

**FACTSET** › SEE THE ADVANTAGE

## IRN MEETINGS API DEVELOPER'S MANUAL AND REFERENCE

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## MEETINGS API – VERSION 1.0

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## 1. Internal Research Notes API

### 1.1. Overview

APIs complement the current Internal Research Notes (IRN) offerings and facilitates integration of data from existing workflows into IRN and the FactSet workstation. IRN APIs provide a channel to interact with FactSet's Research Management Solution Suite to contribute Notes and Meetings data.

### 1.2. Meetings Contribution API

Leverage the Meetings API to allow meetings created in parallel systems to integrate with the larger research workflow across FactSet.

## 2. Authentication

This API is hosted under <https://api.factset.com>. Authentication is handled using API Keys and authorization is handled using FactSet's in-house subscriptions product. You can find more information about using API Keys at <https://developer.factset.com/authentication>.

HTTP request and response header names should be considered case insensitive as per the [HTTP Standard](#). Please do not rely on case sensitive matching of headers in your code.

## 3. Rate Limiting

**Rate limiting** is used to control the amount of incoming and outgoing traffic to or from a network. IRN API also implements limits on the number of requests that a client can make in a given window of time.

The limits and remaining requests **can be read from the** following response headers in every request's response

**RateLimit-Limit:** 10 (this indicates total requests allowed in this second)

**RateLimit-Remaining:** 7 (this indicates total request remaining)

**RateLimit-Reset:** 4(this indicates remaining time for limits to reset)

## 4. Test and Production Environments

**Test:** Requests made from <https://developer.factset.com/api-catalog/> will be redirected to <https://api-sandbox.factset.com/research/irn/v1/> which points to an isolated Sandbox environment which will be available for clients to use as a development area on an ongoing basis. Clients will need to use POST requests before GET to have sample data to experiment with create and extract workflows.

**Production:** Use <https://api.factset.com/research/irn/v1> to access IRN production database

## 5. Queries

### 5.1. Get Meetings

GET /research/irn/v1/meetings

#### Description

This endpoint retrieves set of Meetings based on parameters specified in the request. The results of the service will contain all Meetings that pass the specified filters. Each note will consist basic information about the Meetings explained below.

Request and Response Content

#### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
x-include-deleted	Custom header. Value can be true or false and determines if deleted records should be included in result set.

#### Request Query Params

Parameter Name	Data Type	Required	Description	Format
start	String	Yes	Start Date	String of format "yyyy-MM-ddTHH:mm:ssZ"
end	String	Yes	End Date	String of format "yyyy-MM-ddTHH:mm:ssZ"
identifiers	Array	No	Identifiers of primary security for the Meetings	Array of string (Identifiers) FactSet recognized Ticker / Sedol / CUSIP / ISIN Account Identifier must have a .ACCT suffix Non-market identifiers or custom identifiers should be prefixed with IRN_ e.g. IRN_PIPELINES
modifiedSince	String	No	Only return meetings which have been modified or created since a particular time	String of format "yyyy-MM-ddTHH:mm:S.zz"
limit	Integer	No	Number of Meetings to be returned for the request. Maximum limit is 1000	Integer

#### Response Headers

Header Name	Description
-------------	-------------

<b>Status</b>	Standard HTTP Status Code.
<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.

**Response Body**

Property Name	Description
<b>id</b>	Unique Identifier for each Meeting
<b>start</b>	Start time of meeting; YYYY-MM-DDTHH:mm:ssZ format;
<b>end</b>	End time of meeting; YYYY-MM-DDTHH:mm:ssZ format;
<b>createdAt</b>	Created timestamp; YYYY-MM-DDTHH:MM:SSZ
<b>authorID</b>	Unique Identifier for each Author
<b>title</b>	Meeting Title
<b>identifier</b>	Identifier
<b>organizer</b>	Name of the organizer
<b>attachmentIds</b>	List of unique identifiers of attachments tagged to a meeting
<b>locations</b>	List of Objects of type {Id: "", Name:""} with details about location
<b>attendees</b>	List of Objects of type {Id: "", EmailAddress:"", FullName } with details about attendee
<b>relatedSymbols</b>	Related symbols tagged to a meeting

**Returns**

HTTP Status Code	Description
<b>200</b>	Success. Returns Meetings summaries
<b>400</b>	Invalid request. Further details in response body.
<b>401</b>	Missing or invalid authentication.

