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Deltek GovWin®

Web Service API V3 (WSAPI) Quick
Reference

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Overview

The GovWin Web Service API (GovWin WSAPI) is a REST/JSON based web service API that allows for remote client access to GovWin's Opportunity and govEntity information. GovWin WSAPI mainly supports information retrieval; however, does support some calls that allow clients to update information in the GovWin database. These are the setMark, clearMark, and clearMarkAll calls.

GovWin WSAPI is contextless, meaning that each request has its own context. API clients retrieve information on behalf of GovWin user accounts, and OAuth2 tokens are passed as input parameters, used to grant information access rights when the GovWin API sends information back to API clients.

API Function Categories

The GovWin WSAPI supports the following API functions.

Opportunity Information Retrieval

- GovWin Opportunity information query by search parameters. The GovWin WSAPI returns a list of opportunities based on input parameters. The API response provides basic information for the matched opportunities. Several input parameters can be used together:
 - Keyword search with opportunity type and field qualifiers
 - Paging management to specify the maximum number of items to be returned, and offset of the first item
 - Choice of pre-defined sorting orders
- GovWin Opportunity information query by global GovWin Opportunity ID.
- GovWin Opportunity information query by Saved Search ID.
- Selected for download GovWin Opportunity information query.
- Bookmarked GovWin Opportunity information query
- GovWin Opportunity Extended information query by global GovWin Opportunity ID and information type. The supported information types include:
 - Place of Performance
 - FBO Notices
 - Related Documents
 - Related Articles

GovEntity Information Retrieval

- GovWin GovEntity information by GovEntity IDs.
- GovWin GovEntity information by search parameters.
 - Keyword
 - GovEntity Types
 - GovEntity hierarchy level

Company Information Retrieval

- GovWin Company information by search parameters.
 The GovWin WSAPI returns a list of companies based on input parameters. The API provides basic information for the matched companies. Several input parameters can be used together:
 - Company Profile Name (exact case-sensitive match)
 - Paging management to specify the maximum number of items to be returned, and offset of the first
 - Query by GovWin Company ID

- GovWin Company Extended Information query by GovWin Company ID.

The supported information types include:

- GSA Schedules
- Company Registrations
- Company Registered Locations
- Company Registration Contacts

OAuth2 Authentication and Token Management

- Authentication with GovWin credential, client ID, and secret. This authenticates the client to retrieve information on behalf of the credential account. Token information returned is used in all subsequent API calls.
- Token renewal in cases of token expiration. The API client is responsible for detecting token violation, including expiration, from API response code, and reestablishing the client's authentication state if a token violation happens.

API Response and GovWin Data Object Structure

The GovWin WSAPI returns data as a JSON serialized string.

List of Items and Paging, Item Counts, and Sorting

The GovWin WSAPI may return multiple data entities per API request. For example, multiple opportunities might be returned from a Get Opportunity API call with a keyword search parameter.

In cases of multiple returned items, the API allows clients to set page item counts, offset of first item, and sorting order field and type. Items are then returned as a JSON object array.

If a maximum item count is not specified, a default value of 10 is enforced. Any maximum item counts greater than 100 will trigger an error.

The response JSON object contains a “meta” object, which contains a “paging” object with the following fields:

- **max:** The page item counts enforced for this API request
- **offset:** The starting item offset (in the resulting set). Zero based.
- **sort:** The sort type
- **order:** The sort order
- **totalCount:** The number of items in the whole resulting set

For example,

```
"meta": {
  "paging": {
    "max": 10,
    "offset": 0,
    "order": "asc",
    "sort": "relevancy",
    "totalCount": 5
  }
},
```

Error and Exception Handling

The GovWin WSAPI returns information when errors or exceptions occur.

Note: See Appendix B for a full list of error messages and their descriptions.

For OAuth exceptions, an HTTP 401 Unauthorized response status is returned, and the response body contains a JSON message string:

```
{
  "error": "invalid_token",
  "error_description": "Invalid access token: <xxxxxxxxxxxxxxxxxx111111>"
}
```

For general API errors and exceptions, normally an HTTP 422 (Unprocessable Entity) status code is returned. The response body contains a JSON object with more information:

- **JSON [Object]**
 - **errors [Object Array]**
 - **logref [String]**

- **message** [String]
- **links** [Object]
 - **resource** [Object]
- **href** [String]

For example:

```
{
  "errors": [
    {
      "logref": "globalOpportunityIdListCommand.invalidGlobalId.55555",
      "message": "Property [id] with value [55555] does not match the required
        format. The id(s) must be formatted with a three character prefix followed
        by an integer value. The allowed character prefixes are [[OPP, TNS, BID,
        ALL]]. If multiple id's are allowed they must be separated by commas",
      "links": {
        "resource": {
          "href": "https://services.govwin.com/neo-ws/..."
        }
      }
    }
  ]
}
```

And:

```
{
  "errors": [
    {
      "logref": "globalOpportunityIdListCommand.noAccess",
      "message": "You do not have access to the following id(s):BID010101]]",
      "links": {
        "resource": {
          "href": "https://services.govwin.com/neo-ws/..."
        }
      }
    }
  ]
}
```

WSAPI Rate Limit Rules

Your access to WSAPI is limited to 4,000 calls per hour across your entire organization. The hour range is a moving window, covering the previous 60 minutes. If the volume of WSAPI calls from all users in your organization exceeds the limit, then all subsequent calls return a rate limit error, until sufficient time has passed for the number of calls made in the previous 60 minutes to drop below 4,000.

The total number of calls is calculated based on all types of WSAPI calls made by users, not only specific calls to retrieve opportunity summary information. For example, retrieving all available information about a single opportunity typically involves six to 12 WSAPI calls to download the opportunity summary information and all related content, such as contacts, contracts, buying organizations, and documents.

When estimating how many WSAPI calls your application is likely to consume, don't assume it to be equivalent to the number of opportunities you are likely to download. It will be a multiple of that number.

Best Practices for Using WSAPI Efficiently and Avoiding the Rate Limit Error

Consider the suggestions below to avoid the rate limit error. As you develop and test an application, experiment with different approaches to find the one that best fits your usage patterns.

- If you believe that your application call volume will exceed the threshold value, consider using throttling techniques to slow your application down. For example, insert a wait in your code prior to each WSAPI call.
- Make your application more efficient by retrieving data for only new opportunities or opportunities that have been updated in GovWin IQ since the last time you called WSAPI.

In your application's data structure, maintain the **updateDate** date-timestamp for each opportunity, so that you know the last time that an opportunity's data changed in GovWin IQ. When you make a WSAPI call to retrieve a list of new and updated opportunities, compare your stored **updateDate** with the corresponding **updateDate** for each of the opportunities on the list in the WSAPI data set. Import content for only those opportunities that have a later **updateDate** than the **updateDate** you have stored.

For example, assume that you are using the "Get Opportunity by Keyword Search and Other Parameters" call ('/neo-ws/opportunities?{searchparams}') to return new and updated opportunities based on some search criteria. Assume that you make the call once per day and have the **oppSelectionDateFrom** and **oppSelectionDateTo** parameters both set to the current day.

In the opportunity data for each opportunity returned in the result set, **updateDate** contains the date-time representing when the GovWin IQ opportunity was updated, as shown in the sample data fragment below. Compare that **updateDate** to the one that you have saved for this opportunity to determine whether or not to update this opportunity.

```
{
  "solicitationDate": {
    "deltekEstimate": "true",
    "govtEstimate": "false",
    "value": "2015-12-16T00:00:00.000"
  },
  "solicitationNumber": "6",
  "sourceURL": "http://webprod.cio.sc.gov/SCSolicitationweb/ ",
  "status": "Pre-RFP",
```

```

        "title": "MEDICAID MANAGEMENT INFORMATION SYSTEM (MMIS)",
        "type": "trackedopp",
        "updateDate": "2015-08-26T10:34:54.000"
    }

```

JSON Data Model

The GovWin WSAPI returns the following JSON data objects as JSON array elements. In most cases, a single data object is also returned in an array with one element.

