Overview of selected
KPN Security Policies

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Requirement	**Disposal of SSDs, flash storage media (USB Sticks), tablet, telefoon, or domotica**
Description	To dispose of data on an SSD or flash storage media the following methods are approved: Write a file the size of the disk volume to the disk; If the SSD support the Secure Erase feature then this can be used; Shredding of the storage medium; Using KSP-compliant encryption for full disk encryption and afterwards overwriting the encryption key with random data. When a tablet, telephone, or (home) domotica is received indefinitely (not for repair cases), data must be wiped by first decoupling the device from the Apple iCloud, associated Google account or other cloud service. After this obligatory step, the device must be factory reset.
Supplement	Solid state disks of any kind will use static or dynamic wear leveling. On the storage chip removing data or writing data is the same kind of activity on the chips. The result is that information will be left on the block on which it was previously written. This will result in a lot of left information for forensic analyses. The solution is to write data on the entire volume with random data.
ID	KSP-RE-451
Version	2.1
Date	February 1, 2019
Rationale	Cleaning of storage media

Requirement	Disposal of magnetic storage medium
Description	To dispose data on a magnetic storage medium, including tape, each of the following methods are approved: Zeroing all data from the first addressable byte until the last byte of the medium; Writing random bytes from the first addressable byte until the last byte of the medium; Degaussing of the medium; Shredding of the storage medium; Using KSP-compliant encryption for full medium encryption and afterwards overwriting the encryption key with random data. Special note goes to RAID-like storage solutions where hot-spare disks are used. All hot-spares must also be nullified.
ID	KSP-RE-452
Version	1.1
Date	February 1, 2019
Rationale	Cleaning of storage media

Requirement	**Media cleaning**
Description	Before disposal or re-use all media carrying information must be completely and irrecoverably cleaned by wiping all data from the media. If wiping of the medium can not be done in a reliable way destruction becomes mandatatory.
Supplement	To prevent information on re-used or disposed media being recovered and becoming exposed to unauthorized parties. Depending on costs and dependability of a cleaning solution the choice for either cleaning or re-use can be made. There is a large scale of potential information carrying media. They include but are not limited to: System media (hard drives, solid state disks, memory chips); Disposable media (memory sticks, CDs, DVDs, etc.); End user devices (phones, smartphones, tablets); Customer premises equipment (Residential gateways, Set-up-boxes, Power Line Connectors). It might not be possible, or too expensive, to irretrievably remove information. In such cases we might opt for destruction of the media or device instead.
ID	KSP-RE-399
Version	1.1
Date	February 1, 2019
Rationale	Cleaning of storage media

Requirement	Certified media wiping
Description	Making use of certified media wiping solutions is obligatory when: the data owner or data responsible is contractually bound to use certified solutions; the media was used to store sensitive data for national vital services; privacy sensitive information is stored on the media for which KPN is the legal data owner; the data is classified as secret. Data which does not fit in the mentioned categories may be wiped with alternative tooling, which maybe non-destructive to the media.
Supplement	In related KSP requirements alternative data wiping methods are explained which are good enough for KPN. This is under assumption that the media allow itself to be wiped in a proper way. This is sufficient for internal re-use and disposal of the media. The assumption must be made that "dumpster diving" forms a risk to KPN and customer data. When in doubt about the secure wiping capabilities certified disposal is still adviced.
ID	KSP-RE-400
Version	1.1
Date	February 1, 2019
Rationale	Cleaning of storage media

Requirement	**Disposal of magnetic disks assembled before 2001**
Description	Any harddisk assembled before 2001 must either be shredded or degaussed. Any other method is not allowed.
ID	KSP-RE-450
Version	1.0
Date	December 11, 2017
Rationale	Cleaning of storage media