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## Welcome to the Samsung XR Developers Page

This page contains information that may be useful to website and application developers.

Topics include:

- [Samsung XR PublishSDK](#)
- [Embedding a Samsung XR Service Video on a Web Page](#)
- [Launching Samsung XR using an Android Intent](#)
- [Determining if Samsung XR is Installed](#)

### Samsung XR PublishSDK

The PublishSDK is provided to help your 360 camera or video editing application to publish 360 videos directly to the Samsung XR Service.

#### Q: What do I need to use the PublishSDK?

A: An API key. Download this Python key generator tool ([https://s3.amazonaws.com/volt360-code/generate\\_key.py](https://s3.amazonaws.com/volt360-code/generate_key.py)) to generate API keys.

#### Q: What can I do with the SDK?

A: The SDK supports the following functionality:

- Authenticating existing users
- Publishing 360 videos
- Get a list of a user's own videos.
- Live streaming (pre-beta)

#### Q: What languages can I use?

A:

- You can use any language to access our HTTP REST API directly. Here you can find a detailed description of the HTTP REST API ([https://samsungvr.com/portal/content/REST\\_API](https://samsungvr.com/portal/content/REST_API))
- Android Java SDK provides higher level support for Android programmers. You can check out the latest Android SDK package ([https://github.com/SamsungVR/android\\_publish\\_sdk](https://github.com/SamsungVR/android_publish_sdk)) from GitHub.
- .NET SDK (written in C#) provides higher level support for Windows programmers. You can check out the latest .NET SDK package ([https://github.com/SamsungVR/dotnet\\_upload\\_sdk](https://github.com/SamsungVR/dotnet_upload_sdk)) from GitHub.
- OSX and iOS SDK - coming soon

### Embedding a Samsung XR Service Video on a Web Page

For details on how to embed a Samsung XR service video on your own web page, please see our [Samsung XR is ending service for its XR apps on September ...](#) MORE INFO (/PORTAL/WHATSNOW/A\_MESSAGE\_FROM\_SAMSUNGXR)

Embed Video Help (/portal/content/videoEmbedHelp) page.



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 Launching Samsung XR using Web Links



Samsung XR can be launched to play a video using a Web Link. The examples in this section show how to launch Samsung XR for Gear VR to play a video. To launch Samsung XR mobile (our Android companion app) instead, replace `samsungvr://sideload/` in the examples with `samsungvrmobile://sideload/`.

To stream a video that can be accessed using an http based URL, the web link URL format would look as follows:

```
samsungvr://sideload/?url=https://samsungvr.com/ui/CMS/CarBee.mp4&video_type=_mono360&audio_type=_5.1&title=videotitle
```

The `title` parameter should be considered mandatory as no title will be displayed (it will be blank) if one is not provided.

The `video_type` and `audio_type` parameters are optional. If the `video_type` is not specified, the video will be played using the Monoscopic 360 format ( `_mono360` ). If an `audio_type` is not specified, the video will be played in Mono, Stereo, or 5.1 Spatial, depending on the audio information in the file. See the

Samsung XR for Gear VR FAQ (<https://help.content.samsung.com/csweb/auth/gosupport.do?serviceCd=samsungvr&chnlCd=WEB&targetUrl=/faq/searchFaq.do>)

for detailed information about all the supported Video Types and Audio Types, along with their respective string codes.

A web link can also be used to stream a video file stored locally on a device. For example, to stream a video located in a folder named MyVideos in your device root directory, the URL format would look like this:

```
samsungvr://sideload/?url=file:///storage/emulated/0/MyVideos/CarBee.mp4&audio_type=_5.1&title=videotitle
```

Note that `/storage/emulated/0` is the Android path to the root directory of your device. This path must follow `file://` resulting in three slashes ( `/ / /` ) total.

Since the `video_type` of the CarBee.mp4 video is `_mono360`, the `video_type` parameter is optional for this URL and has been omitted in this example.

