1 Metadata

The partner will send to Rakuten TV a feed with the metadata that he wants to include in the marketplace.

Depending on the type of content (movies/TV shows/catchups/live programs) and the type of integration (deep linking/ingestion/streaming), the partner must send different information in the feed.

All JSON feeds contain these two nodes:

- version: Feed's version. We will have different feed for each version.

- resources: A list of items of the feed's type. For example in movies feed, resources are a list of movies.

1.1 Content delivery

Different delivery methods are provided to upload media files and metadata feeds:

- FTP

- Aspera

1.1.1 Directory structure

The packages must be uploaded to a specific directory structure, depending on the resource type:

- Live channels:

```
/{partner_name}/{timestamp}/live_channels/
```

- Live programs:

```
/{partner_name}/{timestamp}/live_programs/
```

where timestamp's format is *yyyymmddHHMMSS*, for example 20201212203845.

1.1.2 Packages

A package is a collection of files that includes:

- Feed *(required)*: JSON file that specifies all the metadata. The different type of feeds are described in the following sections.
  Requirements:

  - Must be in UTF-8.
  - Must be Gzip compressed.
  - Its name must be **feed.json.gz**.

  There are two feed types:

  - For **live channels**, feed's resources are live channels. A live channel contain a set of live programs.
  - For **live programs**, feed's resources are live programs.

- Assets *(optional)*: Folder where the partner can include all the assets specified in the feed. The directory structure inside this folder is up to the partner.
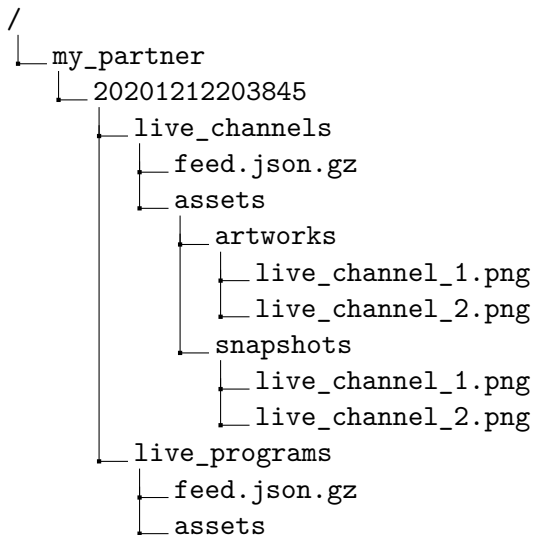
For example, if the feed contains the following URL:

```
file://{partner_name}/{timestamp}/live_channels/assets/artworks/
    live_channels_1.png
```

the image must be placed into that path in order to let the ingestion process get it.
Additionally, partners can use remote servers to upload files and link it with Rakuten TV marketplace through URLs.

Example:
```
/
└── my_partner
    └── 20201212203845
        └── live_channels
        │   └── feed.json.gz
        │   └── assets
        │       └── artworks
        │       │   └── live_channel_1.png
        │       │   └── live_channel_2.png
        │       └── snapshots
        │           └── live_channel_1.png
        │           └── live_channel_2.png
        └── live_programs
            └── feed.json.gz
            └── assets
```

1.1.3 Notification

Rakuten TV marketplace provides an API to notify that the files are finally uploaded.
The partner has to do a request to:

```
POST https://marketplace.rakuten.tv/v1/deliveries
```

Required parameters:

- path *(string)*: Path where the files have been uploaded.

POST request Example:

```
POST https://marketplace.rakuten.tv/v1/deliveries?path=20201212203845
```

The request must be authenticated with the header "X-API-key".
The API will response with 202 code if the request is processed successfully.
If the path doesn't exist under the partner root_path, we will return a 404.

