

FitchConnect

Excel Add-In

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Quick Start Guide

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Examples

1. Setup Instructions

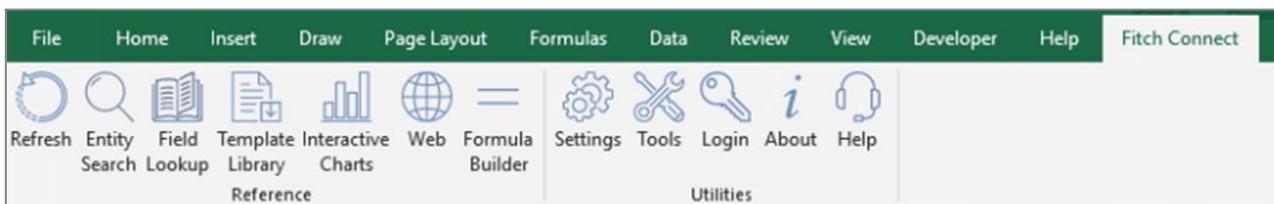
Refer to the Excel Add-In Technical Specification.

2. Fitch Connect Excel Add-In

The Excel Add-In provides users with the ability to compile ratings, financials, and analytics faster and more efficiently from within pre-built and customizable Excel templates.

- Current and historic fundamental data and credit ratings available with a single click
- Add in Fitch data into models and pre-built Fitch templates
- Fetch any data point in the Fitch Connect database by writing a simple formula to use across entities, time periods, accounting standards and currencies
- Refresh data calls within internal templates for the most up-to-date information

3. Menu Ribbon



3.1 Entity Search

Find entity IDs you need in the Entity Search. Search by entity or issue name, or by available parameters.

Saved searches by a user are accessible from My Searches to quickly rerun searches that are used frequently. After the search results have been returned, the user can then:

- Add to template - This will send the user's selected entities along with their Fitch ID to the Excel workbook. The list of entities will start with the cell selected and populate horizontally and vertically on your template depending on the option selected.
- Save Portfolio - This will save the list of entities selected into a portfolio. If you would like to add the selected entities to an existing portfolio, just select one from the Portfolio Name drop-down. From Portfolio Name drop down a user can also access their portfolios created and saved elsewhere on the Fitch Connect Platform.
- Clear selection – clears the search results displayed

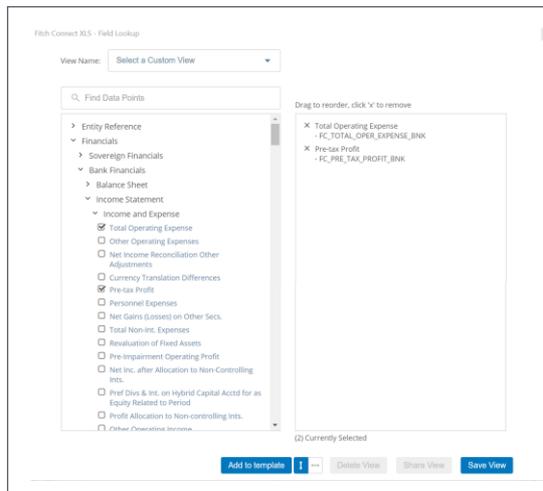
3.2 Field Lookup

Use the Field Lookup to find the data fields you are interested in and the corresponding Fitch mnemonics (e.g. FC_TOTAL_ASSETS_BNK).

View the full list of all available fields in the categories and place a check box in the data field to be included in the template.

The field names and mnemonics are included in the selected values. These can be re-ordered before adding them to the template.

This list of fields is continuously being updated and enhanced with new content.

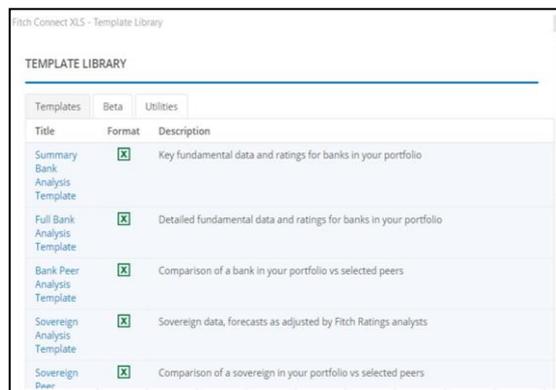


3.3 Template Library

The template library contains pre-built templates based on the data available from the Excel Add-In. These templates are available for users to download and use. Currently, only the Bank Scorecard Template requires a paid subscription.

Beta version templates are available in Beta tab of the Template Library for users to view, use and to provide feedback on improvements.

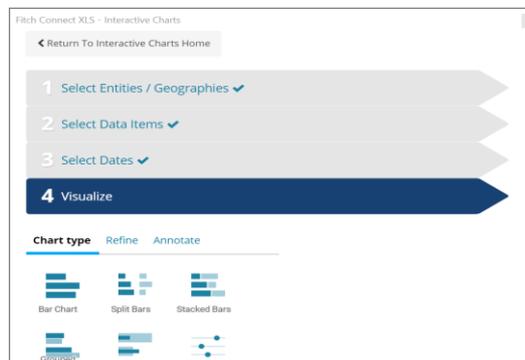
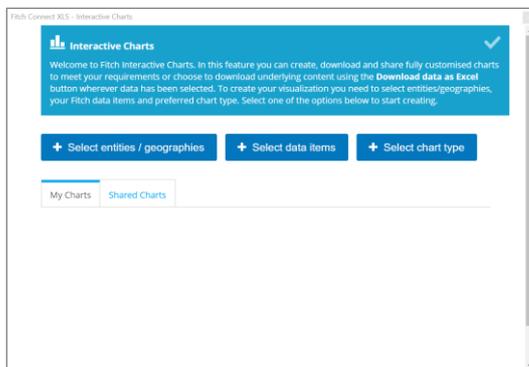
In addition, performance testing templates are also available in the Utilities tab of the Template Library.



3.4 Interactive Charts

The interactive charts allow the user to create, download and share fully customized charts using data from the Excel Add-In.

A step through wizard guides the user to select entities, geographies and custom portfolios, with data items, dates and choice of various chart types.



3.5 Web

Fitch Connect Web is accessible directly from the Excel ribbon by clicking on the web menu icon. Fitch Connect Web provides the same data with additional capabilities such as Alerts, Entity Detail and League Tables.

3.6 Settings

The Add-In Settings Manager allows a user to optimize the performance of the Excel Add-In based on their computers setting. Changes to any of the settings need to be saved and will take effect the next time Excel is opened.

Operation Mode

Allows the user to choose between Asynchronous mode and Synchronous mode. Enabling Async will allow faster data transfers and concurrent working in Excel. Async mode makes individual data calls and retrievals which gives more flexibility on how data is updated.

If Async is not enabled, data will be requested and returned in a single batch. This will prevent the user from doing any other work in Excel until the data has been fully retrieved. If a user is experiencing any problems with a template in terms of performance, try switching between the two settings. Custom templates that have been developed may not work in Async mode, therefore you may need to uncheck Async, save changes and re-start Excel.

Enable Async is set as default.

Performance

The number of threads and parallel connections help to optimize the performance of the Excel Add-In based on the setup of a computer. This setting is determined automatically by the Excel Add-In. Most users will not need to make changes to this setting.

Use Recommended Setting is set a default. The values can be updated by the user if required or as advised by the IT Department.

Proxy Settings

If your environment requires use of a proxy to access the internet, by default, the Excel Add-In will use Internet Explorer's proxy configuration settings for internet communication.