## Launching Samsung XR using an Android Intent

To launch Samsung XR from your own Android application, an Android Intent can be used. Intents can be used to play your own video, play a Samsung XR Service video, play a list of videos, and to view a specific Samsung XR Service channel.

### Playing Your Own Video

The Android Java intent code below can be used to launch Samsung XR from your own Android application and play whatever side loaded or locally stored video you would like. The example shows how to launch Samsung XR for Gear VR. To launch Samsung XR mobile instead, replace `samsungvr://sideload/` in the example with `samsungvrmobile://sideload/`.

```
Intent i = new Intent();
i.setData( Uri.parse( "samsungvr://sideload/?url=your_video_url&audio_type=your_audio_type
&video_type=your_video_type&title=your_title" ) );
startActivity(i);
```

In the above example, `your_video_url` can be either an `http://` or `file://` URL. See the section above regarding Web Links to understand the difference. The parameter rules discussed in the Web Links section also apply here.

### Playing a Samsung XR Service Video

If you have the URL for a Samsung XR Service video, the Android Java intent code below can be used to launch Samsung XR for Gear VR and play that video. To launch Samsung XR mobile instead, replace the package name `com.samsung.vrvideo` in the example with `com.samsung.android.video360`.

```
Intent i = new Intent();
i.setPackage( "com.samsung.vrvideo" );
i.setData( Uri.parse( "https://samsungvr.com/view/hnKxdZe3_Vb?&seek_time=5" ) );
startActivity(i);
```

In the above example, [https://samsungvr.com/view/hnKxdZe3\\_Vb](https://samsungvr.com/view/hnKxdZe3_Vb) is the URL of a Samsung XR Service video. The URL for a video can be obtained by playing the video on [samsungvr.com](https://samsungvr.com). The `seek_time` parameter indicates the point in the video to start playing in seconds.

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The Android Java intent code below can be used to launch Samsung XR for Gear VR to play one or more videos. This option is not available for Samsung XR mobile. Within the Samsung XR for Gear VR application, all of the videos in the provided playlist are shown in a special **Playlist** channel when the **Device** icon is selected.

```
Intent i = new Intent();
i.setPackage( "com.samsung.vrvideo" );
i.setData( Uri.parse( "samsungvr://playlist/?json=" + json_playlist ) );
startActivity(i);
```

In the above example, `json_playlist` is a JSON string identifying the videos to be played, similar to the example below, but without the formatting added for readability:

```
{
  "version": 1,
  "start_index": 0,
  "seek_time": 5000,
  "videos": [{
    "source": "samsungvr",
    "title": "Invisible | Trailer",
    "video_id": "CD_zxGQ1Q_1",
    "video_type": "_mono360",
    "audio_type": "other",
    "duration": 98.71,
    "video_url": "https://360samsungvr.com/cdn/CD_zxGQ1Q_1/master_list.m3u8",
    "thumbnail_url": "https://360samsungvr.com/resource/item/jpg_thumbnail/CD_zxGQ1Q_1"
  }, {
    "source": "gallery",
    "title": "vrintro_3DH",
    "video_id": "ext6215",
    "video_type": "3dh",
    "audio_type": "other",
    "duration": 122.0,
    "video_url": "file:///storage/emulated/0/Movies/vrintro_3DH.mp4",
    "thumbnail_url": "file:///storage/emulated/0/Movies/vrintro_3DH.png"
  }, {
    "source": "dlna",
    "title": "new_wave_binaural_3DV (2015)",
    "video_id": "e2cff3cf309a6149512d",
    "video_type": "3dv",
    "audio_type": "_binaural",
    "duration": 137.00,
    "video_url": "http://172.28.154.30:32469/object/e2cff3cf309a6149512d/file.mp4",
    "thumbnail_url": "http://172.28.154.30:32469/proxy/d72a3eeb4073df299dbe/albumart.jpg"
  }
  ]
}
```

The top level fields are mandatory and are defined as follows:

Field	Description
version	The version number of the JSON format used. Must be set to 1.
start_index	A zero based index value identifying the video in the videos array to start play with.
seek_time	A time in milliseconds at which to start playback of the video identified via the start_index.
videos	A JSON array of one or more videos to play.

