

Websites and apps use two methods to communicate with each other through online connections which are SOAP (Simple Object Access Protocol) and REST (Representational State Transfer). SOAP functions as a formal messenger system. The system operates through XML format specifications while following the strict guidelines. The communication method suits large businesses which would require dependable and secure systems such as banking and major corporations. The system includes security features and error detection capabilities. The strict set of rules governing this system makes it both slower and more difficult to work with. REST operates with a much more casual approach while providing users with a straightforward functionality. The system depends on standard URLs, and it uses GET and POST methods. The data format of choice for REST is JSON because it provides faster transmission and easier readability. The REST style has become widely adopted for mobile applications and web services because it provides fast operation with a simpler design. Developers need to implement security features independently because REST lacks built-in security features. SOAP serves complex secure systems better than REST but REST performs better for simple easy to use applications and websites.

#### References:

<https://aws.amazon.com/compare/the-difference-between-soap-rest/>

<https://www.redhat.com/en/topics/integration/whats-the-difference-between-soap-rest>