5.2. Get Meeting

**GET** /research/irn/v1/meetings/{meetingid}

**Description**

This endpoint retrieves details of the Meeting based on the id specified in the request. The results of the service will contain details of the meeting as explained below.

**Request and Response Content**

### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.

### Request Query Params

Parameter Name	Data Type	Required	Description	Format
meetingId	String	Yes	Unique Identifier of the meeting	String

### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

### Response Body

Property Name	Description
id	Unique Identifier for each Meeting
start	Start datetime; YYYY-MM-DDTHH:mm:ssZ format;
end	End datetime; YYYY-MM-DDTHH:mm:ssZ format;
createdAt	Created timestamp; YYYY-MM-DD HH:MM:SS; UTC
authorID	Unique Identifier for each Author
title	Meeting title
identifier	Identifier
organizer	Name of the organizer
body	Html content of meeting is bsae64 format
averageRating	Average of the ratings given to a meeting
locations	List of Objects of type {Id: "", Name:""} with details about location
attendees	List of Objects of type {Id: "", EmailAddress:"", FullName } with details about attendee
customFields	An object that represents Custom field values assigned to a meeting.in format {CustomFieldCode : Value}
relatedSymbols	Related symbols tagged to a Meeting
relatedRecords	Object of type {NodeIds: List<Guids>, MeetingIDs: List<guids>}List of Unique Identifiers of records tagged to a Meeting

<b>relatedContacts</b>	List of Unique Identifiers of contacts tagged to a Meeting
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**Returns**

HTTP Status Code	Description
200	Success. Returns Meeting details
400	Invalid request. Further details in response body.
401	Missing or invalid authentication.

5.3. Create Meeting

**POST** /research/irn/v1/meetings

**Description**

This endpoint creates a Meeting based on parameters specified in the POST body. A SUCCESS response will contain the unique identifier of the Meeting that was created. This unique identifier should be tracked alongside the original record in order to manage future edit and delete requests.

Request and Response Content

**Request Headers**

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
<b>Content-Type</b>	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

**Request Body**

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
<b>author</b>	Object	Yes	The Author must be a FactSet IRN user; specified via FactSet Username and Serial Number	Should be an object of format { "username": "FDS_RMS_TEST", "serialNumber": "123456" }
<b>title</b>	String	Yes	The Title of the Meeting	String with minimum of 1 character and maximum of 255 characters
<b>identifier</b>	String	Yes	Identifier of primary security for the Meeting	FactSet recognized Ticker / Sedol / CUSIP / ISIN



Account Identifier must have a .ACCT suffix  
 Non-market identifiers or custom identifiers should be prefixed with IRN\_ e.g. IRN\_PIPELINES

<b>startDate</b>	String	Yes	Start Date and Time of the Meeting	String representing date in format "yyyy-MM-ddThh:mm:ssZ"
<b>endDate</b>	String	Yes	End Date and Time of the Meeting	String representing date in format "yyyy-MM-ddThh:mm:ssZ"
<b>Locations</b>	Array	No	Locations of the Meeting	Array of strings with minimum of 1 character and maximum of 255 characters
<b>organizer</b>	String	No	Organizer list values as defined in RMS Control Panel	String with minimum of 1 character and maximum of 255 characters
<b>attendees</b>	Array	No	List of attendees of the Meeting	Array of objects of format { "emailAddress": "abc@factset.com" }
<b>alertAttendees</b>	Boolean	No	Send Invite to Attendees	Boolean
<b>alertAuthor</b>	Boolean	No	Send Invite to Author	Boolean
<b>relatedSymbols</b>	Array	No	Identifiers of related securities for the Meeting	Array of string (Identifiers)
<b>relatedSymbols</b>	Array	No	Identifiers of related securities for the Meeting	Array of string (Identifiers)
<b>relatedRecords</b>	Object	No	Identifiers of meetings and meetings to tag to Meeting	Object of format { "notelds": [ "string" ], "meetinglds": [ "string" ] }
<b>body</b>	Object	No	Agenda items or context of the Meeting	Object of format { "content": "html or plain text" }
<b>customFieldValues</b>	Array	No	Custom fields are defined in RMS Control Panel and custom field data must adhere to the correct data type as configured.  For example, a numeric custom field will accept a value of "100.00", but a value of "test" will result in a failure response. Similarly, if an IRN custom field is	Array of objects of format { "code": "string", "integerValue": 0 }

