<u>Cloud Talent Solution</u> (https://cloud.google.com/talent-solution/)

<u>Documentation</u> (https://cloud.google.com/talent-solution/docs/) <u>Resources</u>

Release notes

This page documents production updates to Cloud Talent Solution. You can periodically check this page for announcements about new or updated features, bug fixes, known issues, and deprecated functionality.

To get the latest product updates delivered to you, add the URL of this page to your <u>feed reader</u> (https://wikipedia.org/wiki/Comparison_of_feed_aggregators), or add the feed URL directly:

https://cloud.google.com/feeds/cloud-talent-solution-job-search-release-notes.xml

December 05, 2019

FEATURE

CTS has launched a new dashboard management tool

(https://console.cloud.google.com/talent-solution). This new improvement provides visual data to give you more insight into:

- 1. How your job seekers are engaging with Job Search, by showing see top queries and locations by domain.
- 2. Whether Job Search is properly configured for your application, by showing inconsistencies in your search API integration.
- Whether your client events are properly configured, by showing client events that you can correct or improve to take full advantage of Job Search's machine learning capabilities.

December 03, 2019



JS has improved the algorithm for better street resolution coverage. This will give you more precise geolocation results when using commute search.

November 15, 2019

FEATURE

The following fields have been added to SummarizedProfile:

- group_id
- application
- assignment

FIXED

Bug fix: Required fields are now marked correctly in the BatchUpdateJobs reference documentation.

FIXED

Bug fix: CTS has fixed a bug that caused deleted companies to be counted toward the company limit in a job distributor.

November 01, 2019

FEATURE

CTS has added validation to **job.workHour**.workHour now allows hour values between (0-23), otherwise a 400 error is returned.

FEATURE

New enum CONTACT_AUTOMATED_SYSTEM has been added to ProfileEventTypes.

FEATURE

JS has added new field query_language_code.

October 18, 2019

FIXED

Bug fix: Job Search has fixed an issue that caused only some jobs in a specific location to be returned, rather than all options matching the search query.

FIXED

Bug fix: Job Search has fixed an issue that caused only some of the results to be returned when searching on the string "Chief accountant". All results to this query string are now returned.

September 27, 2019

FIXED

Bug fix: CTS has fixed a bug that caused the job export tool to generate fewer results.

CHANGED

All resource (Tenant, Job, Profile, and so on) Create/Update methods now return any duplicated resource names in a structured error response to ALREADY_EXIST errors.

August 30, 2019

CHANGED

Job update time is now only tracked if the job was updated by a customer.

August 16, 2019

FIXED

Bug fix: CTS has fixed a bug that caused information in the addresses (https://cloud.google.com/talent-solution/jobsearch/docs/reference/rpc/google.cloud.talent.v4beta1#job) field to be appended to structuredAddresses.

July 19, 2019

CHANGED

The maximum size of the <u>customAttributes</u> (https://cloud.google.com/talent-solution/jobsearch/docs/reference/rest/v4beta1/JobQuery) filter field of a job has been increased from 3KB to 6KB.

July 02, 2019

FEATURE

Cloud Talent Solution has launched a new <u>Batch API</u> (https://cloud.google.com/talent-solution/jobsearch/docs/reference/rpc/google.cloud.talent.v4beta1#batchcreatejobsrequest)

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FIXED

Bug fix: Cloud Talent Solution has fixed an issue where UpdateJob failed with a 500 error if the job's name didn't have a tenant_id.

CHANGED

New documentation added: Create an <u>expired job</u> (https://cloud.google.com/talent-solution/job-search/docs/reference/rest/v4beta1/projects.jobs#Job)

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FIXED

Bug fix: Cloud Talent Solution has fixed issues related to histogramming custom attribute facets. An empty histogram expression now throws an error message.

CHANGED

Cloud Talent Solution has added an exception for an invalid profile name.

June 03, 2019

FEATURE

Cloud Talent Solution has launched new <u>Batch</u>

(https://cloud.google.com/talent-solution/jobsearch/docs/reference/rest/v4beta1/projects.jobs/batchDelete)

API calls. These calls enable you to perform multiple operations at the same time. Note that Batch API calls only apply to Job resources and CTS does not guarantee how quickly they will be reflected in search or recommendation responses.

