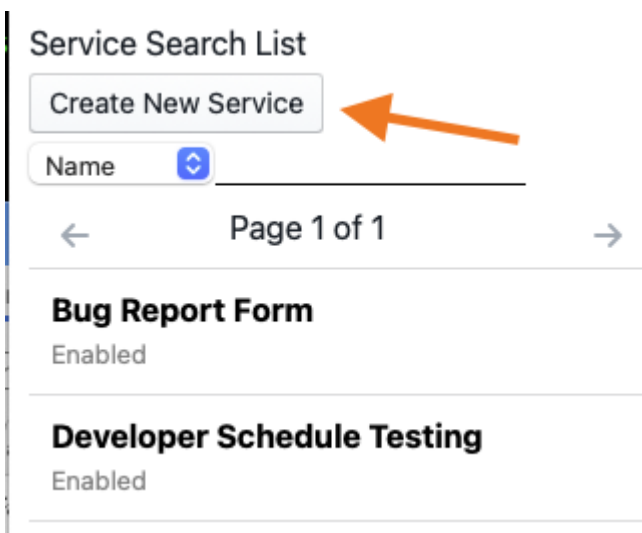
1. **Process Type** - The name of the process to be selected. Users will be able to select among the provided presets.
2. **Type** - Whether the preset should be treated as a required fee or as a process to be performed on samples
 - **Process** - Charge Per Sample
 - Unused (1) - Can be selected if service is converted from another service type
 - Unused (2) - Can be selected if service is converted from another service type
3. **\$/Sample** - The rate to charge per sample
4. **\$/Sample (Commercial)** - The rate to charge per sample
5. **Min Sample #** - The minimum number of samples a user needs to submit to be able to select this process
6. **Maximum Quantity** - The maximum number of samples a user can to submit to be able to select this process

Data Collection Form Config

Black Box Sample Processing (BBSP) services for the resource system represent an order for services that have an item quantity and price per item. BBSP Services also include limited sample configuration and data storage ability.

Creating a new service

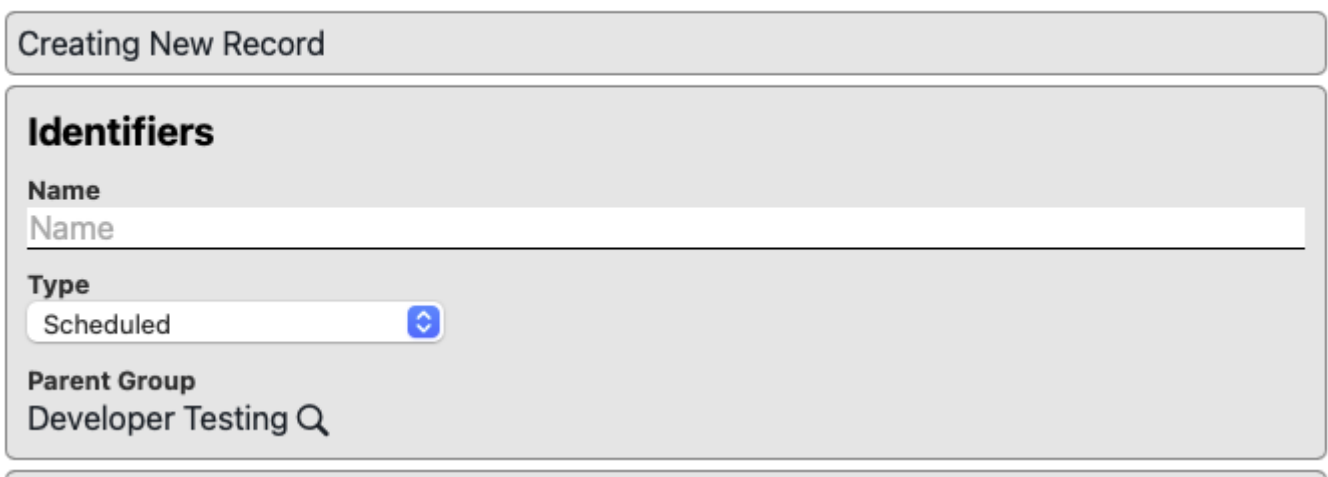
A new service can be created by clicking the "Create New Service" button located above the service list search box



The screenshot shows a web interface titled "Service Search List". At the top left, there is a button labeled "Create New Service" with an orange arrow pointing to it. Below this button is a search bar with the placeholder text "Name" and a blue dropdown arrow. In the center, there is a pagination indicator "Page 1 of 1" with left and right arrow buttons. Below the search bar, there are two service entries: "Bug Report Form" and "Developer Schedule Testing", both marked as "Enabled".