populated via a List, then only the configured list options will be accepted.

### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

### Returns

HTTP Status Code	Description
201	Success. Returns unique identifier of the meeting created
400	Invalid POST body. Further details in response body.
401	Missing or invalid authentication.

## 5.4. Edit Meeting

**PUT** /research/irm/v1/meetings/{meetingId}

### Description

This endpoint updates a Meeting based on parameters specified in the POST body.

### Request and Response Content

#### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
Content-Type	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Request Body

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
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<b>title</b>	String	Yes	The Title of the Meeting	String with minimum of 1 character and maximum of 255 characters
<b>identifier</b>	String	Yes	Identifier of primary security for the Meeting	FactSet recognized Ticker / Sedol / CUSIP / ISIN Account Identifier must have a .ACCT suffix Non-market identifiers or custom identifiers should be prefixed with IRN_ e.g. IRN_PIPELINES
<b>startDate</b>	String	Yes	Start Date and Time of the Meeting	String representing date in format "yyyy-MM-ddThh:mm:ssZ"
<b>endDate</b>	String	Yes	End Date and Time of the Meeting	String representing date in format "yyyy-MM-ddThh:mm:ssZ"
<b>Locations</b>	Array	No	Locations of the Meeting	Array of strings with minimum of 1 character and maximum of 255 characters
<b>organizer</b>	String	No	Organizer list values as defined in RMS Control Panel	String with minimum of 1 character and maximum of 255 characters
<b>attendees</b>	Array	No	List of attendees of the Meeting	Array of objects of format { "emailAddress": "abc@factset.com" }
<b>alertAttendees</b>	Boolean	No	Send Invite to Attendees	Boolean
<b>alertAuthor</b>	Boolean	No	Send Invite to Author	Boolean
<b>relatedSymbols</b>	Array	No	Identifiers of related securities for the Meeting	Array of string (Identifiers)
<b>body</b>	Object	No	Agenda items or context of the Meeting	Object of format { "content": "html or plain text" }
<b>customFieldValues</b>	Array	No	Custom fields are defined in RMS Control Panel and custom field data must adhere to the correct data type as configured.  For example, a numeric custom field will accept a value of "100.00", but a value of "test" will result in a failure response. Similarly, if an IRN custom field is populated via a List, then only the configured list options will be accepted.	Array of objects of format { "code": "string", "integerValue": 0 }

## Response Headers

Header Name	Description
-------------	-------------

<b>Status</b>	Standard HTTP Status Code.
<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.

**Returns**

HTTP Status Code	Description
201	Success.
400	Invalid POST body. Further details in response body.
401	Missing or invalid authentication.

5.5. Delete Meeting

**DELETE** /research/irn/v1/meetings/{meetingId}

**Description**

This endpoint deletes an existing Meeting based on user permissions.

**Request Headers**

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.

**Response Headers**

Header Name	Description
<b>Status</b>	Standard HTTP Status Code.
<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.