FIXED

Bug fix: Compensation filters are now able to account for jobs that have no compensation fields set.

FIXED

Cloud Talent Solution fixed an issue that would not allow customers to upload expired jobs. You are now able to create an expired job and link it to any associated Application or Assignment records. When loading your historical data, input the following values:

- postingPublishTime=[timestamp when the job was created]
- postingExpireTime=[timestamp when the job was closed]
- requisitionState=[FILLED, LOST, CLOSED]

May 14, 2019

Cloud Talent Solution has launched the v4beta1 version of the API. You can download these libraries from our Client Libraries page.

Cloud Talent Solution has updated it's documentation to include more code samples, and better structured examples on how to use the APIs.

CHANGED Cloud Talent Solution has added validation checks on timestamp related fields on the job and profile entities.

CHANGED Customers can now set the **group_id** field with their values, rather than having to use the Cloud Talent Solution auto-generated values for this field.

April 26, 2019

Cloud Talent Solution has fixed issues causing 500 status messages to be returned due to discrepancies in the Profile object.

CHANGED Cloud Talent Solution now allows you to define your own group_id to identify the same candidate across multiple profiles.

Cloud Talent Solution fixed issues causing the excludedJobs list in the search API to work incorrectly.

March 15, 2019

For invalid histogram expressions Cloud Talent Solution will now return a 400 response instead of a 500 response.

March 01, 2019

Fixed a bug in which jobs with multiple locations did not have any identifier between each location. Added in double quotes as a delimiter between each location.

February 08, 2019



Additional Commute Search modes: Cloud Talent Solution now supports walking and cycling modes of transit for Commute Search.

January 21, 2019

FEATURE

Rank by distance: Cloud Talent Solution now allows you to order search results by distance based on a specified location.

CHANGED

Simplified client events in v3: Simplified client events provides provides a set of APIs to implement client events in a clean, easy-to-use manner.

January 07, 2019

CHANGED

Increased the max characters for languageCode: Cloud Talent Solution now accepts locale strings from 10 to 16 characters.

FIXED

Fixed a bug which was slowing the performance of the CTS Self-Service Tools.

FIXED

Fixed a bug in which jobs with multiple street addresses were returning only the first address. Creating job will now return all job locations in STREET_ADDRESS type if job location is successfully resolved to street address, otherwise returning job addresses in extracted location type.

December 14, 2018

FEATURE

Diversification level available in v3: <u>DiversificationLevel</u>

(https://cloud.google.com/talent-solution/job-search/v3/docs/reference/rest/v3p1beta1/DiversificationLevel) controls whether or not highly similar jobs are returned next to each other in the search results and is now available in v3 of the API.

October 19, 2018

FEATURE

Cloud Talent Solution now available on APIs Explorer: Cloud Talent Solution is now available on <u>APIs explorer</u> (https://cloud.google.com). Learn more about using APIs Explorer.

FEATURE

Multiple languageCodes for auto-complete API: Cloud Talent Solution now allows you to specify multiple languageCode filters for the autocomplete API.

CHANGED

Compensation information now modifiable: Cloud Talent Solution now allows you to modify the compensation information of a job using the updateJob API call.

CHANGED

Improved error messages: Cloud Talent Solution has added more context to error messages that are generated when updating the compensation information of a job.

September 24, 2018

FEATURE

New beta version: Cloud Talent Solution has launched a beta version of the API suite that now supports three additional features - <u>custom ranking</u> (https://cloud.google.com/talent-solution/job-search/v3/docs/custom-ranking), <u>new</u> histogram expression

(https://cloud.google.com/talent-solution/job-search/v3/docs/histogram-expression) and, a new Pub/Sub API set

(https://cloud.google.com/talent-solution/job-search/v3/docs/quickstart-pubsub).

CHANGED

Improved access control: Cloud Talent Solution has introduced stronger access control measures that give developers more flexibility to control data permissions through Google Cloud Console. See the <u>access control documentation</u> (https://cloud.google.com/talent-solution/docs/iam) for more information.

CHANGED

One-sided compensation ranges: Previously, Cloud Talent Solution required both the max and min ranges to be set while defining the compensation range. This requirement has now been alleviated.

