

SYSTEM AND METHOD FOR AUTHENTICATION, DATA TRANSFER, AND PROTECTION AGAINST PHISHING

ABSTRACT

Methods and systems for secure electronic data communication over public communication networks. A secure data communication component may be utilized to implement a communication protocol. New versions of the data communication component may be generated, with each version containing a different communication protocol. Source code of the data communication component may be modified using a polymorph engine to create a functionally-equivalent component having a different code structure. An anti-phishing component may intercept a link in an electronic communication activated by a user, analyze the link and the electronic communication, determine a phishing risk to the user posed by the link, and direct the user to a location indicated by the link or redirect the user to a valid location. A server authentication component may detect and prevent DNS attacks, injections, and defacing activities.

Fig.8