Umetrix® Video

Non-Reference Test API Guide

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1.   Introduction

Overview

This guide describes how to access the Umetrix® Video non-reference test API, which is a RESTful API library for full-capture and real-time non-reference tests including 4K non-reference tests. This API uses Swagger for in-code documentation of each supported command.

NOTE:
To access this API, you must have the required Spirent license.

API Commands

The following API commands are available:

- **BufferingWindowProfiles**
  - List buffering window profiles
  - Add buffering window profile
  - Update buffering window profile
  - Delete buffering window profile
- **Channels**
  - List information for channels
  - Enable channel
  - Disable channel
  - Configure channel
  - Set buffering window profile for channel
  - Is channel ready
- **Licensing**
  - Get current activation code
  - Set current activation code
- **Methodologies** (list methodologies)

- **Sessions**
    - List sessions
    - Get session
    - Start (create) session
    - Stop session
    - Cancel session processing
    - Get session KPIs
    - Process unprocessed sessions
    - Get session report
    - Create session report
    - Import session
    - Permanently delete a session
    - Remove a list of sessions
    - Import video
    - Mark session as processed
    - Mark session as unprocessed
    - Update the named session with the provided motion box
    - Upload a video (avi/mp4) and import into a new session
- **Settings**
    - Retrieve the non-reference test settings
    - Set the respective non-reference test parameters
- **System**
    - Get the current system status
    - Get system version
    - Get the currently set methodology
    - Set the current methodology
    - Get the status of the devices
    - Retrieve all log files from the specified date and later

Access the Latest Documentation

To access the latest Umetrix Video documentation, perform the following steps:

1. Log into the Spirent Customer Service Center website (**http://support.spirent.com**) using the email address and password assigned to you by Spirent.

2. In the Search Knowledge Base box, enter *DOC1151* and click on **Search KB**.

   The Spirent Umetrix® Video (Chromatic) Documentation page appears.

3. In the Documentation section, click on the link for the document in which you are interested.

   The page for the selected document appears.

4. Click on the link in the Attachment area to view the corresponding PDF.

How to Contact Us

To obtain technical support for any Spirent Communications product, please contact our Support Services department using any of the following methods:

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The Spirent Knowledge Base (**http://support.spirent.com**) is designed to serve your technical information needs. The Knowledge Base gives you access to tens of thousands of documents that help answer your network analysis and measurement questions. New content is added daily by Spirent's communications and networking experts. Sign in with your user ID and password to gain access to additional content that is available only to customers – user manuals, Help files, release notes, Tech Bulletins, and more. When you sign in, you can also use the Knowledge Base to download software and firmware, and to manage your SRs.

Information about Spirent Communications and its products and services can be found on the main company website at **http://www.spirent.com**.

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Document Conventions

This document uses the following conventions:

- Text you type appears *in this type style*

- Keyboard keys are displayed IN THIS TYPE STYLE

2.   Accessing the API

Overview

The Umetrix Video non-reference test API is located on the Umetrix Video laptop and Umetrix Video tower PC. You can access this API in either of the following ways:

- from the web browser on the Umetrix Video laptop or Umetrix Video tower PC

- from a web browser on another PC that is in the same subnet as the Umetrix Video laptop or Umetrix Video tower PC

Prerequisites

To access the Umetrix Video non-reference test API, you must have:

- the required Spirent license

- a web browser

NOTE:
If you want to access the API from another PC, that PC must be in the same subnet as the Umetrix Video laptop or Umetrix Video tower PC, and you must add an Inbound Rule to Windows Defender Firewall on the Umetrix Video laptop or Umetrix Video tower PC to allow connections to TCP port 5000.

Things to Consider

Keep in mind the following information when using the non-reference test API:

- You should have experience using restful APIs.

- Umetrix Video must be running before you call any API command.

- If you want to perform any captures, make sure the devices you want to test are connected to the Universal Hub or Umetrix Video tower PC and streaming video.

- If you are performing imports or processing files, the devices do not have to be connected to the Universal Hub or Umetrix Video tower PC.

Access the API from the Umetrix Video PC

You can access the API from either the Umetrix Video laptop or the Umetrix Video tower PC.

Perform the following steps:

1. On the Umetrix Video laptop or Umetrix Video tower PC, open a web browser.

2. Go to the following URL: **localhost:5000/swagger**

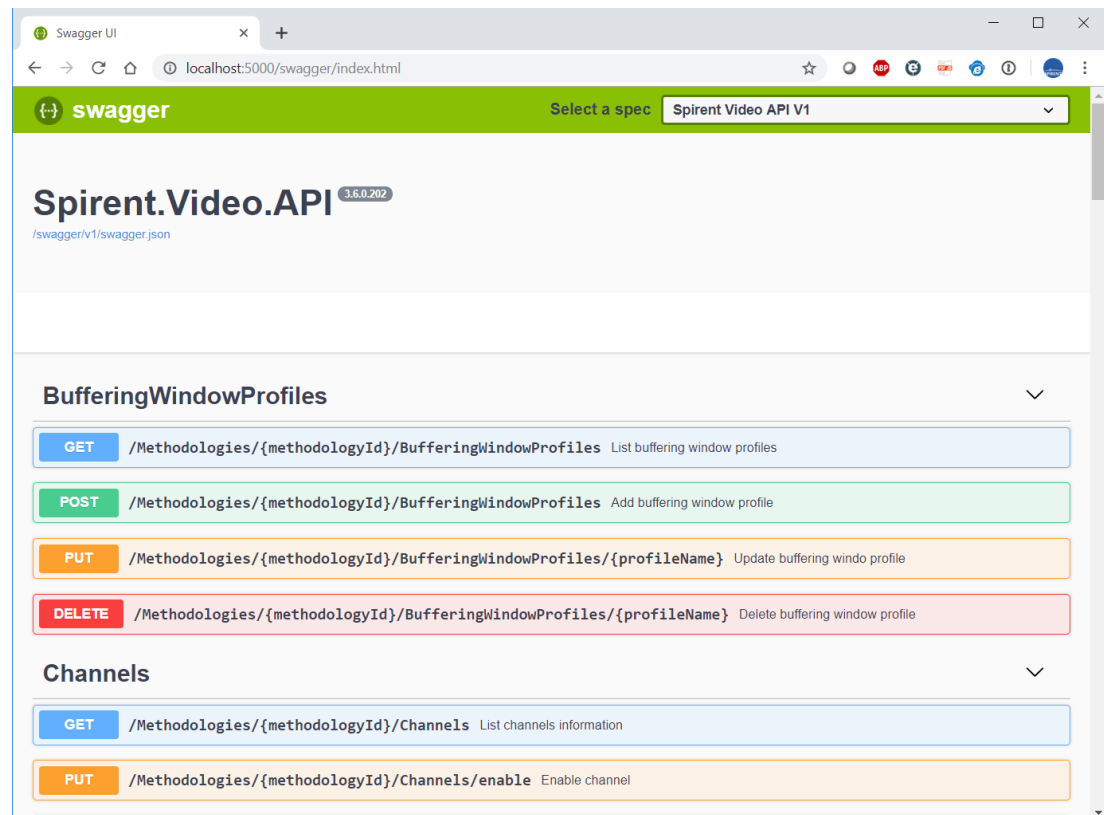   The Swagger page appears and displays the Spirent Video API.

Figure 1. Swagger page showing the Spirent Video API .

Access the API Remotely

Use this procedure to access the non-reference test API remotely using a different PC that is in the same subnet as the Umetrix Video laptop or Umetrix Video tower PC.

Before performing this procedure, make sure:

- You know the IP address of the Umetrix Video laptop or Umetrix Video tower PC.

- You have added an Inbound Rule to Windows Defender Firewall on the Umetrix Video laptop or Umetrix Video tower PC to allow connections to TCP port 5000.

- The PC you are using is in the same subnet as the Umetrix Video laptop or Umetrix Video tower PC.

Perform the following steps:

1. Make sure the PC is on the same subnet as the Umetrix Video laptop or Umetrix Video tower PC.

2. Open a web browser.

3. Go to the following URL: ***IP address*:5000/swagger/index.html**
   where ***IP address*** is the IP address of the Umetrix Video laptop or Umetrix Video tower PC.

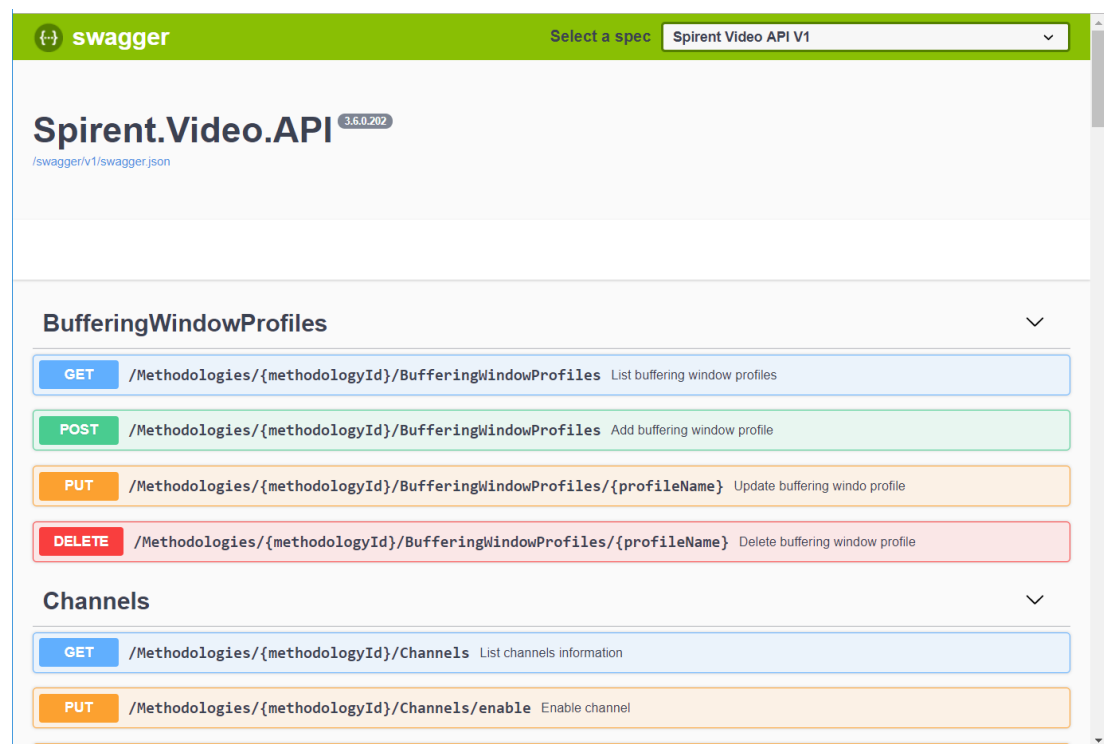   The Swagger page appears and displays the Spirent Video API.

Figure 2. Swagger page showing the Spirent Video API .