**Request**

DELETE <a href="https://api.factset.com/research/irn/v1/meetings/4B884FD3-4A52-4E08-A9C9-33A2993D74AE/">https://api.factset.com/research/irn/v1/meetings/4B884FD3-4A52-4E08-A9C9-33A2993D74AE/</a>
--

**Response**

HTTP 200 Success

## 5.6. Attachment Handling

### 5.6.1. Add Attachment

**POST** /research/irn/v1/meetings/{meetingId}/attachments

#### Description

This endpoint adds an attachment to a already existing Meeting. A SUCCESS response will contain the unique identifier of the attachment added to the Meeting with unique identifier meetingId provided in the URL. This unique identifier should be tracked alongside the original record in order to manage future edit and delete requests.

#### Request and Response Content

#### Request Headers

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
<b>Content-Type</b>	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Request Body

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
<b>Filename</b>	string	Yes	Name of the attachment as to be saved in application	Should be a non-empty string
<b>base64Content</b>	String	Yes	Content of the file in base64 format	Base64Content of the file to be attached

#### Response Headers

Header Name	Description
<b>Status</b>	Standard HTTP Status Code.
<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.

#### Returns

HTTP Status Code	Description
------------------	-------------

201	Success. Returns unique identifier of the meeting created
400	Invalid POST body. Further details in response body.
401	Missing or invalid authentication.

### 5.6.2. Get Attachment

**GET** /research/irn/v1/meetings/{meetingId}/attachments/{attachmentId}

#### Description

This endpoint gets an attachment of a Meeting based on user permissions.

#### Request and Response Content

#### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
Content-Type	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Request Query Params

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
meetingid	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
attachmentid	String	Yes	Unique Identifier of the attachment of meeting	Should be a non-empty String

#### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

#### Response Body

Property Name	Description
---------------	-------------

<b>id</b>	Unique Identifier of attachment
<b>fileName</b>	Name of the attachment file
<b>base64Content</b>	base64content of the attachment file

**Returns**

HTTP Status Code	Description
201	Success. Returns details of the attachment
401	Missing or invalid authentication.

5.6.3.Delete Attachment

**DELETE** /research/irn/v1/meetings/{meetingId}/attachments/{attachmentid}

**Description**

This endpoint deletes an attachment of a Meeting based on user permissions.

**Request Headers**

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.

**Request Query Params**

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
<b>meetingid</b>	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
<b>attachmentid</b>	String	Yes	Unique Identifier of the attachment of meeting	Should be a non-empty String

**Response Headers**

Header Name	Description
<b>Status</b>	Standard HTTP Status Code.
<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.

**Returns**

HTTP Status Code	Description
201	Success.
401	Missing or invalid authentication.

#### 5.6.4. Download Attachment

**GET** /research/irn/v1/meetings/{meetingId}/attachments/{attachmentId}/download

#### Description

This endpoint downloads an attachment of a meeting based on user read permissions. Any user with read permissions on the meeting can download its attachment.

#### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
Content-Type	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

#### Returns

HTTP Status Code	Description
200	Success.
401	Missing or invalid authentication.
403	User doesn't have permissions to view the meeting
404	Meeting or attachment not found

#### 5.7. Get Events

**GET** /research/irn/v1/meetings/{meetingid}/events

#### Description



This endpoint retrieves event history associated with the Meeting. The results of the service will contain all basic details of the history in reverse chronological order.

### Request and Response Content

#### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.

#### Request Query Params

Parameter Name	Data Type	Required	Description	Format
meetingId	String	Yes	Unique Identifier of the Meeting	String

#### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

#### Response Body

Property Name	Description
id	Unique Identifier for each change event of the meeting
type	Define the type of event published, edited etc.
createdAt	Created timestamp; YYYY-MM-DDTHH:MM:SSZ

#### Returns

HTTP Status Code	Description
200	Success. Returns event history of meeting
400	Invalid request. Further details in response body.
401	Missing or invalid authentication.

### 5.8. Get Event

**GET** /research/irn/v1/meetings/{meetingid}/events/recordeventid

## Description

This endpoint retrieves details of a particular edit event associated with the Meeting. The results of the service will contain all details of the change made to the Meeting.