FIXED

v3 orderBy values: Previously, Cloud Talent Solution documentation suggested that orderBy values such as **postingPublishTime** would be accepted, but the API

only accepted **posting_publish_time**. This has now been fixed. Cloud Talent Solution will accept both versions and also capitalized versions of the same values.

August 27, 2018

FEATURE

Military occupational speciality code: Cloud Talent Solution is proud to launch a new feature that enables veterans to search for jobs using their military occupational speciality code.

August 03, 2018

FEATURE

Cloud Talent Solution is now generally available.

FEATURE

v3 schema: Cloud Talent Solution has launched v3 of the job search API. New customers should use the v3 schema to integrate with the API. Existing customers on V2 of the API are encouraged to migrate to the new schema as soon as possible. The v2 version of the Job Search API will continue to be supported until 8/23/2019. Most new features are only available on the v3.

FIXED

nextPageToken not yielding page results: In some cases, using the nextPageToken to get the next page of results yielded empty search results. This behavior is now fixed.

June 29, 2018

FEATURE

New method for tagging bot traffic: Added a BOT device type to indicate if the device used by the job seeker at the time of the call to the service is a bot.

June 13, 2018

FEATURE

Cloud Talent Solution is now in an open beta.

Self-service tools launched: Cloud Talent Solution has released some self-service tools to assist with smoother integration and monitor usage of the API. Follow the directions in our documentation to learn more.

FEATURE

New data centers in Europe: Cloud Talent Solution has opened data centers in Belgium and the Netherlands to route traffic of European customers and reduce the overall latency of the service.

FIXED

Autocomplete issues with different languageCodes: Previously, Cloud Talent Solution incorrectly parsed languageCode values in the complete API request. This is now fixed.

FIXED

Inability to parse keywords with non-alphanumberic characters: Previously, Cloud Talent Solution was unable to parse queries such as A.B.C.D and match them against literals in the job description field and custom attribute fields. This is now fixed.

CHANGED

Limit distributorCompanyId size: The distributorCompanyId field of a job now has a limit of 255 characters.

May 04, 2018

CHANGED

Job expiration changes: This release extends the allowed retention period for expired jobs within the Google database from 60 days to 90 days (default) and, upon request (https://cloud.google.com/talent-solution/docs/support), up to 360 days. This release also allows for updating expired jobs (including re-setting the expiration date of an expired job to a future date) and updating the expireTime field introduced in the last release. expireTime allows customers to set the format of an expiration date to a DateTime (ms timestamp) instead of a Date at 0:00 UTC. In cases where both the expireTime and expiryDate are added to a job, the expireTime takes precedence.

CHANGED

Restriction on number of Location filters: This release restricts the number of Location filters to no more than 5.

FIXED

Limit autocomplete results to specific languageCode: Previously, for complete API requests, if languageCode included "en-US" Cloud Job Discovery incorrectly discarded the "US" bit and returned all jobs with languageCode starting with "en"

even if the search language code had been set to "en-US". Now only jobs corresponding to the languageCode are returned.

FEATURE

Quota lookup for Google Cloud Projects: Customers of Cloud Job Discovery can view the quotas allocated to their Google Cloud Projects by looking up the <u>APIs & Services</u> (https://console.cloud.google.com/apis/) section of the Google Cloud Console. If you require more quota than has been allocated, file a ticket from our <u>support page.</u> (https://cloud.google.com/talent-solution/docs/support)

April 13, 2018

CHANGED

API Schema changes: Cloud Job Discovery has added several new fields in the schema and corresponding deprecated fields in order to standardize the naming of fields. Deprecated fields have been marked "deprecated" in the schema.

DEPRECATED

Several List APIs deprecated: Several list APIs such as listCustomFields, listJobCategories, etc are now deprecated. This should not impact existing customers since the APIs have been non-active for the past several months.

FEATURE

Cloud Job Discovery has released new customAttribute fields on jobs. These fields work in a similar manner to the existing filterableCustomFields, with the following new features:

Define your own custom field name: The advanced custom fields allow you to define your own name for the custom fields, rather than use a specific index value (as is the case in regular custom fields)

- Case insensitive search: The search request is now able to specify if a case sensitive or case insensitive match is required.
- **Support for numeric values**: customAttributes can store either string or numeric values.
- Range based filtering: customAttribute search filters can filter jobs
 between a range of specified values. For example, if a given
 customAttribute field is used to store salary information, the
 customAttribute filter can be used to return jobs with a certain salary, jobs
 with a salary greater than a specified value, jobs between a range of
 specified values, etc.

