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# **Flash Specification**

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**Version 1.10**

**Samsung Smart TV**

## Flash Specification

We support both AIR for TV and Flash Player as App Engine Plug-In in our platform, but only support the emulation of Flash Player as App Engine Plug-In in our SDK.

We recommend to use Adobe development and authoring tool such Adobe CS tool or Flash Builder for emulating AIR for TV application or SWF file.

Here's the detailed specification of AIR for TV and Flash Player in our platform.

### 1. AIR for TV (or Standalone Flash Player)

- AIR Version : 2.5
- SWF Version : Flash 10.1
- Action-Script : 2.0, 3.0
- Installing and Emulation of AIR application on SDK not supported.

### 2. Flash Player as App Engine Plug-In

- SWF Version : Flash Lite 3.1
- Action-Script Version : 2.0
- Emulation in App Engine on SDK supported

### 3. Graphic Resolution

- AIR for TV : 1280x720, 960x540
- Flash Player as App Engine Plug-In : less than 960x540

### 4. Sound Format (AIR for TV and Flash Player)

- Format : MP3
- Bit-rate (recommended) : 56kbps, 128kbps or 192kbps
- Sample rate (recommended) : 44100kHz, 22050kHz, or 11025kHz

## Flash Specification

### 5. Video (AIR for TV and Flash Player)

- Resolution : up to 1920x1080
- SW Codec : On2 VP6, Sorenson Spark
- HW Codec : H.264 BP/SP + AAC-LC
- Recommended Video Resolution
  - : On2, Sorenson - less than 320x240 (because of SW Codec limitation)
  - : H.264 – less than 1920x1080

### 6. On Screen Keyboard (Both)

- Flash application could not invoke On Screen Keyboard in Java-script.  
For text input, Flash application should embed their own IME or  
On Screen keyboard.