

## ABSTRACT

*Today's technology needs are getting higher, one of the technologies that continues to grow today is Web Service (WS). WS can increase service flexibility on a system. Security on WS is one of the things that needs attention. One effort to overcome this problem is JWT (JSON Web Token). JWT is an authentication mechanism on WS. This research will discuss the implementation of the RESTful authentication mechanism using JSON Web Tokens with the asymmetric RSA-512 algorithm. The test results show that the speed of the JWT generate token with the asymmetric RSA-512 algorithm on the RESTful WS architecture is quite slow, but tends to be stable. The size of the token produced is small. The speed of the authentication process is fast and relatively stable.*

*Keyword: JWT, RESTful, RSA, SOAP, Web.*