- Cross-field filtering: Advanced custom fields also provide customers of Cloud Job Discovery with the ability to define expressions that filter a combination of advanced custom field values. For example, a customer has business logic that states they only want jobs that sponsor visas, or jobs paying more than \$100K. A customer can use one advanced custom field to indicate if the job is sponsored, and another for the salary. The customer can then specify a search filter with an expression that defines the logic needed. Only 3 levels of nested expressions are supported.
- Keyword specific search: Specify a certain customAttribute in the keywordSearchableCustomAttribubte of the associated company to ensure search requests that contain a value in the specified custom field return the jobs that contain this value in that custom field.
- SQL based searches: strong> customAttributes allows you to define boolean-style expressions in the search request. Cloud Job Discovery automatically parses these expressions, applies the filters to the search request, and returns results accordingly.
- Define custom histogram buckets: customAttributesallow customers of Cloud Job Discovery to set custom buckets by which histograms can be calculated. For example, you can use a customAttribute to store salary information, and then create a histogram on the field. You can further create buckets from 10000 - 20000, 20000 - 30000, etc to group all the salaries within these buckets.

Merged Search and Histogram call: The search API structure has been modified to include a request for a histogram in the same call. This merged search and histogram API call is backward-compatible, to ensure that you can continue to use it as before. The histogram returned as a part of this call respects all the filters of the associated search.

CHANGED

Change to the way CJD returns fields: Cloud Job Discovery will no longer return empty or NULL job fields in the search results. If a job has been created without a certain field (for example, the compensationInfo field) or if this field is set to NULL, the search response will not contain this field.

FEATURE

New API for Search for Alerts: There is a new Search API endpoint - searchJobsForAlerts that has been created exclusively to provide relevant job content targeted to passive job seekers (such as for email alert campaigns). This

API is preferred over the current means of specifying the MODE of a **searchJobs** API call to **EMAIL_ALERT_SEARCH**. Customers can also see the quota associated with this type of search in the Google Cloud Console under the PeriodicTaskGroup.

CHANGED

Compensation histogram change: A request to generate a histogram by compensation does not accept the same searchType to be repeated more than once on a single request.

FEATURE

New expiration date features: A new field -expireTime has been introduced on the job object. This field allows customers of Cloud Job Discovery to specify the exact time a job is set to expire.

FIXED

nextPageToken throwing 500 error on broadened errors: Previously, Cloud Job Discovery was incorrectly throwing 500 errors on search requests that had the pageToken set such that the set of returned results were only broadened results (by setting the flag enableBroadening to true). This has been fixed.

FEATURE

Use regionCode to specify preferred language: Cloud Job Discovery has introduced an optional search parameter regionCode to specify the preferred country in which jobs are to be found in. For example, by setting this field to UK, a location-based search for jobs in Reading would return jobs in Reading, UK as opposed to Reading, MA, USA.

March 19, 2018

CHANGED

Improvements to inferred street address coverage: Cloud Job Discovery can now infer the street address of more jobs where the actual street address is not provided. This directly improves the accuracy of searches by commute time and gives job seekers more visibility into the actual location of the job.

FEATURE

Allow to update expired jobs: Updating expired jobs is now supported. Expired/deleted jobs can also now be reactivated by updating the expiryDate field. However, a job cannot be reactivated, if there is already an open job with the same companyName, requisitionId, and locale.

FIXED

The requestMetadata fields in the search request are now required fields: The requestMetadata fields in the search request are now required fields. Search

requests that do not include this information are rejected with a 4xx error. Customers who have existing Cloud Job Discovery accounts as of 3/12/2018 are exempt from this requirement, but are encouraged to send these fields with every search request, to maximize the improvements gained from Cloud Job Discovery.

March 09, 2018

FEATURE

Compensation Currency filter:A compensation currency filter is now available. This filter can be set on the search call to ensure only jobs with a specified currency denomination are returned.