If you do not have IE proxy settings or you want to override those settings, you can do so by configuring the proxy settings. The supported authentication schemes are "negotiate", "ntlm", "kerberos", and "basic". If you are unsure of what proxy settings to use consult with your IT Department.

If *basic* is selected as the authentication scheme, the user will be prompted for their authentication credentials before they can save the proxy setting changes.

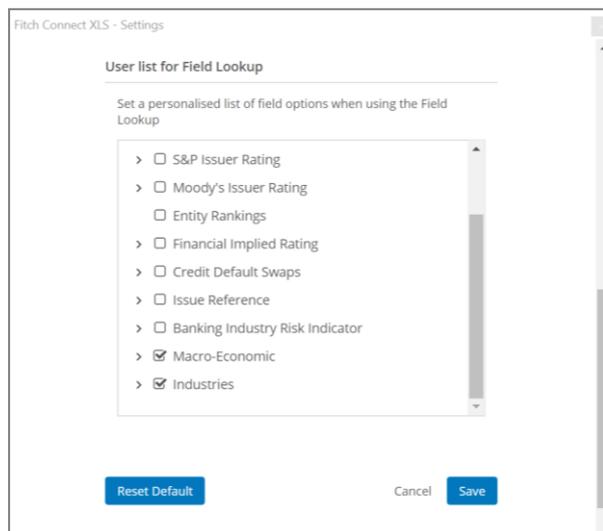
The proxy setting can also be tested prior to making the change.

User List for Field Lookup

Users are now able to manage their own personalized list of fields that are important to them when using the Field Lookup in the Excel Add-In.

These fields are managed by the user from the Setting menu and once saved will remain the next time the user launches Excel.

This will help make the user experience be more relevant by filtering out unwanted categories and more efficient for the user when using the Field Lookup.



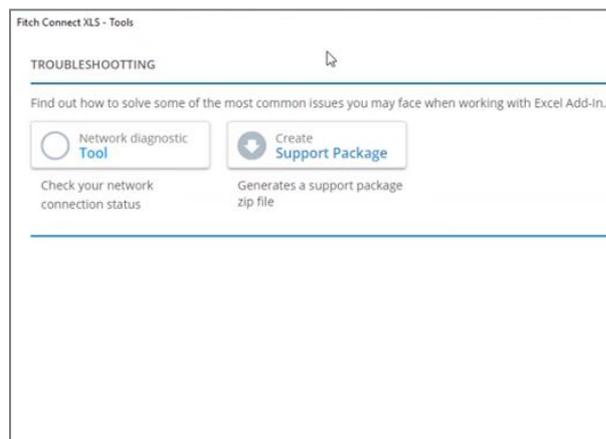
Experimental Features

The Experimental Features section are items currently under development and are not supported by our Client Services Team. This section is used by our early adopters of new Excel Add-In features who are part of an Advisory Group.

3.7 Tools

There is an option to Create Support Package. When selected, an email with instructions are automatically generated with along with a support package zip file.

The details included in the support package included in the email will assist in troubleshooting any issues that a user may be experiencing with the Excel Add-In.

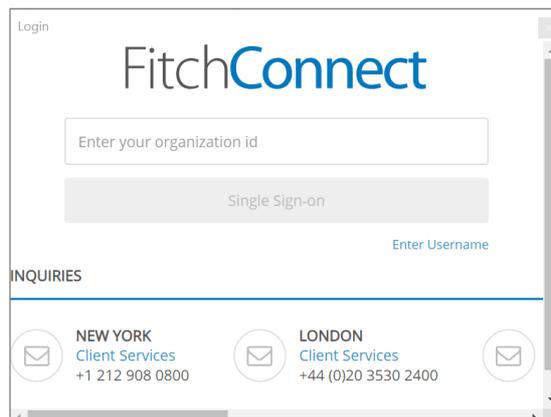
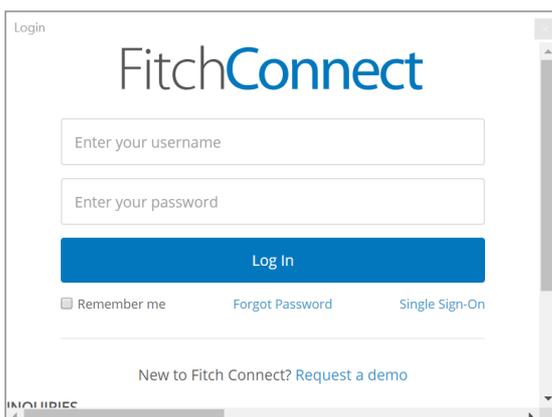


The Network Diagnostic Tool allows users and our Client Services Team to better understand and remedy network related technical issues when using the Excel Add-In. Refer to the Excel Add-In Technical Specification.

3.8 Login

In order to request and retrieve data a user must be logged in to the Excel Add-In. To login, users are required to enter a username and password on the login page.

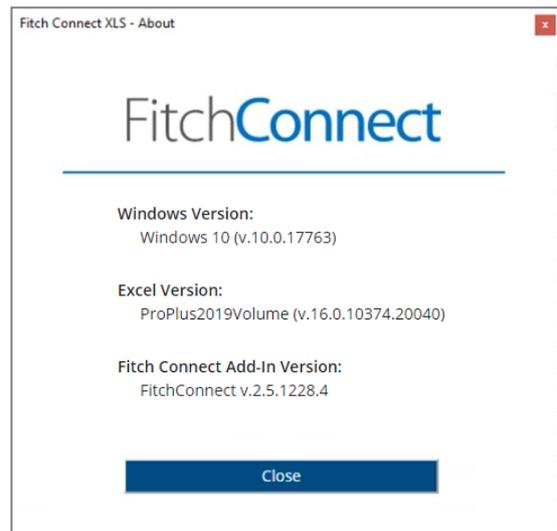
Single Sign-On (SSO) is also available, but the feature needs to be enabled first by Client Services. Once set up, any user from the organization will only need to enter their Organization ID the first time they login, select Single Sign-On, and agree to the Fitch Connect terms and conditions.



3.9 About

The About page contains user specific computer information:

- Windows Version
- Excel Version
- Add-In Version installed

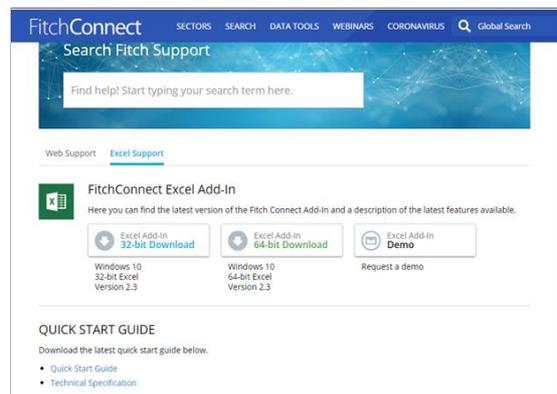


3.10 Help

The Help page within Excel Add-In provides a link to the Fitch Connect Web Support page. Here you can download the latest installation, both for 32-bit and 64-bit versions of Excel.

The latest versions of the Quick Start Guide and Technical Specification are also available for download from the Fitch Connect Web Support page.

Contact details for Client Services are included on the Support page for any user experiencing any difficulty installing or using the Excel Add-In.



4. Content Sets

The following content are available for subscription.

