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# Agenda

- Purpose
- Method
- Media Recovery
- Conclusions







## **Purpose**

- The purpose of the ATA Security Feature Set is to allow the device to authenticate the user
  - □ If the user supplies the correct password, the device will grant access to the media
  - □ This level of security is intended to keep an honest person honest...
- ATA Security does NOT
  - □ Protect the data through encryption
  - Protect data at rest
  - □ Allow the device to authenticate the host system
  - Allow the host system to authenticate the device







#### Method

- Two password system
  - Master Password Administers the User Password
  - User Password Grants access to the media
    - □ Security is only enabled after a User Password has been enabled
- Two tiered system (Only enabled when the User Password has been set)
  - High Security Master Password and User Password are used interchangeably
  - Maximum Security Only the User Password grants access to the media.
    - Media may be erased and user password deleted using the Master Password.
  - If both passwords are lost, the device is rendered unusable.





#### Commands

- Password manipulation commands
  - □ SECURITY SET PASSWORD, SECURITY DISBLE PASSWORD
- Access control commands
  - □ SECURITY UNLOCK, SECURITY FREEZE LOCK
- Media recovery commands
  - □ SECURITY ERASE PREPARE, SECURITY ERASE UNIT







## Weakness

■ If the media is separated from the device, the data is available







### Conclusions

- The ATA Security feature set provides a simple password system for granting access to a device
- The ATA Security feature set has no effect on the data