Newly created services will not exist until saved after initial configuration. This means that some functionality that needs an id number such as creating service rates will not be available until the user click the "Save" button to save a newly created service.

Service Detail Editor



The screenshot shows the "Service Detail Editor" interface. At the top, there is a header "Creating New Record". Below this, there is a section titled "Identifiers". Inside this section, there are three fields: "Name" with a text input field, "Type" with a dropdown menu showing "Scheduled", and "Parent Group" with a text input field containing "Developer Testing" and a magnifying glass icon.

Identifiers

Service Detail Editor

Record ID
57

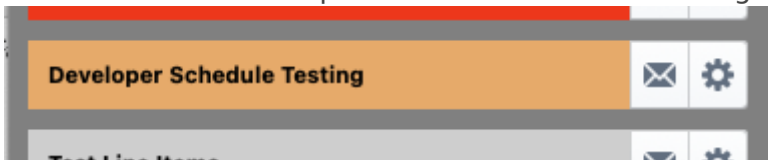
Identifiers
Name
Developer Schedule Testing
Type
Scheduled
Parent Group
Developer Testing

- **Record ID** - The system ID number identifying the service
- **Name** - The display name of the service in question.
- **Type** - The type of the service. Defaults to "Scheduled"
- **Parent Group** - The group to which this service belongs. Defaults to the currently active group but may be changed to any group that the creating user is listed as a manager for

Visuals

Visuals
Color
#f2a464
Display Weight (Higher # = Displayed Higher)
0

- **Color** - The color of the button to access the service as it appears in the group services list. This field will accept and valid CSS color in string format. Ex:



- **Display Weight** - How high in the list a service will be displayed. Higher values will display first. Ex: 10 will appear after 50
- **Display Path** - For facilities with large numbers of instruments / services it can be helpful to have some additional level of organization. The display path setting allows managers to organize services into folder style nested groupings. The convention follow standard unix pathing conventions. Ex: "/Microscopes/" will display the given service under an

expandable section with all other services that have the same configuration.

Contact Information

Contact Info
Location

Contact Email

All Events

Add Email

- **Location** - The location the service is located at. This field is optional and will display after the service name on the list of services
- **Contact Email** - The list of email addresses that should be send a notification message. The contact email list can be configured to send emails to any number of addresses. Generally this will be the email of the person or persons responsible for managing the instrument. Email contacts can be configured to receive emails on the following events:
 - **All Events** - Send a notification for form creation, deletion, and update actions
 - **Only Create** - Send a notification on form creation
 - **Only Update** - Send a notification on form update
 - **Only Delete** - Send a notification on form deletion
- **Note:** The contact email configuration does NOT override the general "Notification Verbosity" setting for the service. If a service is configured to suppress all notification messages then no emails will be sent regardless of the contact email configuration. Also note that Line Item orders only generate "Create" notifications.

General Config

General Config

Enabled

Notification Verbosity

Manager Only

Yes

All Actions

No

- **Enabled** - Whether this services is actively in use
 - Yes - Active
 - No - Inactive
 - Archived - Inactive and hidden from search list. (Used for removing services from general use and decluttering un-used service records)
- **Notification Verbosity** - When to send notification emails for actions that occur on the service
 - No Messages - No notifications sent

- On Create - Only send order creation notifications
- On Delete Only - Only send event deletion notifications (Delete not applicable for Line Item Orders)
- On Create/Delete - Only order notification when an event is created or deleted (Delete not applicable for Line Item Orders)
- All Messages - Send notification for all event creation, update, and delete actions (Delete and Update not applicable for Line Item Orders)
- **Manager Only** - Controls if service is visible/available to all users of a facility or just facility managers

Tags

Tags

Tag strings used by the system for categorization and certain actions. No special tags are defined for services at this time.

Form Configuration Manager

Custom data collection forms can be configured to collect any desired data including digital signatures from submitters.