Entity Data	Corporate Hierarchy Data
Bank Fundamentals	Directors and Executives
Insurance Fundamentals	Shareholders
Sovereign Fundamentals	Company Tree
Fitch Ratings	Rated Peer Group
Bank Rankings	
S&P and Moody's Ratings	
Fitch Solutions Macro Intelligence Data	
Entity Reference	
Rated Peer Groups	
Issue Reference	
Banking Industry Risk Indicator	

5. Data Functions

The Fitch Connect Excel Add-In has two principal functions.

- FC.EntityData (FC.ED), a function for bringing in data into a single cell in Excel. The function can be used as a batch call, both in asynchronous and synchronous mode, to bring in multiple data sets. Refer to the Appendix for Example formulas.
- FC.ArrayData (FC.AD), a function for bringing in a range of data into Excel cells based on a single formula, both in asynchronous and synchronous modes. Refer to the Appendix for Example formulas.

6. Data Retrieval

6.1 Transmission Modes

The Excel Add-In has two transmission modes: synchronous and asynchronous. Refer to the Add-In Settings section.

6.2 Calculation Transparency

Fitch Connect Excel Add-In also allows users to view the components of a calculation for Bank Fundamental Data. To open the calculation transparency window, simply right-click onto a cell containing data, and select View Calculation.

A user can also view and download an entity's financial reports, by right clicking on a cell and selecting Open PDF Filing. If you have selected a cell where no filing or calculation is available, you will receive a notification as such.

6.3 Macroeconomic Source

To view the source, data type and last update date of the Fitch Solutions Macro data set, just right click onto a cell and click View Calculation to see all metadata associated with that line item.

6.4 Single Data Point Retrieval

In order to query the Fitch Solutions databases, you will need to incorporate several components into your syntax in order to pull the right data point, for the year and entity you are interested in.

The order for the Fitch Connect Excel Add-In is:

Entity ID Type & Entity ID + Field Mnemonic & Currency + Date + Accounting Standard + Consolidation Type + Line of Business

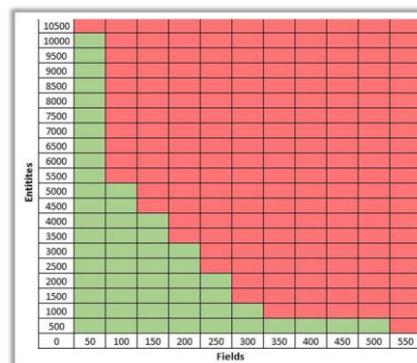
6.5 Batch Data Retrieval

The batch retrieval accepts arrays for the entities, field name and date parameters. However, you will need to explicitly write the reference fields. The advantage of using the batch retrieval is performance, with data being returned much more quickly.

6.6 Data Limits

The maximum data limit available to retrieve data in a single data request by a user is up to 10,000 entities and up to 500 fields. These data limits have tested to determine consistent results based.

The maximum limit combination of entities and fields are summarized in the chart.



6.7 Array Data Functions

The Array Data function works by bringing in the complete data set, in one call. This function enables a user to input a mnemonic which will bring back all the data for the chosen content set in one call. The data will populate with one item per cell, down and to the right of the cell selected.

The data returned in the array will vary depending on the content set selected. The following column headers will appear for each data set, in the specified order and written down/across from the cell you have selected.

If you would like to limit the number of shareholders returned, then you can specify how many rows you would like in your array. The purpose of this feature is to help with the formatting and layouts of your templates.

6.8 Data Conversion

The FC.Convert formula feature in the Excel Add-In can change data types and display them in new columns.

Data types in an array can be changed to any of the following using the formula:

- Do nothing to a data type within a range in an array
- Convert data to text that can't be used in numeric functions
- Convert string data values to a number to enable numeric functions
- Convert a number value to a Boolean value (true or false)
- Convert a date in a string to an Excel date enabling date formatting and date functions

6.9 Data Re-arrange

The FC.Rearrange formula feature in the Excel Add-In can take data from an array to filter and re-order columns into a new array. Columns in the new array using the formula can be:

- Sorted in a different order
- Specified in terms of which columns to display

6.10 Bank Ratings

Fitch Solutions Bank Rankings are available in the Excel Add-In. Several functionalities are available using this data set.

- Ranking per Bank - To obtain the rank of a bank in a country, just use the relevant mnemonic. These can be found in the data dictionary under the Entity Rankings section.
- Rankings by Country - Rankings by country can also be displayed, ordered by their ranking according to Total Assets, Total Weighted Risks, Operating Profit or Regulatory Tier 1 Capital.

Operator	Abbreviation
OperatingProfitsRank	OPR
WeightedRisksRank	WRR
TotalAssetsRank	TAR
RegTier1CapRank	RTCR

- Ranked Peer Groups - Users can use a reference entity to generate a list of peers from the Fitch Bank Rankings service.

6.11 Macro Intelligence Data & Forecasts

Use the country identifier, the mnemonic, and the date to get data on:

- Country Risk
- Operational Risk
- Industry Sectors

6.12 Rated Peer Groups

Analysts from Fitch Ratings use peer groups as part of their analytical processes. These peer groups can be called through into the Excel Add-In. The data can be shown in two ways:

- In one cell - Use the FC.ED. function to return a list of names of the peers.
- As an array across multiple cells – Use the FC.AD function to return a list of peers, with one bank name per cell, in a dynamic array.

It is also possible to produce a grid of data for the rated peer groups. A user can take the list of peers and bring back additional data for the peer group.

6.13 Exchange Rates

The Fitch Connect Platform contains daily exchange rates from the IMF for up to 51 currencies. Daily rates are added to the platform weekly, and historical data is available for up to 10 years.

The Fitch Connect Excel Add-In allows a user to convert data using the relevant period end date, or specify the date for the rate, meaning both historical and spot rates can be used.

The exchange rates formula has been updated as part of the 2.3 release to address the issue of missing data values for specific dates. The update prevents the exchange rate table results shifting values incorrectly to other currency exchange rates. This change no longer allows a user to filter by a single currency, but rather provides a table of results of all exchange rates for the selected period.

6.14 Public Loan Data

The Fitch Connect Add-In allows a user to retrieve public loan data. Loan Arrangers use this data for deals that they are considering bringing to market, looking at what is being offered and positioning their deals accordingly. An Investor is looking at the same data from the perspective of what is the best deal for them to buy into, which is then compiled in their Pitch Book.

Users can easily retrieve and filter on all Borrowers and loan deals, loan deals that are In Market, or loan deals that are Done. A subscription is required for this feature.

6.15 Hiding Error Messages

Fitch Connect Excel Add-In will produce an error message when there is no data, or the syntax entered is incorrect. This is designed to help you see where your syntax might need correcting, in order to get the data you need. Refer to the Appendix for error messages.

To hide these error messages, you can use the FC.IfError function, which mimics Excel’s own IfError function. This will hide the error messages, with a character of your choosing.

7. Custom Views

Users can create, edit and open their Fitch Connect Custom Views in the Excel Add-In. Once created, a user can open their views in other platform applications.

To make a new custom view, or to view or edit a view you have already created, simply use the Field Lookup.

You can also share the view with your colleagues from this component. Just click share, and you will be able to see other users on your licence and decide what privileges those users should have.

You can generate grids of data using your custom view once created.

8. Entity Research

Users can investigate further information from Fitch Ratings about an entity or issues by right clicking on the cell in Excel and selecting Open Entity Research.

The results listed can be filtered by data, source, report type, and sector. Where available PDF files can be viewed and downloaded. A subscription is required for this feature.

