

CIQ Technology Services Specification
GetFinancialSummary
Version 3.0

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Scenario

Capital IQ (CIQ) currently provides company information and financial data through various feeds via FTP. A number of clients are starting to utilize Web Services as a way to exchange data as an alternative to data feeds. Web Services allows our clients to access this content in a more dynamic and compact form so they can integrate it to their portals or similar internal data management systems.

This function provides the with client current or historical data to display on their site for internal portal, based on one company at a time. This document represents functionality for **FinancialSummary**, and will focus on the following data, and data sets:

1. Full financial data supporting a choice of all or , or individual Income Statement, Balance Sheet, and Cash Flow components of the financial statement information, for a specific company

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 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.

Reference Data

Developer Note: New reference data items may be available after each release but may not be supported. Capital IQ will notify clients of new reference data item through release notes and e-mail when these changes occur.

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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 results we have created a URL based versioning solution 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 at lest version 1.0 if they are using legacy services, to conform to the new URL format. Please review the list of service changes below to see how the functions are upgraded over time.

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.

1. 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.
2. 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

Financial Summary

Service	Version	Comments
URL	Current	https://api.capitaliq.com/ciqdotnet/api/Current/FinancialSummary.asmx?WSDL
URL	3.0	https://api.capitaliq.com/CIQDotNet/api/3.0/FinancialSummary.asmx?WSDL
URL	2.0	https://api.capitaliq.com/CIQDotNet/api/2.0/FinancialSummary.asmx?WSDL
URL	1.0	https://api.capitaliq.com/CIQDotNet/api/1.0/FinancialSummary.asmx?WSDL
URL	Legacy	https://api.capitaliq.com/CIQDotNet/Financials/FinancialSummary.asmx?WSDL

Release	Version	Comments
11/2009	3.0	New Input/Output item: financialDataSetId. This provides client application with the vendor providing the financial datapoint value.
11/2008	2.0	Fixed <anyType> in XML output replaced with <ArrayOfCompanyFinancials> Type in XML output.
	2.0	Added the Financial Update Function as part of the Financial Summary WebService method.
9/2008	1.0	Updated to conform to Capital IQ new versioning criteria

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GetFinancialSummary

GetFinaicialSummary

This function allows the client application to retrieve Standardized fundamental financial information based on a select set of data points that exist on the Capital IQ web platform. This data is reported by public companies on regulatory agency filings, as well as in press releases. The default template type for all queries will be our Standard Type.

Reference Data Ports (Functions):

```
CompanyFinancials() GetFinancialSummary(
    Integer CompanyId, Integer FinancialGroupId(), Integer PeriodTypeId,
    Integer TemplateTypeId, Integer RestatementTypeId, Date StartPeriodDate,
    Date EndPeriodDate, Integer CurrencyId, Integer CurrencyConversionMethodId
    Integer financialDataSetId);
```

Comments:

This function returns an Array of CompanyFinancials object container, which contains a single companyID, an array of FinancialInstanceInfo, each of which contain an array of FinancialDataPoints objects. Data can be returned in the reported currency or converted to a supported currency. Only data points with non-NULL data are returned by this function. "Empty" periods and/or DataItems are not returned. Input Types below (continues on page 7).

Exceptions:

1. Exception thrown if the request cannot be authenticated via a session cookie.
2. Exception if the account is not configured on the CIQ with the proper web service authorization.
3. Exception if the password is incorrect.
4. Exception if the web service call more than 80 TTM (Trailing Twelve Months)
5. Exception if the web service call more than 80 YTD (Year to Date)

Parameters

1. Integer **CompanyId** – A single companyID corresponding to a company that has financial data.
Input [Required], [Single].
2. An Array of Integer **FinancialGroupId()** – This indicates where the data is grouped within the statement filing.
Input [Required], [Multiple]. Possible values:

ID	Name
0	All Financial Groups
1	Income Statement
2	Balance Sheet
3	Cash Flow
4	Supplemental

3. Integer **PeriodTypeId** – Each item represents a single periodicity of the financial data to be returned. Users can have multiple periods returned in a request. **Input** [Required], [Single] possible values:

ID	Name
1	Annual
2	Quarterly
3	YTD
4	LTM (Trailing 12 Months)
7	Calendar Year
10	Semi-Annual

Developer Note: Refer to Reference Data ID 18.

Client Note: Calendar Year (ID7) and Semi-Annual (ID10) will be supported in a future release.

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4. Integer **RestatementTypeId** – This controls what subsequent Capital IQ filing data should be returned. **Input** [Required], [Single]., possible values:

ID	Name
0	All Filings
1	Latest Filings
2	Original Filings

Developer Note: Refer to Reference Data ID 37.

5. Integer **TemplateTypeId** – This controls the schema that should be returned. **Input** [Required], **Default** [0] the Default Template. Possible values:

ID	Name
0	Default
1	Standard
2	Bank
3	Insurance
4	Utility
5	REIT
7	Financial Services
8	Capital Markets
...	etc

Developer Note: Refer to Reference Data ID 39.

Developer Note: New reference data items may be available after each release but may not be supported through the web service. Capital IQ will notify clients of new reference data item through release notes and e-mail when these changes occur.

6. Date **StartPeriodDate** – The oldest period for which financial data should be returned. **Input** [Required], [Single].
7. Date **EndPeriodDate** – The period for which financial data should be returned that is farthest in the future. **Input** [Required], [Single].

Client Note: Input data is keyed to Period date, not filing date. i.e. If the Client Application requests all periods from 3/15/2006 to 4/2/2006 the result will include the 3/31/2006 period, even though it wasn't filed (typically) until 4/17/2006.

