techtalk.travel APS





API PROTOCOLS

JSON or JavaScript Object Notation is an encoding scheme that is designed to eliminate the need for an ad-hoc code for each application to communicate with servers that communicate in a defined way. JSON API module exposes an implementation for data stores and data structures, such as entity types, bundles, and fields.

REST (Representational State **Transfer)** is not a protocol like the other web services, instead, it is a set of architectural principles. The REST service needs to have certain characteristics, including simple interfaces, which are resources identified easily within





FOUR MAIN TYPES OF API's

- available.
- 2) available to the public.
- (3) and services.
- (4)

XML This is a protocol that uses a specific XML format to transfer data compared to SOAP that uses a proprietary XML format. It is also older than SOAP. XML uses minimum bandwidth and is much simpler than SOAP.



Open APIs: Also known as Public APIs, there are no restrictions to access these types of APIs because they are publicly

Partner / Closed APIs: A developer needs specific rights or licenses in order to access this type of API because they are not

Internal APIs: Also known as Private APIs, only internal systems expose this type of API. These are usually designed for internal use within a company. The company uses this type of API among the different internal teams to be able to improve its products

Composite APIs: This type of API combines different data and service APIs. It is a sequence of tasks that run synchronously as a result of the execution, and not at the request of a task. Its main uses are to speed up the process of execution and improve the performance of the listeners in the web interfaces.

SOAP VS. REST

SOAP (Commonl

It has strict rule security to follo

It is driven by Fu It requires more

JSON VS. XML

JSON

Supports only t

Focuses mainly

Easily understan

SOAP (Simple Object Access Protocol): This is a protocol that uses XML as a format to transfer











y used for Closed API's)	REST (Commonly used for Open API's)
s and advanced w.	There are loose guidelines to follow allowing developers to make recommendations easily
Inction	It is driven by Data
Bandwidth	It requires minimum Bandwidth

	XML
ext and numbers.	Supports various types of data for example text, numbers, images, graphs, charts etc.
on Data	Focuses mainly on Document.
ndable for beginners	Allows for more complex scenarios

SOURCE: The RapidAPI Blog, Snapshot.

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