OpenAV Cloud Specifications

About OpenAV Cloud

OpenAV Cloud is an industry-wide initiative designed to advance cloud connectivity and API-driven innovation across the audiovisual sector.

Goals

- **Interoperability** - Create a seamless, integrated AV ecosystem where different brands and platforms work together without proprietary constraints
- **Standardization** - Drive adoption of open standards and cloud connectivity to benefit the entire value chain, from manufacturers through integrators to end users
- **Customer Choice** - Ensure buyers have flexibility and freedom to choose across different brands while maintaining integrated experiences
- **Technical Infrastructure** - Develop read-write open APIs enabling genuine cross-platform compatibility and grant customers data export capabilities
- **Security & Trust** - Implement industry best practices for protecting customer data and privacy throughout cloud operations

Specifications

Specification	Version	Description
AV Device Taxonomy Guidelines	0.2	Taxonomy of AV devices organized into categories based on their function, usage context, and technical characteristics
AV Device Minimum Functionality Guidelines	1.0	Minimum functionality requirements for AV devices including device status, inventory, operations, networking, and discovery
AV Device Security Guidelines	1.0	Security requirements covering firmware integrity, secure communications, authentication, data protection, and vulnerability management

Converting to PDF

A script is provided to convert all Markdown specification files to PDF format using pandoc.

Usage

```
./scripts/convert-to-pdf.sh
```

The script will: - Recursively find all `.md` files in the specifications directory - Convert each to PDF in the same location - Skip any directories named `orig` (archive folders)

Installing Pandoc

Pandoc requires a PDF engine (LaTeX distribution) to generate PDFs.

Windows

1. **Install pandoc:**

   ```
   winget install JohnMacFarlane.Pandoc
   ```

   Or download the installer from pandoc.org/installing.html

2. **Install MiKTeX (LaTeX distribution):**

   ```
   winget install MiKTeX.MiKTeX
   ```

   Or download from miktex.org

macOS   Using Homebrew:

```
brew install pandoc
brew install --cask mactex
```

Or for a smaller LaTeX installation:

```
brew install pandoc
brew install --cask basictex
```

Linux   Debian/Ubuntu:

```
sudo apt update
sudo apt install pandoc texlive-latex-base texlive-fonts-recommended texlive-xetex
```

Fedora:

```
sudo dnf install pandoc texlive-scheme-basic texlive-xetex
```

Arch Linux:

```
sudo pacman -S pandoc texlive-core
```