## Request and Response Content

### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.

### Request Query Params

Parameter Name	Data Type	Required	Description	Format
meetingId	String	Yes	Unique Identifier of the Meeting	String
recordeventId	String	Yes	Unique Identifier of the Event	String

### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

### Response Body

Property Name	Description
type	Define the type of event published, edited etc.
createdAt	Created timestamp; YYYY-MM-DDTHH:MM:SSZ
user	User who made the change
changelist	List of object of type { "field": "Date", "operation": "Change", "oldValue": "06 Jan '20", "newValue": "07 Jan '20", "oldList": null, "newList": null } which include details like field that was edit and the changes made. oldValue, newValue compromise edit for text/single value fields. oldList,newList compromise edit for multiselect value fields.

## Returns

HTTP Status Code	Description
200	Success.
400	Invalid request. Further details in response body.
401	Missing or invalid authentication.

## 5.9. Comment Handling

### 5.9.1. Add Comment

**POST** /research/irn/v1/meetings/{meetingId}/comments

#### Description

This endpoint adds a comment to already existing meeting. Any user with create permissions on the meeting can create a comment for that meeting. A SUCCESS response will contain the unique identifier of the comment added to the meeting with unique identifier meetingId provided in the URL. This unique identifier should be tracked alongside the original record in order to manage future edit and delete requests.

#### Request Headers

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
<b>Content-Type</b>	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Request Body

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
<b>authorId</b>	string	Yes	The Author of the Comment	String representing unique identifier of the Author
<b>parentCommentId</b>	string	Yes	The parent of this Comment	String representing unique identifier of the Parent Comment
<b>body</b>	string	Yes	The content of the comment	Object of format { "content": "html or plain text" }

### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

### Returns

HTTP Status Code	Description
201	Success. Returns unique identifier of the comment created
400	Invalid POST body. Further details in response body.
401	Missing or invalid authentication.
403	User doesn't have permissions to view the meeting
404	Meeting not found

### 5.9.2. Get Comment

**GET** /research/irn/v1/meetings/{meetingId}/comments/{commentId}

#### Description

This endpoint gets a comment of a Meeting based on user permissions. Any user with read permissions on the meeting can view its comment.

#### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
Content-Type	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Request Query Params

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
meetingId	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
commentId	String	Yes	Unique Identifier of the comment of meeting	Should be a non-empty String

### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

### Response Body

Property Name	Description
id	Unique Identifier of comment
authorId	Unique identifier of the author
parentCommentId	Unique identifier of the parent comment
body	The contents of the comment
createdAt	Created timestamp; YYYY-MM-DD HH:MM:SS; UTC
attachments	The attachment summaries of the comment
subComments	The sub comments of the comment

### Returns

HTTP Status Code	Description
200	Success. Returns details of the comment
401	Missing or invalid authentication.
403	User doesn't have permissions to view the meeting
404	Meeting or Comment not found

#### 5.9.3. Edit Comment

**PATCH** /research/irn/v1/meetings/{meetingId}/comments/{commentId}

#### Description

This endpoint edits a comment of a Meeting based on user permissions. Any user with edit permissions on the meeting can edit its comment.

#### Request and Response Content

#### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
Content-Type	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

### Request Query Params

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
meetingId	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
commentId	String	Yes	Unique Identifier of the comment of meeting	Should be a non-empty String

### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

### Returns

HTTP Status Code	Description
200	Successfully edits the comment
401	Missing or invalid authentication.
403	User doesn't have permissions to edit the comment
404	Meeting or Comment not found

#### 5.9.4. Delete Comment

**DELETE** /research/irrn/v1/meetings/{meetingId}/comments/{commentId}

#### Description

This endpoint deletes a comment of a Meeting based on user permissions. Any user with delete permissions on the meeting can delete its comment.