Custom Form Configuration Manager

General

Title (required)

Allow Editing (required)

☐ Yes (all)
 ☐ Yes (Received Only)
 ☒ No

Current Fields

Type	bug_type	Multi-Select	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Copy"/> <input type="button" value="Remove Field"/>
Issue Description	issue_description	Text Area	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Copy"/> <input type="button" value="Remove Field"/>
Steps to Reproduce	steps_to_reproduce	Text Area	<input type="button" value="Up"/> <input type="button" value="Down"/> <input type="button" value="Copy"/> <input type="button" value="Remove Field"/>

Add New Field

Field Label...	Data Key...	Text Field	<input type="button" value="+ Add Field"/>
----------------	-------------	------------	--

1. **Title** - The title of the form

2. Allow Editing

1. **Yes (all)** - Allow users to edit form submissions after submission
 2. **Yes (Recieved Only)** - Allow users to edit form submission as long as they are in the "Received" state
 3. **No** - Disallow form editing after submission
3. **Current Fields** - Control and edit the forms for this data collection form

Type bug_type Select Remove Field

1. **Label Field** - Used to set the name of the field
2. **Data Key Field** - Defines the name of the storage variable. Should be unique across all fields
3. **Field Type Selector**
 - **Markdown Block** - Display a markdown formatted section of text
 - **Text Field** - Single Line Text Field
 - **Text Area** - Multi-line text field
 - **Number** - Floating point number field
 - **Select** - Single Item select
 - **Multi-Select** - multiple item select
 - **Section Divider** - Section Divider with or without title
 - **Signature Block** - Email target for signature request
4. **Field Details/Config Button** - Displays field type configurations
 - **Markdown Block**

A screenshot of a 'Block Content' dialog box. The title bar at the top says 'Block Content'. Below the title bar, there's a section labeled 'Markdown Formatted Text'. Inside this section, there's a large text area containing the text 'Static Markdown Formatted Content'. At the bottom left of the dialog, there is a blue button labeled 'Close'.

- **Text Field** - Single Line Text Field

- **Text Area** - Multi-line text field
- **Number** - Floating point number field

Field Settings

Helper Text

What part of the system did the bug occur in?

Required?

☐ No ☐ Yes

Minimum Value (Number Fields Only)

Clear ^ v

Maximum Value (Number Fields Only)

Clear ^ v

Close

- **Select** - Single Item select

- **Multi-Select** - multiple item select

Field Settings

Helper Text

What part of the system did the bug occur in?

Required?

☐ No ☐ Yes

Editing Options for Type (bug_type)

Event/Scheduler	scheduler	^	v	— Remove Option
Line Item	line_item	^	v	— Remove Option
Charge Account	account	^	v	— Remove Option

Add New Option

Option Label...	Option Value...	+ Add Option
-----------------	-----------------	--------------

Close

- **Section Divider** - Section Divider with or without title
- **Signature Block** - Email target for signature request

5. **Move Field Up** - Alters display position of field
6. **Move Field Down** - Alters display position of field
7. **Copy Field Button**
8. **Remove Field Button**

Webhook / Interlock Configuration

Overview

Occasionally it can be desirable to trigger remote actions in response to actions that occur in the resource system. Use cases include remote logging or instrument interlock control. To support these remote actions the resource system provides HTTP webhooks for the following actions:

- Order Creation
- Order Updates
- Order Deletion
- Event Creation
- Event Updates
- Event Deletion
- Interlock Unlock Request
- Interlock Status Request
- Interlock Lock Request

Using the Service Webhook Manager facility staff can configure single or multiple webhooks to be triggered when any of the above events occur.

Service Webhook Manager

Trigger	HTTP Verb	Target URL	Auth	Headers	Data
<div>On</div> <div>Order</div> <div>Create</div>	GET	http://localhost:4010/notify	Edit Auth	Headers	Data
Create New Webhook					
<div>On</div> <div>Order</div> <div>Create</div>	GET	http://localhost:4010/notify	Add Auth	Headers	Data

Configurations can be specified for HTTP Headers, HTTP Auth, request HTTP Verb/Type and request body data.

Note: all request bodies will be encoded as "application/json"

HTTP Verb/Type settings can be set to standard or "insecure". Insecure requests will ignore all TLS certificate errors and are not recommended.

Payload

By default the payload for requests will include the following in the request body:

- Order ID (order_id)
- Line Item or Event ID (line_id / event_id)

Any additional data elements as configured by the webhook settings will be attached to the data object.

