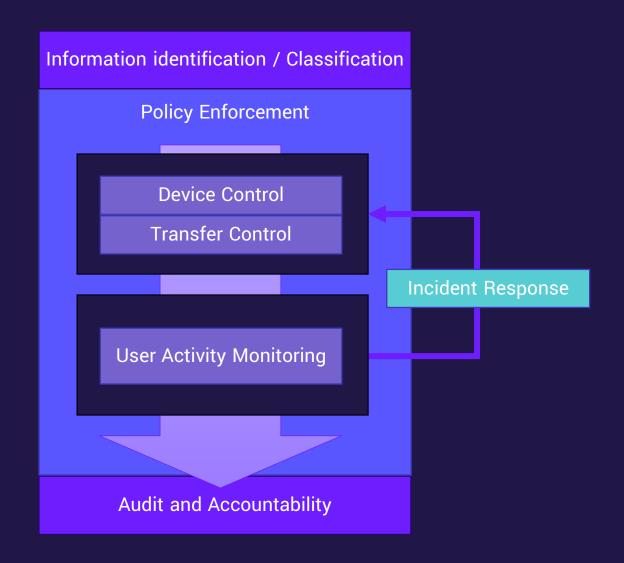




Data Protection in DLP

Data Protection in DLP

- Information identification / Classification
 - Inventory / Discovery
 - Tagging and annotation
 - Encryption
 - Access control
- Device control
- Information transfer control
- Audit and accountability
- User activities monitoring
- Policy enforcement
- Incident response





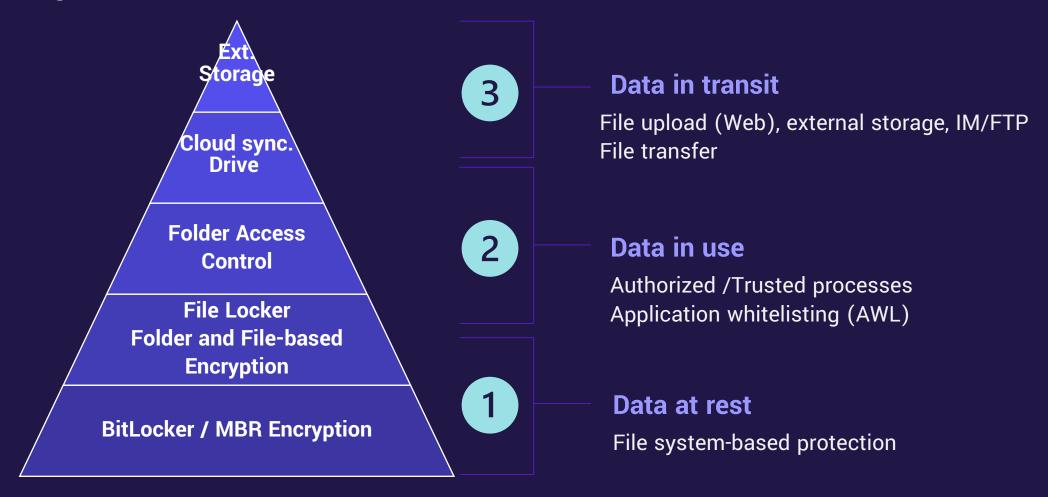
Information identification / Classification

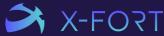
- Identify and safeguard CUI by monitoring data flows, enforcing policies, and preventing unauthorized access or disclosure.
 - Regular expression
 - Out-of-box information type pattern
- Inventory /Discovery
 - Local storage on endpoint
- Classify data and establish access controls based on data classification.
 - Outlook Context / attachment
 - Instant Messaging / Net Meeting file upload
 - External /Removable storage
 - Web access / Upload Files
 - Web Mail context / attachment
- Tagging and annotation
 - Local DB
 - Matched summary
 - Record activities with classification tags and shadow files (evidence)
- Mandate the encryption of data based on its classification or other attributes.