GovEntity JSON Object

- **govEntity** [Object]
 - **links** [Object]
 - **spendingProfile** [Object]
 - **href** [String]
 - **children** [Object]
 - **href** [String]
 - **title** [String]
 - **id** [GovWin-ID] (This is GovWin govEntity ID)
 - **parentHierarchy** [Object Array] (Could be empty array – zero or one or multiple elements)
 - **0** [Object]
 - **Id** [GovWin-ID]
 - **title** [String]
 - **1** [Object]
 - **Id** [GovWin-ID]
 - **title** [String]
 -
 - **linked** [Object] (Field might or might not exist)
 - **govEntityParent** [govEntity Object]

For example:

```

{
  "links": {},
  "govEntities": [
    {
      "links": {
        "spendingProfile": {
          "href": "https://services.govwin.com/neo/govEntity/view/25507"
        },
        "children": {
          "href": "https://services.govwin.com/neo-ws/govEntities/25507/children"
        }
      },
      "title": "ASST SEC OF THE NAVY (RESEARCH, DEVELOPMENT AND ACQUISITION)",
      "id": 25507,
      "parentHierarchy": [
        {
          "id": "25499",

```

```

    "title": "NAVY"
  }
]
}

```

Opportunity JSON Object

- **opportunity** [Object]
 - **links** [Object]
 - **webHref** [Object]
 - **href** [String] (Ex: https://iq.govwin.com/neo/opportunity/view/123456)
 - **contacts** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/opportunities/OPP123/contacts)
 - **relatedDocuments** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/opportunities/OPP1/relatedDocuments)
 - **markedByUsers** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/opportunities/OPP12/markedByUsers)
 - **govEntity** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/govEntities/26507)
 - **placeOfPerformance** [Object]
 - **href** [String]
 - **contractVehicles** [Object]
 - **href** [String]
 - **fboNotices** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/opportunities/OPP12345/fboNotices)
 - **sourcedFrom** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo/fbo/view/12345)
 - **contracts** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/opportunities/OPP12345/contracts)
 - **modifications** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/opportunities/BID12345/modifications)
 - **milestones** [Object]
 - **href** [String] (Ex: https://services.govwin.com/neo-ws/opportunities/OPP12345/milestones)

- **relatedArticles** [*Object*]
 - **href** [*String*] (Ex: <https://services.govwin.com/neo-ws/opportunities/OPP1235/relatedArticles>) (Does not apply to Canadian Leads)
- **companies** [*Object*]
 - **href** [*String*]
 - **verticals** [*Object*]
 - **href** [*String*] (Ex: <https://services.govwin.com/neo-ws/opportunities/OPP1235/verticals>) (Does not apply to Canadian Leads)
- **additionalNaics** [*Object Array*]
 - **0** [*Object*]
 - **id** [Govwin-ID]
 - **title** [*String*] (Ex: "Development in the Physical, Engineering, and Life Sciences")
 - **sizeStandard** [*String*] (For example: "\$0.75 million annual receipts")
 - **1** [*Object*]
 - **id** [Govwin-ID]
 - **title** [*String*] (Ex: "Development in the Physical, Engineering, and Life Sciences")
 - **sizeStandard** [*String*] (For example: "\$0.75 million annual receipts")
- **assistanceTypeDescription** [*String*]
- **cfda** [*String*]
- **classificationCodeDesc** [*String*]
- **cmmcRequirements** [*String*]
- **competitionTypes** [*Object Array*]
 - **0** [*Object*]
 - **id** [Govwin-ID]
 - **title** [*String*] (Ex: "Full and Open / Unrestricted")
 - **1** [*Object*]
 - **id** [Govwin-ID]
 - **title** [*String*]
- **contractTypes** [*Object*]
 - **0** [*Object*]
 - **id** [Govwin-ID]
 - **title** [*String*]
 - **1** [*Object*]
 - **id** [Govwin-ID]
 - **title** [*String*]

- **country** [*String*] (Ex: "USA", "CAN")
- **createdDate** [*ISO-Date-Time*] (Ex: "2014-02-05T16:20:24-08:00")
- **defc** [*String*]
- **description** [*String*] (Long description)
- **duration** [*String*]
- **firstActionDate** [*ISO-Date-Time*]
- **govEntity** [*Object*]
 - **id** [GovWin-ID]
 - **title** [*String*]
- **gsin** [*Object*] (Only applies to Canadian Opportunities)
 - **id** [GovWin-ID]
 - **GSINTitle** [*String*]
 - **GSINCode** [*String*]
- **id** [GovWin-Global-Opp-ID] (Ex: BID252338)
- **internalStatus** [*String*]
- **iqOppld** [GovWin-ID] (Ex: 252338)
- **lastActionDate** [*ISO-Date-Time*]
- **lastMarkedDate** [*ISO-Date-Time*] (Ex: "2014-08-04T13:51:44-04:00")
 - This field is shown only when you use the [Get Opportunities Selected for Download](#) service.
- **leadAlertSource** [*String*]
- **oppValue** [*String*]
- **oppValueCanada** [*String*] (Only applies to Canadian Bids and Leads)
- **planPriceTx** [*String*]
- **planPriceCanadian** [*String*] (Only applies to Canadian Bids and Leads)
- **primaryNAICS** [*Object*]
 - **id** [Govwin-ID]
 - **title** [*String*] (Ex: "Development in the Physical, Engineering, and Life Sciences")
 - **sizeStandard** [*String*] (For example: "\$0.75 million annual receipts")
- **procurement** [*String*]
- **programActivity** [*String*]
- **projectId** [*String*]
- **solicitationDate** [*Object*]
 - **value** [Date-Time-String]
- **solicitationNumber** [*String*] (Ex: DHSSTLRBAA1402)
- **sourceURL** [*URL String*]

- **status** [String] (Ex: "Awarded")
- **title** [String] (Ex: "2014 DHS S&T LRBA")
- **tradeAgreement** [Object] (Only applies to Canadian Opportunities)
 - **id** [GovWin-ID]
 - **tradeAgreementTitle** [String]
- **type** [GovWin-Opp-Type-String] (Ex: trackedopp)
- **typeOfAward** [String] (example: "Task / Delivery Order")
- **updateDate** [ISO-Date-Time] (Ex: "2014-08-04T13:51:44-04:00")
- **priority** [Integer] (from 1-5)
- **isDeltekEstimate** [Integer] (This field is available only for Bids – it can have either 0 or 1 value)
- **primaryRequirement** [String] (Example: "Architecture Engineering and Construction")
- **smartTag** [String] (Example: "Products & Services > Primary Tags:Road transportation facilities construction services, Seals, Secondary Tags:Audio visual trades, Cabling services")
- **smartTagObject** [Object]
 - **id** [GovWin-ID]
 - **name** [String]
 - **type** [string]
 - **isPrimary** [integer] (1 or 0)
- **unspsc** [Object] (Only applies to Canadian Opportunities)
 - **id** [GovWin-ID]
 - **UNSPSCCode** [String]
 - **UNSPSCTitle** [string]

Place of Performance JSON Object

- **Place-of-Performance** [Object]
 - **country** [String]
 - **isPrimary** [boolean]
 - **location** [String]
 - **state** [String]

FBO Notice JSON Object

- **FBO-Notice** [Object]
 - **documentLink** [URL String]
 - **id** [GovWin ID]
 - **publicationDate** [Date-Time String]
 - **title** [String]

Related Document JSON Object

- **Related-Document** [Object]
 - **documentDownloadURL** [URL String]
 - **documentURL** [URL String]
 - **fileName** [String]
 - **fileTypeDescription** [String]
 - **id** [GovWin ID]
 - **publicationDate** [Date-Time String]
 - **sourceDescription** [String]
 - **title** [String]

Marked By Users JSON Object

- **Marked-By-Users** [Object]
 - **email** [String]
 - **firstName** [String]
 - **lastName** [String]
 - **markedVersion** [Integer]

Related Article JSON Object

- **Related-Document** [Object]
 - **documentLink** [URL String]
 - **id** [GovWin ID]
 - **publicationDate** [Date-Time String]
 - **source** [String]
 - **title** [String]

Contracts JSON Object

- **Contract** [Object]
 - **awardDate** [Date-Time String]
 - **company** [Object]
 - **id** [Govwin ID]
 - **name** [String]
 - **contractId** [String]
 - **contractNumber** [Integer]
 - **estimatedValue** [Integer]
 - **expirationDate** [Date-Time String]

- **id** [GovWin ID]
- **incumbent** [Boolean String]
- **taskOrderNumber** [String]
- **title** [String]

Milestones JSON Object

- **Milestone** [Object]
 - **deltekEstimate** [Boolean String]
 - **govtEstimate** [Boolean String]
 - **labelName** [String]
 - **mileStoneDate** [Date-Time String]

Modifications JSON Object

- **Modifications** [Object]
 - **actionDate** [Date-Time String]
 - **actionType** [String]
 - **amount** [Integer]
 - **createdDate** [Date-Time String]
 - **description** [String]
 - **lastModifiedDate** [Date-Time String]
 - **modNum** [String]
 - **projectId** [String]

Contacts JSON Object

- **Contact** [Object]
 - **links** [Object]
 - **govEntity**
 - **href** [URL String]
 - **address1** [String]
 - **address2** [String]
 - **address3** [String]
 - **city** [String]
 - **contactId** [Integer]
 - **country** [String]
 - **govEntityLevel1** [String]
 - **govEntityLevel2** [String]

