

REST vs SOAP

Which one is
better?
or
Do we need to
compare them?



Practical uses of web services

- Retrieve information about TVs from Amazon
- Submit an Order to Amazon
- Update your phone number on Amazon
- Create your own web services to allow these operations on your own website

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- A good example is mobile app for Amazon or Facebook



Type of web services?



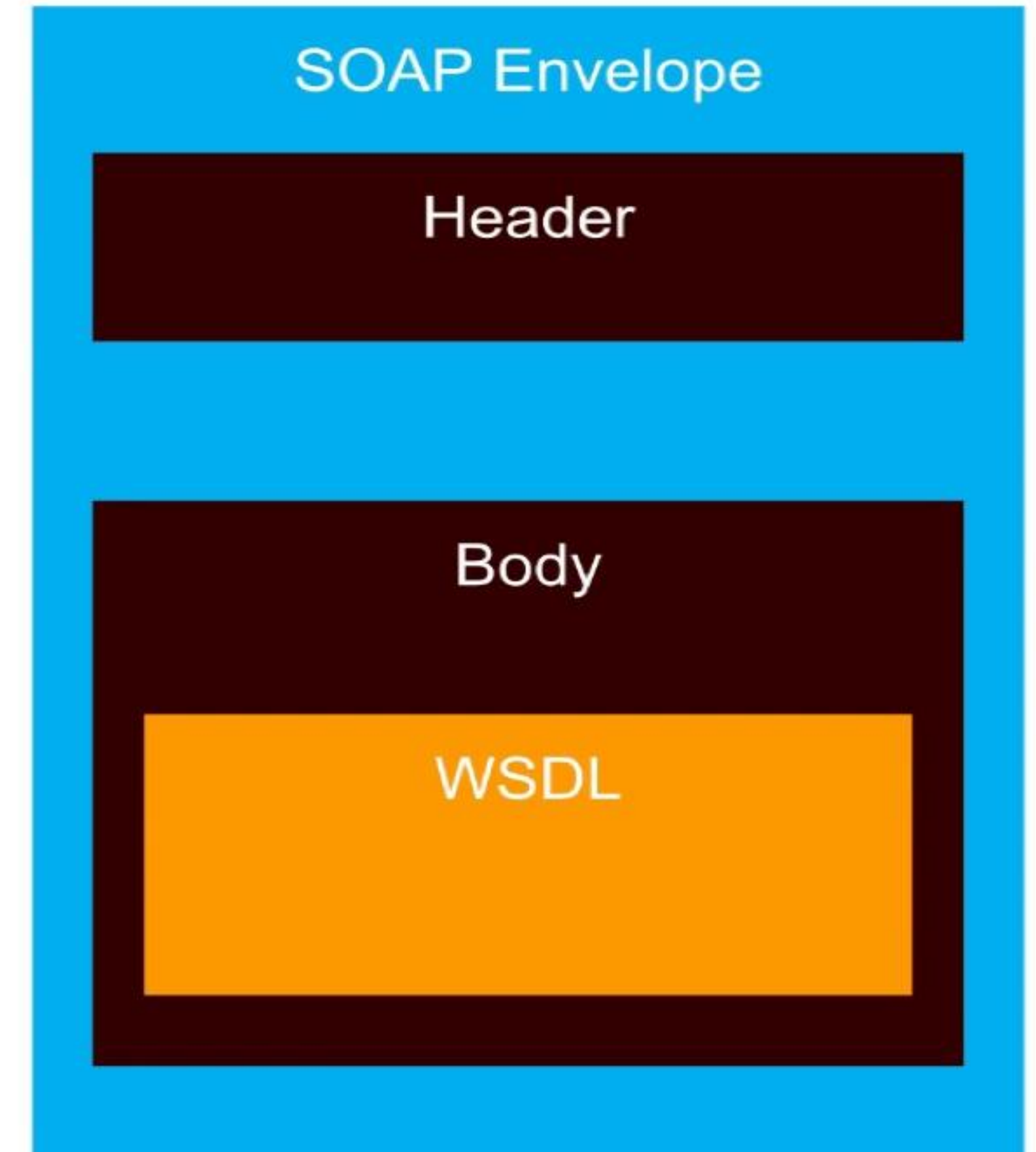
SOAP (1/2)

