# Job Queue

[Job Queue](#_hdx8y05ae6vj)

[Design](#_emf2yjabnvyj)

[API](#_ps03igndas4e)

[Creating a Single Job](#_r74iqn6kzdra)

[Response](#_iy1no8he5niv)

[Creating Multiple Jobs](#_rqvdwc9wg9q7)

[Response](#_nqee4bp9040)

[Job Options](#_hynim489148k)

[Job Status Codes](#_i67c0dpn4d0c)

[Cycling the Queue](#_zdbesuqgqz)

[Additional Help](#_pdqpjnhnkg0x)

[Failure Alerts](#_canj3cjt8ys9)

[Module Details](#_s8kwi0i2k7m1)

[Accounts](#_htnnbpwfj10v)

[Relationship Lookups](#_weqyjs3wnln)

[Quotes](#_jc861udpkxjx)

[Relationship Lookups](#_g64ik1test6f)

[Quote Line Items](#_7e6bowi6woz8)

[Relationship Lookups](#_u7grgjomncxp)

[Orders](#_ks3b9k8oyk75)

[Relationship Lookups](#_tfc8wjk5c4y6)

## Design

The Job Queue is designed to be a processing framework that handles the following:

* Dependencies
* Retries
* Logging
* Completion/Failure Alerts

## API

The Job Queue module can accept jobs by directly sending a POST request to the module’s create-job or create-jobs endpoint.

### Creating a Single Job

POST /rest/v11\_15/upsert\_CustomQueue/create-job

{

'job\_module': 'Quotes',

'job': 'Import',

'context': {  
 'fields': {

'name': 'My Quote'',

}

},

'options': {

//options

}

}

##### Response

This endpoint will return an array with the queue id and status code:

{

"af24e2f2-0c51-11ed-86f9-0242ac17001a": 2

}

### Creating Multiple Jobs

POST /rest/v11\_15/upsert\_CustomQueue/create-jobs

{

'jobs': [

{

'job\_module': 'Quotes',

'job': 'Import',

'context': {  
 'fields': {

'name': 'My Test Quote',  
 }

},

'options': {  
 //options

}

}

]

}  
  
To save on data transfer, you can opt to pass the options at the top of the payload rather than per record. An Example is shown below:  
  
POST /rest/v11\_15/upsert\_UpsertifiableQueue/create-jobs

{

'jobs': [

{

'job\_module': 'Quotes',

'job': 'Import',

'context': {

'fields': {

'name': 'My Test Quote',  
 }

},

}

],  
 'options' : {

//options

}

}

##### Response

This endpoint will return an array with the queue ids as keys and status codes :  
  
{

"af24e2f2-0c51-11ed-86f9-0242ac17001a": 2  
}

### Job Options

Jobs have options that can be passed to allow for things like duplicate preventions, failure alerts, and dependencies;

| Name | Type | Description |
| --- | --- | --- |
| prevent\_duplicates | boolean | Prevents duplicates from being created with the same job, module, and context. |
| retries\_allowed | integer | The number of times a job can be retried before resulting in failure. |
| dependent\_on\_id | string | Specifies the id of a previous job that must be completed before the current job can be executed. |
| assigned\_user\_id | string | Assigns the job record to a specific user. |
| alert\_on\_failure | boolean | Whether or not to notify the assigned user upon job failure. |
| alert\_on\_completion | boolean | Whether or not to notify the assigned user upon job completion. |
| execute\_immediately | boolean | Whether we should execute the job immediately or allow the cron to pick up the job. |

### Job Status Codes

The endpoints will return status codes. These codes will let you know the status of the job.

| **Status Code** | **Status** |
| --- | --- |
| 0 | Failure |
| 1 | Completed |
| 2 | Pending Queue |
| 3 | Queued |
| 4 | In Process |
| 5 | Canceled |

### Cycling the Queue

To cycle the queue, you can make a request to the following endpoint:

POST /rest/v11\_15/upsert\_CustomQueue/cycle/<limit>

For the limit, we must make sure this runs within the 30 second apache timeout or we will not receive a response.

### Additional Help

Additional help documentation can be found by navigating to your in-app help url in a browser and finding the queue endpoints:  
  
GET /rest/v11\_15/help

## Failure Alerts

When a job has failed, the system can alert the assigned user of the record with an in-app notification and/or email. The user can enable notification preferences in their Sugar profile.

## Module Details

This section outlines each modules custom details

### Accounts

#### Relationship Lookups

| **Field** | **Required** | **Description** |
| --- | --- | --- |
| lookup\_assigned\_user\_email | True | Associates the assigned user by email |
| lookup\_csr\_email | False | Associates the CSR user by email |
| lookup\_salesperson1\_email | False | Associates the Salesperson 1 user by email |
| lookup\_salesperson2\_email | False | Associates the Salesperson 2 user by email |
| lookup\_salesperson3\_email | False | Associates the Salesperson 3 user by email |

### Quotes

#### Relationship Lookups

| **Field** | **Required** | **Description** |
| --- | --- | --- |
| lookup\_account\_number | True | Associates the the parent account by account number |
| lookup\_assigned\_user\_email | True | Associates the assigned user by email |
| lookup\_lead\_email | False | Associates the Lead Name by email |

### Quote Line Items

#### Relationship Lookups

| **Field** | **Required** | **Description** |
| --- | --- | --- |
| N/A |  |  |

### Orders

#### Relationship Lookups

| **Field** | **Required** | **Description** |
| --- | --- | --- |
| lookup\_quote\_number | False | Associates the parent quote by email |
| lookup\_account\_number | False | Associates the the parent account by account number |
| lookup\_specifier\_account\_number | False | Associates the specifier account by account number |
| lookup\_purchaser\_account\_number | False | Associates the purchaser account by account number |
| lookup\_assigned\_user\_email | False | Associates the assigned user by email |
| lookup\_salesperson1\_email | False | Associates the Salesperson 1 user by email |
| lookup\_salesperson2\_email | False | Associates the Salesperson 2 user by email |
| lookup\_salesperson3\_email | False | Associates the Salesperson 3 user by email |
| lookup\_salesperson4\_email | False | Associates the Salesperson 4 user by email |