

Salesforce Sales Cloud Bulk

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Bulk provides an option to upload a large number of resources, such as contacts, to a service provider all at once. You can use bulk to download a csv or json file from a large number of records or upload a csv or json file to add multiple records. See [Using Bulk](#) for more information on managing bulk.

Note: SAP Cloud Platform Open Connectors leverages the native provider bulk endpoints whenever available. When there is no bulk available from the provider, SAP Cloud Platform Open Connectors provides a bulk service for uploading and downloading data from the endpoint. See [Bulk Details](#) for the type of bulk used.

- Consider using the Bulk API if you are managing over 2000 records.
- The Salesforce bulk chunking mechanism allows you to use bulk on large data sets without limitations. If you use an orderBy clause, chunking is disabled. If chunking is enabled, it may take longer to get all the data. Also, be aware that Salesforce has daily upload and download limits.
- If you encounter record lock issues when performing bulk uploads, you can try serial mode instead of the default parallel mode. See the Salesforce documentation topic [General Guidelines for Data Loads](#) for more information about parallel and serial modes. To switch to serial mode pass `"concurrency": "serial"` in the request metadata.

Types of Bulk

SAP Cloud Platform Open Connectors leverages the native provider bulk endpoints whenever available. When there is no bulk available from the provider, SAP Cloud Platform Open Connectors provides a bulk service for uploading and downloading data from the endpoint.

The Salesforce Sales Cloud connector uses the Salesforce bulk endpoints (batch APIs). Rate limits come into play when the Salesforce batch APIs, so review the limitations in the [API provider's documentation](#).

Hash Verification

If you configured the **Callback Notification Signature Key** (

`event.notification.signature.key`) when you authenticated a connector instance, the bulk APIs will use the signature key to provide hash verification in the header of bulk jobs. For more information, see [Hash Verification](#).