#### Request and Response Content

### Request Headers

Header Name	Description
Authorization	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
Content-Type	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

### Request Query Params

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
meetingId	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
commentId	String	Yes	Unique Identifier of the comment of meeting	Should be a non-empty String

### Response Headers

Header Name	Description
Status	Standard HTTP Status Code.
Location	Standard HTTP header. Contains URL to check status of the request.

### Returns

HTTP Status Code	Description
200	Successfully deletes the comment
401	Missing or invalid authentication.
403	User doesn't have permissions to delete the comment
404	Meeting or Comment not found

#### 5.9.5. Get Comment Attachments

**GET** /research/irn/v1/meetings/{meetingId}/comments/{commentId}/attachments

#### Description

This endpoint lists all the attachments of a comment belonging to a meeting. Any user with read permissions on the meeting can view all its comment attachments.

## Request and Response Content

### Request Headers

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
<b>Content-Type</b>	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

### Request Query Params

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
<b>meetingId</b>	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
<b>commentId</b>	String	Yes	Unique Identifier of the comment of meeting	Should be a non-empty String

### Response Headers

Header Name	Description
<b>Status</b>	Standard HTTP Status Code.
<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.

### Response Body

Property Name	Description
<b>id</b>	Unique Identifier of attachment
<b>fileName</b>	Name of the attachment file
<b>mimeType</b>	Mime Type of the attachment

### Returns

HTTP Status Code	Description
<b>200</b>	Gets list of all the attachments
<b>401</b>	Missing or invalid authentication.
<b>403</b>	User doesn't have permissions to view the meeting



404

Meeting or Comment not found

### 5.9.6. Add Comment Attachment

**POST** /research/irn/v1/meetings/{meetingId}/comments/{commentId}/attachments

#### Description

This endpoint adds an attachment to already existing comment of the meeting. Attachments are posted as multipart/form-data. Any user with read permissions on the meeting can create an attachment for that meeting comment.

Note that:

- The name of multipart/form-data parameter that contains attachment must be *file*.
- The maximum attachment size for a single attachment is 50MB.

#### Request Headers

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
<b>Content-Type</b>	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Request Query Params

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
<b>meetingId</b>	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
<b>commentId</b>	String	Yes	Unique Identifier of the comment of meeting	Should be a non-empty String

#### Response Headers

Header Name	Description
<b>Status</b>	Standard HTTP Status Code.
<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.

#### Returns

HTTP Status Code	Description
200	Gets list of all the attachments
401	Missing or invalid authentication.
403	User doesn't have permissions to view the meeting
404	Meeting or Comment not found
413	The request exceeded maximum upload limit

### 5.9.7. Download Comment Attachment

**GET** /research/irn/v1/meetings/{meetingId}/comments/{commentId}/attachments/{attachmentId}/download

#### Description

This endpoint downloads attachment of a comment belonging to a meeting. Any user with read permissions on the meeting can download its comment attachment.

#### Request and Response Content

#### Request Headers

Header Name	Description
<b>Authorization</b>	Standard HTTP header. Value needs to use 'Basic <base64 encoded value>' format.
<b>Content-Type</b>	Standard HTTP header. Value needs to specify application/JSON (i.e., caller needs to specify that the body is in JSON format).

#### Request Query Params

The request body accepts JSON-formatted content with available parameters as follows:

Parameter Name	Data Type	Required	Description	Format
<b>meetingId</b>	string	Yes	Unique Identifier of the meeting	Should be a non-empty string
<b>commentId</b>	String	Yes	Unique Identifier of the comment of meeting	Should be a non-empty String
<b>attachmentId</b>	string	Yes	Unique Identifier of the attachment	Should be a non-empty string

#### Response Headers

Header Name	Description
<b>Status</b>	Standard HTTP Status Code.

