

[Cloud Talent Solution](https://cloud.google.com/talent-solution/) (<https://cloud.google.com/talent-solution/>) [Documentation](#)

Cloud Talent Solution management tools

Cloud Talent Solution dashboard

The Cloud Talent Solution [dashboard](http://console.cloud.google.com/talent-solution) (<http://console.cloud.google.com/talent-solution>), provides visual data to give you more insight into:

1. How your job seekers are engaging with Job Search, by showing top queries and locations by domain.
2. Whether your Job Search is properly configured, by showing inconsistencies in your integration.
3. Whether your client events are properly configured. The dashboard can show client events that you need to correct or improve.

For more information, see the [dashboard documentation](https://cloud.google.com/talent-solution/job-search/docs/dashboard) (<https://cloud.google.com/talent-solution/job-search/docs/dashboard>).

Client event livestream

Check if Google received the event messages you sent, and confirm that the format of the messages are correct. In the [GCP Console](http://console.cloud.google.com) (<http://console.cloud.google.com>), you can access the [Client event livestream tool](https://console.cloud.google.com/job-discovery/behavioral-livestream) (<https://console.cloud.google.com/job-discovery/behavioral-livestream>). The most recent event messages (up to 50) are listed. View event details by selecting any of the listed events. Check all events with the same `requestId` by clicking the "ALL EVENTS BY REQUESTID" button in the header. You'll see warnings in the detailed view in cases where the

`clientEvent` message was sent with incorrect formats. Use filtering options to filter the messages by either the `requestId`, `userId`, or `sessionId`.

If the message doesn't appear in the Client event livestream, check that the `requestId` in the event message is valid. Event messages without a valid `requestId` are discarded by Cloud Talent Solution.

See [Troubleshooting `ClientEvent` validation errors](https://cloud.google.com/talent-solution/docs/management-tools#Troubleshooting)

(<https://cloud.google.com/talent-solution/docs/management-tools#Troubleshooting>) for more information about single-event error messages.

Client event search

Search for all event messages having a specific `requestId`. Similar to Client event livestream, you can verify if Google received your event messages and that these are well-formatted messages for a particular `requestId`. You can also use the filter panel on the right side to filter out, for example, well-formed messages.

See [Troubleshooting `ClientEvent` validation errors](https://cloud.google.com/talent-solution/docs/management-tools#Troubleshooting)

(<https://cloud.google.com/talent-solution/docs/management-tools#Troubleshooting>) for more information on aggregated-event error messages.

Job export

Export job data to generate a JSON file of your jobs indexed with Cloud Talent Solution using the [Job export tool](https://console.cloud.google.com/job-discovery/export-jobs) (<https://console.cloud.google.com/job-discovery/export-jobs>). There are three options for selecting the job fields to view.

1. Default fields: Include `name`, `distributorId`, and `requisitionId`
2. Selected fields: Choose up to 10 fields to include.
3. All fields: This option generates the JSON based on the snapshot at the timestamp indicated above the field.

Choose an option, and select GENERATE to create a JSON file. A record of your export can now be viewed on the table. Click the download link to download the file.

Note: After 7 days, the file is removed from the table.

If there are more than 3MM jobs in your system, and options other than `ALL_FIELDS` have been selected, only the most recently created 3MM jobs are returned.

To prevent further performance issues, Google disables this option if your file is too large.

Service account management

You must connect a service account to Cloud Talent Solution in order to use the credentials associated with that account and to make an API request. Use the [Service accounts connections tool](https://console.cloud.google.com/job-discovery/service-account-connections) (<https://console.cloud.google.com/job-discovery/service-account-connections>) to manage your service accounts. All service accounts associated with your Google Cloud project are listed. Click "Connect" to associate a service account with Cloud Talent Solution. Learn more about service accounts at [Creating and Managing Service Accounts](https://cloud.google.com/iam/docs/creating-managing-service-accounts) (<https://cloud.google.com/iam/docs/creating-managing-service-accounts>).

Troubleshooting `ClientEvent` validation errors

Validations based on a single event

Constant	UI string
<code>RELATED_JOB_ID_INVALID</code>	The <code>ClientEvent</code> message has one or more invalid or incorrect relatedJobNames (https://cloud.google.com/talent-solution/job-search/docs/client-event#FIELDS.related_job_names)
<code>EVENT_ID_REUSED</code>	An <code>eventId</code> must be unique to a Google Cloud Project. In this case, the message has an <code>eventId</code> previously generated by your Google Cloud Project. Best practice is to include some form of timestamp into each <code>eventId</code> , to ensure uniqueness.
<code>MISSING_REQUIRED_FIELDS</code>	Missing required field(s). Check the ClientEvent (https://cloud.google.com/talent-solution/job-search/docs/client-event) schema to identify the missing required field(s).
<code>INVALID_FIELDS</code>	One or more fields of the message were either incomplete or were not expected

by Cloud Talent Solution. See the [ClientEvent](https://cloud.google.com/talent-solution/job-search/docs/client-event#client-event.ClientEvent) (<https://cloud.google.com/talent-solution/job-search/docs/client-event#client-event.ClientEvent>) schema for more information on required fields, and the values expected in those fields.

UNKNOWN_FIELDS	Received unknown field(s)
INVALID_FORMAT	Received an invalid JSON string in the Cloud Talent Solution ClientEvent message. For example, a missing brace.

Aggregated validations by requestId

Constant	Description
NO_SEARCH_IMPRESSION	No IMPRESSION (https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.IMF events
VIEWS_FEWER_THAN_APPLY_STARTS	The number of VIEW events is fewer than the number of APP (https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.API events. This could either be because the VIEW (https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.VIE events are not being correctly sent to Cloud Talent Solution, or triggered without actually triggering a view. If this is the inter search results page has an apply button that job seekers can click (for example, if the search results page has an apply button that job seekers can click details) then consider using a APPLICATION_START_FROM_SERP (https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.API event for this use case instead.
VIEWS_FEWER_THAN_APPLY_REDIRECTS	The number of VIEW events is fewer than the number of APP could be either because the VIEW events are not being correctly sent to Cloud Talent Solution, or the Apply button on the UI is being triggered without actually triggering a view. If this is the inter search results page has an apply button that job seekers can click (for example, if the search results page has an apply button that job seekers can click details) then consider using a APPLICATION_REDIRECT_FROM_SERP (https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.APPLICATION_REDIRECT_FROM_SERP) event for this use case instead.

APPLY_STARTS_FEWER_THAN_APPLY_FINISHED This is likely due to a misconfiguration where either the [APPLY_STARTS_FEWER_THAN_APPLY_FINISHED](https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.API) message is not being sent in all instances, or the [APPLICATION_START](https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.API) message is being sent in instances when it shouldn't be sent. [APPLICATION_START](https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.API) messages should be greater than or equal to the number of [APPLICATION_START](https://cloud.google.com/talent-solution/job-search/docs/event.EventType.ENUM_VALUES.client-event.EventType.API) messages.

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