CHANGED

Create and Update calls are now asynchronous by default: The default behavior of job creation and update API requests is now asynchronous.

FIXED

Minor fixes have been made to the accuracy of the histogram API.

CHANGED

Completion API by company modification: Completion API suggestions for company type-aheads will no longer include companies that have no open jobs. For example, a complete API call for the query "Goog" will not return "Google" as a suggestion if the company defined as Google in your system does not have any open jobs.

FEATURE

New user behavior event: A new event type,

APPLICATION_REDIRECT_FROM_SERP, has been added to provide the added flexibility of representing an event where a job seeker tried to apply for a job from the search results page and was immediately taken to a different domain to complete the application process.

DEPRECATED '

Removal of telecommute flag from Job benefits: The "telecommute" option has been removed from the job benefit type. Customers are instead encouraged to set the TELECOMMUTE option under the Region field for jobs that do offer remote work as an option.

FEATURE

Histogram support for compensation based filters: The compensation filters in the V2 libraries now include histogram support. The API will now also generate histograms based on the compensation information. This would support functionality such as providing job counts for filtering by compensation amount, filtering by currency, etc.

Sort jobs by compensation: The API will now allow job seekers to sort jobs based on compensation information.

February 09, 2018

FEATURE

Commute search in V2: Searching for jobs by commute time is now possible in V2 of Cloud Job Discovery. This can be done by setting the CommuteFilter of the search request. Look up this tutorial for instructions on how to use the commute filter.

FEATURE

Extended Compensation Filters: Jobs can now be created with additional information regarding overall compensation using the extendedCompensationInfo field. The extended compensation can further be filtered against using the extendedCompensationFilter of the search request. This can be further used to **filter by a range of salaries**, **histogram by salaries**, etc.

FIXED

More use cases that lead to error messages are being tagged with a unique requestld to help troubleshooting.

CHANGED

Improved Job recall and counting: Cloud Job Discovery can now return up to 5000 jobs with an accurate result count (by setting the search field enablePreciseResultSize and looking up the totalSize field in the search response.

FEATURE

Reduced latency of search calls: The end to end latency of Cloud Job Discovery search calls has been reduced.

November 21, 2017

FIXED

Job Language Code: Fixed a bug where language code "id_id" was converted to "in_in".

FIXED

Compensation Filter: Providing a minimum compensation value that is greater than the maximum compensation value will now result in an HTTP 400 response code (BAD REQUEST).

Expired jobs are now available for 60 days via jobs.get. Expired jobs are readonly.

November 05, 2017

Search Offset: The offset field is now included in the search request. You can use this field to specify the page of results to return.

The histogram call no longer returns a 500 error when the compensation filter is specified

The histogram call now returns an accurate job count for the specified filters.

The completion API now returns values if the scope of the request is specified as "TENANT".

In some cases, deleted/expired jobs were being returned as part of the search results. This behavior has now been corrected. Deleted/Expired jobs will not be returned in the search results.

October 25, 2017

Search by Requisition ID: Recruiters can now specify a particular Job RequisitionID to search for using the construct *Req:123-somerequisitionId* in the query string.

Specify custom fields that a regular search can match against: Use the keywordSearchableCustomFields field of the company object to define which custom fields a regular search can match against. For example, if this field contains the values [1,5,10], and the query string is "abcd", then a search call on this company would also return jobs in which the value "abcd" is in custom field 1,5 or 10.

FEATURE New Histogram facet - Company_Title

Delete Jobs by RequisitionID: There is now a new API call to delete all jobs with a specific requisitionID. An error will be thrown if the JobReqisitionID does not

FEATURE

exist.

FEATURE

Filter by Salary: New JobFilter to filter jobs within a specific salary range. If a job contains the compensationAmount, the filter will be applied to the compensationAmount. If a job has no compensationAmount, but does have a compensationAmountMin and compensationAmountMax, the filter will be applied to that range (inclusive of range limits).

CHANGED

Expiration date restriction: Jobs can now have a maximum expiration date of 2100/12/31. Any job creation with an expiry date outside this range will throw an error message.

CHANGED

Improvements to histogram accuracy: Improvements have been made to the accuracy of the histogram count. V2beta1 users must now mandatorily include the RequestHeader in the histogram call. The requestHeader must be exactly the same as that of the associated search call.