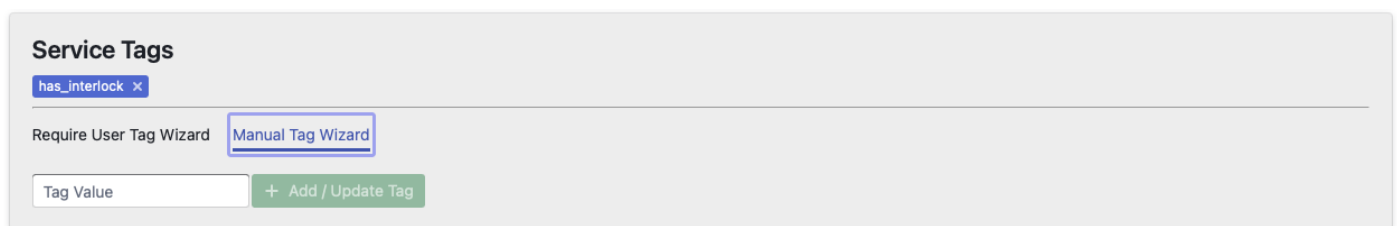
Data keyed with the same key as any of the above will be **OVERWRITTEN** by the system provided value

Multiple Webhooks

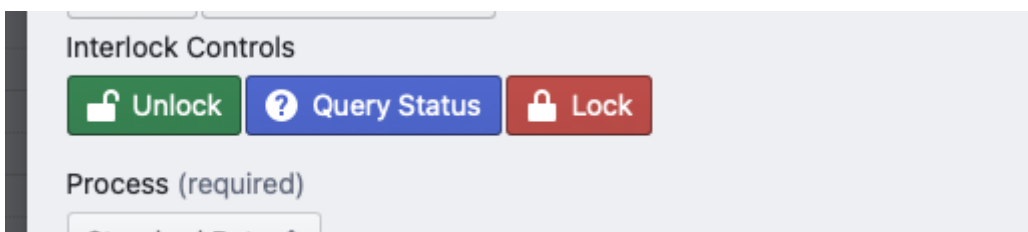
Multiple webhooks on the same event can be configured. Order of execution is NOT guaranteed.

Interlock Configuration

Interlocks are a special use case for webhooks. Scheduled instruments/services can be configured to display an interlock control UI element by attaching the `has_interlock` tag to the service in question under the "Service Tags" configuration using the "Manual Tag Wizard"



After event creation / during event viewing services with this tag will display a set of interlock controls



Facility Staff and System Administrators will see interlock controls at all times and on all events. Instrument Users will only see the interlock controls between 5 minutes before the scheduled start of the event and 30 minutes after the scheduled end of the event.

The 3 actions correspond to the "interlock" action type and subtype.

The screenshot shows the 'Service Webhook Manager' interface. On the left, there is a 'Trigger' section with a 'Create New Webhook' button. A dropdown menu is open, showing options: 'Create', 'Update', 'Delete', 'Unlock' (which is selected with a checkmark), 'Lock', and 'Query Lock Status'. To the right of the dropdown, there are input fields for 'HTTP Verb' (set to 'GET'), 'Target URL' (with a red border and a globe icon), 'Auth' (with an 'Add Auth' button), 'Headers' (with a 'Headers' button), and 'Data' (with a 'Data' button). A green 'Create' button is at the bottom right.

The lock and unlock actions are "push-only" webhooks. Any response traffic to these calls is discarded. Valid HTTP Error codes will generate an error message with the reason for the error displayed.

The "Query Lock Status" action will parse the response from the target and expects an "application/json" body with a "status" key containing either a "locked" or "unlocked" value.

Walkup Service Configuration

For services that are publicly accessible and do not need to be scheduled in advance the resource system supports "Walkup" events. Rather than creating a reservation event these services create a timed record of use. The system creates a "pending" walkup event at the time that use is started and closes out the the event when use is completed by creating an event and order based on the walkup event duration. It is important to note that walkup events do NOT check for collisions when they are created and so overlapping usages can occur.

Unlike scheduled services, Walkup service events cannot be edited after creation. While there is a calendar view for the events this is primarily for user convenience and events cannot be altered from the calendar.

Creating a new service

A new walkup service can be created by clicking the "Create New Service" button located above the service list search box. Walkup services are functionally identical to a scheduled service from a configuration standpoint.