Rakuten

1.2 Integration with external streaming

This section describes how to integrate partner's contents with Rakuten TV marketplace via external streaming.
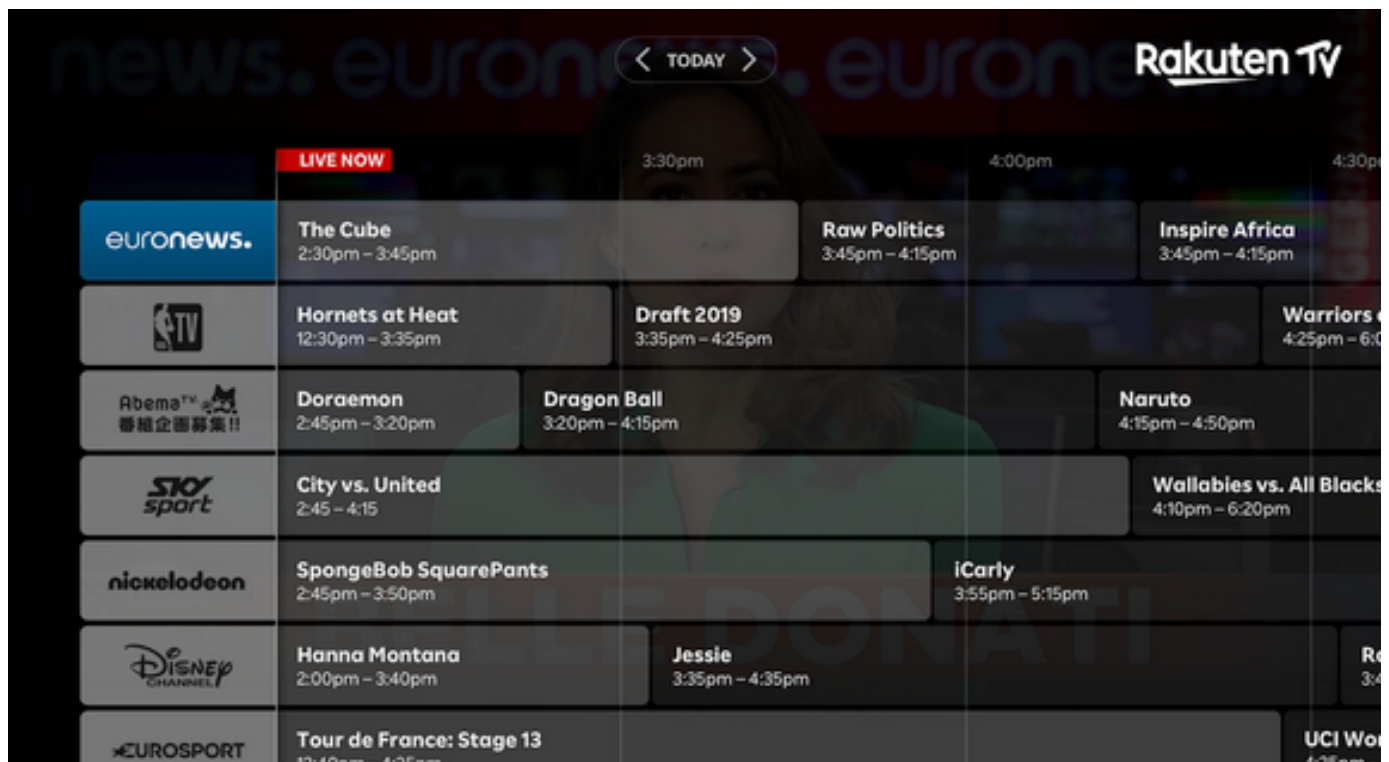
In this type of integration, the partner will need to send us a feed with the metadata of the content the partner wants to publish in the marketplace and the partner must implement a service with the endpoints that we define in **API integration section** for the users, terms&conditions and streaming. When a user plays a content, RakutenTV will request the streams and license server to this API, the partner must return this information and the user will play the content in Rakuten TV application. If the partner has a subscription plan that wants to sell in the marketplace, the partner must provide a service where implements the APIs for user, terms&conditions and billing integration. With this API, Rakuten TV will create users and subscriptions in the partner platform.

1.2.1 Live channels

A live channel is a set of live programs that will be shown together. Rakuten TV marketplace includes a set of live channels in one page.

Partners can create as many live channels as they want and manage them through this feed. Live channels' places will be arranged by the partner and Rakuten TV.