FIXED

Errors are no longer thrown in certain cases where the location is empty during job creation/updation.

FIXED

Improvements to location resolution and latency

FIXED

Fixed a typo that returned "Singapore," instead of "Singapore" as a value in the histogram results.

FIXED

Detection of job titles and employment types: Queries such as "intern" will now look for jobs with an employment type as intern as well as jobs with the keyword "intern" in the job title or description

FIXED

Fixed a bug that prevented updation of the compensationAmount field to null.

FIXED

Fixed a bug that disregarded the location filter of a search in V2.

September 26, 2017

FEATURE

Announcing Cloud Job Discovery private beta release. See the Cloud Job Discovery Documentation.

August 09, 2017

FEATURE

New Histogram Filter Job_ADMIN1_COUNTRY: Clients can now retrieve a histogram by both State (or equivalent) and Country.

Sample response:

FEATURE

Disable street address identification: A new flag to disable street address identification has been introduced to allow clients to explicitly disallow the API from identifying the underlying street address of a job during job creation. This is intended for use for staffing agencies where the identified company address may not correspond to the actual job location.

FEATURE

New Jobs Analytics tracking event: A new Pub/Sub event type APPLICATION_COMPANY_SUBMIT has been added for staffing agencies who submit the application on behalf of the candidate.

FIXED

400 errors while updating the same job successively: The API no longer throws 400 FAILED_PRECONDITION errors when clients send multiple update requests at the same time.

CHANGED

Improvements to error reporting capabilities: Error reporting and handling capabilities of the API have been improved. We expect no changes to the

underlying functionality, however, the error messages may have new formatting in some cases.

July 26, 2017

FEATURE

State and Nationwide Job Posting: Customers will now be able to specify certain jobs as Statewide or Nationwide, with these jobs appearing in the search results of cities within that state or country.

FEATURE

Contractor for Hire Employment Type: A new employment type, Contractor For Hire, has been introduced.

FEATURE

New Method for email alert Search: A new search API endpoint has been introduced specifically for search that provides results to be sent in job alert emails. The use of this endpoint will help improve relevance for this use case in the future.

FEATURE

Search for Jobs published in the last 3 days: A Published Date type, PAST_3_DAYS, has been introduced.

FEATURE

Improved location resolution for commute search: Commute search will now give higher relevance scoring to jobs with a specified street level address.

FIXED

Different SortBy options return different number of results: The sortBy option was previously returning a different number of results for sorting by Published Date and sorting by Title. This issue has now been resolved. The expected behavior is that sorting by all options except for sorting by relevance will have the same number of results returned.

June 13, 2017

FEATURE

Histogram by Job Category: The Histogram API now provides the option to get a histogram by Job Category.

FIXED

Resolved Internal Server Error messages: Internal server error messages have been resolved for the following cases:

- Creating a duplicated job.
- Calling the listCompanies API or the listCompanyJobsAPI with a negative page size.
- Creating a job with a negative compensationAmount, compensationAmountMin or compensationAmountMax.

FIXED Sort By Updated Date: The sortBy field on UPDATED_DATE_DESC has been fixed.

JobCategory ANIMAL_CARE: The JobCategory ANIMAL_CARE has been enhanced to better recognize related jobs.

June 01, 2017

CHANGED

CHANGED

CHANGED

FIXED

Commute Search: The ability to search for jobs by commute time is now available for initial testing. This feature is experimental and is subject to improvements and changes in future releases.

Integration Account Indexing: Integration accounts will now have instant indexing capabilities. Jobs uploaded to our database will be searchable within moments. Queries which cannot be indexed due to quota restrictions will return an exception and will have to be retried.

Pub/Sub Event Schema: Some field names in the pub/sub event schema have been modified to comply with industry-standard naming conventions. Backward compatibility support for the old fields exists, but you are encouraged to work with the Cloud Job Discovery support team to establish a migration timeline.

Pub/Sub Event Types: Specific application types are now available to record quick applies and apply redirects. If your service offers these features, consider implementing them to improve search relevancy.

Company HQ Location: The Company HQ location parameter has been changed to be an optional value. Providing this field may increase the relevance of location-based searches.

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