Fitch Connect XLS - Entity Researches Entity Researches

Showing 1 - 20 of 133 results

Date	Source	Report Type	Sector	Entity	Report Name		
2019-08-26	Fitch Ratings	Comment	Securities Firms	JPMorgan Chase & Co.	Fitch Ratings: Volcker 2.0 Eases Bank Compliance, May Free Up Market-Making	download	view
2019-05-15	Fitch Ratings	Performance Report	Multiborrower	JPMorgan Chase & Co.	JPMCC 2011-C5 Commercial Mortgage Pass-Through Certificates - U.S. CMBS Focus Report	download	view
2019-04-29	Fitch Ratings	Comment	Securities Firms	JPMorgan Chase & Co.	Fitch Ratings: M&A Advisory Only Bright Spot for US Trading Banks	download	view
2019-04-29	Fitch Ratings	Special Report	Securities Firms	JPMorgan Chase & Co.	U.S. Capital Markets Quarterly: 1Q19	download	view

Appendix

- Array Data Functions
- Supported Entity ID Types, Currency, Date & Accounting Standards
- Error Message Codes & Resolution
- Currency Codes Available
- Examples

Array Data Functions

FC.AD Function	Short Description
FC_DIRECTORS	All disclosed active directors of the bank
FC_SHAREHOLDERS	The top five shareholders of a bank, or all those with a holding of greater than 10%
FC_OWNERSHIP	Gives you the ownership structure for a bank
FC_DESCENDANTS	The full corporate structure of the company, with all disclosed subsidiaries
FC_EXECUTIVES	All disclosed active executives of the bank
FC_PEERS	Gives you an array containing all names of the peers for a rated bank
FC_LFI	All public loan data, both In Market and Done

Supported Entity ID Types, Currency, Date & Accounting Standards

Parameter Type	Entity ID Type	Entity ID Type Syntax
Option	CUSIP	"C", "CUSIP"
Option	GROUP_ID	"G", "GroupID"
Option	FITCH_ID	"F", "FitchID"
Option	INTERNAL_ID	"Internal", "Internal"
Option	ISSUE_CUSIP	"C", "CUSIP"
Option	ISSUE_ID	"I", "IssueID"
Option	ISO2	"ISO2", "ISOCountry2"
Option	ISO3	"ISO3", "ISOCountry3"
Option	LEI	"L", "LEI"
Default	TICKER	"T", "Ticker"

Currency	Local, JPY, EUR, GBP, USD
Date or Period Format	Last filed date, DD-MM-YYYY, MM/DD/YYYY, YYYY-MM-DD, QXYYYY, YYYY
Accounting Standards	IFRS, USGAAP, Local, HGB, Regulatory, IAS
Consolidation Type	Con, Noncon
Line of Business	Life, NonLife, Composite, Syndicate, Broker

Error Codes and Resolution

Failure Classes	Short Description
API_ACCESS	A failure while accessing the API or interpreting the results
INVALID_INPUT	A failure caused by the arguments supplied by the user
EXCEL_SERVER	A failure due to an internal, unexpected error

Failure Class	Failure Code	Short Description	Resolution
API_ACCESS	AUTHENTICATION_FAILURE	Displayed if the user can't be authenticated	Recheck your username and password
API_ACCESS	FIELD_IN_ERROR	Displayed if the API reports that a single field is in error (e.g. API does this if we supply > 20 dates)	Try reducing the amount of history returned
API_ACCESS	FIELD_RESTRICTED	Displayed if the API reports the field is not available for the user	Contact client services to upgrade your package
API_ACCESS	OVER_MAX_LOAD	Displayed if API returns http status 413 (request entity too large)	Reduce the amount of data you are requesting
API_ACCESS	REQUEST_FREQ_ERROR	Displayed if API returns http status 429 (too many requests)	Please wait a few minutes and try your request again.
API_ACCESS	SERVER_ERROR	Displayed if API returns unexpected http status	Please wait a few minutes and try your request again.
EXCEL_SERVER	UNEXPECTED_SERVER_ERROR	Displayed in an unexpected issue occurs	Please wait a few minutes and try your request again.
EXCEL_SERVER	UNKNOWN_FAILURE	Displayed in an unexpected issue occurs	Please wait a few minutes and try your request again.
EXCEL_SERVER	UNSUPPORTED_DATA_TYPE	Displayed if API returns data that's not a String or a Number	The information you are trying to retrieve cannot be fetched, please change your parameters.
INVALID_INPUT	COMPOSITE	Displayed if user supplies too few or too many components in a composite argument	The information you are trying to retrieve cannot be fetched, please change your parameters.
INVALID_INPUT	COMPOSITE_NOT_SUPPORTED	Displayed if user uses "!" in	Check the use of ! In the

Failure Class	Failure Code	Short Description	Resolution
		a non-composite text argument	formula and make sure that the parameter supports it
INVALID_INPUT	ENTITY_ID_TYPE_NOT_SUPPORTED	Displayed if a user supplies an entity ID type that's not supported	Refer to the supported entity types listed in this document.
INVALID_INPUT	ENTITY_UNKNOWN	Displayed if the API can't resolve the user supplied entity reference	The entity cannot be found.
INVALID_INPUT	FIELD_REQUIRED	Displayed if mandatory String argument is not populated by user	Ensure that all mandatory fields have been supplied.
INVALID_INPUT	FIELD_UNKNOWN	Displayed if the API doesn't recognise the supplied field	The field mnemonic is either incorrect or not available, use the data dictionary to get a list of supported data fields.
INVALID_INPUT	INVALID_TEXT	Displayed if String argument doesn't comply with length restrictions	Ensure that the arguments are set correctly.
INVALID_INPUT	INVALID_TYPE	Displayed if DateOrPeriod parameter is not a String or Number	Check the date and period parameter.
INVALID_INPUT	INVALID_YEAR	Displayed if user supplied period year is not between 1900 and 9999	Correct the year supplied.
INVALID_INPUT	INVALID_YEAR	Supplied period year is < 1900	Correct the year supplied.
INVALID_INPUT	MISSING_ARG	Displayed if a mandatory field is omitted	Ensure that all mandatory fields have been supplied.
INVALID_INPUT	MULTI_ARRAY_SIZE_HORIZONTAL	Displayed if the user supplies multiple horizontal arrays as input but they have different lengths	Correct the mismatch in the number of arguments in the array.
INVALID_INPUT	MULTI_ARRAY_SIZE_VERTICAL	Displayed if the user supplies multiple vertical arrays as input but they have different lengths	Correct the mismatch in the number of arguments in the array.

Failure Class	Failure Code	Short Description	Resolution
INVALID_INPUT	MULTI_DIMENSION_INPUT_NOT_SUPPORTED	Displayed if the user supplies a 2D array as an argument	Multidimensional array inputs are not supported.
INVALID_INPUT	NO_DATA	Displayed if the server can't find data using the supplied arguments	Check the input arguments supplied.
INVALID_INPUT	NOT_A_NUMBER	Displayed if the system expects the user to supply a Number and they supply something else	Ensure that the argument is formatted as a number.
INVALID_INPUT	TEXT_REQUIRED	Displayed is the system expects the user to supply text but they supply something else (e.g. number)	Ensure that the argument is formatted as text.
INVALID_INPUT	YEAR_NOT_A_NUMBER	Displayed if the user supplies a Period but it does not end in a 4 digit year	Ensure that the period ends with a 4 digit year.
#FC.Insufficient_Cells_Available	-	Shown if you are attempting to write to an area that is not large enough for the array to be displayed. This message serves to ensure you don't write over the top of other data in your template	Increase the write-to area to the size given in the error message