Fields

- **Action** *(string, required)*

  Operation that the partner wants to do for a specific live channel.
  Possible values:

    – "create", new live channel that partner wants to add to Rakuten TV marketplace. Bear in mind that all fields that have the *required* property, are mandatory in order to create a new live channel.
    – "update", existing live channel that partner wants to modify. *Action* and *id* are mandatory. Bear in mind that all the present fields will be updated.
    – "delete", existing live channel that partner wants to remove from Rakuten TV marketplace. Just *action* and *id* fields are required.

- **Id** *(string, required)*

  Unique identifier of the live channel in the partner's platform.

- **Images** *(array, required)*

  Content's images. There are two types of images:

    – artwork: Content's cover image.
    – snapshot: Image took from the content video.

Rakuten

```json
{
  "images":[
    {
      "type":"artwork",
      "locale":"en",
      "url":"http://s3.com/assets/artwork-en.jpg"
    },
    {
      "type":"artwork",
      "locale":"es",
      "url":"http://s3.com/assets/artwork-es.jpg"
    },
    {
      "type":"snapshot",
      "url":"file://local_path/assets/snapshot.jpg"
    }
  ]
}
```

Field	Type	Description	Restrictions
type	*string* *(required)*	Image type.	Possible values: – "artwork" – "snapshot"
locale	*string* *(required)*	ISO 639-1 language code.	Required if type is "artwork". Possible values: **See allowed locales below.** It must be unique.
url	*text* *(required)*	image URL. – *file://* to request for a local file. – *http://* or *https://* to request for a remote file	Possible values: – when type is "artwork": * Minimum width 320px – when type is "snapshot": * Minimum width 1920px Aspect ratio should be 1.78 Supported formats: PNG and JPEG. Maximum size 5MB.

- **Market** *(string, required)*

  Live channel's market code, according to ISO 3166-1 Alpha-2 codes. Possible values: **See allowed market codes below.**

Rakuten

- **Original title** *(string, required)*

Live channel's original title.

- **Titles** *(array, required)*

Live channel's titles by locale.

```
{
  "titles":[
    {
      "locale":"en",
      "text":"Sport Channel"
    },
    {
      "locale":"es",
      "text":"Deportes"
    }
  ]
}
```

Field	Type	Description	Restrictions
locale	*string (required)*	ISO 639-1 language code.	Possible values: **See allowed locales below.** It must be unique.
text	*string (required)*	Live channel's title.	Maximum length 255 characters.

- **View options** *(hash, required)*

Options available to the user to reproduce the content, describing the combinations of video qualities, audio qualities, audio languages, subtitle languages and HDR types to be published in the platform. The information is organized as we describe in the following lines.

The published options have to be split depending on the nature of the published content. We separate publicly available assets (without requiring any right) and private/protected ones. Inside of each of the sections, several types of content can be also specified:

- **Private** Used to describe content protected by DRM which is either ads-supported or requires the user to pay for it (by purchasing, renting or being subscribed to a plan that includes it). It is often the main content described at metadata level.
- **Public** Used to describe publicly available contents that may require DRM protection or not. Additional contents besides the main one are usually described here, though main content can also be included (i.e. the case of a public linear channel).

Each of the above described sections must contain a **Streams** section to describe the main content of the channel.

Rakuten

A list of available combinations of audio qualities, audio languages, HDR types, streaming and DRM type, subtitle languages and video qualities should be provided, in such a way that common traits are compacted in single entries containing multiple properties. The Cartesian product of all elements of each property with all other elements in different properties will result in the final view options to be published in the platform.

```json
{
  "view_options":{
    "private":{
      "streams":[
        {
          "audio_languages":[
            "ENG",
            "SPA"
          ],
          "audio_qualities":[
            "2.0"
          ],
          "hdr_types":[
            "NONE"
          ],
          "markets":[
            "ES",
            "GB"
          ],
          "streaming_drm_types":[
            "SS-PR",
            "DASH-CENC"
          ],
          "subtitle_languages":[
            "ENG",
            "MIS",
            "SPA"
          ],
          "video_qualities":[
            "SD",
            "HD"
          ]
        }
      ]
    }
  }
}
```

- **Audio Languages** *(array, required)* List of the audio language identifiers in which the content should be published. **See the list of all supported languages below.** Notice the MIS code cannot be used in this field.