8. Integer **CurrencyId** – The currency in which to display the financial data. Monetary data will be converted to any currency, if collected in a different currency. **Default:** [0] Reported Currency, **Input** [Single], [Optional] possible values, for a complete list of currencies refer to the Reference Data WebService for currencies:

ID	Name
0	Reported Currency
9	Australian Dollar
55	British Pound
27	Canadian Dollar
50	European Union Euro
64	Hong Kong Dollar
79	Japanese Yen
29	Swiss Franc
160	US Dollar
...	etc

Developer Note: Refer to Reference Data ID 26.

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9. Integer **CurrencyConversionMethod** – If the currency is not the reported currency, this parameter controls how the data should be currency converted. **Default:** [0] Historical , [Single], [Optional] possible values:

ID	Name
0	Historical
1	Today's Spot Rate

Developer Note: Refer to Reference Data ID 38.

10. Integer **financialDataSetID** – Represents the data vendor that provides the financial data item value. If the client application sends option "0" (Default) as input the Service will return all financial summary data according to the following priority [1] CIQ Standardized, [2] Compustat Financials, [3] FFIEC Financials, and [4] D&B financials. **Default:** [None] [Single], [Required] possible values:

ID	Name
0	Default
1	CIQ Standardized
2	D&B
6	FFIEC
11	Compustat

DevNote: Refer to Reference Data ID 127.

Returns:

1. **CompanyFinancials**, a container element with one **companyId** and an array of **FinancialInstanceInfo** Objects. and one **CompanyFinancialIn** Object. **FinInstanceInfos** holds an array of **FinInstanceInfo** Objects, each with header information for a set of financial data for an instance, for each **companyId**. **FinlDataVal** holds an array of **FinData** Objects, each containing a single financial data point for each unique **finInstanceId**.
2. An example XML representation of this structure is: XML will be iterated.

ArrayOfCompanyFinancials()

CompanyFinancials()

Attributes:

- a. Integer **CompanyId** - CIQ Company ID of the company to which the financial data pertains.
- b. Integer **FinancialGroupId** – This indicates where the data is grouped within the statement filing.
- c. Integer **TemplateTypeId** – This controls the data schema that should be returned
- d. **FinancialInstanceInfoList ()**- An array of Financial instance

FinancialInstanceInfo

Attributes:

- i. Integer **FinancialInstanceId** – This identifies a set of financial data.
- ii. Integer **PeriodTypeId** – See Parameters for explanation.
- iii. Integer **CalendarYear** – Calendar year the financial data for.
- iv. Integer **CalendarQuarter** – Calendar quarter (or semi-annual period).
- v. Integer **InstanceTypeId** – Possible values

ID	Name
1	Press Release
2	Original
3	Restated

- vi. Integer **CurrencyConversionMethod** – Relates to the conversion Rate.
- vii. Integer **CurrencyId** – Relates to Currency reference data.
- viii. Integer **ReportedCurrencyId** – Relates to Reported Currency.
- ix. Integer **FiscalYear** – Fiscal year the financial data is for.

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- X. Integer **FiscalQuarter** – Fiscal quarter (or semi-annual period).
- xi. Datetime **PEODate** – The last calendar date of the period that the set of financial data is for.
- xii. Datetime **FilingDate** – The date when this set of financials was filed with a regulatory agency or reported via a press release.
- xiii. Integer **financialDataSetID** – Data vendor that provides the financial data

DataItemList() FinancialDataPoint (optional, multiple)

Attributes:

- 1. String **DataItemValue** – The financial value.
- 2. Integer **ScaleId** – Possible values

ID	Name
1	Actual
2	Thousands
3	Millions
4	Billions

FinancialDataPoint continued. (optional, multiple)

Attribute:

- 3. Integer **UnitTypeId** – Possible values

ID	Name
1	Currency
2	Ratio
3	Percentage
4	Date
5	Text
6	Enumeration
7	Boolean
8	Other

Developer Note: Refer to Reference Data ID 40.

- 4. Integer **DataItemId** – Relates to DataItem reference data.
- 5. Integer **AuditableFlag** – This identifies a set of financial data.
- 6. Boolean **Subtotal** – if true dataitemID represents a subtotal.
- 7. Integer **Order** – Sequence to present a series of dataitemsID.
- 8. Integer **financialDataSetID** – Data vendor that provides the financial data

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GetFinancialUpdateInfo

Financial Update Function: Get the last update date for financials based on companyID

```
FinancialUpdateInfo() GetFinancialUpdateDate(  
    Integer companyID();)
```

Summary: This function GetFinancialUpdateDate returns an array of FinancialUpdateInfo that contain CompanyID, CompanyName and LastUpdateDate for each CompanyID entered. This allows the client application to identify last date of company financial changes delivered through the GetFinancialSummary function.

Exceptions:

1. Exception thrown if the request cannot be authenticated via a session cookie.
2. Exception if the account is not configured on the CIQ with the proper web service authorization.
3. Exception at least one companyID must be submitted

Parameters

1. Integer **CompanyID** – A single companyID corresponding to a company that has financial data.
Input [Required], [Multiple].

Returns

1. An array of FinancialInstanceInfo Objects. Each containing one CompanyID, CompanyName and LastUpdateDate

ArrayOfFinancialUpdateInfo

Attributes:

FinancialUpdateInfo()

Attributes:

- a. Integer **CompanyID** - The unique identifier of this Company in CapitalIQ.
- b. String **CompanyName** – (1-100 characters) The name of a specific Company. (W1252)
- c. DateTimeUTC **LastUpdateDate** – The last date the financial data was modified

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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> characters that are in ISO 8859-15 (though some are mapped to different code points).