The fields shown for each video in the videos array are mandatory and are defined as follows:

Field	Description
source	The source of the video. Set to <code>samsungvr</code> for Samsung VR Service videos, <code>gallery</code> for videos located on the device, or <code>dlna</code> for videos streamed from a DLNA Media Server.
title	The title to be displayed for the video.

video\_id A unique id for the video. For a video with a the source field set to `samsungvr`, this must be the Samsung VR id for the video. For videos ending service for its XR apps on September 1, 2019, this can be an id of your choosing, but each video in the `videos` array must have a unique id. [MORE INFO \(/PORTAL/WHATNEW/A\\_MESSAGE\\_FROM\\_SAMSUNGXR\)](#)

video\_type A Video Type code indicating the video format for the video. See the [Samsung VR for Gear VR FAQ \(https://help.content.samsung.com/csweb/auth/gosupport.do?serviceCd=samsungvr&chnlCd=WEB&targetUrl=/faq/searchFaq.do\)](https://help.content.samsung.com/csweb/auth/gosupport.do?serviceCd=samsungvr&chnlCd=WEB&targetUrl=/faq/searchFaq.do) for detailed information about all the supported Video Types, along with their respective string codes.



audio\_type An Audio Type code indicating the audio format for the video. Set to `_binaural` for videos using Binaural audio, `quadraphonic` for videos using Quadraphonic audio, or `other` for videos using Mono, Stereo, or 5.1 Spatial audio. See the [Samsung VR for Gear VR FAQ \(https://help.content.samsung.com/csweb/auth/gosupport.do?serviceCd=samsungvr&chnlCd=WEB&targetUrl=/faq/searchFaq.do\)](https://help.content.samsung.com/csweb/auth/gosupport.do?serviceCd=samsungvr&chnlCd=WEB&targetUrl=/faq/searchFaq.do) for detailed information about all the supported Audio Types, along with their respective string codes.

duration The duration of the video in seconds.

video\_url A URL specifying the video to play. The URL can identify a video file or an HLS stream. See the section about Web Links on this page for the URL format for identifying local device videos.

thumbnail\_url A URL to a thumbnail image for the video.

## Viewing a Samsung VR Service Channel

If you have the URL for a Samsung XR Service channel, the Android Java intent code below can be used to launch Samsung XR for Gear VR to view that channel. To launch Samsung XR mobile instead, replace `com.samsung.vrvideo` in the example with `com.samsung.android.video360`.

```
Intent i = new Intent();
i.setPackage( "com.samsung.vrvideo" );
i.setData( Uri.parse( "https://samsungvr.com/channels/546b9e7326278a6f989ac72b" ) );
startActivity(i);
```

In the above example, `https://samsungvr.com/channels/546b9e7326278a6f989ac72b` is the URL for a Samsung XR Service channel. The URL for a Samsung XR channel can be obtained by viewing the channel on [samsungvr.com](https://samsungvr.com).

## Determining if Samsung XR is Installed

The Android package name for Samsung XR for Gear VR is `com.samsung.vrvideo` and the Android Java code below can be used to verify that the application is installed. To determine if Samsung XR mobile is installed, replace the package name `com.samsung.vrvideo` in the example with `com.samsung.android.video360`.

```
String packageName = "com.samsung.vrvideo";
PackageManager packageManager = getPackageManager();
ApplicationInfo applicationInfo = null;
try {
    applicationInfo = packageManager.getApplicationInfo(packageName, 0);
} catch (NameNotFoundException e) {
    // Package not found
}
if (applicationInfo != null) {
    // Samsung VR for Gear VR Installed
} else {
    // Not Installed
}
```

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(<http://apps.samsung.com/appquery/appDetail.as?appld=com.samsung.android.video360>) (<https://play.google.com/store/apps/details?id=com.samsung.android.video360>)

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