- **Audio Qualities** *(array, required)* Array of the audio quality identifiers in which the content should be published. **See the list of all supported audio qualities below.**

- **HDR Types** *(array, required)* List of the HDR type identifiers in which the video should be published. **See the list of all supported HDR types below.**

- **Markets** *(array, required)* List of the market identifiers in which the view option should be published. **See the list of all available markets below.**

- **Subtitle Languages** *(array, required)* List of the subtitle language identifiers in which the content should be published. **See the list of all supported languages below.** Notice the MIS code (Unicoded languages) must be included in this field as a placeholder to indicate no subtitles. Absence of MIS code would mean that the stream could not be viewed without subtitles (other languages have to be specified in that case).

- **Streaming DRM Types** *(array, required)* List of the supported combinations of Streaming Technology and DRM protection shcema. For each combination, a content URL and an optional (if required) license URL must be provided, so clients with different capabilities can reproduce the content.

Field	Type	Description	Restrictions
id	*string (required)*	Streaming DRM type codes.	Possible values: **See allowed streaming DRM types below.** It must be unique.
External License URL	*string (optional)*	URL to obtain the DRM license to reproduce the content.	Maximum length 255 characters.
External URL	*string (required)*	Content URL to start the streaming session.	Maximum length 255 characters.

- **Video Qualities** *(array, required)* List of the video quality identifiers in which the content should be published. **See the list of all supported video qualities below.**

Complete live channel example

```
{
  "version":"1.3.1",
  "resources":[
    {
      "action":"delete",
      "id":"4"
    },
    {
      "action":"create",
      "id":"1",
      "images":[
        {
          "type":"logo",
```

Rakuten

```json
        "url":"file://my_partner/live_channels/assets/logo.svg"
      }
    ],
    "market": "ES",
    "original_title":"Lorem Ipsum",
    "titles":[
      {
        "locale":"en",
        "text":"Lorem Ipsum"
      },
      {
        "locale":"es",
        "text":"Lorem Ipsum"
      }
    ],
    "view_options":{
      "private": {
        "stream":[
          {
            "audio_languages":[
              "SPA"
            ],
            "audio_qualities":[
              "2.0"
            ],
            "hdr_types":[
              "NONE"
            ],
            "markets":[
              "ES"
            ],
            "streaming_drm_types":[
              "SS-PR",
              "DASH-CENC"
            ],
            "subtitle_languages":[
              "MIS"
            ],
            "video_qualities":[
              "SD",
              "HD"
            ]
          },
          {
            "audio_languages":[
              "ENG"
            ],
            "audio_qualities":[
```

```
            "2.0"
          ],
          "hdr_types":[
            "NONE"
          ],
          "markets":[
            "GB"
          ],
          "streaming_drm_types":[
            "SS-PR",
            "DASH-CENC"
          ],
          "subtitle_languages":[
            "MIS"
          ],
          "video_qualities":[
            "SD",
            "HD"
          ]
        }
      ]
    }
  }
}
]
}
```

1.2.2 Live programs

This section describes the metadata to publish a live program on Rakuten TV marketplace.

Fields

- **Action** *(string, required)*

  Operation that the partner wants to do for a specific content. The partner only have to include the changes they want. Possible values:

  - "create", new content that partner wants to add to Rakuten TV marketplace. Bear in mind that all fields that have the *required* property, are mandatory in order to create a new instance of the content.
  - "update", existing content that partner wants to modify. *Action* and *id* are mandatory. Bear in mind that all the present fields will be updated.
  - "delete", existing content that partner wants to remove from Rakuten TV marketplace. Just *action* and *id* fields are required. Bear in mind that if a content is removed, it will be removed from the subscription plans and lists where it is included.

- **Cast** *(hash, optional)*

People related to the content.

```json
{
  "cast":{
    "participants":[
      {
        "name":"Jimmy Fallon",
        "images":[
          {
            "type":"photo",
            "url":"http://s3.com/assets/casts/jimmy_fallon.jpg"
          }
        ]
      }
    ]
  }
}
```

- **Participants**

  Participants related to the content.