- **email** [String]
- **firstName** [String]
- **lastName** [String]
- **modifiedDate** [Date-Time String]
- **phone** [String]
- **state** [String]
- **title** [String]
- **zip** [String]

Opportunity Related Companies JSON Object

- **Company** [Object]
 - **id** [Integer]
 - **name** [String]

Contract Vehicles JSON Object

- **Contract Vehicle** [Object]
 - **id** [Integer]
 - **subclasses**
 - **id** [Integer]
 - **number** [String]
 - **title** [String]
 - **title** [String]
 - **type** [String]

Verticals JSON Object

- **Vertical** [Object]
 - **isPrimary** [Boolean]
 - **program** [String]
 - **vertical** [String]

Company JSON Object

- **company** [Object]
 - **links** [Object]
 - **webHref** [Object]
 - **href** [String] (Ex: <https://iq.govwin.com/neo/companyProfile/view/11>)
 - **companyGSA** [Object]

- **href** [String] (Ex: <https://services.govwin.com/neo-ws/companies/GCP11/gsa>)
- **companyRegistration** [Object]
 - **href** [String] (Ex: <https://services.govwin.com/neo-ws/companies/GCP11/registrations>)
- **companyRegistrationContacts** [Object]
 - **href** [String] (Ex: <https://services.govwin.com/neo-ws/companies/GCP11/registrationContacts>)
- **companyReportedLocations** [Object]
 - **href** [String] (Ex: <https://services.govwin.com/neo-ws/companies/GCP11/reportedLocations>)
- **companyProfileName** [String]
- **id** [GovWin-ID] (This is GovWin company ID)
- **socioEconomicStatus** [Object]
- **numOfEmployees** [Integer]
- **revenue** [Integer]
- **fedPrimeObligationAmt** [Integer]
- **sledPurchaseOrderAmt** [Integer]
- **vrtnName** [Object]
- **primaryNAICS** [Object]
- **naics** [Object]
- **capabilities** [String]
- **address1** [String]
- **address2** [String]
- **city** [String]
- **state** [String]
- **zipCode** [String]
- **country** [String]
- **companyURL** [String]
- **orgFacilityClearance** [Object]
- **orgStaffClearance** [Object]
- **orgCertification** [Object]
- **offering** [Object]
- **govType** [Object]
- **exclusionType** [String]
- **activeDate** [String]
- **terminationDate** [String]
- **cageCode** [Object]

- **registrationUpdatedDt** [Date]
- **companyProfileUpdatedDt** [Date]
- **uei** [Object]

Company GSA JSON Object

- **companyGSA**[Object]
 - **scheduleType** [String]
 - **scheduleContractNumber** [boolean]
 - **governmentType** [String]

Company Registration JSON Object

- **companyRegistration** [Object]
 - **registrationSource** [String]
 - **registrationSourceName** [boolean]
 - **url** [String]

Company Registered Contacts JSON Object

- **companyRegistrationContacts** [Object]
 - **email** [String]
 - **name** [String]
 - **phone** [String]
 - **title** [String]

Company Reported Location JSON Object

- **companyReportedLocations** [Object]
 - **city** [String]
 - **state** [boolean]
 - **country** [String]

Authentication and Security

OAuth2 Process

The GovWin WSAPI uses OAuth2 for API authentication. Currently we support Client Credential and Refresh Token grant types. The client application acquires the **Client ID** and **Client Secret** by using the GovWin admin UI (or through the provisioning process), and uses the GovWin WSAPI's authentication API to get the access token and refresh token. Note: accounts are locked for 30 minutes after 5 failed authorization attempts. All token requests should use HTTPS POST. Do not use HTTPS GET.

Assume that you have this HTTPS API call:

```
POST https://services.govwin.com/neo-ws/oauth/token HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/x-www-form-urlencoded
Host: services.govwin.com
```

```
client_id=<client_id>&client_secret=<client_secret>&grant_type=password&username=cli
ent1%40example.com&password=password&scope=read
```

This API call will return a JSON object containing an access token, token type, refresh token, expiration duration, and scope. For example:

```
{
  "access_token": "<xxxxxxxxxxxxxxxxxxxx11111>",
  "token_type": "bearer",
  "refresh_token": "<xxxxxxxxxxxxxxxxxxxx11111>",
  "expires_in": 340978,
  "scope": "read"
}
```

A token access request should use the client ID that belongs to their own organization. Using the client ID that belongs to another organization will return an invalid client error. For example:

```
{
  "error": "invalid_client",
  "error_description": "Client ID belongs to another organization."
}
```

The client application will add an **Authorization** HTTP header and use “[token type] [access token]” as the header value for subsequent API request calls. For example:

```
GET https:// services.govwin.com /neo-ws/opportunities/OPP11856 HTTP/1.1
Accept-Encoding: gzip,deflate
Authorization: Bearer <xxxxxxxxxxxxxxxxxxxx11111>
Host: services.govwin.com
```

GovWin WSAPI will parse this header information and use the access token to match and identify the user account for information access authorization purposes.

The **expiration_in** value is the number of seconds after which the access token will expire. When the **access token** expires, the GovWin WSAPI returns the following JSON response:

```
{
  "error": "invalid_token",
  "error_description": "Invalid access token: <xxxxxxxxxxxxxxxxxxxx11111>"
}
```

The client application code is responsible for detecting this and any other authorization exceptions, and use the Token Renew (Refresh) API call to receive a new valid access token, or use the GovWin account credential to re-authenticate.

The client application stores the access token for use in subsequent API calls, with the assumption that the access token will expire and need to be refreshed.

Here is a sample token renewal request:

```
POST https://services.govwin.com/neo-ws/oauth/token HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/x-www-form-urlencoded
Host: servicesea.govwin.com

client_id=<client_id>&client_secret=<client_secret>&grant_type=refresh_token&refresh_token=ae1f3b67-a370-4eec-8e2a-5c2fab1ca724&scope=read
```

If the refresh token has expired, the client application must re-authenticate the user using the original password grant request described above.

Expiration Time for Access Token and Refresh Token

The access token is set to expire 12 hours after authentication, and the refresh token is set to expire in 30 days.

GovEntity Information Retrieval API

API Function List

Function	Purpose
GET /govEntities?{searchparams}	Retrieves a list of govEntities by search parameters
GET /govEntities	Retrieves root level govEntities
GET /govEntities/{govEntityid}	Retrieves a single govEntity by id (for example, govEntityid 1)
GET /govEntities/{govEntityid1},{govEntityid2},{govEntityid3}..{govEntityidn}	Retrieves multiple opportunities by id (max of 10)
GET /govEntities/{govEntityid}/children	Retrieves children govEntities

GovEntity Information Retrieval by Query Parameters

Search GovWin govEntity by name match and return.

- URI: /neo-ws/govEntities ?{searchparams}Default item counts is 10
- Paging information returned
- Parameters
 - **q**: Keyword to match and find GovWin GovEntities. For example, "NAVY" or "AIR+COMMAND". Name matching is case insensitive and the parameter should be properly URL-encoded.
 - **type**: govEntity type. "federal" or "sl" (for state and local)
 - **root**: Level of govEntity hierarchy. Starts from 1.
 - **sort**: Sort field (id, title)
 - **order**: Sort order (asc, desc)
- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort

- totalCount
- govEntities [Object Array]
 - govEntity object
 - govEntity object
 -
- Exceptions and errors
 - See Error and Exception Handling section

GovEntity Information Retrieval by govEntity ID(s)

Retrieve GovWin govEntity information by govEntity ID list.

- URI: /neo-ws/govEntities/id[,id2,id3,...]
- Parameters:
 - govEntity ID list: one or multiple IDs delimited by “,”
 - Need to be valid govEntity IDs, such as those returned by the Search govEntity API call
- Response
 - If successful, a JSON object containing:
 - links: empty object
 - govEntities [Object Array]
 - govEntity [Object]
 - govEntity [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Opportunity Information Retrieval API

Global ID Convention

The GovWin Global Opportunity ID is an opaque ID that can be used by API client applications to specify a GovWin opportunity. The ID could be considered long lived, although the Opportunity referenced might not.

Client applications should not attempt to parse the ID to extract information (they should treat it as an opaque ID), because the format of the ID is considered internal to GovWin IQ.

