



SILOGON

Multifactor workstation logon using GNT USB Token

Datasheet

(AN232310)

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1 Overview

- Product **SILOGON** by **SoftIdea** is a multifactor authentication system for workstations with operating systems Windows Vista a higher.
- User authenticates to the workstation after two conditions are met:
 - user possesses the appropriate hardware cryptography module - *GNT USB Token* ^[1]
and
 - user knows secret - *Token password*.
- **SILOGON** is dedicated for systems dealing with classified information. It fulfills requirements for levels *Top Secret* and lower defined in Slovak Republic Directive §5-3a 339/2004 Coll.

2 Principle

- User is holder of unique personal hardware authentication device *GNT USB Token* issued to her or him.
- *Token* contains users logon credentials (*user name* and *password in operating system*) in its secure storage.
- Credentials can be read out of *Token* only after user authenticates to the Token using *Token password*.
- During logon (for example during computer start up or anytime the user has to prove its identity to the operating system) user is prompted to input *Token password*. If correct the **SILOGON** credential provider automatically reads the user credentials out of the *Token* secure storage and authenticates to the operating system using the credentials.
- If subsequent trials to authenticate using wrong password are committed the *Token* automatically destroys all stored data and deinitializes itself. This feature secures the system against the brute force attack.

3 Operations

- **SILOGON** comprises tool set allowing to realize all standard operations of user account management. It allows
 - to store user credentials onto the *Token*,
 - to erase user credentials stored on *Token*,
 - to edit user credentials stored on *Token*,
 - to change *Token password*,
 - to reset *Token password* by administrator.

4 Applications

- **SILOGON** is dedicated for applications where stringent security requirements are put on the user identification and authentication.
- **SILOGON** fulfills requirements of the Slovak Republic Directive §5-3a 339/2004 Coll.

regarding authentication and identification of user to the technical means dealing with classified information of all defined levels including *Top Secret*.

5 Order code

GNT-SILOGON-X-Y-Z

X - *Token* mechanical case option: 1=standard, 2=customer specified

Y - Laser engraved text or graphics on the *Token* case: 0=without text or graphics, 1=customer specified

Z - Required initial threshold value of *Wrong Login Counter* feature. After continuous sequence of wrong login trials if *Wrong Login Counter* exceeds the threshold the *Token* destroys all stored data. Administrator can reinitialize *Token* with different value of *Wrong Login Counter* feature threshold if necessary. 0= *Wrong Login Counter* feature is disabled, i. e. *Token* accepts any count of wrong password trials.

Example: ***GNT-SILOGON-1-0-3*** is *SILOGON* with one *GNT USB Token* in standard metal case without engraved text or graphics. *Token* accepts max 3 wrong login trials.

6 References

- [1] GNT USB Token - Datasheet, SoftIdea, s.r.o. , May 2011,
http://www.softidea.sk/gnt_datasheet_en.pdf

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