Field	Type	Description	Restrictions
name	*string (required)*	Name of the participant.	Maximum length 255 characters.
images	*array (optional)*	Fields: * **type** *(string, required)*: Image type. * **url** *(text, required)*: · *file://* to request for a local file. · *http://* or *https://* to request for a remote file.	* **type:** Maximum length 255 characters. Possible values: · "photo" * **url:** Image restrictions: · Aspect Ratio: 0.66 · Minimum width 300px · Maximum size 3MB. · Supported formats: PNG and JPEG.

- **Classifications *(array, required)***

  Content classifications/ratings by market

Rakuten

```json
{
  "classifications":[
    {
      "market":"ES",
      "code":"PG"
    },
    {
      "market":"GB",
      "code":"PK-12"
    }
  ]
}
```

Field	Type	Description	Restrictions
market	*string (required)*	ISO 3166-1 Alpha-2 country code.	Possible values: **See allowed markets below.**
code	*string (required)*	Classification's code.	Possible values: **See allowed classifications below.**

- **Descriptions** *(array, required)*

Content's description by locale.

```json
{
  "descriptions":[
    {
      "locale":"en",
      "text":"Lorem Ipsum is simply dummy text of the printing and
          typesetting industry. Lorem Ipsum has been the industry's
          standard dummy text ever since the 1500s, when an unknown
          printer took a galley of type and scrambled it to make a type
          specimen book."
    },
    {
      "locale":"es",
      "text":"Lorem Ipsum is simply dummy text of the printing and
          typesetting industry. Lorem Ipsum has been the industry's
          standard dummy text ever since the 1500s, when an unknown
          printer took a galley of type and scrambled it to make a type
          specimen book."
    }
  ]
}
```

Rakuten

Field	Type	Description	Restrictions
locale	*string (required)*	ISO 639-1 language code.	Possible values: **See allowed locales below.** It must be unique.
text	*text (required)*	Content description.	Maximum length 700 characters.

- **Ends at** *(datetime, required)*

  Time in UTC when the content will be finished to be available.

  Format: *yyyy-mm-ddTHH:MM:SSZ*
  Restrictions:

    – Must be greater than starts_at time.

- **External ids** *(array, optional)*

  Unique identifier of the content in *The Movie Database* or *IMDB*.

```
{
  "external_ids":[
    {
      "site":"tmdb",
      "id":"1234"
    },
    {
      "site":"imdb",
      "id":"2234"
    }
  ]
}
```

Field	Type	Description	Restrictions
site	*string (required)*	Site name.	Possible values: – "tmdb" (The Movie Database, www.themoviedb.org) – "imdb" (IMDB, www.imdb.com)
id	*string (required)*	Content's ID in the platform.	Maximum length 255 characters.

Rakuten

- **Id** *(string, required)*

Unique identifier of the content in the partner's platform.

- **Images** *(array, optional)*

Content's images. There is one type of image:

  – snapshot: Image took from the content video.

```
{
  "images":[
    {
      "type":"snapshot",
      "url":"file://my_partner/episodes/assets/snapshot.jpg"
    }
  ]
}
```

Field	Type	Description	Restrictions
type	*string (required)*	Image type.	Maximum length 255 characters. Possible values: – "snapshot"
url	*text (required)*	image URL. – *file://* to request for a local file. – *http://* or *https://* to request for a remote file	Maximum length 255 characters. Possible values: – Aspect ratio should be 1.78 – Minimum width 1920px Supported formats: PNG and JPEG. Maximum size 5MB.

- **Live channel ID** *(string, required)*

Live channel's ID.

- **Starts at** *(datetime, required)*

Time in UTC when the content will be started to be available.

Format: *yyyy-mm-ddTHH:MM:SSZ*
Restrictions:

  – Must be greater or equal than now.

- **Tags** *(array, optional)*

  Array of content's tags or keywords. Just english tags are allowed. They will be used in search.

- **Titles** *(array, required)*

  Content's title by locale.

```
{
  "titles":[
    {
      "locale":"en",
      "text":"Lorem Ipsum"
    },
    {
      "locale":"es",
      "text":"Lorem Ipsum"
    }
  ]
}
```

Field	Type	Description	Restrictions
locale	*string (required)*	ISO 639-1 language code.	Possible values: **See allowed locales below.** It must be unique.
text	*string (required)*	Content's title.	Maximum length 255 characters.