Identifiers

Name

Type

Walkup

Parent Group

Developer Testing

Newly created services will not exist until saved after initial configuration. This means that some functionality that needs an id number such as creating service rates will not be available until the user click the "Save" button to save a newly created service.

Service Detail Editor

Creating New Record

Identifiers

Name

Name

Type

Scheduled



Parent Group

Developer Testing Q

Identifiers

Service Detail Editor

Record ID

57

Identifiers

Name

Developer Schedule Testing

Type

Scheduled



Parent Group

Developer Testing Q

- **Record ID** - The system ID number identifying the service
- **Name** - The display name of the service in question.
- **Type** - The type of the service. Defaults to "Scheduled"
- **Parent Group** - The group to which this service belongs. Defaults to the currently active group but may be changed to any group that the creating user is listed as a manager for

Visuals

Visuals

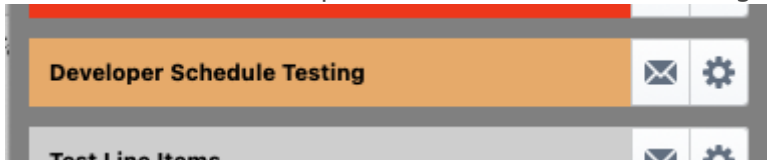
Color

#f2a464

Display Weight (Higher # = Displayed Higher)

0

- **Color** - The color of the button to access the service as it appears in the group services list. This field will accept and valid CSS color in string format. Ex:



- **Display Weight** - How high in the list a service will be displayed. Higher values will display first. Ex: 10 will appear after 50
- **Display Path** - For facilities with large numbers of instruments / services it can be helpful to have some additional level of organization. The display path setting allows managers to organize services into folder style nested groupings. The convention follow standard unix pathing conventions. Ex: "/Microscopes/" will display the given service under an expandable section with all other services that have the same configuration.

Contact Information

Contact Info

Location

Location

Contact Email

All Events



Email

Add Email

- **Location** - The location the service is located at. This field is optional and will display after the service name on the list of services
- **Contact Email** - The list of email addresses that should be send a notification message. The contact email list can be configured to send emails to any number of addresses. Generally this will be the email of the person or persons responsible for managing the instrument. Email contacts can be configured to receive emails on the following events:
 - **All Events** - Send a notification for event creation, deletion, and update actions
 - **Only Create** - Send a notification on event creation
 - **Only Update** - Send a notification on event update
 - **Only Delete** - Send a notification on event deletion

The contact email configuration does NOT override the general "Notification Verbosity" setting for the service. If a service is configured to suppress all notification messages then no emails will be sent regardless of the contact email configuration

General Config

General Config

Enabled

Notification Verbosity

Manager Only

Yes

All Actions

No

- **Enabled** - Whether this services is actively in use
 - Yes - Active
 - No - Inactive
 - Archived - Inactive and hidden from search list. (Used for removing services from general use and declutting un-used service records)
- **Notification Verbosity** - When to send notification emails for actions that occur on the service
 - No Messages - No notifications sent
 - On Create - Only send event creation notifications
 - On Delete Only - Only send event deletion notifications
 - On Create/Delete - Only send notification when an event is created or deleted
 - All Messages - Send notification for all event creation, update, and delete actions
- **Manager Only** - Controls if service is visible/available to all users of a facility or just facility managers

Tags

Tags



Tag strings used by the system for categorization and certain actions. No special tags are defined for services at this time.

Scheduler Config

Scheduler Config

Allow After Hours Access Exclude from Billing

No



No



Lead Time (in Days)

1

Allow Scheduling inside Lead

Yes



Maximum Lead Time (in Days)

14

Scheduling Interval

30 Minutes



Interevent Gap Duration (in Minutes)

Interevent Gap Duration (in Minutes)