Currency Codes

Currency Name	Currency Code	Currency Name	Currency Code
Algerian Dinar	DZD	Mauritian Rupee	MUR
Australian Dollar	AUD	Mexican Peso	MXN
Bahrain Dinar	BHD	Nepalese Rupee	NPR
Bolivar Fuerte	VEF	New Zealand Dollar	NZD
Botswana Pula	BWP	Norwegian Krone	NOK
Brazilian Real	BRL	Nuevo Sol	PEN
Brunei Dollar	BND	Omani Rial	OMR
Canadian Dollar	CAD	Pakistani Ruppe	PKR
Chilean Peso	CLP	Philippine Peso	PHP
Chinese Yuan	CNY	Polish Zloty	PLN
Colombian Peso	COP	Qatar Riyal	QAR
Czech Koruna	CZK	Russian Ruble	RUB
Danish Krone	DKK	Saudi Arabian Riyal	SAR
Euro	EUR	Singapore Dollar	SGD
Hungarian Florint	HUF	South African Rand	ZAR
Icelandic Krona	ISK	Sri Lanka Rupee	LKR
Indian Rupee	INR	Swedish Krona	SEK
Indonesian Rupiah	IDR	Swiss Franc	CHF
Iranian Rial	IRR	Thai Baht	THB
Israeli New Sheqel	ILS	Trinidad and Tobago Dollar	TTD
Japanese Yen	JPY	Tunisian Dinar	TND
Kazahstani Tenge	KZT	UAE Dirham	AED
Korean Won	KRW	UK Pound Sterling	GBP
Kuwaiti Dinar	KWD	Uruguayan Peso	UYU
Libyan Dinar	LYD	US Dollar	USD
Malaysian Ringgit	MYR	Vietnamese dong	VND

Examples

Custom Views

=FC.ED("Ticker!JPM","FCVIEW_H:MY CUSTOM VIEW") will bring back a grid of data for JP Morgan, according to the mnemonics in the custom view, "My Custom View".

The data in the example above will appear horizontally. To display data vertically, you just need to change the "FCVIEW_H" to "FCVIEW_V". For example:

```
=FC.ED("PG!T!JPM", "FCVIEW_V:MY CUSTOM VIEW"))
```

To include field names as the headers for the results you will need to add the 'fields' parameter to the formula. This will provide the mnemonics to the formula. For example:

```
=FC.ED({"PG!T!JPM"}, {"FCVIEW_V:MY CUSTOM VIEW"},,,,, "Fields")
```

To include report names (friendly name, ie. Company Name not the mnemonic ie. FC_COMPANY_NAME) as the headers for the results you will need to add the 'report' parameter to the formula. This will provide the report name to the formula. For example:

```
=FC.ED({"PG!T!JPM"}, {"FCVIEW_V:MY CUSTOM VIEW"},,,,, "Report")
```

Portfolio

When you have your portfolio set, use the FC.ED function to call data for your portfolio, for example:

```
=FC.ED("Portfolio!MY PORTFOLIO", {"FC_LT_IDR", "FC_COMPANY_NAME"})
```

Will return the Long Term IDR and Company name, for the entities listed in the Portfolio named "My Portfolio"

You can also combine your Portfolio with your Custom View to build a grid, for example:

```
=FC.ED("Portfolio!MY PORTFOLIO", "FCVIEW_H:MY CUSTOM VIEW ")
```

To include field names as the headers for the results you will need to add the 'fields' parameter to the formula. This will provide the mnemonics to the formula. For example:

```
=FC.ED({"Portfolio!MY PORTFOLIO"}, "FCVIEW_H:MY CUSTOM VIEW",,,,, "Fields")
```

To include report names (friendly name, ie. Company Name not the mnemonic ie. FC_COMPANY_NAME) as the headers for the results you will need to add the 'report' parameter to the formula. This will provide the report name to the formula. For example:

```
=FC.ED({"Portfolio!MY PORTFOLIO"}, "FCVIEW_H:MY CUSTOM VIEW",,,,, "Report")
```

Single Data Retrieval

Example 1: Suppose you would like to retrieve Citigroup's total assets in USD for Q42014 using the Ticker as the entity identifier.

```
=FC.EntityData("TICKER!C","FC_TOTAL_ASSETS_BNK!USD","Q42014","USGAAP","CON")
```

Returns:

\$1,842,530,000,000

The returned value is scaled to the reported units. In this case, \$1.8bn is the “true” value of what was reported.

Note:

Entity ID Type defaults to Fitch ID

Accounting Standard defaults to IFRS

Currency defaults to Local

Consolidation defaults to Consolidated

Date defaults to the date of the latest available data

Example 2: Suppose you would like to retrieve Citigroup's total assets in USD for Q42014 using the Fitch ID as the entity identifier.

```
=FC.ED("FITCHID!100188","FC_TOTAL_ASSETS_BNK!USD","Q42014","USGAAP","CON")
```

Returns:

\$1,842,530,000,000

Example 3: Suppose you would like to retrieve Bank of America's Long Term Fitch Rating.

```
=FC.ED("FITCHID!100188","FC_LT_IDR","2014")
```

Returns:

A

Note: You do not need to specify the currency, accounting standard or whether the value is consolidated because this is not a financial value.

Example 4: Suppose we'd like to fetch Barclays' latest Net Interest Income in Pound Sterling.

```
=FC.ED("FITCHID!107559","FC_REG_TIER_1_CAP_BNK ")
```

Returns:

£51,856,000,000

Note: When the currency, accounting standard and date are not specified, the Fitch Connect Excel Add-In defaults to the reported currency, IFRS and the latest reported values.

Example 5: Suppose we'd like to fetch the UK's latest GDP volatility.

```
=FC.ED("FITCHID!140064","FC_VOL_GDP_SOV ")
```

Returns:

2.1621

Note: For Sovereign or Fitch Solutions Macroeconomic Intelligence data, accounting standard or consolidation type is not applicable, and therefore not required

Batch Data Retrieval

For example, suppose you want to pass to the function series of dates, for two data points for a bank.

You will have to explicitly write dates and the data fields into the worksheet (e.g., **A1:A16**). Then, you can pass the cell locations. See the example below.

=FC.ED("Ticker!JPM",B3:B4,C2:G2,"USGAAP","Con")						
B	C	D	E	F	G	
	2015	2014	2013	2012	2011	
FC_TOTAL_ASSETS_BNK	,"USGAAP","Con")	2572274000000	2415689000000	2359141000000	2265792000000	
FC_LT_IDR	A+	A+	A+	A+	AA-	

Note: Excel mandates that you specify the write-to area. In this example, you would have to highlight 10 cells to specify the area where you'd like the values returned to.

Once the area is highlighted, write the formula out in the formula bar, then press Ctrl + Shift + Enter to return the 5 x 2 matrix to the highlighted area.

Example 2: Suppose you would like to retrieve an array of entities and fields for 2015, using the Fitch ID as our identifier:

```
=FC.ED("FITCHID!"&D3:D10,E2:G2,D1)}
```

Returns

E3		fx {=FC.ED("FITCHID!"&D3:D10,E2:G2,D1)}					
A	B	C	D	E	F	G	H
			2015				
		Entity Name	Fitch Entity ID	FC_PERIOD_DT	FC_TOTAL_ASSETS_BNK	FC_NET_INCOME_BNK	
		Deutsche Bank AG	102798	2015-12-31	1,629,130,000,000	(6,772,000,000)	
		Industrial and Commercial Bank of China	114903	2015-12-31	22,209,780,000,000	277,720,000,000	
		KBC Groep NV	116324	2015-12-31	252,356,000,000	2,639,000,000	
		Desjardins Group	1007759	2015-12-31	248,128,000,000	1,959,000,000	
		Dexia	100817	2015-12-31	230,281,000,000	169,000,000	
		HSBC Bank Canada	1005466	2015-12-31	94,024,000,000	447,000,000	
		National Bank of Canada	111447	2015-10-31	216,090,000,000	1,619,000,000	
		Toronto-Dominion Bank (The)	110728	2015-10-31	1,104,373,000,000	8,024,000,000	

Country Risk

Use the country identifier, the mnemonic, and the date to get data.

