Reuters API

Developer Guide – Reuters Live

Version 6 | November 2024

Contents

INTRODUCTION

The Reuters API provides access to a comprehensive range of multimedia content, including live feeds, videos, pictures, graphics, audio, and ready-to-publish articles from Reuters and our Connect marketplace partners. This also includes access to our extensive video and picture archive dating back to 1896.

This document is designed to be used by developers, who will write and implement the code that interfaces with the Reuters API. You are being granted early access to a release version of Reuters API that includes a reference implementation of the Live Production Exchange (LPX) recommendation for live video.
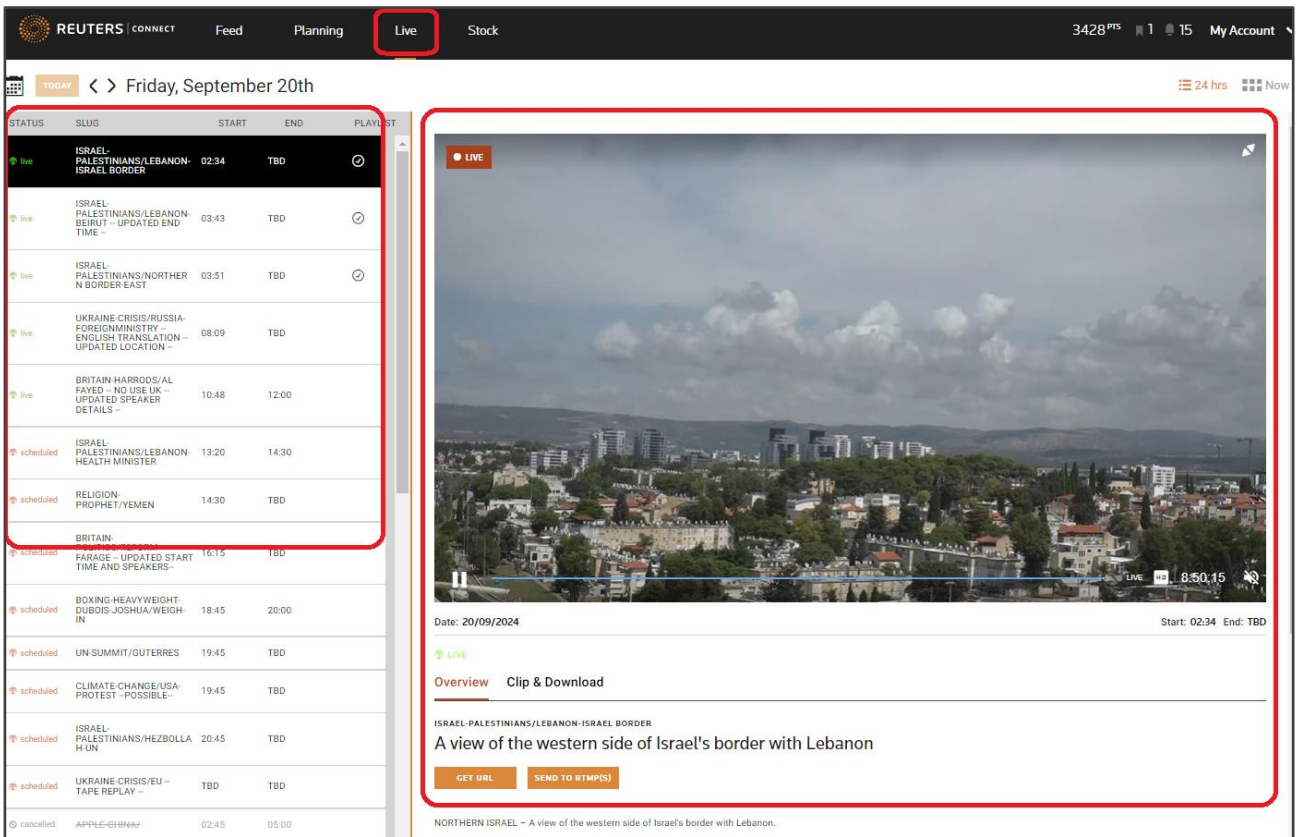

REUTERS/Peter Cziborra

Live API

The Reuters API includes a reference implementation of the Live Production Exchange (LPX) recommendation for live video.