- **Allow After Hours Access** - Controls if the blocked times are treated as "After Hours" or "Blocked"
 - **No** - Time blocks are not accessible to general users. Administrators and Managers may still schedule in "Blocked" times
 - **Yes** - Allow users with explicitly granted "After Hours" permissions to schedule during off-hours
 - **Yes (All Users)** - Allow any user to schedule time during off-hours
 - The recommended setting for after hours access is Yes (All Users) for walkup services.
- **Exclude from Billing** - Controls if any orders created on this service are automatically excluded from billing. Useful if a service is provided for free.
- **Lead Time** - Determines how many days in advance a user must schedule. 0 or empty is no lead time.
- The lead time for walkup services is always ignored
- **Allow Scheduling inside Lead** - Controls if a user may create (but not update or delete) an event inside the lead time. Useful for services that can be scheduled quickly (filling a last minute cancellation) but need special attention on cancellation.
- **Maximum Lead Time** - The maximum number of days in advance a service can be scheduled by a user. Useful for preventing users from "camping" time slots for months in advance that they may not use.
- This setting has no effect for walkup instrumentation since all walkup events are inside the max lead time.
- **Scheduling Interval** - The minimum "block" size of a scheduled event. Accepts sizes from 1 minute to 1 week.

The recommended interval for walkup services is 1 minute

- **Interevent Gap Duration** - The minimum amount of time between service uses. Useful if a service has setup/teardown needs.

Blocked/Off-Hours Times

Blocked/Off-Hours Times

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday



Saturday

This section controls what times during the week are treated as Off or Blocked hours during which altered rates may be applied or access may be blocked entirely. Time formats are in 24 hour formats. Defaults to no limits. Common times are 00:00 - 09:00 and 17:00 - 24:00 to give a 9am to 5pm working day.

Custom Data Config

This config section has no effect on Walkup Services

Service Rate Config

Service Rates							
Label	Type	On Hours Rate	Off Hours Rate	Commercial On Rate	Commercial Off Rate	Display Color	Delete
Standard Rate	Per Hour 	20.00	10.00	100.00	100.00		
Label	Type	On Hours Rate	Off Hours Rate	Commercial On Rate	Commercial Off Rate	Display Color	Delete
Item Rate	Per Hour 	10.00	0.00	15.00	15.00		
Add Rate							

Each service can have as many rates as desired. Users will have the option to select these rates in a dropdown when scheduling. Rates for scheduled events have 7 needed configuration options:



1. **Rate Name** - The name displayed in the rate dropdown.
2. **Type** - The type of the rate charge
 - **Per Hour** - Charge based on the length of the event in question split correspondingly over the on and off hours used
 - **Per Run** - Charge a flat fee for the event regardless of duration
3. **On Hours Rate** - The rate to charge at for usage that occurs during On Hours as defined in the "Blocked/Off-Hours" configuration section. This rate should be the "At Cost" internal charge rate.
4. **Off Hours Rate** - The rate to charge at for usage that occurs during Off Hours as defined in the "Blocked/Off-Hours" configuration section. This rate should be the "At Cost" internal charge rate.
5. **Commercial On Hours Rate** - The rate to charge at for usage that occurs during On Hours as defined in the "Blocked/Off-Hours" configuration section. This rate can be any rate but should be no less than the internal cost.
6. **Commercial Off Hours Rate** - The rate to charge at for usage that occurs during Off Hours as defined in the "Blocked/Off-Hours" configuration section. This rate can be any rate but should be no less than the internal cost.
7. **Display Color** - The color that any event scheduled at this rate should be appear as when viewed on the calendar. Accepts any valid CSS color string. Can be blank.

All config fields **MUST** be filled out except the display color regardless of whether you expect to be handling commercial orders on the service. Since users are responsible for selecting their own accounts you cannot control which type of account might be selected for charging the order. If you do not have commercial rates for your services using 2x the internal rate is a safe choice. All fields must **ALSO** be filled out if you are doing "Per Run" rates.

Service Auto-Charges / Fees Config

Each service can also be configured to automatically attach separate fees for service (apart from the hourly charge) to events created. These charges will be attached at the time that the event is created and can be either Fixed Fees or Duration Linked. In both cases the line item description will be the information provided in the "Fee Description" field.

Event Service Fees

Fee Description	Type	Rate	Rate (Commercial)	Amount/Rate Multiplier	(Unused)
Test Fixed Fee	Fixed Fee 	10	20	1	0
Test Duration Fee	Duration Linked 	1	2	1	0
Add Preset					

1. **Fixed Fee** - Fixed Fees are attached to the order as a line item and will remain the same regardless of event duration. This can be used to apply setup fees or other one time charges.
2. **Duration Linked** - Duration linked fees are applied to events on the basis of their total duration. The charge will be equal to the Rate * Rate Multiplier * Total Event Duration in hours. This can be used to attach charges for consumables usage.