<b>Location</b>	Standard HTTP header. Contains URL to check status of the request.
-----------------	--

## Returns

HTTP Status Code	Description
200	Gets list of all the attachments
401	Missing or invalid authentication.
403	User doesn't have permissions to view the meeting
404	Meeting or Comment or Attachment not found

## 6. Examples

### 6.1. Create Meeting - Successful Request

#### Request

POST <https://api.factset.com/research/irn/v1/meetings>

#### Request Body

```
{
  "author": {
    "username": "FDS_RMS_TEST",
    "serialNumber": "123456"
  },
  "title": "Sample Meeting Json for Meetings API",
  "identifier": "FDS-US",
  "relatedSymbols": [
    "IBM-US",
    "AAPL-US"
  ],
  "startDate": "2019-06-24T10:00:00Z",
  "endDate": "2019-06-24T11:00:00Z",
  "locations": [
    "Conference Call",
    "Phone"
  ],
  "organizer": "OrganizerName",
  "attendees": [
```

```

    {
      "emailAddress": "abc@factset.com"
    },
    {
      "emailAddress": "xyz@factset.com"
    }
  ],
  "alertAttendees": 1,
  "alertAuthor": 1,
  "body": {
    "content": "Sample Meeting created via IRN Meetings API"
  },
  "customFieldValues": [
    {
      "code": "RANK",
      "optionValue": "High"
    }
  ]
}

```

## Response

HTTP 201 Success – Returns unique identifier of the meeting created

```

{
  "id": "6551ae5a-f35d-4620-82d4-4d1ac9f41fd2"
}

```

## 6.2. Create Meeting - Invalid Request

### Request

POST <https://api.factset.com/research/irn/v1/meetings>

### Request Body

```

{
  "author": {
    "username": "FDS_RMS_TEST",
    "serialNumber": "123456"
  },
  "startDate": "24 june 2019",
  "identifier": "FDS-US",
}

```

```

"relatedSymbols": [
  "IBM-US",
  "AAPL-US"
],
"locations": [
  "Conference Call",
  "Phone"]
"organizer": "OrganizerName",
"attendees": [
  {
    "emailAddress": "abc@factset.com"
  },
  {
    "emailAddress": "xyz@factset.com"
  }
],
"alertAttendees": 1,
"alertAuthor": 1,
"body": {
  "content": "Sample Meeting created via IRN Meetings API"
},
"customFieldValues": [
  {
    "code": "RANK",
    "optionValue": "High"
  }
]
}

```

## Response

HTTP 400 Error – Bad Request

```

{
  "Title": [
    "The Title field is required."
  ],
  "EndDate": [
    "The EndDate field is required."
  ],
  "StartDate": [
    "Invalid DateTime format provided. Expected Date Format: yyyy-MM-ddTHH:mm:ssZ"
  ]
}

```

```
}

```

### 6.3. Meeting – Add attachment

#### Request

```
POST https://api.factset.com/research/irn/v1/meetings/4B884FD3-4A52-4E08-A9C9-33A2993D74AE/attachments
```

#### Request Body

```
{
  "filename": "Test.txt",
  "base64Content": "dGhpcyBhdHRhaGNTZW50IGlzIHRvIHRlc3QgUE9TVCB1bmQgcG9pbnQgb2YgTWVldGluZ3M="
}
```

#### Response

HTTP 201 Success – Returns unique identifier of the meeting created

```
{
  "id": "9a7374d4-6404-47e9-bed4-af67817659aa"
}
```

## 7. Troubleshooting

The following steps are recommended to troubleshoot errors from any of the different APIs:

- Record the X-DataDirect-Request-Key response header so that FactSet's API engineering team can analyze your specific request/response.
- Record the response body when the response is an error response. All HTTP status codes equal to and greater than 400 are considered error responses.
- Reach out to your account team with the above information for assistance.

## 8. Version Upgrade

FactSet will support previous API versions for a limited time. The actual support time will depend on the API and the release stage (i.e. beta or production). This support schedule may evolve in the months following upon the release of these APIs.

- FactSet supports the two (current and previous) most recent beta releases.

- FactSet supports the four (current and three previous) most recent production releases.

All breaking changes, functionality additions, and bug fixes across earlier versions will be documented in the changelog. FactSet's API engineering team will work with the clients to ensure smooth transition to newer versions.