Reuters Live streams are currently available for HLS and RTMP Protocols.

Reuters Live streams are also available under the Live tab on the www.reutersconnect.com website as shown below:

METHODS SUMMARY TABLE

This section describes the Reuters Live signal methods associated with the Reuters API.

Method	Description	Example Use Case
liveEvents	**Provides all the live event information, such as status, headline, usage terms, event details (duration, start date, end date), and more.**	To populate a list of detailed information about a live event.

liveEvents Method

The events method obtains all the live event information via the API, such as status, headline, usage terms, event details (duration, start date, end date), and more.

PARAMETERS				TYPE	DEFINITION	JSON REPRESENTATION
channels				String	Filter based on the customer-subscribed channels.	"jbh288"
cursor				String	The cursor parameter is used to specify the start position of the next page based on the query and sort criteria. Each search page returns a limited number of matching documents, and the "pageInfo" field tracks the pagination result across the search results based on current search queries and sort criteria. Repeat the same query and sort with the "endCursor" value on the last page until "hasNextPage" returns false to the page through a more extensive set of results.	"WzE3MTgxMDA1NDAxXJzLmNvbSwyMDI0Om5ld3NtbF9LQkU5OVQwM1kiXQ=="
dateRange				String	To filter using dates. The date range should be specified as <start_date>-<end_date>. Date format. YYYY-MM-DD.	"2024.01.01-2024.02.02"
event Identifiers				Scalar	To filter using a live event by id, uri or usn.	"uri": "9767edef-d472-4109-aaa5-1260424bd0d3"
limit				Int	This parameter is used to designate the maximum number of news items to be retrieved. The current limit is 100, but Reuters reserves the right to change this value at any time. If no limit is specified, the default number of news items returned will be 20.	"10"
page				Int	This parameter is used to designate a specific page of search results to retrieve. The first page is 1 and if no value is specified for the page parameter, the default is 1. The maximum number of news items returned per page is constrained by the limit parameter. The maximum number of page is constrained by the combination of page and limit, page * limit must be less than 2500. If the cursor parameter is specified, the page parameter will be ignored.	"2"
events				Object	Live event results	events:{}
	contentCreated			Scalar	The date and time when this live event was created	"contentCreated": "2024-02-05T17:07:25.599Z"
	copyrightHolder			String	Corporation for the time being in possession of the copyright of the live event.	"copyrightHolder": "Thomson Reuters"

	copyrightNotice			String	Any necessary copyright notice for claiming the intellectual property for the live event.	"copyrightNotice": "(c) 2024 Thomson Reuters, unless otherwise identified. Full statement available at https://www.thomsonreuters.com/en/policies/copyright.html"
	eventDetails			Object	Property containing details of the event.	eventDetails:{}
		dates		Scalar	Dates and times for this event.	"dates": { }
			startDate	Scalar	The start date of live event.	"startDate": "2024-02-07T12:07:02.000Z"
			endDate	Scalar	The end date of the live event	"endDate": "2024-02-12T17:55:06.000Z"
			expected Duration	String	Duration of the live event	"duration": "5 Days 5 Hours 48 Minutes"
		eventStatus		Enum	Status of the event, categories are: Cancelled, Scheduled, Live, and Completed.	"eventStatus": "canceled"
	genre			Object	Genre codes indicate the nature of the live event, not specifically its content.	
			name	String	Genre name	"Sport news"
			code	String	Genre topic or category code	N2: SPO
			literal	String	Genre literal name	
	headline			String	A brief and snappy introduction to the content, designed to catch the reader's attention.	"headline" : "Nikki Haley bus tour in Bamberg, South Carolina
	id			String	Live event stream unique identifier	"uri": "9767edef-d472-4109-aaa5-1260424bd0d3"
	language			String	language of the live item	"language": "en"
	located			String	The location where the live event happens.	"location" : "BAMBERG, SOUTH CAROLINA
	renditions			Object	An array of objects, each of which is a rendition of the event	
		aspectRatio		String	Live event aspect ratio. We only offer a 16:9 aspect ratio.	"16:9"
		bitrate		String	Signal bitrate. There are different options.	"8000Kbps"
		code		String	Live video profile code. There are different options. Unique identifier	"hls:29.97"
		frameRate		String	Live event frame rate. There are different options.	"29.97"
		frameSize		String	Live event frame Size	"1920x1080"
		minBitrate		String	Minimum bitrate provided	"200Kbps"
		maxBitrate		String	Maximum bitrate provided	"4Mbps"
		name		String	Live video profile name.	"200Kbps-4Mbps Video: 1080p29.97 h.264"
		scanType		String	Live event scan type. We only offer progressive scan type.	"progressive"
	slugline			String	Item slug or short name used to identify an event. Slugs are a Reuters editorial mechanism used to standardize content by event. They are combinations of 2 or 3 words describing a news event – a string of keywords. For example, GLOBAL-CLIMATECHANGE/	"slugline": "NATO-DEFENCE/STOLTENBERG"
	topic			String	Indicates subject of the event	"Topic" : "Politics / International Affairs"
	uri			String	Live event story unique number	"id": "tag:reuters.com,2024: Newsml_ADKQ4TP20"
	usageTerms			String	Usage terms of the live event, it will display the live event restrictions.	"usageTerms": "Broadcast: No use UK, Digital: No use UK"

