

An aerial photograph of a historic Italian city, likely Florence, showing a dense cluster of buildings with terracotta roofs and a river winding through the center. A large, ornate bridge is visible in the lower half of the image.

# DELPHIDAY



italian conference

**WiRL & OpenAPI**

Documentazione OpenAPI perfetta



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# DELPHIDAY

italian conference

9-10 Giugno 2026  
Piacenza



**wintech**  
italia



# GITHUB PROJECTS



[github.com/paolo-rossi](https://github.com/paolo-rossi)



## Delphi JWT

JSON Web Token Library



## Delphi Neon

JSON Serialization Library



## NATS Delphi

NATS Client Library for Delphi



## Linux Daemon

Real Linux daemons



## OpenAPI-Delphi

OpenAPI 3.0 Library





# GITHUB PROJECTS



[github.com/delphi-blocks](https://github.com/delphi-blocks)



## WiRL Library

REST Library for Delphi



## Logify

Meta Logger for Delphi



## MCPConnect

MCP Framework for Delphi



## Delphi-Blocks

A **real** package manager for Delphi



# AGENDA



1. OpenAPI
2. OpenAPI & WiRL
3. WiRL configuration
4. Examples



# OpenAPI

# 1



# OpenAPI: what it is

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- Standardized, programming language-agnostic format used to describe, document, and define HTTP APIs
- The evolution of the Swagger 2.0 specification
- A machine-readable format (JSON/YAML) to describe your service





# OpenAPI: what it is for

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- Allows humans and computers to discover and understand service capabilities
- Enables auto-generation of interactive documentation (Swagger UI)
- Facilitates client library and server stub generation







# OpenAPI: what does it do?

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- Outlines the core aspects of your API
  - **Endpoints:** The available URLs (/res) and operations (GET, POST).
  - **Parameters:** Required inputs, query strings, and headers.
  - **Request and Response Formats:** The exact data structures expected and returned.
  - **Authentication:** How users are authorized to access the API.



# OpenAPI: key benefits

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- **Interactive Documentation:** Generates beautiful, up-to-date documentation with a "try it out" feature so users can test live API calls right from the browser
- **Code Generation:** Automates the creation of server boilerplate and client SDKs in dozens of languages
- **Automated Testing:** Provides a definitive schema that testing tools can use to validate API behavior





# OpenAPI vs Swagger

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- They represent different things, they are not interchangeable
- **OpenAPI**: the specification itself (the open standard)
- **Swagger**: a suite of open-source tools (like Swagger Editor, Swagger UI, and Swagger Codegen) built by **SmartBear** to work with the OpenAPI Specification





# OpenAPI & WiRL

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- One of the first library to support OpenAPI 3.0 as API documentation
- Relies on Neon JSON Schema generation
- Integration with UI libraries to automatically publish OpenAPI documentation
  - SwaggerUI
  - Redoc
  - Scalar (coming soon)





# Documentation generation

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1. Automatic documentation generation from your code
2. Documentation augmentation with XMLDoc
3. Manual creation of TOpenAPIDocument
4. Documentation augmentation with OASDoc
5. Documentation change with a callback

**These can be use together**



```
1 FEngine.AddApplication(APP_PATH)
2   .SetAppName('PetStore')
3   .SetResources('*')
4   .SetFilters('*')
5
6   .Plugin.Configure<TWiRLConfigurationOpenAPI>
7     // Set the OpenAPI resource (to skip it in the documentation generation)
8     .SetOpenAPIResource(TDocumentationResource)
9
10    // Set the Delphi XML documentation output directory (Project -> Options -> Compiler)
11    .SetXMLDocFolder('{AppPath}\..\dist\XML')
12
13    // Set the Delphi JSON (OAS format) documentation output directory
14    .SetOASDocFolder('{AppPath}\..\dist\OAS')
15
16    // Set the folder to the html UI assets location
17    .SetGUIDocFolder('{AppPath}\..\dist\UI')
18    //.SetGUIDocFolder('{AppPath}\..\dist\ReDoc')
19
20    // Set the (optional) API logo
21    .SetAPILogo('api-logo.png')
22
23    // Set the OpenAPI document for the OpenAPI engine to fill
24    .SetAPIDocument(LDocument)
25
26  .ApplyConfig;
```





# Configure WiRL

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1. Enable XMLDoc generation
2. `.Plugin.Configure<IWiRLConfigurationOpenAPI>`
3. `.SetXMLDocFolder('{AppPath}\..\dist\XML')`
4. `.SetGUIDocFolder('{AppPath}\..\dist\UI')`





# Configure WiRL (optional)


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1. `.SetOpenAPIResource(TDocumentationResource)`
2. `.SetOASDocFolder('{AppPath}\..\dist\OAS')`
3. `SetAPIDocumentCallback(DocCallBack)`



An aerial photograph of a city, likely Florence, Italy, showing a dense urban landscape with a river (the Arno) winding through it. A large, prominent square (Piazza del Duomo) is visible in the lower center, featuring a large building with arches. The image is overlaid with a semi-transparent dark brown filter.

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## THANK YOU