API Function List

Function	Purpose
GET /opportunities?{searchparams}	Retrieves a list of opportunities by search parameters
GET /opportunities?savedSearchId={searchid}	Retrieves a list of opportunities by saved search id
GET /opportunities/{globaloppid1},{globaloppid2},{globaloppid3}..{globaloppidn}	Retrieves one or multiple opportunities by id or id list (max of 10)
GET /opportunities/?markedVersion=[2 2.2]	Retrieves a list of this organization's opportunities selected for download via the Opportunity Add to Web Services Download or Add to Deltek CRM function
Get /opportunities/?markedOpps=true	Retrieves the authenticated user's bookmarked opportunities, regardless of (1 to 5) priority
GET /opportunities/{globaloppid}/<attribute-name>	Gets extended attribute information for the opportunity identified by the "globaloppid" parameter

Get Opportunity by Keyword Search and Other Parameters

Search and return opportunities (multiple types) by search criteria parameters. Parameters can be keywords or meta-data or combinations. All parameters will be “AND’ed” to yield the result set.

- URI: /neo-ws/opportunities?{searchparams}
- Parameters

Parameter Name	Type	Default	Allowed Values
oppType	String	ALL	<ul style="list-style-type: none"> ▪ OPP: Tracked Opp ▪ TNS: TOON ▪ BID: BID and LEAD ▪ FBO: SAM Notice ▪ OPN: Other Procurement Notice ▪ TOP: OM Opp ▪ ALL: All types
govEntityId	Integer		Integer
q	String		Maximum of 255 characters
market	String	By default, opportunities are returned for both Federal and SLED markets.	Federal: Federal opportunities SLED: State, local, and education opportunities
responseDateFrom	String		Enter a valid absolute or relative date. Valid absolute date formats are: <ul style="list-style-type: none"> ▪ MM/DD/YYYY ▪ yyyy-MM-dd ▪ yyyy-MM-ddTHH:mm:ss The valid relative date format is: Past (-24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)
responseDateTo	String		Enter a valid absolute or relative date. Valid absolute date formats are: <ul style="list-style-type: none"> ▪ MM/DD/YYYY ▪ yyyy-MM-dd ▪ yyyy-MM-ddTHH:mm:ss

Parameter Name	Type	Default	Allowed Values
			The valid relative date format is: Future (24H, 1W, 30D, 3M, 6M, 1Y, 2Y, 5Y)
solDateFrom	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Past (-24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)</p>
solDateTo	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Future (24H, 1W, 30D, 3M, 6M, 1Y, 2Y, 5Y)</p>
pAwardDateFrom	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Past (-24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)</p>
pAwardDateTo	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss

Parameter Name	Type	Default	Allowed Values
			The valid relative date format is: Future (24H, 1W, 30D, 3M, 6M, 1Y, 2Y, 5Y)
oppSelectionDateFrom	String	By default, all opportunities created or modified in the last 24 hours are selected. To retrieve all qualified opportunities, specify oppSelectionDateFrom=01/01/1900.	Enter a valid absolute or relative date. Valid absolute date formats are: <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss The valid relative date format is: Past (-5Min, -15Min, -30Min, -60Min, -4H, -6H, -12H, -24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)
oppSelectionDateTo	String	The default is today's date.	Enter a valid absolute or relative date. Valid absolute date formats are: <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss
oppCategory	Integer	2	1: New 2: New and Update
classificationCodes	String		Full or partial (begins with) search via Classification Code. Can also be a comma delimited list. (V11,1337,...)
naics	String		Full or partial (begins with) search via Classification Code. Can also be a comma delimited list. (3336,1118,...)
hasNoNaics	Boolean		true
hasNoClassificationCode	Boolean		true
hasBidTabulation	Boolean		true
hasPlanHolder	Boolean		true

Parameter Name	Type	Default	Allowed Values
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	relevancy	relevancy, title, buyingOrg, solicitationDate, value, requirement, createdAt, updatedAt
order	String	desc: for relevancy, solicitationDate, createdAt, and updatedAt asc: for title, buyingOrg, value, and requirement	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - opportunities [Object Array]
 - Opportunity object
 - Opportunity object
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity by Opportunity ID List

Retrieve GovWin Opportunities information by using the Global GovWin Opportunity ID list.

- URI: /neo-ws/opportunities/id[,id2,id3,...]
- Parameters:

- Global Opportunity ID list: one or multiple IDs delimited by “,”
- Need to be valid Global Opportunity IDs, such as those returned by the Search Opportunity API call
- Response
 - If successful, a JSON object containing:
 - links: empty object
 - opportunities[Object Array]
 - Opportunity [Object]
 - Opportunity [Object]
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity by Using Saved Search ID

Retrieve GovWin Opportunities information by using a GovWin Saved Search ID.

- URI: /neo-ws/opportunities?savedSearchId=[id]
- Parameters:

Parameter Name	Type	Default	Allowed Values
savedSearchId	Integer		<p>Enter an integer value that is the ID of a GovWin IQ Opportunity saved search that is saved by the same user that is making the API calls.</p> <p>To determine a saved search's ID, in the GovWin IQ UI, navigate to the search in the list of saved searches on the My Saved Searches page, and edit the search. The URL for the search edit page will be of this form: https://iq.govwin.com/neo/search?ss=XXXX, where XXXXX is the ID that you use here.</p> <p>Note: Opportunity Manager saved searches are also supported, if your GovWin subscriptions include Opportunity Manager.</p>
oppSelectionDateFrom	String	By default, all opportunities created or modified in the last 24 hours are selected.	<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> ▪ MM/DD/YYYY ▪ yyyy-MM-dd ▪ yyyy-MM-ddTHH:mm:ss

Parameter Name	Type	Default	Allowed Values
		To retrieve all qualified opportunities, specify oppSelectionDateFrom=01/01/1900	The valid relative date format is: Past (-5Min, -15Min, -30Min, -60Min, -4H, -6H, -12H, -24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)
oppSelectionDateTo	String	The default is today's date.	Enter a valid absolute or relative date. Valid absolute date formats are: <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss
oppCategory	Integer	2	1: New 2: New and Update
hasBidTabulation	Boolean		true
hasPlanHolder	Boolean		true
offset	Integer	0	Integer
max	Integer	10	Maximum: 100

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - totalCount
 - opportunities[Object Array]
 - Opportunity [Object]
 - Opportunity [Object]
 -
 - Exceptions and errors

- See Error and Exception Handling section

Select or Deselect Opportunities for Download

Select or deselect opportunities, for download for a single [Oppld]. These markings effect which opportunities are downloaded with the '[Get Opportunities Selected for Download](#)' calls.

- URI: /neo-ws/opportunities/[Oppld] [?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
setMark	String		2 and 2.2 . <ul style="list-style-type: none"> 2: This operation is equivalent to using the Add to Deltek CRM button (on an IQ opportunity detail page) to select that opportunity for download. 2.2: This operation is equivalent to using the Add to Web Services Download button (on an IQ opportunity detail page) to select that opportunity for download.
clearMark	String		2 and 2.2 . <ul style="list-style-type: none"> 2: This operation is equivalent to using the Remove from Deltek CRM button (on an IQ opportunity detail page) to deselect that opportunity from selection. 2.2: This operation is equivalent to using the Remove from Web Services Download button (on an IQ opportunity detail page) to deselect that opportunity from selection.
clearMarkAll	String		2 and 2.2 . <ul style="list-style-type: none"> 2: This operation is equivalent to all users with this opportunity selected, using the Remove from Deltek CRM button (on an IQ opportunity detail page) to deselect that opportunity from their selection. 2.2: This operation is equivalent to all users with this opportunity selected, using the Remove from Web Services Download button (on an IQ opportunity detail page) to deselect that opportunity from their selection.

- Response

- If successful, a JSON object containing:
 - links: empty object
 - opportunities [Object Array]
 - Opportunity object
 - Opportunity object
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunities Selected for Download

Retrieve information for GovWin opportunities that are selected for download. These are the organization's marked opportunities, selected for download via the Opportunity Add to Web Services Download function (markedVersion = 2.2) or via the Opportunity Add to Deltek CRM function (markedVersion = 2).

- URI: /neo-ws/opportunities/?markedVersion=[2|2.2]
- Parameters:

Parameter Name	Type	Default	Allowed Values
markedVersion	String		2 or 2.2 This value identifies the IQ Web Services version to which the marks apply. <ul style="list-style-type: none"> ▪ 2: This value indicates that the marks apply to IQ Web Services 2.0. ▪ 2.2: This value indicates that the marks apply to IQ Web Services 2.2 or 3.0.
oppType	String	ALL	<ul style="list-style-type: none"> ▪ OPP: Tracked Opp ▪ TNS: TOON ▪ BID: BID and LEAD ▪ FBO: SAM Notice ▪ OPN: Other Procurement Notice ▪ TOP: OM Opp ▪ ALL: All types
fromMarkedDate	String		Only include opportunities marked or updated after this date (for example, 6/7/2010 14:46:37) <ul style="list-style-type: none"> ▪ This value can be expressed as a simple date: MM/dd/yyyy

Parameter Name	Type	Default	Allowed Values
			<ul style="list-style-type: none"> This value can be expressed as a date-time: MM/dd/yyyy HH:mm:ss <p>The valid relative date format is: Past (-5Min, -15Min, -30Min, -60Min, -4H, -6H, -12H, -24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)</p>
max	Integer	10	Maximum: 100
offset	Integer	0	Integer
sort	String	id	id, title,updateDate
order	String	desc	asc, desc

- Paging parameters applied
- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - opportunities[Object Array]
 - Opportunity [Object]
 - Opportunity [Object]
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Bookmarked Opportunities

Retrieve information for bookmarked GovWin opportunities. Retrieves the authenticated user's bookmarked opportunities, regardless of (1 to 5) priority.