For example; “FC.ED(“FitchID!140064”,“BMI_GDP_Nom_USD”,“2015”) will bring back the 2015 figures for the UK’s Nominal GDP, in USD.

Operational Risk

Use the country identifier, the mnemonic, and the date to get data.

For example; “FC.ED(“FitchID!140064”,“ BMI_EDUCATION_ENROL_SERVICES_UNIT”,“2015”) will bring back the 2015 figures for the UK’s education enrolment

Industry Sectors

Use the mnemonic and the date to get data

For example; “FC.ED(“FitchID!140064”,“ BMI_POWER_GEN_HYD_UNIT”,“2015”) will bring back the 2015 figures for the UK’s generation of hydropower.

Ranking per Bank

First, to obtain the rank of a bank in a country, just use the relevant mnemonic. These can be found in the data dictionary under the Entity Rankings section.

For Example: =FC.ED("Ticker!C","FC_OPERATING_PROFIT_GLOBAL_RANK") returns the global ranking for Citigroup, based on its Operating Profit.

To get historical data, simply specify the year in the syntax

For Example: =FC.ED("Ticker!C","FC_OPERATING_PROFIT_GLOBAL_RANK","2015")

There is no need to specify the currency as all rankings are made by USD.

Rankings by Country

We can also display rankings by country, ordered by their ranking according to Total Assets, Total Weighted Risks, Operating Profit or Regulatory Tier 1 Capital.

Operator	Abbreviation
OperatingProfitsRank	OPR
WeightedRisksRank	WRR
TotalAssetsRank	TAR
RegTier1CapRank	RTCR

For Example: =FC.ED("TotalAssetsRank:50,2015!ISO3!FRA","FC_COMPANY_NAME") would bring you the top 50 banks in France, according to their 2015 total assets ranking, along with their Company Name.

A more bespoke list of banks for your analysis can also be generated.

For Example: =FC.ED("TotalAssetsRank:25-50,2015!ISO3!ESP","FC_COMPANY_NAME") will bring you a list of the banks that are ranked 25-50 in Spain, along with their company name.

While:

=FC.ED("TotalAssetsRank:0.75-1.0,2015!ISO3!ESP","FC_COMPANY_NAME") will bring you the 25th percentile of banks by asset size, along with their Company Name.

You could use this base to build a grid of data too.

For Example:

=FC.ED("TotalAssetsRank:50,2015!ISO3!FRA",{FC_COMPANY_NAME,FC_TOTAL_ASSETS_BNK,FC_NET_INT_IN C_BNK,FC_GROSS_LOANS_BNK,FC_NET_LOANS_BNK},"2016","IFRS","Con") would bring you the same group of banks, along with the 2016 financials that you've specified.

Ranked Peer Groups

Users can use a reference entity to generate a list of peers from the Fitch Bank Rankings service.

For example I might be looking at State Street and want to see how the bank is performing vs its peers, based on chosen financials.

I can generate a peer group based on any of the ranking services, using the following functions:

Operator	Abbreviation
WeightedRisksPeers	WRP
OperatingProfitsPeers	OPP
TotalAssetsPeers	TAP
RegTier1CapPeers	RTCP

Data should be entered in the following order:

Function Type	Number of Banks	Year of Rank	Bank ID Type	Bank ID	Mnemonic and Currency	Year of Financials Required	Accounting Standard	Consolidation Type
---------------	-----------------	--------------	--------------	---------	-----------------------	-----------------------------	---------------------	--------------------

For Example:

=FC.IfError(FC.ED("TotalAssetsPeers:10,2015!IT!STT",{FC_COMPANY_NAME,FC_LT_IDR,FC_NET_INT_INC_BNK,FC_TOTAL_EQUITY_BNK,FC_GROSS_LOANS_BNK,FC_NET_LOANS_BNK},"2016"),"-")

This will bring me a grid containing my bank, the 10 banks ranked above it, and 10 banks ranked below it in the Total Assets Bank Ranking service. I'll also get the list of line items in {} to facilitate my comparison.

In this example, the group of banks will be based on the 2015 bank rank, and the financials given will be the 2016 year end.

To change the number of banks I want, just change the operator.

For Example:

```
=FC.IfError(FC.ED("TotalAssetsPeers:20,2015!T!STT",{FC_COMPANY_NAME,"FC_LT_IDR","FC_NET_INT_INC_BNK","FC_TOTAL_EQUITY_BNK","FC_GROSS_LOANS_BNK","FC_NET_LOANS_BNK"},"2016"),"-")
```

To change the peer group, just change the function.

For Example:

```
=FC.IfError(FC.ED("WeightedRisksPeers:20,2015!T!STT",{FC_COMPANY_NAME,"FC_LT_IDR","FC_NET_INT_INC_BNK","FC_TOTAL_EQUITY_BNK","FC_GROSS_LOANS_BNK","FC_NET_LOANS_BNK"},"2016"),"-")
```

Array Data Functions

The Array Data function works by bringing in the complete data set in one single call.

Shareholders

For Example:

=fc.ed("Ticker!C","FC_Shareholders") will return all shareholders collected as part of the Corporate Hierarchy service, for Citigroup.

The data returned in the array will vary depending on the content set selected. The following column headers will appear for each data set, in the specified order and written down/across from the cell you have selected.

Shareholders	Name	Ownership %	Country	Entity Type	Ownership Type	Fitch ID
Corporate Hierarchy	Name	Country	Ownership %	Ownership Type	Ownership Category	Fitch ID
Directors	Name	Title				
Executives	Name	Title				

Rated peers will appear as a list down the column from the cell selected.

For Example: =FC.AD("FitchID!107559","FC_SHAREHOLDERS") will return:

The Capital Group Companies Inc.	6.98	USA	Business Organization	Indirect	107642
Qatar Holding LLC	5.99	QAT	Business Organization	Unknown	1259357
BlackRock, Inc.	5.45	USA	Business Organization	Unknown	107586
Norges Bank	3.03	NOR	Business Organization	Unknown	108346

If written in cell C10, the data will populate down the page from that cell, and across the page to the right

Limiting the array size

If you'd like to limit the number of shareholders returned, then you can specify how many rows you'd like in your array. The purpose of this feature is to help with the formatting and layouts of your templates.

For Example: `fc.ed("FitchID!12345","FC_Shareholders",2)` will limit your data response to two shareholders, and therefore two rows of data.

Note:

The list will populate with the largest shareholders first. However, it is important just to keep in mind that this will only serve to limit the size of your table – so if a company has 10 shareholders with 10%, and you have set the limit at 2, you will still have a table of 2 shareholders.

Ownership Structure

To see further detail around the ownership of a bank, you might like to use the `FitchConnect.ArrayData` function to see the full ownership structure.