Complete live programs example

```
{
  "version":"1.3.1",
  "resources":[
    {
      "action":"delete",
      "id":"4"
    },
    {
      "action":"create",
      "cast":{
        "participants":[
          {
            "name":"Jimmy Fallon",
            "images":[
              {
                "type":"photo",
```

Rakuten

```json
          "url":"http://s3.com/assets/casts/jimmy_fallon.jpg"
        }
      ]
    }
  ]
},
"classifications":[
  {
    "market":"ES",
    "code":"PG"
  },
  {
    "market":"GB",
    "code":"PK-12"
  }
],
"descriptions":[
  {
    "locale":"en",
    "text":"Lorem Ipsum is simply dummy text of the printing and
        typesetting industry."
  },
  {
    "locale":"es",
    "text":"Lorem Ipsum is simply dummy text of the printing and
        typesetting industry."
  }
],
"ends_at":"2012-04-23T17:00:00.000Z",
"external_ids":[
  {
    "site":"tmdb",
    "id":"1234"
  },
  {
    "site":"imdb",
    "id":"2234"
  }
],
"id":"1",
"images":[
  {
    "type":"snapshot",
    "url":"file://my_partner/movies/assets/snapshot.jpg"
  }
],
"live_channel_id": "1234",
"starts_at":"2012-04-23T18:00:00.000Z",
```

```json
      "tags":[
        "Comedy"
      ],
      "titles":[
        {
          "locale":"en",
          "text":"Lorem Ipsum"
        },
        {
          "locale":"es",
          "text":"Lorem Ipsum"
        }
      ]
    }
  ]
}
```

A   Appendix

A.1   Allowed classifications by market

- **Spain**

Code	Description
T	Show only content suitable for all ages.
E	Show only content for children.
7	Show only authorized content for children up to 7 years old.
12	Show only authorized content for children up to 12 years old.
13	Show only authorized content for children up to 13 years old.
16	Show only authorized content for children up to 16 years old.
18	Show all contents, excluding adult content.
NC	Without official classification.
X	Show all contents, including adult content.

- **United Kingdom**

Code	Description
U	Includes content suitable for all ages.
PG	Includes content suitable for kids with parental guidance.
12	Excludes content for ages older than 12.
15	Excludes content for ages older than 15.
18	Includes all content, except not classified content.
NR	Includes all content, even if not classified.
R18	Includes adult content.

- **France**

Code	Description
Tous	Includes content suitable for all ages.
10	For ages 10 and up.
12	For ages 12 and up.
16	For ages 16 and up.
18	For ages 18 and up.

Rakuten

Code	Description
X	Includes all content, including adult content.

- **Germany**

Code	Description
FSK 0	Includes content suitable for all ages.
FSK 6	Excludes content for ages older than 6.
FSK 12	Excludes content for ages older than 12.
FSK 16	Excludes content for ages older than 16.
FSK 18	Includes all content.

- **Italy**

Code	Description
T	Includes content suitable for all ages.
B	Accompanied children.
12	Excludes content for ages older than 12.
14	Excludes content for ages older than 14.
18	Excludes content for ages older than 18.
X	Includes all content, including adult content.

- **Japan**

Code	Description
G	Includes content suitable for all ages.
PG12	Excludes content for ages older than 12.
R15+	Excludes content for ages older than 15.
R18+	Excludes content for ages older than 18.
Adult	Includes all content, including adult content.

A.2   Allowed countries

Name	Code
Aruba	AW

Rakuten

Afghanistan	AF
Angola	AO
Albania	AL
Andorra	AD
United Arab Emirates	AE
Argentina	AR
Armenia	AM
American Samoa	AS
Antarctica	AQ
French Southern Territories	TF
Australia	AU
Austria	AT
Burundi	BI
Belgium	BE
Burkina Faso	BF
Bangladesh	BD
Bulgaria	BG
Bahrain	BH
Bahamas	BS
Belarus	BY
Belize	BZ
Bermuda	BM
Brazil	BR
Barbados	BB
Brunei Darussalam	BN
Bhutan	BT
Bouvet Island	BV
Botswana	BW
Central African Republic	CF
Canada	CA