- URI: /neo-ws/opportunities/?markedOpps=true
- Parameters:

Parameter Name	Type	Default	Allowed Values
markedOpps	Boolean		"true" Response
oppType	String	ALL	<ul style="list-style-type: none"> ▪ OPP: Tracked Opp ▪ TNS: TOON ▪ BID: BID and LEAD ▪ FBO: SAM Notice ▪ OPN: Other Procurement Notice ▪ TOP: OM Opp ▪ ALL: All types
max	Integer	10	Maximum: 100
offset	Integer	0	Integer
sort	String	id	id, title,updateDate
order	String	desc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - opportunities[Object Array]

- Opportunity [Object]
 - Opportunity [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Extended Opportunity Information Retrieval

API Function List

Function	Purpose
GET /opportunities/[OppID]/placesOfPerformance	Retrieves Opportunity Place of Performances
GET /opportunities/[OppID]/fboNotices	Retrieves Opportunity FBO Notices
GET /opportunities/[OppID]/relatedDocuments	Retrieves Opportunity related documents
GET /opportunities/[OppID]/markedByUsers	Retrieves a list of users who have marked an Opportunity to download
GET /opportunities/[OppID]/relatedArticles	Retrieves Opportunity related articles
GET /opportunities/[OppID]/contracts	Retrieves Opportunity contracts
GET /opportunities/[OppID]/milestones	Retrieves Opportunity timeline of major milestones
GET /opportunities/[OppID]/contacts	Retrieves Opportunity contacts
GET /opportunities/[OppID]/assessments	Retrieves Opportunity assessments
GET /opportunities/[OppID]/companies	Retrieves Opportunity companies
GET /opportunities/[OppID]/contractVehicles	Retrieves Opportunity contract vehicles
GET /opportunities/[OppID]/verticals	Retrieves Opportunity verticals

Get Opportunity Places of Performance

Retrieve a GovWin Opportunity's Places of Performance information.

- URI: /neo-ws/opportunities/[Opp ID]/placesOfPerformance[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, FBO318071 for a SAM Notice, OPN23458 for other procurement notice, TOP540255 for an OM opp)
offset	Integer	0	Integer

Parameter Name	Type	Default	Allowed Values
max	Integer	10	Maximum: 100
sort	String	No default	isPrimary, country, state, location, description
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - placesOfPerformance [Object Array]
 - Place-of-Performance [Object]
 - Place-of-Performance [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity FBO Notices

Retrieve a GovWin Opportunity's FBO Notices.

- URI: /neo-ws/opportunities/[Opp ID]/fboNotices[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	publicationDate	publicationDate, title

Parameter Name	Type	Default	Allowed Values
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - documentLinks [Object Array]
 - FBO-Notice [Object]
 - FBO-Notice [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Related Documents

Retrieve a GovWin Opportunity's Related Documents.

- URI: /neo-ws/opportunities/[Opp ID]/relatedDocuments[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, FBO318071 for a SAM Notice, TOP540255 for an OM opp)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	publicationDate	publicationDate, title
order	String	asc	asc, desc

- Response

- If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - relatedDocuments [Object Array]
 - Related-Document [Object]
 - Related-Document [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity User Markings

Retrieve a list of users who have marked an Opportunity to download.

- URI: /neo-ws/opportunities/[Opp ID]/markedByUsers[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, FBO318071 for a SAM Notice, OPN23458 for other procurement notice, TOP540255 for an OM opp)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	email	email, firstName, lastName
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]

- paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - markedByUsers [Object Array]
 - Marked-By-Users [Object]
 - Marked-By-Users [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Related Articles

Retrieve a GovWin Opportunity's Related Articles.

- URI: /neo-ws/opportunities/[Opp ID]/relatedArticles[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	publicationDate	publicationDate, title
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort

- totalCount
 - documentLinks [Object Array]
 - Related-Article [Object]
 - Related-Article [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Contracts

Retrieve a GovWin Opportunity's Related Contracts.

- URI: /opportunities/[OppID]/contracts[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, OPN23458 for other procurement notice, and FBO318071 for a FBO)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	awardDate	awardDate, contractNumber
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - Contracts [Object Array]
 - Contract [Object]
 - Contract [Object]
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Assessments

Retrieve a GovWin Opportunity's Assessments.

- URI: /opportunities/[OppID]/assessments[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, and FBO318071 for a FBO)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	awardDate	awardDate, contractNumber
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - OpportunityAssessment [Object Array]
 - Assessment [Object]
 - Assessment [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Milestones

Retrieve a GovWin Opportunity's related timeline of major milestones.

- URI: /opportunities/[OppID]/milestones[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, FBO318071 for a SAM Notice, TOP540255 for an OM opp)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	mileStoneDate	mileStoneDate, labelName
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - Milestones [Object Array]
 - Milestone [Object]
 - Milestone [Object]
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Contacts

Retrieve a GovWin Opportunity's related Contacts.

- URI: /opportunities/[OppID]/contacts[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, FBO318071 for a SAM Notice, OPN23458 for other procurement notice, TOP540255 for an OM opp)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	<ul style="list-style-type: none"> ▪ For OPP: modifiedDate ▪ For BID: modifiedDate . Note that if the opportunity is a Bid Notification, then only a single contact is defined anyway. 	<ul style="list-style-type: none"> ▪ For OPP and BID: contactId, firstName, lastName, modifiedDate
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - Contacts [Object Array]

- Contact [Object]
 - Contact [Object]
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Companies

Retrieve a GovWin Opportunity's related Companies.

- URI: /opportunities/[OppID]/companies[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, and FBO318071 for a FBO)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	id	id, name
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - Companies [Object Array]
 - Company [Object]
 - Company [Object]
 -
 - Exceptions and errors

- See Error and Exception Handling section

Get Opportunity Contract Vehicles

Retrieve a GovWin Opportunity's related Companies.

- URI: /opportunities/[OppID]/contractvehicles[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, TNS37396 for TOONS, BID226087 for a Bid or Lead, FBO318071 for a SAM Notice, OPN23458 for other procurement notice, TOP540255 for an OM opp)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	No default	title, type
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - contractVehicles [Object Array]
 - contractVehicle [Object]
 - contractVehicle [Object]
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Opportunity Verticals

Retrieve a GovWin Opportunity's related Verticals (only for tracked opp, bid, and lead).

- URI: /opportunities/[OppID]/verticals[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Global Opportunity ID in URL	String		GovWin-Global-Opp-ID (for example, OPP78089 for tracked opp, BID226087 for a Bid or Lead)
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	vertical	vertical, program
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - Verticals [Object Array]
 - Vertical [Object]
 - Vertical [Object]
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Company Information Retrieval API

API Function List

Function	Purpose
GET /companies?{searchparams}	Retrieves a list of companies by search parameters
GET /companies	Retrieves all companies
GET /companies/{companyId}	Retrieves a single company by id (for example, company 1)
GET /companies/{companyId1},{ companyId2}, {companyId3},{ companyId4}	Retrieves multiple companies by id (max of 10)
GET /companies/{ companyId }/registrations	Retrieves registration data by company
GET /companies/{ companyId }/reportedLocations	Retrieves reported locations by company

Company Information Retrieval by Query Parameters

Search GovWin company by name match and return.

- URI: /neo-ws/companies?{searchparams} Default item counts is 10
- Paging information returned
- Parameters
 - **companyProfileName**: Exact name match for the company (case sensitive)
 - **root**: Level of govEntity hierarchy. Starts from 1.
 - **sort**: Sort field (id, title)
 - **order**: Sort order (asc, desc)
 - **searchAfter**: This is an encrypted field that can be used in place of the offset paging parameter to page through record sets larger than 10,000 records.
- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - searchAfter

- sort
- totalCount
- companies [Object Array]
 - company object
 - company object
 -
- Exceptions and errors
 - See Error and Exception Handling section

Get Company GSA Schedule

Retrieve a GovWin Company's GSA Schedule information.