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	usn			String	Live event story unique number. Same identifier as the uri	"usn": "ADKQ4TP20"
	version			String	Version of the live event	"version": "681326751"
	versionCreated			Scalar	Date when the current version was created	"versionCreated": "2024-02-14T17:55:06.000Z"
pageInfo				Object	Search results page information	
	endCursor			String	endCursor token information	"WzE3MTgxMDA1NDAxNJzLmNvbSwyMDI0Om5ld3NtbF9LQkU5OVQwwM1kiXQ=="
	hasNextPage			Boolean	if the search has next page or not: true or false	"true"
totalHits				Scalar	Total number of findings	"8"

Examples

1. How to retrieve the start/end date and event status of the live events

```
query MyQuery {
  liveEvents {
    events {
      id
      headline
      eventStatus
      eventDetails {
        dates {
          startDate
          endDate
        }
      }
    }
  }
}
```

2. How to retrieve live events using the dateRange

The dateRange criteria should be specified as <start_date>-<end_date>.
Date format. YYYY-MM-DD.

```
query MyQuery {
  liveEvents(dateRange: "2024.09.01-2024.09.05") {
    totalHits
    events {
      eventDetails {
        dates {
          endDate
        }
      }
    }
  }
}
```

3. How to retrieve an event rendition

The complete list of stream renditions is on the Appendix L.

```
query MyQuery {
  liveEvents {
    events {
      renditions {
        code
        name
        frameRate
        scanType
        aspectRatio
        frameSize
        minBitrate
        maxBitrate
        bitrate
      }
    }
  }
}
```

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4. How to filter content based on event uri, id or usn

The following query allows you to filter content based on event uri, id or usn.

The three identifiers may look like:

"id": "f0191d53-8be7-4674-b593-17b5d162e842",
"uri": "tag:reuters.com,2024:newsml_ADKQ9DK9K",
"usn": "ADKQ9DK9K"

The following query is using the uri.

```
query MyQuery {
  liveEvents(eventIdentifiers: "\"tag:reuters.com,2024:newsml_ADKQ9DK9\"") {
    events {
      headline
      language
      located
    }
  }
}
```

The following query is using the usn.

```
query MyQuery {
  liveEvents(eventIdentifiers: "ADKQ9DK9") {
    events {
      headline
      language
      located
    }
  }
}
```

