

Acceptable Encryption Policy

1.0 Purpose

The purpose of this policy is to provide guidance that limits the use of encryption to those algorithms that have received substantial public review and have been proven to work effectively. Additionally, this policy provides direction to ensure that Federal regulations are followed, and legal authority is granted for the dissemination and use of encryption technologies outside of the United States.

2.0 Scope

This policy applies to all Duke University's Fuqua School of Business (noted as "Fuqua" for the rest of this document) faculty, employees and affiliates.

3.0 Policy

All Fuqua encryption shall be done using NIST approved cryptographic modules. Common and recommended ciphers include AES 256, Triple DES and RSA. Symmetric cryptosystem key lengths must be at least 128 bits. Asymmetric crypto-system keys must be of a length that yields equivalent strength. Fuqua's key length requirements shall be reviewed annually as part of the yearly security review and upgraded as technology allows.

The use of proprietary encryption algorithms is not allowed for any purpose, unless reviewed by qualified experts outside of the vendor in question and approved by Duke's Office of Information Technology (OIT). Be aware that the export of encryption technologies is restricted by the U.S. Government. Residents of countries other than the United States should make themselves aware of the encryption technology laws of the country in which they reside.

4.0 Enforcement

Any employee found to have violated this policy may be subject to disciplinary action, up to and including termination of employment.

5.0 Definitions

Term	Definition
Proprietary Encryption	An algorithm that has not been made public and/or has not withstood public scrutiny. The developer of the algorithm could be a vendor, an individual, or the government.
Symmetric Cryptosystem	A method of encryption in which the same key is used for both encryption and decryption of the data.
Asymmetric Cryptosystem	A method of encryption in which two different keys are used: one for encrypting and one for decrypting the data (e.g., public-key encryption).

6.0 Revision History

Date	Who made the revision	Change made
2012-01-23	Fuqua Infrastructure	Initial issue

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