

**CIQ Technology Services Specification**  
**Investment Criteria**  
**Version 1.0**

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## CIQ Technology Services Specification: Investment Criteria

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### Application Framework

The primary technology for this solution is XML Web Services (SOAP). Capital IQ hosts an API that responds to XML requests according to this API, and returns XML structured data in response. These XML requests are encrypted via the standard HTTPS protocol.

A secondary technology for this solution is the integration of CIQ DataFeeds on client database tier. This allows for reduced network traffic for common items that change infrequently.

Capital IQ hosts this data on Windows-based servers, powered by Microsoft SQL Server in an active-passive failover cluster configuration. Data is stored in multiple fully redundant EMC Storage Area Networks (SANs). The servers that run the platform are hosted at Quality Technology Services with a disaster recovery site at XO. At all levels, these environments are redundant, fault tolerant, and backed up to industry standards.

Web Services Description Language (WSDL) documents describe the detailed Services & Ports (Function Calls) available in this specification. See <http://www.w3.org/TR/wsdl> for more on WSDL.

Please note that all Web Service and WSDL URLs in this document are subject to change based on changing infrastructure requirements. CIQ will provide sufficient advanced notice to the client before changing any URL, hostname, IP address, etc. It is recommended that these URLs be configurable (via config files, etc.) on the client application so that changes can be handled with minimal user downtime. CIQ monitors activity on Production systems and may shut down improper-use processes or user accounts as required to preserve overall system health.

All Web Services requests and responses in this solution are encoded in the UTF-8 character set (<http://en.wikipedia.org/wiki/UTF-8>). Some string data in this solution is expected to only contain Windows-1252 characters (<http://en.wikipedia.org/wiki/Windows-1252>); these are labeled with "(w1252)" in this document. Other string data in this solution allows full UTF-8 characters; these are labeled with "(UTF-8)" in this document. Email addresses (labeled "(email)" in this document) and website URLs (labeled "(URL)" in this document) have more limited valid character sets. See [http://en.wikipedia.org/wiki/Email\\_address](http://en.wikipedia.org/wiki/Email_address) and <http://en.wikipedia.org/wiki/URL> for more information.

All the web services have a WSDL definition that external developers will code against and pull in data that is served from the same Capital IQ data repository as our web platform. For a full menu of our Web Services and implementation documentation, please contact your account manager.

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### Web Service Versioning

**Versioning Web Services:** Over time, Capital IQ may need to extend the tags or datasets supported by our Web services. As a result, we have created a URL based versioning solution that provides a scalable framework for the future. Versioning provides a way for to accommodate these enhancements in a graceful manner.

**Recommendation:** Capital IQ recommends that all users upgrade to version 1.0 if they are using legacy services, to conform to the new URL formats.

**How versioning works:** Please note in the example below `<ServiceName.asmx>` is replaced with the name of the service and is used for illustration purposes only.

- i. Web Service changes are captured as a new version of the file in a new directory.
  - a. **Version 1** - <https://api.capitaliq.com/ciqdotnet/api/1.0/<ServiceName.asmx>> - Represents the first release of the service
  - b. **Version 2** - <https://api.capitaliq.com/ciqdotnet/api/2.0/<ServiceName.asmx>> - Represents the second release and breaking change or significant enhancement.
  - c. Clients have the ability to transition to the new version of the service or stay on the original version until they can transition older code.
- ii. Latest version of the Service will be located at the following URL.  
<https://api.capitaliq.com/ciqdotnet/api/current/<ServiceName.asmx>>. Using the example in section i above  
<https://api.capitaliq.com/ciqdotnet/api/2.0/<ServiceName.asmx>> would be in its own directory and referenced in the current directory.

### Service Changes

#### Investment Criteria

Service	Version	Comments
URL	Current	<a href="https://api.capitaliq.com/api/current/InvestmentCriteria.asmx?WSDL">https://api.capitaliq.com/api/current/InvestmentCriteria.asmx?WSDL</a>
URL	1.0	<a href="https://api.capitaliq.com/api/1.0/InvestmentCriteria.asmx?WSDL">https://api.capitaliq.com/api/1.0/InvestmentCriteria.asmx?WSDL</a>

  

Release	Version	Comments
06/2008	1.0/Current	Updated to conform to Capital IQ new versioning criteria

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### Investment Criteria

#### Summary

The GetInvestmentCriteria Web Service allows the client application to return the Geography of Interest, Industries of Interest, CompanyBiteSize and stages of Interest based on the input of an array of CompanyId's

Not all companies have data to support this service; the client application and use the Company Resolution to look up companies or the CompanyTypeID on GetCompanyInfo to narrow the universe of potential companies that match. Some of the sample company types that fall into this group are but not limited to Private Investment Firm, Public Investment Firms and Corporate Investment Arm.

This data is collected and owned by CIQ. Therefore no 3<sup>rd</sup> party licenses are required. However, the data returned in this section would require the client to purchase a separate license

#### Investment Criteria Data Ports (Functions):

```
InvestmentCriteriaDetails() GetInvestmentCriteria(Integer CompanyId());
```

#### Parameters:

1. An Array of Integer **CompanyID** () – A unique identifier for a single company in the CapitalIQ database  
**Input** [Required], [Multiple].

#### Comments:

1. **Client Note Performance:** For performance reasons the maximum number of CompanyId in an array for input will be limited to 50 companies per call. Download restrictions are subject to change, to account for server and client performance considerations.
2. **Client Note Data :** Investment criteria is primarily available for Investment Firms and Investment Arms focused on private equity and venture capital investing, and may be limited or unavailable for other entities.