The `FC_OWNERSHIP` mnemonic will show you this data. For example:

`=FC.AD("FitchID!1008080","FC_OWNERSHIP")` will bring you the ownership structure for the bank with the Fitch ID 1008080 (Nepal SBI Bank Ltd)

The data will appear as below:

Name and Ownership Level	% Ownership	Country	Company Type	Ownership Type	Fitch ID
State Bank of India	55.00	IND	Business Organization	Unknown	112086
President of India	61.23	IND	Government	Unknown	0
Life Insurance Corporation of India	8.82	IND	Business Organization	Unknown	1147366
HDFC Trustee Company Limited	2.38	IND	Business Organization	Unknown	0
The Bank of New York Mellon	1.59	USA	Business Organization	Unknown	10718
BANK OF NEW YORK MELLON CORPORATION, THE	0.00	USA	Business Organization	Unknown	110630
The Vanguard Group	6.09	USA	Business Organization	Unknown	108701
BlackRock, Inc.	5.60	USA	Business Organization	Unknown	107586
The PNC Financial Services Group, Inc.	21.78	USA	Business Organization	Unknown	116672
Wellington Management Group LLP	7.20	USA	Business Organization	Unknown	101875
The Vanguard Group, Inc.	6.90	USA	Business Organization	Unknown	108701
BlackRock, Inc.	5.90	USA	Business Organization	Unknown	107586
Norges Bank	5.34	NOR	Business Organization	Unknown	108346
Ministry of Finance	100.00	NOR	Government	Unknown	0
T. Rowe Price Associates, Inc.	5.50	USA	Business Organization	Unknown	101871
Reliance Capital Trustee Co. Limited	1.29	IND	Business Organization	Unknown	0
Employee Provident Fund Nepal	15.00	NPL	Fund	Unknown	0

The table should be read from top to bottom, left to right.

The table tells us that State Bank of India has a 55% share in Nepal SBI Bank Ltd, while Employee Provident Fund Nepal has a 15% share.

State Bank of India is owned by the President of India, Life Insurance Corporation of India, HDFC Trustee Company Limited, The Bank of New York Mellon, and Reliance Capital Trustee Co. Limited.

Bank of New York Mellon Corporation's owners can be seen in the next level of indentation, and so on.

Hiding Error Messages

Fitch Connect Excel Add-In will produce an error message when there is no data, or the syntax entered is incorrect. This is designed to help you see where your syntax might need correcting, in order to get the data you need. These error messages can be found below.

To hide these error messages, you can use the FC.IfError function, which mimics Excel's own IfError function. This will hide the error messages, with a character of your choosing.

For Example:

```
=FC.EntityData("TICKER!C","FC_TOTAL_ASSETS_BNK!USD","Q42014","IFRS","CON")
```

Returns:

"API ACCESS - No Data" error message, as CitiGroup does not report in IFRS.

While

```
=FC.IfError(FC.ED("TICKER!C","FC_TOTAL_ASSETS_BNK!USD","Q42014","IFRS","CON"),"NA")
```

Returns:

NA - as we have hidden all error messages and designated NA as being the text we would like to see instead of error messages

Exchange Rates

Convert from reported currency to any of the 51 currencies available (refer to the Currency Codes in the Appendix)

For Example:

We know that JP Morgan (Ticker JPM) reports in USD. However, perhaps you would like to view this figure in Euros, using the IMF's rate as of the period-end date. So you would simply specify the currency you would like to convert my data item to, using the syntax below:

```
=FC.ED("Ticker!JPM","FC_TOTAL_ASSETS_BNK!EUR","2015","USGAAP","Con")
```

Returns:

2160034613000

-

Use a Historical Rate, or Spot Rate

To choose an exchange rate as of any other date, we need to let the Add-In know what rate we want to use. In order to do this, we just need to write the date into our syntax.

Using the example from the last section, this time we might want to see the 2015 total assets again, only this time we would like the figure to be converted into Euros using the 2016 year-end exchange rate, rather than the default.

For Example:

```
=FC.ED("Ticker!JPM","FC_TOTAL_ASSETS_BNK!EUR:2016-12-31","2015","USGAAP")
```

Returns: 2231055892600

To choose a different destination currency we can change the currency code.

For Example:

```
=FC.ED("Ticker!JPM","FC_TOTAL_ASSETS_BNK!GBP:2016-12-31","2015","USGAAP")
```

Returns: 1911695304200

Or to choose a rate from another date, we just change it.

For Example:

```
=FC.ED("Ticker!JPM","FC_TOTAL_ASSETS_BNK!EUR:2014-12-31","2015","USGAAP")
```

Returns: 1937093642600

And remember, to change the reporting date required, we can change that date too.

For Example:

```
=FC.ED("Ticker!JPM","FC_TOTAL_ASSETS_BNK!EUR:2016-12-31","2013","USGAAP")
```

Returns: 2291764154300

Generate a Grid of Exchange Rates for a Time Period

The Fitch Connect Excel Add-In allows users to generate a grid of exchange rates, using the FC.AD function. To do this, we will need to specify the dates that we want the exchange rate for, and the currencies that we want (base currency will be USD).

Mnemonic	Currency Format	Date Format
FC_EXCHANGE_RATES	ISO 3 Code e.g. GBP	YYY-MM-DD

For Example:

=FC.AD("FC_EXCHANGE_RATES",,{"currency:EUR,GBP,CHF,ZAR","date:2016-12-31"}) will return the grid below:

Date	Base	CHF	EUR	GBP	ZAR
2016-12-31	USD	1.0178	0.9487	0.8129	13.6844

To add more currencies or dates, simply add them into the relevant part of the syntax (each one separated with a comma).

For example:

=FC.AD("FC_EXCHANGE_RATES",{"currency:EUR,GBP,CHF,ZAR,NOK","date:2016-12-31,2015-12-31"}) will return the grid below:

Date	Base	CHF	EUR	GBP	NOK	ZAR
2016-12-31	USD	1.0178	0.9487	0.8129	8.62	13.6844
2015-12-31	USD	0.9921	0.9185	0.6748	8.809	15.545

It is also possible to use cell referencing to generate your list of exchange rates.

For Example:

=FC.AD(A1,,B1:C1), where Cell A1 contains the mnemonic "FC_EXCHANGE_RATES", cell B1 contains your currencies, and C1 your dates will return the same grid.

For example, as below, when we write =FC.AD(A1,,B1:C1) into cell D1, the 5 x 3 grid will result.

	A	B	C	D	E	F	G	H
1	FC_EXCHANGE_RATES	currency:EUR,USD,GBP	date:2015-08-10,2013-05-10	Date	Base	EUR	GBP	USD
2				2015-08-10	USD	0.912409	0.646371	1.0
3				2013-05-10	USD	0.769941	0.649351	1.0
4								
5	Mnemonic	Currencies: separated with a comma	Dates: separated with a comma					Resulting grid
6								

To help users see which rates have been called, the column headers will also be parsed.

Rated Peer Groups

Analysts from Fitch Ratings use peer groups as part of their analytical processes. These peer groups can be called through into the Add-In. The data can be shown in two ways:

In one cell - Use the FC.ED. function to return a list of names of the peers.

For Example: =FC.ED("Ticker!JPM","FC_PEER_ISSUER_NAMES") will return the list of peers for JP Morgan, collated into one cell.

As an array across multiple cells – Use the FC.AD function (see next section) to return a list of peers, with one bank name per cell, in a dynamic array.

For Example: =FC.AD("Ticker!JPM","FC_PEER_ISSUER_NAMES") will return a grid of all the issuers for Citigroup

It is also possible to produce a grid of data for the rated peer groups. A user can take the list of peers, and bring back additional data for the peer group.

