Cryptography Policy

Policy Owner: [Job title of policy owner]

Effective Date: [Date you choose, after which there will be consequences for personnel for non-

compliance]

Purpose

To ensure proper and effective use of cryptography to protect the confidentiality, authenticity and/or integrity of information. This policy establishes requirements for the use and protection of cryptographic keys throughout their entire lifecycle.

Scope

All information systems developed and/or controlled by nexelus.net which store or transmit confidential data.

Policy

nexelus.net shall evaluate the risks inherent in processing and storing data, and shall implement cryptographic controls to mitigate those risks where deemed appropriate. Where encryption is in use, strong cryptography with associated key management processes and procedures shall be implemented and documented. All encryption shall be performed in accordance with industry standards, including NIST SP 800-57.

For all personal data, nexelus.net shall consider the state of the art, the costs of implementation and the nature, scope, context, and purposes of processing as well as the risk of varying likelihood and severity to the rights and freedoms of natural persons, and implement appropriate technical and organizational measures surrounding the pseudonymization and encryption of data to ensure a level of security appropriate to the risk.

For all web traffic sent over the public Internet containing confidential, the TLS v1.2 protocol or better must be utilized.

Key Management

Access to keys and secrets shall be tightly controlled in accordance with the Access Control Policy.

The following table includes the recommended usage for cryptographic keys:

Domain	Кеу Туре	Algorithm	Key Length	Max Expiration
Web Certificate	Digital Signature	DSA or RSA PCKS#1	2048 bit	Up to 2 years for normal certificates, up to 10 years for root certificates.
Web Cipher	Encryption	AES	256 bit	N/A
Confidential	Encryption	AES	256 bit	1 Year
Password	Hash	or scrypt, ECDH	256 bit+10K Stretch	N/A
Laptop HDD	Encryption	AES	128 or 256 bit	N/A

Exceptions

Requests for an exception to this policy must be submitted to the [approver of requests for an

exception to this policy, e.g., IT Manager] for approval.

Violations & Enforcement

Any known violations of this policy should be reported to the [recipient of reports of violations of this policy, e.g., IT Manager]. Violations of this policy can result in immediate withdrawal or suspension of system and network privileges and/or disciplinary action in accordance with company procedures up to and including termination of employment.

Version	Date	Description	Author	Approved by
[1.0]	[29-Apr-2020]	[First Version]	[OWNER]	[APPROVER]