

Job Queue

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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': 'WQUO1_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': 'WQUO1_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': 'WQUO1_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
}

```

Creating a OLI Deletion Job

POST /rest/v11_15/upsert_CustomQueue/create-job

```
{
  'job_module': 'WOLI1_OrderLineItems',
  'job': 'Delete',
  'context': {
    'fields': {
      initial_line_number_c: '1234',
      lookup_order_number: '4321'
    }
  },
  'options': {
    //options
  }
}
```

Response

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

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

Creating Multiple OLI Deletion Jobs

POST /rest/v11_15/upsert_CustomQueue/create-jobs

```
{
  'jobs': [{
    'job_module': 'WOLI1_OrderLineItems',
    'job': 'Delete',
    'context': {
      'fields': {
        initial_line_number_c: '1234',
        lookup_order_number: '4321'
      }
    }
  }, {
    'job_module': 'WOLI1_OrderLineItems',
    'job': 'Delete',
    'context': {
      'fields': {
```

```

        initial_line_number_c: '4434',
        lookup_order_number: '4421'
    }
}
}},
'options': {}
}

```

Response

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

```

{
  "af24e2f2-0c51-11ed-86f9-0242ac17001a": 2,
  "ef24e2f2-0c51-13ed-86f9-0242ac17002d": 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.
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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 (Accounts)

Relationship Lookups

Field	Required	Maps To	Description
lookup_assigned_user_email	True	assigned_user_id	Associates the assigned user by email
lookup_csr_email	False	csr_c	Associates the CSR user by email
lookup_salesperson1_email	False	salesperson1_c	Associates the Salesperson 1 user by email
lookup_salesperson2_email	False	salesperson2_c	Associates the Salesperson 2 user by email
lookup_salesperson3_email	False	salesperson3_c	Associates the Salesperson 3 user by email

Quotes (WQUO1_Quotes)

Relationship Lookups

Field	Required	Maps To	Description
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lookup_account_number	True	accounts_wquo1_quotes_1accounts_ida	Associates the the parent account by account number
lookup_assigned_user_email	True	assigned_user_id	Associates the assigned user by email
lookup_lead_email	False	leads_wquo1_quotes_1leads_ida	Associates the Lead Name by email

Quote Line Items (WQLI_QuotedLineItems)

Relationship Lookups

Field	Required	Maps To	Description
N/A			

Orders (WSO1_Orders)

Relationship Lookups

Field	Required	Maps To	Description
lookup_quote_number	False	wquo1_quotes_id_c	Associates the parent quote by number
lookup_account_number This maps to two separate fields Will remove account_id_c field eventually, and will update layout to remove field	False	accounts_wso1_orders_1accounts_ida & account_id_c	Associates the the parent account by account number
lookup_retail_store_account_number Will remove field eventually, and will update layout to remove field	False	account_id1_c	Associates the retail store by account by account number
lookup_ordered_by_account_number Will remove field eventually, and will	False	account_id2_c	Associates the ordered by account by

update layout to remove field			account number
lookup_specifier_account_number	False	account_id3_c	Associates the specifier account by account number
lookup_purchaser_account_number	False	account_id4_c	Associates the purchaser account by account number
lookup_assigned_user_email	False	assigned_user_id	Associates the assigned user by email
lookup_salesperson2_email	False	salesperson2_c	Associates the Salesperson 2 user by email. Not yet added to the record view.
lookup_salesperson3_email	False	salesperson3_c	Associates the Salesperson 3 user by email. Not yet added to the record view.
lookup_salesperson4_email	False	salesperson4_c	Associates the Salesperson 4 user by email. Not yet added to the record view.

- We will **not** copy the address from the parent account to the order any longer.

Order Line Items (WOLI1_OrderLineItems)

Relationship Lookups

Field	Required	Maps To	Description
lookup_order_number	true	wso1_orders_woli1_orderlineitems_1wso1_orders_ida	The order number

Invoices (MGCIV_Invoice)

Relationship Lookups

Field	Required	Maps To	Description
lookup_order_number	true	wso1_orders_mgciv_invoice_1wso1_orders_ida	The order number
lookup_account_number	true	accounts_mgciv_invoice_1accounts_ida	The account number
lookup_assigned_user_email	false	assigned_user_id	The assigned user

Invoice Line Items (MGCIV_InvoiceLineItems)

Relationship Lookups

Field	Required	Maps To	Description
lookup_invoice_number	true	mgciv_invoice_mgciv_invoicelineitems_1mgciv_invoice_ida	The invoice number
lookup_assigned_user_email	false	assigned_user_id	The assigned user
lookup_account_number	false	accounts_mgciv_invoicelineitems_1accounts_ida	The account number