BitNickel also employs a streamlined, two-step button creation process, ensuring that BitNickel is as easy to use for merchants as it is for customers.

System Architecture

BitNickel relies on a network of systems between different components of the transaction. Green boxes signify the user/client domain, blue boxes are BitNickel’s responsibility, and yellow boxes are third-party services.

Security

As with all online financial products, security is of the utmost importance within the BitNickel system. The TCP payment system is inherently secure, due to the nature of the TCP protocol. As shown below, a two-way connection is required for TCP-based communication, meaning that an attacker who spoofs his IP address is unable to receive server-client communications.

BitNickel’s credit payment component uses state-of-the-art RSA encryption and off-the-shelf technology, and therefore its security is not detailed here. However, given the embeddable nature of the BitNickel widget, phishing attacks are an important concern. BitNickel uses a public key-based, per-page validation system – similar to site verification products provided by VeriSign and other vendors – to ensure that customers access the authentic BitNickel system.

In order to provide the most flexible service to customers, BitNickel also supports standard credit card payments. Charges are aggregated and billed monthly to reduce average transaction costs.