Name
Public Investment Firm
Private Investment Firm
Public Company
Private Company
Corporate VC
Financial Service VC
Investment Group

#### Exceptions:

1. Exception thrown if the request cannot be authenticated via a session cookie.
2. Exception thrown if the account is not configured on the CIQ with the proper web service authorization.
3. If the number of CompanyId's provided by the client application as input exceeds 1000 companies.

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### Returns:

1. An Array of **InvestmentCriteriaDetails** ( ) Objects – each containing Industry, Geography, Stage of Interest and Company Bite Size information about a single CompanyId .

#### **InvestmentCriteriaDetail ()**

##### Attributes:

- a. Integer **CompanyId** – CIQ Company ID of the company to which the financial data pertains.
- b. String **CompanyName** – (1-100 characters) The name of a specific Company. (W1252)
- c. Integer **IndustriesOfInterest** – Returns array of Industries in which the buyer or investor has stated interest and related secondary industries.
  - i. Integer **ParentSubTypeId** – represents the level of the highest level relative to subtype used to draw a hierarchical Industry structure
  - ii. Integer **SubTypeId** – This is the primary identifier for Industries.
  - iii. String **SubTypeName** (1-500 characters) Text representation for SubTypeId (W1252)
- d. Integer **GeographiesOfInterest** – A list of primary countries and regions related to those countries which the buyer or investor has stated interest.
  - i. Integer **ParentSubTypeId** – represents the highest level relative to subtype used to draw a hierarchical Geography structure
  - ii. Integer **SubTypeId** – This is the primary identifier for Geographies
  - iii. String **SubTypeName** – (1-500 characters) Text representation for SubTypeId (W1252)
- e. Integer **StagesOfInterest** – Specific deal and stages of interest which the buyer or investor has indicated interest
  - i. Integer **SubTypeId** – This is the primary identifier for Stages of interest,
  - ii. String **SubTypeName** – (1-500 characters) Text representation for SubTypeName (W1252)
- f. Integer **CompanyBiteSize** – Returns the size of investment into or target size of acquisition for companies for each Input CompanyId.
- g. Integer **CharTypeId** – Type of investment for which the buyer or investor has indicated interest
  - i. Integer **CharTypeName** – (1-500 characters) Text representation of the investment type the
  - ii. Integer **SubTypeId** – This is the primary identifier for the Company Bite Size
  - iii. String **SubTypeName** – (1-500 characters) Text representation for SubTypeId (W1252)

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### Exceptions:

1. Exception thrown if the request cannot be authenticated via a session cookie.
2. Exception thrown if the `CompanyId` is not provided.
3. Exception thrown if the number of `CompanyId` supplied as input exceed 50.

### Web Services Description Language (WSDL)

Notwithstanding anything to the contrary in this Agreement, Capital IQ reserves the right to change, expand or modify Web Services Definitions and corresponding Web Services Description Language files (WSDL) at any time. Any such modifications will be done in accordance with industry standards that support backwards compatibility with previous WSDL files. If possible, Clients will be notified in advance of any modifications.

**Client Note:** Login using the supplied Username and Password provided by Client Support or your Client Development representative.

## Appendices

1. **Windows-1252 A character encoding of the Latin alphabet**, used by default in the legacy components of Microsoft Windows in English and some other Western languages. The encoding is a superset of ISO 8859-1, but differs from the IANA's ISO-8859-1 by using displayable characters rather than control characters in the 0x80 to 0x9F range. It is known to Windows by the code page number 1252, and by the IANA-approved name "windows-1252". This code page also contains all the printable characters that are in ISO 8859-15 (though some are mapped to different code points).
2. **Extensible Markup Language (XML)** is a general-purpose markup language. Its primary purpose is to facilitate the sharing of data across different information systems, particularly via the Internet.
3. **dateTime [Definition:]** values may be viewed as objects with integer-valued year, month, day, hour and minute properties, a decimal-valued second property, and a Boolean timezoned property. Each such object also has one decimal-valued method or computed property, `timeOnTimeline`, whose value is always a decimal number; the values are dimensioned in seconds, the integer 0 is 0001-01-01T00:00:00 and the value of `timeOnTimeline` for other `dateTime` values is computed using the Gregorian algorithm as modified for leap-seconds. The `timeOnTimeline` values form two related "timelines", one for timezoned values and one for non-timezoned values. Each timeline is a copy of the ·value space· of decimal, with integers given units of seconds.

The ·value space· of `dateTime` is closely related to the dates and times described in ISO 8601. For clarity, the text above specifies a particular origin point for the timeline. It should be noted, however, that schema processors need not expose the `timeOnTimeline` value to schema users, and there is no requirement that a timeline-based implementation use the particular origin described here in its internal representation. Other interpretations of the ·value space· which lead to the same results (i.e., are isomorphic) are of course acceptable.

All timezoned times are Coordinated Universal Time (UTC, sometimes called "Greenwich Mean Time"). Other timezones indicated in lexical representations are converted to UTC during conversion of literals to values. "Local" or untimezoned times are presumed to be the time in the timezone of some unspecified locality as prescribed by the appropriate legal authority; currently there are no legally prescribed timezones which are durations whose magnitude is greater than 14 hours. The value of each numeric-valued property (other than `timeOnTimeline`) is limited to the maximum value within the interval determined by the next-higher property. For example, the day value can never be 32, and cannot even be 29 for month 02 and year 2002 (February 2002). For more details <http://www.w3.org/TR/xmlschema-2/#dateTime>