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Appendix A – Live event example JSON

```json
{
  "data": {
    "liveEvents": [
      {
        "contentCreated": "2024-02-13T19:46:10.000Z",
        "copyrightHolder": "Thomson Reuters",
        "copyrightNotice": "(c) 2024 Thomson Reuters, unless otherwise identified. Full statement available at https://www.thomsonreuters.com/en/policies/copyright.html",
        "eventDetails": {
          "dates": {
            "duration": "01:01:01",
            "endDate": "2024-02-14T15:46:06.000Z",
            "startDate": "2024-02-14T16:48:02.000Z"
          }
        },
        "eventStatus": "postEvent",
        "genre": "Current or spot news",
        "headline": "New York's Times Square hosts weddings and surprise proposals as love is in the air on Valentines Day",
        "language": "en",
        "location": ["United States"],
        "previewUrl": "NA",
        "uri": "ADJWML1G8",
        "slugline": "VALENTINES-DAY/NEW YORK-WEDDINGS",
        "topic": [
          "Arts / Culture / Entertainment"
        ],
        "usageTerms": "Restrictions: Broadcast: None, Digital: None",
        "version": "681326751",
        "renditions": [
          {
            "transportProtocol" : "HLS",
            "code": "200Kbps-4Mbps Video: 1080p29.97 h.264",
            "audio": "AAC-LC Stereo CBR",
            "frameRate": "29.97",
            "scanType": "progressive",
            "aspectRatio": "16:9",
            "frameSize": "1920x1080"
          }
        ]
      }
    ]
  }
}
```

Appendix L – Live event renditions

For HLS

Parameters	Renditions
"code"	"hls:29.97"
"name"	"200Kbps-4Mbps Video: 1080p29.97 h.264"
"frameRate"	"29.97"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"1920x1080"
"minBitrate"	"200Kbps"
"maxBitrate"	"4Mbps"
"bitrate"	null,
"href": null	"href": null

For RTMP

Bit rate: 200 kbps (416x234; 30 fps)

Parameters	Renditions
"code"	"rtmp:29.97:200"
"name"	"200Kbps-4Mbps Video: 1080p29.97 h.264"
"frameRate"	"29.97"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"416x234"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"200Kbps"

Bit rate: 600 kbps (640x360; 30 fps)

Parameters	Renditions
"code"	"rtmp:29.97:600"
"name"	"600Kbps Video: 360p29.97 h.264"
"frameRate"	"29.97"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"640x360"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"600Kbps"

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Bit rate: 1024 kbps (854x480; 30 fps)

Parameters	Renditions
"code"	"rtmp:29.97:1024"
"name"	"1024Kbps Video: 480p29.97 h.264"
"frameRate"	"29.97"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"854x480"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"1024Kbps"

Bit rate: 2048 kbps (1280x720; 30 fps)

Parameters	Renditions
"code"	"rtmp:29.97:2048"
"name"	"2048Kbps Video: 720p29.97 h.264"
"frameRate"	"29.97"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"1280x720"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"2048Kbps"

Bit rate: 4096 kbps (1920x1080; 25 fps)

Parameters	Renditions
"code"	"rtmp:29.97:4096"
"name"	"4096Kbps Video: 1080p29.97 h.264"
"frameRate"	"25
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"1920x1080"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"4096Kbps"

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Bit rate: 4096 kbps (1920x1080; 30 fps)

Parameters	Renditions
"code"	"rtmp:29.97:4096"
"name"	"4096Kbps Video: 1080p29.97 h.264"
"frameRate"	"29.97"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"1920x1080"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"4096Kbps"

Bit rate: 8000 kbps (1920x1080; 30 fps)

Parameters	Renditions
"code"	"rtmp:29.97:8000"
"name"	"8000Kbps Video: 1080p29.97 h.264"
"frameRate"	"29.97"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"1920x1080"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"8000Kbps"

Bit rate: 8000 kbps (1920x1080; 25 fps)

Parameters	Renditions
"code"	"rtmp:25:8000"
"name"	"8000Kbps Video: 1080p25 h.264"
"frameRate"	"25"
"scanType"	"progressive"
"aspectRatio"	"16:9"
"frameSize"	"1920x1080"
"minBitrate"	null
"maxBitrate"	null
"bitrate"	"8000Kbps"

Technical Support

There are a variety of means by which you can contact Thomson Reuters for support.

One of the easiest is to go to https://liaison.reuters.com/contact-us and complete the request form after which a customer representative should content you within 15 minutes. No sign-in is required.

Or send an email to ReutersMediaSupport@thomsonreuters.com