- URI: /companies/[CompanyId]/gsa[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Company ID in URL	String		GCP1
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	scheduleType	scheduleType
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - companyGSAs [Object Array]
 - companyGSA object
 - companyGSA object
 -

- Exceptions and errors
 - See Error and Exception Handling section

Get Company Registrations

Retrieve a GovWin Company's registrations.

- URI: /companies/[CompanyId]/registrations[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Company ID in URL	String		GCP1
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	registrationSourceName	registrationSourceName, url
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - companyRegistrations [Object Array]
 - companyRegistration object
 - companyRegistration object
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Company Registered Contacts

Retrieve a GovWin Company's registered contacts.

- URI: /companies/[CompanyId]/registeredContacts[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Company ID in URL	String		GCP1
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String	name	name, phone, email
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - companyRegisteredContacts [Object Array]
 - companyRegisteredContact object
 - companyRegisteredContact object
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Company Reported Locations

Retrieve a GovWin Company's registrations.

- URI: /companies/[CompanyId]/reportedLocations[?parameter list]
- Parameters:

Parameter Name	Type	Default	Allowed Values
Embedded Company ID in URL	String		GCP1

Parameter Name	Type	Default	Allowed Values
offset	Integer	0	Integer
max	Integer	10	Maximum: 100
sort	String		city, state, country
order	String	asc	asc, desc

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - sort
 - totalCount
 - companyReportedLocations [Object Array]
 - companyReportedLocation object
 - companyReportedLocation object
 -
 - Exceptions and errors
 - See Error and Exception Handling section

Get Company by Search Parameters

Search and return companies by search criteria parameters. Parameters can be keywords or meta-data or combinations. All parameters will be “AND’ed” to yield the result set.

lastUpdateDateFrom / lastUpdateDateTo parameters relate to the date a GovWin Company Profile is updated, from a variety of sources, including Company self-reported.

registrationUpdatedDateFrom / registrationUpdatedDateTo parameters relate to the date a GovWin Company Profile is updated, from one these sources: SAM or Dynamic Small Business Search or VetBiz.

- URI: /neo-ws/companies?{searchparams}
- Parameters

Parameter Name	Type	Default	Allowed Values
companyProfileName	String		Exact case-sensitive match
naics	Integer		Ex. 541330 – Engineering Services
dunsNumber	Integer		
uei	String		Exact case-sensitive match
lastUpdateDateFrom	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Past (-24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)</p>
lastUpdateDateTo	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Future (24H, 1W, 30D, 3M, 6M, 1Y, 2Y, 5Y)</p>
graduationDate8Afrom	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Past (-24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)</p>

Parameter Name	Type	Default	Allowed Values
graduationDate8Ato	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Future (24H, 1W, 30D, 3M, 6M, 1Y, 2Y, 5Y)</p>
registrationUpdatedDate From	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Past (-24H, -1W, -30D, -3M, -6M, -1Y, -2Y, -5Y)</p>
registrationUpdatedDate To	String		<p>Enter a valid absolute or relative date.</p> <p>Valid absolute date formats are:</p> <ul style="list-style-type: none"> MM/DD/YYYY yyyy-MM-dd yyyy-MM-ddTHH:mm:ss <p>The valid relative date format is: Future (24H, 1W, 30D, 3M, 6M, 1Y, 2Y, 5Y)</p>
socioEconomicStatus	String		
cageCode	String		
offset	Integer	0	Integer
max	Integer	10	Maximum: 100

Parameter Name	Type	Default	Allowed Values
sort	String	companyProfile Name	companyProfileName
order	String	asc	asc, desc
searchAfter	String		The searchAfter value is provided in the paging object response.

- Response
 - If successful, a JSON object containing:
 - links: empty object
 - meta [Object]
 - paging [Object] (response paging information)
 - max
 - offset
 - order
 - searchAfter
 - sort
 - totalCount
 - companies [Object Array]
 - Company object
 - Company object
 -
- Exceptions and errors
 - See Error and Exception Handling section

Appendix A: Glossary of Terms

Term	Description
acronym	The program acronym for the opportunity.
awardDate	This field contains the Opportunity Award date (the date that the contract is awarded), which applies to tracked opportunities. It includes an attribute to indicate if the date is a Deltek or government estimate.
pAwardDateFrom	This parameter supplies an Opportunity Award start date for searching opportunities. If you supply a pAwardDateFrom date, a pAwardDateTo date is optional. This parameter applies to searching for tracked opportunities.
pAwardDateTo	This parameter supplies an Opportunity Award end date for searching opportunities. If you supply a pAwardDateTo date, a pAwardDateFrom date is optional. This parameter applies to searching for tracked opportunities.
Bookmarked Opportunity	This field indicates that an opportunity has been bookmarked by the user who is running the WSAPI. (The opportunity has a 1 to 5 priority assigned.) It applies to all opportunity types.
classificationCode	The parameter is used for searching Opportunities by Classification Code which is used by SAM Procurement Notices. This parameter searches via a begins-with type search and can also handle multiple values via a comma delimited list.
classificationCodeDesc	The field indicates the Classification Code for a given Opportunity. Note: Only SAM Procurement Notices will have this value present.
cmmcRequirements	The DoD's Cybersecurity Maturity Model Certification has created a new set of Cybersecurity regulations for defense contractors. The changes, prompted by the theft of critical defense technology, mean that companies doing business with the Department of Defense (DoD) will need third-party certification of their compliance with heightened cybersecurity standards. Where appropriate, GovWin IQ tracked Opportunities emanating from the DoD, will carry a CMMC requirement. This certification requirement may be expressed as a series of levels (level 1 through level 5) but the levels may not be fully defined for Pre-RFP stage opportunities. Hence we have elected to use a text field for GovWin IQ federal analysts to define CMMC Requirements which will allow for a more flexible definition, if the actual levels are not yet known.
Company	The Company JSON record contains information for a specific company.
Company Name	This field contains the name of a given company.

Term	Description
competitionType	This field contains the competition type, based on socioeconomic factors, that applies to an opportunity. It applies to federal tracked opportunities, TOONS, SAM procurement notices, Bid Notifications, and Opportunity Manager opportunities.
contractType	This field contains the government contract pricing type for a federal opportunity. It applies to federal tracked opportunities and TOONS.
Contract Vehicle	This field contains the contract vehicle (contract under which task orders are released) that applies to a federal tracked opportunity that has a Type of Award of Task/Delivery Order , or a TOON or OM opportunity.
Contacts	<p>The Contacts JSON record contains the key government contacts related to an opportunity.</p> <ul style="list-style-type: none"> For tracked opportunities, bid notifications, lead alerts, SAM procurement notices, and Opportunity Manager opportunities, the Contact record will contain fielded data. For TOONS, the Contact record will be a single BLOB of data, called primaryContact, which has arbitrary content.
createdDate	The date-time indicating when the opportunity was created.
Description	This field contains a description of the opportunity, which applies to all opportunity types. This field may contain HTML.
Duration	This field contains the base duration of the contract, plus any options. It applies to tracked opportunities, TOONS, and Opportunity Manager opportunities.
estimatedValue	The government anticipated value, in thousands of dollars, of the base contract and all options. This value is returned in the Contracts object.
fboNotices	This field contains procurement opportunity announcements posted on FedBizOpps.gov. These announcements are attached to federal tracked opportunities.
govEntity	<p>This field contains the level of the GovWin IQ hierarchy of federal or state and local governments. For federal governments, the levels are department, agency, office, division. For state and local governments, the levels are state and type, with two lower levels that are variable, depending on the type.</p> <p>The government represented may be either the buying organization (funding agency) or contracting organization (agency responsible for the procurement), depending on the context.</p>
Incumbent	An incumbent contractor is the prime vendor awarded a contract. An incumbent contract is the contract held by the incumbent contractor.

Term	Description
internalStatus	This field contains an indicator of the opportunity's current position in your organization's business development lifecycle. It applies only to Opportunity Manager opportunities.
Milestones	This field contains the procurement milestone dates, such as the award, response, or solicitation date, assigned to the opportunity.
naics	The parameter is used for searching Opportunities by Classification Code which is used by SAM Procurement Notices and Federal Tracked Opportunities. This parameter searches via a begins-with type search and can also handle multiple values via a comma delimited list.
Number of Employees	This field contains the number of employees for a given company, as self-reported on their GovWin Company Profile.
OAuth2	OAuth 2.0 is the second generation of the OAuth protocol, which is an open standard for authorizing web applications.
opportunity	See the Type definition for a description of supported GovWin IQ opportunity types.
oppSelectionDateFrom	<p>This parameter supplies a "from" date for searching opportunities. The date is based on the Opportunity create date or update date, in the context of a search for "new" or "new and updated" opportunities. If you supply a "from" date, a "to" date is optional. If a "to" date is not supplied, today's date is used. This parameter applies to searching for all types of opportunities.</p> <p>By default, this parameter returns opportunities created or modified in the last 24 hours. Specify oppSelectionDateFrom=01/01/1900 to retrieve all qualified opportunities.</p>
oppSelectionDateTo	This parameter supplies a "to" date for searching opportunities. The date is based on the Opportunity create date or update date, in the context of a search for "new" or "new and updated" opportunities. If you supply a "to" date, a "from" date is required. This parameter applies to searching for all types of opportunities.
oppValue	This field contains the estimated opportunity value, in thousands of dollars, for the total contract duration (assuming that all options are exercised). It applies to tracked opportunities, bid notifications, lead alerts, and Opportunity Manager opportunities.
Place of Performance	This field contains the location where the work associated with the opportunity will be performed. It applies to tracked opportunities and Opportunity Manager opportunities.
primaryNAICS	This field contains the primary NAICS assigned to the opportunity. The NAICS (North American Industrial Classification System) is used to classify business establishments. It applies to tracked opportunities and Opportunity Manager opportunities.

