



Wowza Streaming Engine REST API

Customize your streaming solution



WOWZA
STREAMING
ENGINE™

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Agenda

In this session you'll learn the following:

- The benefits of using the RESTAPI to develop your streaming solution
- How to get started with the RESTAPI documentation
- Ways to query the Wowza™ RESTAPI service (with some cURL examples)



PRESENTERS

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Wowza Streaming Engine APIs

JAVA API

- Wowza Streaming Engine is built using Java technology
- Wowza Streaming Engine includes access to a Java-based API

The Java API can be used to:

- Extend and customize the core server features
- Integrate closely with external systems including databases, storage, web servers, image processing, etc.

REST API

- Wowza Streaming Engine 4.2 includes a new REST API component
- The REST API is separate from the Java API

The REST API enables:

- Custom development of applications for Wowza Streaming Engine for
 - remote management
 - configuration
 - monitoring



“RESTful interfaces create a level of simplicity that didn’t exist previously, and simplicity always speeds things up, making integrations cost-effective.”

- John Musser, ProgrammableWeb

REST API

What is REST?

RESTful API

GET PUT POST DELETE

- Representational State Transfer (REST) is a software architecture style for building scalable web services.
- Web service APIs that adhere to the REST architectural constraints are called RESTful APIs.
- HTTP based RESTful APIs have these aspects:
 - Base URI (Uniform Resource Identifier)
 - an Internet media type for the data (e.g. JSON, XML)
 - standard HTTP methods (GET, PUT, POST, DELETE)
 - hypertext links to reference state
 - hypertext links to reference related resources

Why use REST?



Enterprise Integration

Performance
Reliability



Easy UI Development

Simplicity
Modifiability
Visibility



Highly Scalable Solutions

Scalability
Portability

Wowza Streaming Engine Manager

Built on top of the REST API

Browser-based management to:

- Set up streaming applications
- Manage your streams
- Monitor, and measure video and audio streams

from a computer, tablet, or mobile device.

The screenshot displays the Wowza Streaming Engine Manager interface. At the top, there is a navigation bar with the logo and menu items: Home, Server, Applications, and Help. The main content area features a large heading 'Welcome to Wowza Streaming Engine!' followed by 'Monthly Subscription' and 'Status'. Below this, there are two primary charts: 'Connections Incoming and outgoing' (a line graph showing activity between 12:00 pm and 12:30 pm) and 'Usage CPU, Memory, Heap and Disk' (a horizontal bar chart). The usage chart shows Wowza CPU at approximately 15%, Wowza Heap at 10%, Total Memory at 25%, and Total Disk at 50%. At the bottom left, 'Server Uptime' is listed as 'Since 10 Apr 2014 09:03:26 AM'. At the bottom right, 'AddOns' are listed: Transcoder: Running, DRM: Enabled, and nDVR: Running, each with a link to 'see applications'.