Rakuten

Cocos (Keeling) Islands	CC
Switzerland	CH
Chile	CL
China	CN
Cameroon	CM
Congo	CG
Cook Islands	CK
Colombia	CO
Cabo Verde	CV
Costa Rica	CR
Cuba	CU
Cyprus	CY
Germany	DE
Dominica	DM
Denmark	DK
Ecuador	EC
Egypt	EG
Eritrea	ER
Spain	ES
Estonia	EE
Finland	FI
France	FR
Georgia	GE
Guernsey	GG
Ghana	GH
Gibraltar	GI
Guinea	GN
Gambia	GM
Greece	GR
Guatemala	GT

Rakuten

Guam	GU
Guyana	GY
Hong Kong	HK
Honduras	HN
Croatia	HR
Hungary	HU
Indonesia	ID
Isle of Man	IM
India	IN
Ireland	IE
Iceland	IS
Israel	IL
Italy	IT
Jamaica	JM
Jersey	JE
Jordan	JO
Japan	JP
Kazakhstan	KZ
Kenya	KE
Cambodia	KH
Kiribati	KI
Kuwait	KW
Lebanon	LB
Liberia	LR
Liechtenstein	LI
Sri Lanka	LK
Lithuania	LT
Luxembourg	LU
Macao	MO
Morocco	MA

Rakuten

Madagascar	MG
Mexico	MX
Malta	MT
Montenegro	ME
Mongolia	MN
Mozambique	MZ
Mauritania	MR
Montserrat	MS
Malaysia	MY
Mayotte	YT
Namibia	NA
Nigeria	NG
Nicaragua	NI
Niue	NU
Norway	NO
Nepal	NP
Nauru	NR
Netherlands	NL
New Zealand	NZ
Oman	OM
Pakistan	PK
Pitcairn	PN
Peru	PE
Philippines	PH
Palau	PW
Papua New Guinea	PG
Poland	PL
Puerto Rico	PR
Portugal	PT
Paraguay	PY

Rakuten

French Polynesia	PF
Qatar	QA
Romania	RO
Rwanda	RW
Saudi Arabia	SA
Sudan	SD
Senegal	SN
Singapore	SG
Sierra Leone	SL
El Salvador	SV
San Marino	SM
Somalia	SO
Saint Pierre and Miquelon	PM
Serbia	RS
South Sudan	SS
Sao Tome and Principe	ST
Suriname	SR
Sweden	SE
Seychelles	SC
Syrian Arab Republic	SY
Turks and Caicos Islands	TC
Chad	TD
Togo	TG
Thailand	TH
Tokelau	TK
Turkmenistan	TM
Timor-Leste	TL
Tonga	TO
Trinidad and Tobago	TT
Tunisia	TN

Rakuten

Turkey	TR
Tuvalu	TV
Uganda	UG
Ukraine	UA
United Kingdom	UK
United States	US
United States Minor Outlying Islands	UM
Uruguay	UY
Uzbekistan	UZ
Holy See (Vatican City State)	VA
Saint Vincent and the Grenadines	VC
Virgin Islands & British	VG
Virgin Islands & U.S.	VI
Vanuatu	VU
Samoa	WS
Yemen	YE
South Africa	ZA
Zambia	ZM
Zimbabwe	ZW

A.3   Allowed languages

ISO 639-3	ISO 639-1	Name
AFR	af	Afrikaans
AMH	am	Amharic
ARA	ar	Arabic
ARG	an	Aragonese
AST	NONE	Asturian; Bable; Leonese; Asturleonese
BAM	bm	Bambara
BEN	bn	Bengali
BOD	bo	Tibetan