Term	Description
primaryRequirement	The main requirement in a federal or state and local procurement. This is assigned by Deltek analysts to GovWin IQ tracked opportunities, bid notifications, and lead alerts.
procurement	This field contains Deltek analyst notes assigned to an opportunity. In GovWin IQ and Opportunity Manager, the field has different names, depending on the opportunity type: <ul style="list-style-type: none"> For tracked opportunities: Analyst Updates For lead alerts: Analyst Notes For TOONS opportunities: Government Updates For Opportunity Manager opportunities: Revision History
q	This parameter supplies keyword search values to be searched for. It applies to searching for all types of opportunities.
Related Articles	This field contains the articles related to an opportunity, identified by the URLs where the articles are located. It applies to tracked opportunities.
Related Documents	This field contains the documents related to an opportunity, identified by the URLs where the documents are located. It applies to all opportunity types.
responseDate	This field contains the Opportunity Response date (the date by which a response to the solicitation is required). It applies to state and local bid notifications, state and local lead alerts, TOONS, and Opportunity Manager opportunities.
responseDateFrom	This parameter supplies an Opportunity Response start date for searching opportunities. If you supply a responseDateFrom date, a responseDateTo date is optional. This parameter applies to searching for TOONS, bid notifications, and lead alerts.
responseDateTo	This parameter supplies an Opportunity Response end date for searching opportunities. If you supply a responseDateTo date, a responseDateFrom date is optional. This parameter applies to searching for TOONS, bid notifications, and lead alerts.
Revenue	This field contains the annual revenue in \$K for a given company, as self-reported on their GovWin Company Profile.
Saved Search	This field contains the Saved Search ID of a GovWin IQ IntelliSearch or Opportunity Manager opportunity saved search, defined by the user making the API calls. It may be referenced in an API search call.
sizeStandard	The NAICS size standard is the largest size that a vendor can be and still qualify as a small business for federal government programs. It is generally expressed in either millions of dollars of revenue or in the total number of employees.

Term	Description
Socio-Economic Status	Socioeconomic designations applied by agencies to limit competition on certain contracts to qualified small businesses.
solicitationDate	This field contains the Opportunity Solicitation Release date (the date the solicitation is released), which applies to all opportunity types. It includes an attribute to indicate if the date is a Deltek or government estimate.
solicitationDateFrom	This parameter supplies an Opportunity Solicitation start date for searching opportunities. If you supply a solicitationDateFrom date, a solicitationDateTo date is optional. This parameter applies to searching for all types of opportunities.
solicitationDateTo	This parameter supplies an Opportunity Solicitation end date for searching opportunities. If you supply a solicitationDateTo date, a solicitationDateFrom date is optional. This parameter applies to searching for all types of opportunities.
solicitationNumber	This field contains solicitation numbers that help identify an opportunity, including Pre-Solicitation, Sources Sought, or Market Survey numbers. Solicitation numbers may contain hyphens. However, if you plan to search for opportunities by solicitation number, it is safer not to use hyphens. This field applies to all opportunity types.
sourceURL	The URL of the source government web page for the opportunity.
status	This field contains the Opportunity Acquisition Status of the opportunity. It applies to all opportunity types.
title	This field contains the Opportunity Title of the opportunity. It applies to all opportunity types.
type	<p>This field contains the Opportunity Type of the opportunity.</p> <p>Available opportunity types vary, depending on your organization's GovWin IQ and Opportunity Manager product subscriptions. You may not have access to all opportunity types listed here.</p> <p>Opportunity types are:</p> <ul style="list-style-type: none"> ▪ Tracked opportunities: These opportunities are for federal, state, and local markets. They are technology or AEC-related opportunities that are programmatic in nature, large in scope, have an extended planning/procurement cycle, and are typically identified by Deltek in the forecast pre-RFP or pre-RFP phase of procurement. <ul style="list-style-type: none"> ▪ Global Opp Identifier: OPP ▪ Task order opportunities (TOONS): Task order opportunities are opportunities arising from a contract that does not procure or specify a firm quantity of services and that provides for the issuance of orders for the performance of tasks during the period of the contract. If your organization is competing for task orders, the TOONS service

Appendix A: Glossary of Terms

Term	Description
	<p>provides you with access to the contract vehicles that you enable for IQ access.</p> <ul style="list-style-type: none"> Global Opp Identifier: TNS Bid notifications: These opportunities are for state and local markets. They are technology and AEC bids collected from procurement web sites across the US. <ul style="list-style-type: none"> Global Opp Identifier: BID Lead alerts: These are state and local technology and AEC lead alerts collected from procurement web sites across the US. <ul style="list-style-type: none"> Global Opp Identifier: BID Opportunity Manager opportunities: These are opportunities that you populate in your Opportunity Manager network. <ul style="list-style-type: none"> Global Opp Identifier: TOP SAM Notices: Federal opportunities sourced from beta.SAM.gov <ul style="list-style-type: none"> Global Opp Identifier: FBO Other Procurement Notices: Federal opportunities sourced from other procurement platforms. Example: APFS (Acquisition Planning Forecast System) <ul style="list-style-type: none"> Global Opp Identifier: OPN
typeOfAward	The government defined contract type, often an acronym that specifies the restricted or open nature of the contract in terms of how and whether it is awarded to a restricted set of prime vendors.
Uei	The unique identifier assigned to a company by the System for Award Management (SAM.gov)
value	An estimated value defined as the maximum value/ceiling value of the opportunity over the total contract duration, specified in thousands of dollars.
vertical	This field contains vertical markets, which are markets specific to an industry. This applies to State and Local opportunities.
updateDate	The date-time of the most recent IQ analyst update to the opportunity.

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
HTTP 401	Invalid token	Invalid access token: [param]	Any	Applies to OAuth exceptions.
HTTP 403	Too many requests in given time period	You have exceeded the number of requests allowed in a given time period for your organization.	Any	See the WSAPI Rate Limit Rules section for a detailed description.
HTTP 403	Account is on hold.	No Data Returned. Account on hold. Please contact your Deltek Client Success Manager for assistance.	Any	
HTTP 403	Invalid subscription	Access to this resource is forbidden. Check if this GovWin IQ user account has the required, non-expired product subscriptions and is correctly configured for Web service access.	Any	
HTTP 404	Resource does not exist	The resource requested was not found.	Any	Usually related to typographical errors in URLs.
HTTP 415	Invalid Content-Type header	The Content-Type header specified for the request is invalid. Please do not specify a Content-Type with your requests as it will be auto-negotiated. If absolutely necessary, [application/vnd.api+json] may be used.	Any	The API is all GET requests. There should be no reason to specify a Content-Type header as the body of the request should be empty.