For Example:

=FC.ED(PG!F!100188,{"FC_COMPANY_NAME","FC_ENTITY_ID","FC_COUNTRY","FC_LT_IDR","FC_AVG_ASSETS_BNK","FC_NET_INC_AVG_TOTAL_ASSETS_BNK","FC_OPER_PROFIT_TOTAL_ASSETS_AVG_BNK"},"2015","USGAAP","CON")

Will return

A 7 x 12 grid with the data requested for Citigroup. If you wish to change the direction of your array, simply separate the data using semi-colons instead of commas.

Syntax Component	Request Definition
"PG!F!100188"	Show me the Peer Group for the bank with the Fitch ID 100188
{"FC_COMPANY_NAME","FC_ENTITY_ID","FC_COUNTRY","FC_LT_IDR","FC_AVG_ASSETS_BNK","FC_NET_INC_AVG_TOTAL_ASSETS_BNK","FC_OPER_PROFIT_TOTAL_ASSETS_AVG_BNK"}	For this peer group, show me these data items
2015	Show me data for 2015
USGAAP	Show me data in USGAAP
CON	Show me Consolidated figures

Public Loan Data

Loan Arrangers / Investors Analysts can retrieve public loan data from the Fitch Connect Add-In in several different ways:

For Example: =FC.AD("FC_LFI") will return the loan data for all entities that have loan data

For Example: =FC.AD("FC_LFI",,{"dealType:In-Market"}) will return the loan data for all entities that have loan data that are In Market

For Example: =FC.AD("FC_LFI",,{"dealType:Done"}) will return the loan data for all entities that have loan data that are Done

The field names and column headings for the data returned are shown below:

Field Name	Column Name
FC_ENTITY_ID	Fitch ID
FC_SECTOR_LEVEL_1_DESCRIPTION	Sector
FC_LAUNCH_DATE	Launch
FC_MEETING_DT	Meeting
FC_COMMIT_DT	Commitments Due
FC_OWNERSHIP	Ownership
FC_TRANSACTION_TYPE	Transaction
FC_TRANCHE_NM	Tranche Name
FC_LT_IDR	Fitch Rating
FC_ISSUE_AMOUNT_FNL	Current Size
FC_CURRENT_SPREAD	Current Spread
FC_FLOOR_FNL	Current Floor
FC_OID_FNL	Current OID
FC_TERM_FNL	Current Term
FC_MATURITY_DATE_FNL	Current Maturity Date
FC_YTM_FNL	Current YTM
FC_YT3_FNL	Current YT-3
FC_CALLS_FNL	Current Calls
FC_FINANCIAL_COVENANT_FNL	Current Financial Covenants
FC_INCREMENTAL_TERMS_FNL	Current Incremental Terms
FC_COVENANT_COMMENT_FNL	Current Covenants
FC_OTHR_COMMENT	Current Other
FC_EBITDA	EBITDA
FC_SCRD_LEV	FirstLienLev
FC_TTL_LEV	TotalLev
FC_EQTY_CONT_LBO	Equity %
FC_REVLVR_SIZE	Revolver
FC_TLA	Tla
FC_BOND_AMT_CONCURT	Concurrent Bonds

FC_CMNT_PURPOSE	Purpose comment
FC_LEAD_ARRANGERS	Lead Arrangers
FC_ISSUE_AMOUNT_PRLM	Initial Size
FC_INITIAL_SPRD	Initial Spread
FC_FLOOR_PRLM	Initial Floor
FC_OID_PRLM	Initial OID
FC_TERM_PRLM	Initial Term
FC_MATURITY_DATE_PRLM	Initial Maturity Date
FC_YTM_PRLM	Initial YTM
FC_YT3_PRLM	Initial YT-3
FC_CALLS_PRLM	Initial Calls
FC_FINANCIAL_COVENANT_PRLM	Initial Financial Covenants
FC_INCREMENTAL_TERMS_PRLM	Initial Incremental Terms
FC_INITIAL_COV	Initial Covenants
FC_INITIAL_OTHR	Initial Other
FC_FLX_DT_LN1	Flex Date
FC_FLX_TYPE_LN1	Flex Type
FC_BID_PRICE	Bid
FC_OFFER_PRC	Offer
FC_BREAK_DT	Break Date
FC_DL_CAT	Deal Category
FC_PRVT_PLCD_SLTL	Privately Placed SLTLs
FC_PERMID	PERMID
FC_PERMNAME	PERMNAME
FC_SUNSET	Sunset
FC_MFN	MFN
FC_TRAN_CNT	Transaction Count
FC_REPAY_AMT	Repay Amount
FC_PRC_DT_C	Pricing Date

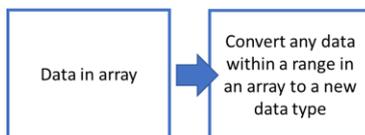
Data Conversion in an Array

The FC.Convert formula feature in the Excel Add-In can change data types and display them in new columns.

Data types in an array can be changed to any of the following in the formula:

- Empty ""
- String "s"
- Number "n"
- Boolean "b"
- Data "d"

FC.Convert



Empty – Do nothing to a data type within a range in an array

String – Convert data to text that can't be used in numeric functions

Number – Convert string data values to a number to enable numeric functions

Boolean – Convert a number value to a boolean value (true or false)

Date – Convert a date in a string to an Excel date enabling date formatting and date functions

For example: =FC.Convert(A1:D3,{"", "b", "n", "d"}) will:

- Do nothing to the values in column A and display the same data type in column F
- Take values in column B and convert them to a boolean values in column G
- Take the text values in column C and converts them to numeric values in column H
- Take text values in column D and converts them to date values in column I

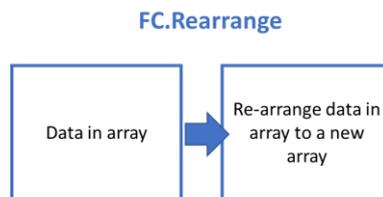
G1 {=FC.Convert(A1:D3,{"", "b", "n", "d"})}

	A	B	C	D	E	F	G	H	I	J	K
1	One	1	2145600	2019-12-04 10:00:00		One	TRUE	2145600	43803		04 December 2019
2	Two	0	3202021	2019-09-01 00:12:00	→	Two	FALSE	3202021	43709	→	01 September 2019
3	Three	1	3838383	2019-03-03 00:00:02		Three	TRUE	3838383	43527		03 March 2019
4											
5											
6											
7											
8											
9											

Average: 3062001.333 Count: 3 Sum: 9186004

Data Re-arrange in an Array

The FC.Rearrange formula feature in the Excel Add-In can take data from an array to filter and re-order columns into a new array.



- Sort** – Select order of columns to appear in a new array from an existing array
- Selection** – Specify which columns to appear in a new array

For example: =FC.Rearrange(A1:D3,{4,1,3}) will:

- Take column D and display it first in column F
- Take column A and display it second in column G
- Not display column B in the new array
- Take column C and display it third in column H

	A	B	C	D	E	F	G	H	I
1	One	A	10	X		X	One	10	
2	Two	B	20	Y		Y	Two	20	
3	Three	C	30	Z		Z	Three	30	
4									
5									

User Specified Retrieval of Financial Statements

User defined limit on the number of multiple Financial Statements for a list of Entities, ordered chronologically, based on a time period defined

Example:

```
=FC.AD({"BAC","JPM","C"},"FC_STATEMENTS_BY_FITCH_ID",,{"startDate:2010-01-01","endDate:2020-06-30","page[limit]:100"})
```

This example will return the first 100 statements available for each Entity in reverse chronological order (most recent first)

The page[limit] value refers to how many statements. This can be set from 1 to 100. The maximum number of entities is 100.

The above example will return 300 statements, 100 for each Entity. There may be more financial statements, but query is limited to finding the first 100.