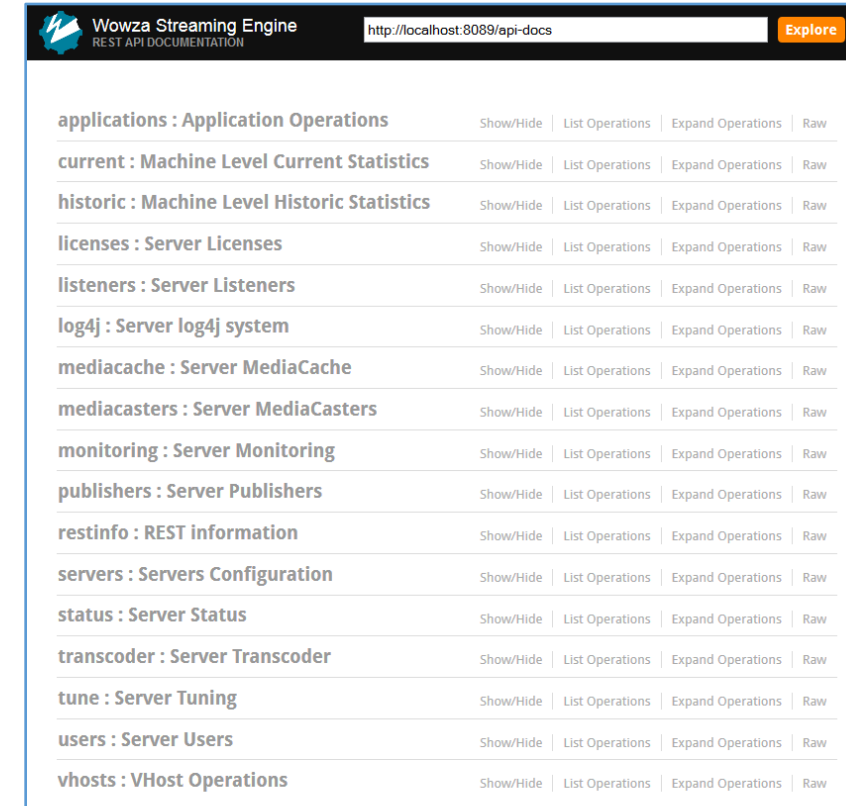
Wowza Streaming Engine REST API

Installation

- Install Wowza Streaming Engine 4.2 software using the installer
- Software installation has the properties needed to configure access to the REST API documentation
- www.wowza.com/forums/content.php?644-How-to-access-documentation-for-Wowza-Streaming-Engine-REST-APIs

Configuration

- Enable the Wowza Streaming Engine REST API documentation servlet
- Configure the software to allow the webpage to access the documentation servlet
- Swagger based URI endpoint documentation is built into Wowza Streaming Engine
- Use cURL to query the REST API
- www.wowza.com/forums/content.php?711-How-to-use-cURL-to-query-Wowza-REST-APIs



Wowza Streaming Engine REST API DOCUMENTATION		http://localhost:8089/api-docs		Explore
applications : Application Operations	Show/Hide	List Operations	Expand Operations	Raw
current : Machine Level Current Statistics	Show/Hide	List Operations	Expand Operations	Raw
historic : Machine Level Historic Statistics	Show/Hide	List Operations	Expand Operations	Raw
licenses : Server Licenses	Show/Hide	List Operations	Expand Operations	Raw
listeners : Server Listeners	Show/Hide	List Operations	Expand Operations	Raw
log4j : Server log4j system	Show/Hide	List Operations	Expand Operations	Raw
mediacache : Server MediaCache	Show/Hide	List Operations	Expand Operations	Raw
mediacasters : Server MediaCasters	Show/Hide	List Operations	Expand Operations	Raw
monitoring : Server Monitoring	Show/Hide	List Operations	Expand Operations	Raw
publishers : Server Publishers	Show/Hide	List Operations	Expand Operations	Raw
restinfo : REST information	Show/Hide	List Operations	Expand Operations	Raw
servers : Servers Configuration	Show/Hide	List Operations	Expand Operations	Raw
status : Server Status	Show/Hide	List Operations	Expand Operations	Raw
transcoder : Server Transcoder	Show/Hide	List Operations	Expand Operations	Raw
tune : Server Tuning	Show/Hide	List Operations	Expand Operations	Raw
users : Server Users	Show/Hide	List Operations	Expand Operations	Raw
vhosts : VHost Operations	Show/Hide	List Operations	Expand Operations	Raw

DEMONSTRATION

Wowza Streaming Engine REST API

Matt Young
Richard Lanham

Next Steps

DOWNLOAD WOWZA STREAM ENGINE 4.2

Wowza Streaming Engine 4.2 is now available for download: www.wowza.com/pricing/installer

Visit www.wowza.com/pricing/trial for a trial of Wowza Streaming Engine

VISIT THE SUPPORT FORUM

For more information on the REST API:
www.wowza.com/forums/content.php?642-wowza-streaming-engine-rest-api

Getting support

After you start using the REST API, some questions may arise.

To provide you with answers in the most efficient way, the Wowza team will provide active support and assistance during this preview.

If you send an email message to support@wowza.com, the Wowza team will respond quickly and appropriately to your questions, comments, and concerns.

Please provide as much detail as possible about how you're trying to use the REST API, the issues you're experiencing, and the specific hardware and software you're using.



Questions?

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