Data encryption

Protecting data in transit and at rest





Device control

- Inventory Management: Know your asset (which access CUI)
 - Hardware
 - Software
 - Managed peripherals
- Zero trusted control
 - Device lockdown
 - Preventing connections from unknown devices
 - Register identified/trusted device



Information transfer control

Transfer Channel

- Webmail
- IM / Net meeting
- Transfer to External Storage
- Copy to, upload files to website









Reaction

- Content filtering
- Attachment
- Blocking
- Tagging
- Shadow file

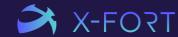












User Activities Monitoring

- File operation
- Create, Rename, Delete, Move, Copy items
- Folder/ Files access by restricted apps
- Copy to clipboard
- Network activities
- Browsing
- Copy to network share
- Restricted network connection
- Application activities
- ...
- Execution / Process
- Network access
- File access protection

Data transfer



- Copy to USB removable device
- Upload to a restricted cloud service
- Paste to supported browsers
- Printing



- Watermark
- Pages and Files shadows
- Desktop session recording



- Application
- Web access
- Instance Message / Net meeting
- Office open/save/clipboard
- Copy to Clipboard
- Unconditional



Incident Response

Based on user operations and activities, Detecting

- USB / External device
- User activities
 - File operation
 - Web access
 - Printing
- Network share access
- Communication port
- RDP in /out

Response and Reaction

- Blocking
 - Shutdown
 - Disable network connection
 - Disable USB external storage
- Dynamic adaptive policy
 - Replace User/Computer security policy
 - Enable file operating audit log
 - Enable printing control
- Notification and alert
 - Screen watermark
 - E-mail, Teams, Line



Policy enforcement

Endpoint Security Policy

- Role-Based Policing
 - User / OU / Group
 - Computer / Group (Unconditional)
- Dynamic (Conditional) deployment
 - Auto
 - Network segment
 - Incident responsed
 - Out of field ?
 - Temporary
 - Baseline
 - Unauthenticated

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Practice

Best (PEP, Policy Enforcement Point)

















X-FORT Scope

IM Control

Disable IM software Record chat message

Video Conferencing Application

Disable Video Conferencing Application Log and backup transferred file

Webmail

Backup the files, and add tag in the log



Network Security

Record website browsing backup upload files

Block Printers Watermark enforcement Backup the printed pages

Cloud Control

Prohibit cloud drive **Encryption then upload**



File operation log Backup files



Device Control



Data in Transit



Data at Rest (Encryption)



Cascade device

Disable storage media Control as storage device



Web Camera

Allow device





MTP Device

X-FORT Client

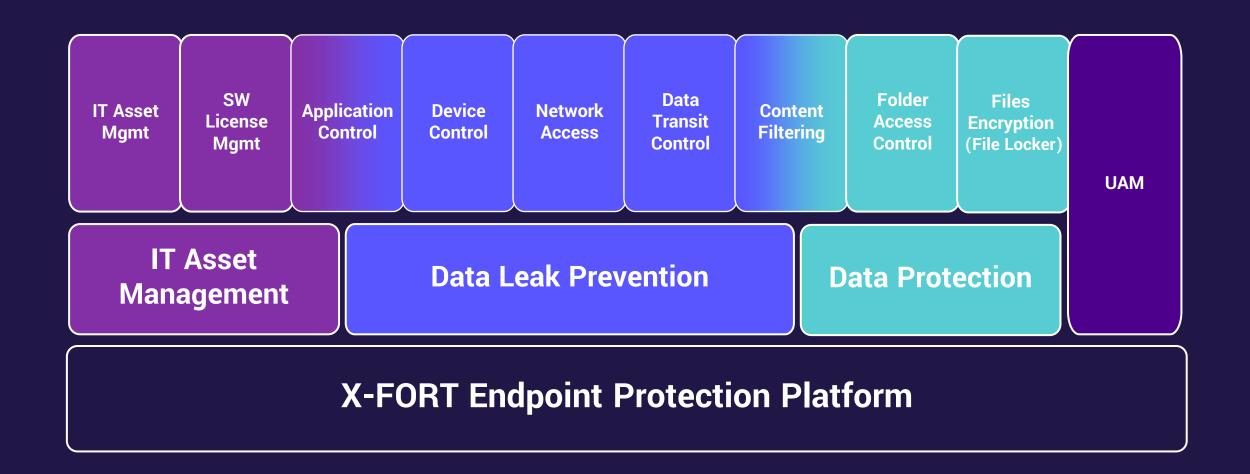
Prohibit smart phone Backup transferred file

Storage Device Control

Disable external storage device Encrypt and transfer file Backup transferred file



X-FORT endpoint data protection







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