Rakuten

BOS	bos	Bosnian
BUL	bg	Bulgarian
CAT	ca	Catalan; Valencian
CES	cs	Czech
DAN	da	Danish
DEU	de	German
ELL	el	Greek
ENG	en	English
EST	et	Estonian
EUS	eu	Basque
FAS	fa	Persian
FIN	fi	Finnish
FRA	fr	French
GLE	ga	Irish
GLG	gl	Galician
GRN	gn	Guarani
GSW	NONE	Swiss German; Alemannic; Alsatian
HEB	he	Hebrew
HIN	hi	Hindi
HRV	hr	Croatian
HUN	hu	Hungarian
HYE	hy	Armenian
IND	id	Indonesian
ISL	is	Icelandic
ITA	it	Italian
JPN	ja	Japanese
KAT	ka	Georgian
KAZ	kk	Kazakh
KOR	ko	Korean
KUR	ku	Kurdish

Rakuten

LAT	la	Latin
LAV	lv	Latvian
LIN	ln	Lingala
LIT	lt	Lithuanian
LTZ	lb	Luxembourgish; Letzeburgesch
MIS	NONE	Uncoded languages
MON	mn	Mongolian
MRI	mi	Maori
MSA	ms	Malay
MUL	NONE	Multiple languages
MYA	my	Burmese
MYN	NONE	Mayan languages
NEP	ne	Nepali
NLD	nl	Dutch; Flemish
NOR	no	Norwegian
POL	pl	Polish
POR	pt	Portuguese
PUS	ps	Pushto; Pashto
RON	ro	Romanian; Moldavian; Moldovan
RUS	ru	Russian
SCN	NONE	Sicilian
SGN	NONE	Sign Languages
SLK	sk	Slovak
SLV	sl	Slovenian
SPA	es	Spanish; Castilian
SQI	sq	Albanian
SRD	sc	Sardinian
SRP	sr	Serbian
SWA	sw	Swahili
SWE	sv	Swedish

Rakuten

TAM	ta	Tamil
TGL	tl	Tagalog
THA	th	Thai
TUR	tr	Turkish
UKR	uk	Ukrainian
URD	ur	Urdu
VIE	vi	Vietnamese
WEL	cy	Welsh
YID	yi	Yiddish
ZHO	zh	Chinese
ZXX	NONE	No linguistic content; Not applicable

A.4   Allowed locales

Name	Code
English	en
Spanish	es
French	fr
German	de
Italian	it
Japanese	ja

A.5   Allowed markets

Name	Code
United Kingdom	GB
Spain	ES
France	FR
Germany	DE
Italy	IT
Japan	JP

Rakuten

A.6 Allowed video qualities

Code	Description
SD	Less than 720 progressive lines.
HD	More than 720 progressive lines but less than 2160.
UHD	More than 2160 progressive lines.

A.7 Allowed audio qualities

Code	Description
2.0	Two stereo channels.
5.1	Surround channels in Dolby Digital +.
atmos	Dolby Digital Atmos.
dtsc	Surround channels in DTS Core.

A.8 Allowed HDR types

Code	Description
NONE	Standard dynamic range.
HDR10	High dynamic range in HDR10 format.
DOLBY_VISION	High dynamic range in Dolby Vision format.
HDR10_PLUS	High dynamic range in HDR10+ format.

A.9 Allowed genres

- Action
- Adult Cinema
- Adventure
- Alternative
- Animation
- Anime
- Asian Cinema
- British
- Chinese Cinema

- Classics

- Comedy

- Crime

- Docs & Specials

- Drama

- Erotic

- Family

- Fantasy

- French Cinema

- German Cinema

- Horror

- Indie

- Italian Cinema

- Japanese Cinema

- Korean Cinema

- Musical

- Romance

- Science Fiction

- Spanish Cinema

- Sports

- Suspense

- Thriller

- War

- Western

- Other

A.10   Allowed device types

Code	Description
android	Android mobile devices.
android_stb	Android set-top-box devices.
ios	Apple iOS mobile devices.
web	Web browsers.

Rakuten

A.11 Allowed streaming DRM types

Code	Streaming technology	DRM protection
DASH-NONE	DASH	Clear content
DASH-CENC	DASH	Common Encryption (Microsoft Playready or Widevine Modular)
HLS-NONE	HLS	Clear content
PD-NONE	Progressive Download	Clear content
PD-WVN	Progressive Download	Widevine Classic
SS-NONE	Microsoft Smooth Streaming	Clear content
SS-PR	Microsoft Smooth Streaming	Microsoft Playready

Rakuten