

A Random Number Generator Based on Tapered Amplifiers

Disclosure Number

201102727

Technology Summary

One of the most important problems with two factor authentication is the lack of true randomness. If a sufficiently high bandwidth true random number source could be used to generate true random keys, then a system using absolutely secure pre shared private keys could be implemented. In the case of cell phone communication, which is set to replace tokens as the key delivery system, true random number generators would be used on the back end. Quantum random number generators (QRNGs) are currently the best known technology to produce true random numbers with high bandwidth.

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