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- Simple Object Access Protocol
- Protocol
- Can work on almost any internet protocol
- Permits only XML

SOAP (1/2)

- Simple Object Access Protocol
- Protocol
- Can work on almost any internet protocol
- Permits only XML
- SOAP support SSL and WS-Security
- Envelope
- Requires more bandwidth



SOAP (2/2)

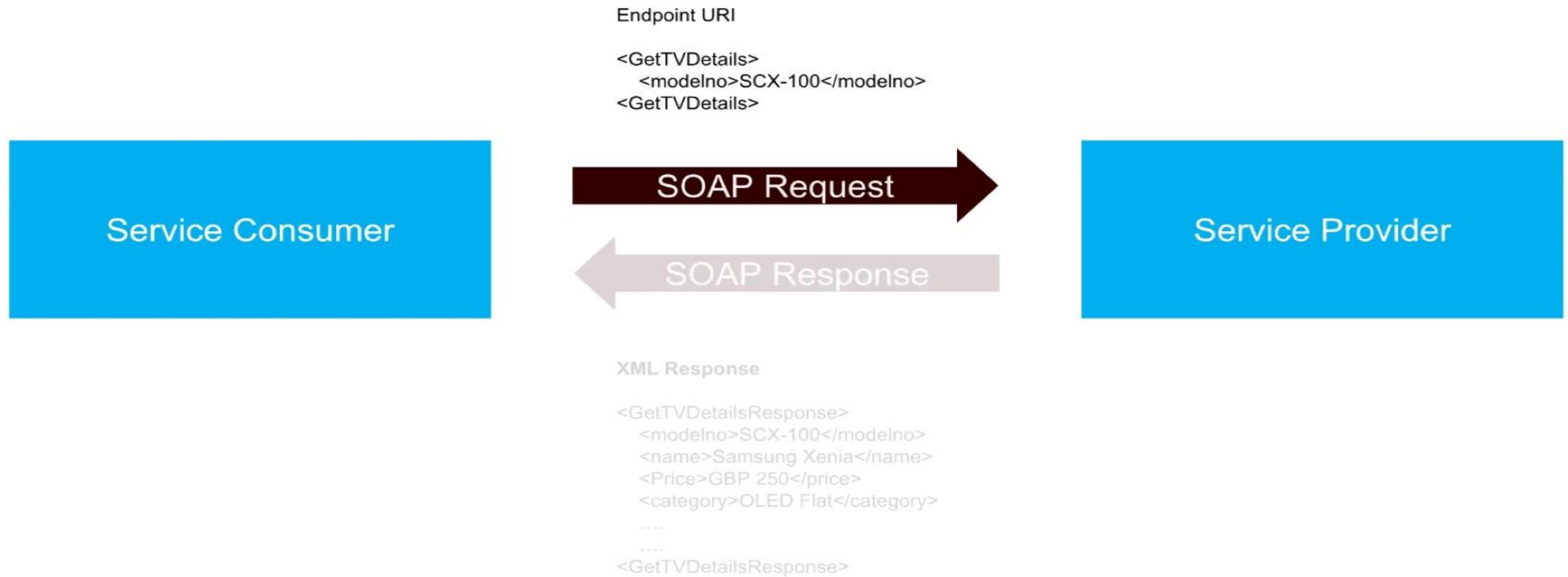


Service Consumer

The diagram consists of two blue rectangular boxes. The left box is labeled 'Service Consumer' and the right box is labeled 'Service Provider'. There are no arrows or other graphical elements between them.

Service Provider

SOAP (2/2)



REST (1/2)

REST (1/2)

- Representational State Transfer
- Architecture
- Works mostly HTTP
- REST uses HTTP for all 4 CRUD operations - HTTP Methods
 - Create (POST)
 - Read (GET)

What we are going to discuss?

REST (2/2)

Service Consumer

Service Provider

Comparison of SOAP vs REST

	SOAP	REST
Language independent	Yes	Yes

Comparison of SOAP vs REST

	SOAP	REST
Language independent	Yes	Yes
HTTP status codes	User defined	Uses HTTP status codes
Security	Very secure - used in banking as the whole envelop can be encrypted	Secure as well as HTTPS is used



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What we are going to discuss?