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
HTTP 422	Permission denied	Access to this resource is forbidden.	Any	
HTTP 422	Invalid list format	Property [param] with value [param] does not match the required format. The id(s) must be integer values. If multiple ids are allowed, they must be separated by commas.	Any	Check for properly formatted comma separated list.
HTTP 422	Invalid offset	Property [offset] with value [param] is less than minimum value [param].	Paging (paging calls are those where the result set is returned one page of data at a time)	
HTTP 422	Maximum offset	Property [offset] value is too large for the system to process. The offset [offset] + max [max] = [total] exceeds the system limit of [systemLimit]. Due to negative impacts on performance, you may need to alter your queries to return smaller or more concise data sets to parse.	Paging (paging calls are those where the result set is returned one page of data at a time)	Currently the [systemLimit] is set to 10,000
HTTP 422	Invalid range	Property [max] with value [param] does not fall within the valid range from [param] to [param].	Paging (paging calls are those where the result set is returned one page of data at a time)	
HTTP 422	Invalid sort column	Property [param] with value [param] is not contained within the list [param].	Paging (paging calls are those where the result set is returned one page of data at a time)	

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
HTTP 422	Invalid Opportunity ID format	Property [param] with value [param] does not match the required format. The id(s) must be formatted with a three character prefix followed by an integer value. The allowed character prefixes are [param]. If multiple ids are allowed, they must be separated by commas.	Opportunity List	
HTTP 422	Permission denied	You do not have access to the following id(s): [param]	Opportunity List Company List	Check your GovWin IQ subscriptions with your Deltek CSM; WSAPI access is only permitted to GovWin IQ content for which you have a valid, active subscription.
HTTP 422	Too many ids specified	Property [param] with value [param] exceeds the maximum number of elements allowed to be passed, which is [param].	Opportunity List Company List	
HTTP 422	Invalid Marking Parameters	The [markedOpps, markedVersion, setMark, clearMark, clearMarkAll] parameters are exclusive operations. Only one of these parameters may be specified per request.	Select or Deselect Opportunities for Download	Should only happen when you specify both setMark and clearMark (or clearMarkAll) since you can't do both at once
HTTP 422	Invalid value	Property [param] with value [param]	Marked Version	

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
		is not contained within the list [param].		
HTTP 422	Invalid value	Property [param] with value [param] must be set to true if defined.	Marked Opps Marked Companies	
HTTP 422	Invalid opportunity type	Property [param] with value [param] is not a valid Opportunity Type. Valid Opportunity types are: [param].	Search with parameters	
HTTP 422	Invalid government entity id	Property [param] with value [param] is not valid. Only a numeric value is allowed in [param].	Search with parameters	
HTTP 422	Invalid page number	Property [param] with value [param] is not valid. Only a numeric value is allowed in [param].	Search with parameters	
HTTP 422	Invalid page size	Property [param] with value [param] is not valid. Only a numeric value is allowed in [param].	Search with parameters	
HTTP 422	Invalid max page size	Property [param] with value [param] is greater than the allowed maximum value [param].	Search with parameters	
HTTP 422	Invalid response from date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid past relative date option.	Search with parameters	

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
HTTP 422	Invalid response from date value	Property [param] with value [param] is not valid as value [param] supplied in [param].	Search with parameters	
HTTP 422	Invalid response to date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid future relative date option.	Search with parameters	
HTTP 422	Invalid response to date value	Property [param] with value [param] is not valid as value [param] supplied in [param].	Search with parameters	
HTTP 422	Invalid solicitation from date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid past relative date option.	Search with parameters	
HTTP 422	Invalid solicitation from date value	Property [param] with value [param] is not valid as value [param] supplied in [param].	Search with parameters	
HTTP 422	Invalid solicitation to date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid future relative date option.	Search with parameters	

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
HTTP 422	Invalid solicitation to date value	Property [param] with value [param] is not valid as value [param] supplied in [param].	Search with parameters	
HTTP 422	Invalid award from date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid past relative date option.	Search with parameters	
HTTP 422	Invalid award from date value	Property [param] with value [param] is not valid as value [param] supplied in [param].	Search with parameters	
HTTP 422	Invalid Award To Date Format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid future relative date option.	Search with parameters	
HTTP 422	Invalid award to date value	Property [param] with value [param] is not valid as value [param] supplied in [param].	Search with parameters	
HTTP 422	Invalid opp selection from date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid past relative date option.	Search with parameters	

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
HTTP 422	Invalid opp selection to date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid past relative date option.	Search with parameters	
HTTP 422	Missing opp selection from date	Property [param] with value [param] is not valid as oppSelectionDateFrom not provided.	Search with parameters	The specified parameter may only be included in combination with the oppSelectionDateFrom parameter.
HTTP 422	Invalid saved search ID	Property [param] with value [param] is not valid. Only positive numeric value is allowed in [param].	Search with saved search	
HTTP 422	Invalid opp selection date format	Property [param] with value [param] is not a valid date or not a valid relative date option. Dates should be in the format [mm/dd/yyyy] or a valid past relative date option.	Search with saved search	
HTTP 422	Invalid saved search type	Property [param] with value [param] is not related to Opportunities Saved Search.	Search with saved search	
HTTP 422	Permission denied	Execute access denied to User [param] for Property [param] with value [param].	Search with saved search	
HTTP 422	Contact not found	Contact information of [param] with	Search with saved search	

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
		value [param] not found.		
HTTP 422	Saved search not found	[savedSearchId] with value [param] not found.	Search with saved search	You will also receive this message if you supply an ID of a saved search defined by a user that is not the user making the API call.
HTTP 422	Permission denied for paid document	The document you are trying to download: [param] is a paid document for which you do not have access. It therefore cannot be downloaded via the web service API. You will need to access the full site to purchase and download this document.	Opportunity Document download	
HTTP 422	Document is not related to specified opportunity	The document you have specified: [param], does not correspond to the opportunity you have specified: [param].	Opportunity Document download	
HTTP 422	Invalid Parameters	The following params: [params], are not valid in this context and therefore have no effect. Please remove these additional params and try your request again. Please reference the API documentation for more details.	Any	Certain parameters have no effect under certain contexts. Each section of this API document has a listing of which parameters are allowed under each contexts. If you specify anything outside of those parameters, you will get this error. You will also get this error if you

Appendix B: Error Messages

Error Status	Error	Error Description	WSAPI Call(s)	Notes
				include params that are not documented in the API. These params are also case-sensitive.
HTTP 500	Default error code	An error occurred. Please contact the development team for further assistance.	Any	
HTTP 422	Invalid Company ID format	Property [param] with value [param] does not match the required format. The ID(s) must be formatted with a three-character prefix followed by an integer value. The allowed character prefixes are [param]. If multiple IDs are allowed, they must be separated by commas.	Company List	

Appendix C: Field Map

Field Name	Parent Object	Child Object	Max Field Length
Links	links	webHref	varchar(500)
		contacts	varchar(500)
		relatedDocuments	varchar(500)
		govEntity	varchar(500)
		fboNotices	varchar(500)
		contracts	varchar(500)
		milestones	varchar(500)
		companies	varchar(500)
		relatedArticles	varchar(500)
		placeOfPerformance	varchar(500)
		contractVehicles	varchar(500)
		verticals	varchar(500)
		companyGSA	varchar(500)
		companyRegistration	varchar(500)
		companyRegistrationCo ntacts	varchar(500)
		companyReportedLocati ons	varchar(500)
Primary NAICs	primaryNAICS		Text
Acronym	acronym		varchar(20)
Active Date	activeDate		Date
Address (First Line)	address1		varchar(150)
Address (Second Line)	address2		varchar(150)
Address (Third Line)	address3		varchar(150)
Award Date	awardDate	delttekEstimate	Boolean

Appendix C: Field Map

Field Name	Parent Object	Child Object	Max Field Length
		govEstimate	Boolean
		value	Date
Cage Code	cageCode		Text
Capabilities	capabilities		Text
Company Name	companyProfileName		varchar(255)
Company URL	companyURL		varchar(200)
Competition Types	competitionTypes	id	Integer
		title	varchar(100)
City	city		varchar(50)
Contract Types	contractTypes	id	Integer
		title	varchar(150)
Country	country		varchar(50)
Description	description		Text
Duration	duration		varchar(300)
Federal Prime Obligation Amount	fedPrimeObligationAmt		Integer
Exclusion Type	exclusionTypeTx		varchar(200)
Gov Entity	govEntity	id	Integer
		title	varchar(150)
Gov Type	govType		varchar(500)
ID	id		Integer
Internal Status	internalStatus		varchar(100)
IQ Opp Id	iqOppId		Integer
Delttek Estimate	isDelttekEstimate		Integer
NAICS	naics		Text
Opp Value	oppValue		Integer

Appendix C: Field Map

Field Name	Parent Object	Child Object	Max Field Length
Org Certification	orgCertification		Text
Org Facility Clearance	orgFacilityClearance		Text
Org Staff Clearance	orgStaffClearance		Text
Partner Response Date	partnerResponseDate		Date
Primary Requirement	primaryRequirement		150 chars
Procurement	procurement		Text
Response Date	responseDate		Date
Revenue	revenue		Integer
Small Business NAICS	smallBusNaics		Text
Socioeconomic Status	socioEconomicStatus		Text
Solicitation Date	solicitationDate	deltekEstimate	Boolean
		govEstimate	Boolean
		value	Date
Solicitation Number	solicitationNumber		varchar(255)
Source URL	sourceURL		varchar(1024)
Status	status		100 chars
Termination Date	terminationDateTx		Date
Title	title		varchar(500)
Type	type		10 chars
Type of Award	typeOfAward		255 chars
Update Date	updateDate		Date
Vertical Name	vertclName		Text
Zip Code	zip		varchar(15)



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