1. What is a web service?
2. Practical uses of web services
3. Type of web services
4. SOAP
5. REST
6. Comparison of SOAP vs REST

What is a web service? (1/2)

What is a web service? (1/2)

- Piece of software that makes itself available over the internet
- A collection of protocols and standards used for exchanging data between applications or systems

What is a web service? (2/2)

What is a web service? (2/2)

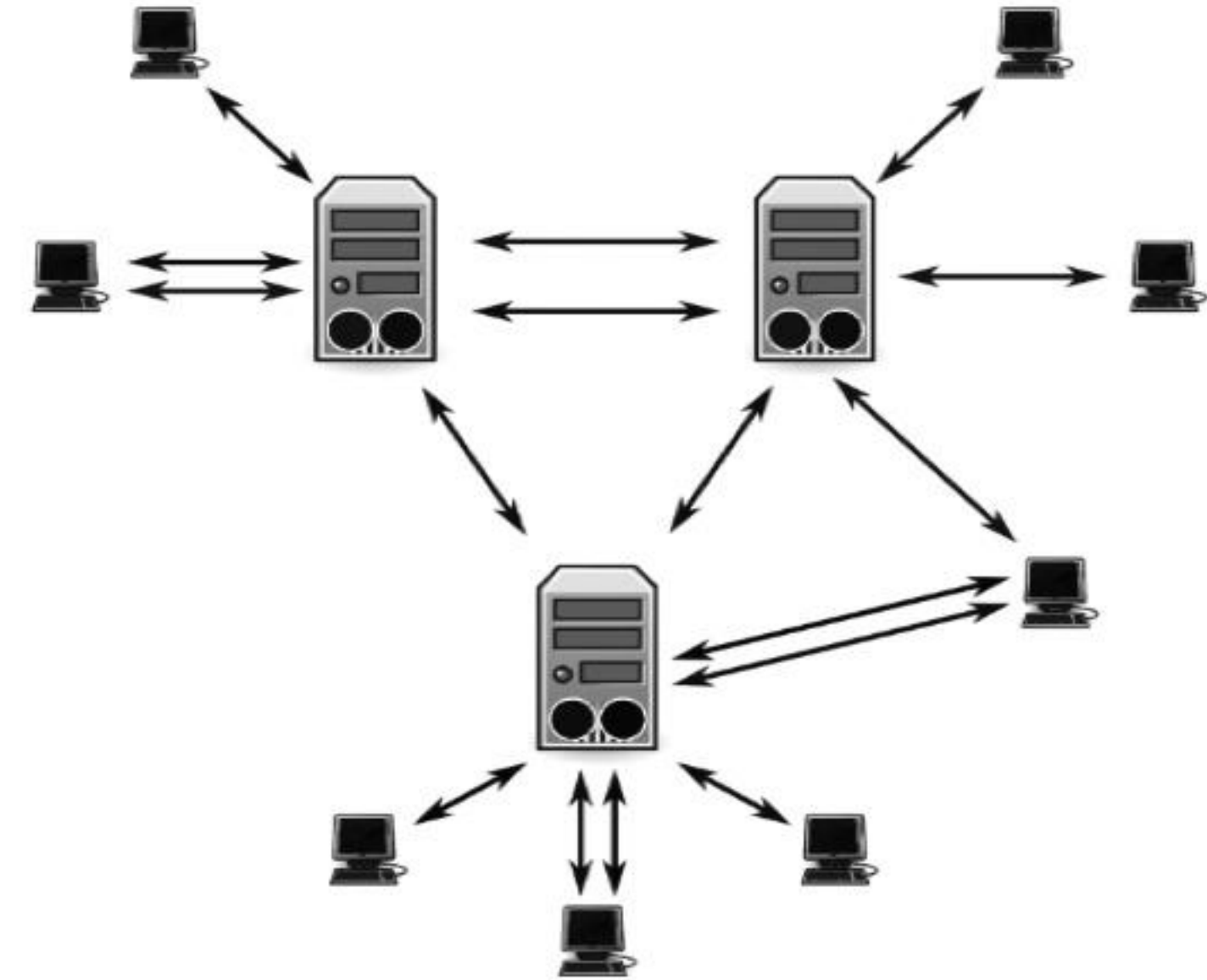


Websites allow humans
to communicate and
collaborate

What is a web service? (2/2)



Websites allow humans
to communicate and
collaborate



Web services allow
systems to communicate
and collaborate

Practical uses of web services