





Unified Encryption for Data-at-Rest

Experience unparalleled data protection with our cutting-edge solutions – CipherDriveOne is an integral component of our unified encryption suite. Safeguard your sensitive information with ease, efficiency, and confidence. CipherDriveOne is a pre-boot Authorization Acquistion (AA) host software solution that manages a hardware Encryption Engine (EE). This unified encryption solution allows government customers the ability to provide storage of classified, secret, and top-secret data in accordance with the Commercial Solutions for Classified (CSfC) program's hardware full disk encryption (HWFDE) standards.

Tablets



Workstations



Laptops



CipherDriveOne Features



A custom disclaimer can be displayed before or after user authentication.



Four different user roles can be set up with 3 forms of authentication: user/pass, smart card, and 2FA.

oard	Maintenance – Deactivate/Uninstall PBA
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Itabase	
6	
	Password:
sde	
ninstall PBA	Uninstall PBA Deactivate PBA
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kimer	
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ration	
srDrive	

Easy upgrading and exporting of configurations for scalable deployment makes CipherDriveOne the choice of many US and NATO customers.

KLC GROUP	Administrator Logout
Dashboard User V	Maintenance – Erase Disk
Settings V Maintenance V	After Erase Disk you will lose all the data on Disk
Backup Detebose Erase Disk	
Change AK License Upgrade	Password:
PBA Upgrade Dexectivate/Uninstall PBA	Erase Disk
Expant Configuration Update Disolaimer	
Logs V Disk Information	
About CipherDrive	

Administrative and rules-based crypto erase can implemented to remove data instantly and permanantely.

KLC GROUP										Adm	inistrator L
lashboard Iser V ettings V	\otimes	0 Failed A Since Last Suc		10 9 8			n n	et Du	constal		
taintenance ✓ ogs ✓	\otimes	Latest Succe 10/03/2023		0							
isk Information bourt CipherDrive	\triangle	0 Disk SMA	RT Errors	4							.1
	Login Sum	mary			03/27/2823	85/28/2023	03/29/2020	85/33/2023	10/01/2023	10/02/2023	10/00/2020
	Succes	sful Login				Uns	uccessfu	ul Login			
	Ad	ministrator	Las 10/03/2	it Log 023 1			Allen			Last Attem 03/2023 16	
		Steve	Las 10/03/2	it Log 023 1			Jack			Last Attem 03/2023 16	
		Allen	Las 10/03/2	it Log 023 1			Steve			Last Attem 03/2023 16	

CipherDriveOne features a easy to use management console for setup and administration.

KLC GROUP				😑 Steve Li
Dashboard		Settings -	- Configuration	
Jser ✓ Settings ✓	PASSWORD	SECURITY	SYSTEM	LOGS
Configuration Maintenance V Joge V Jogi koffonnation About CipherDrive		sign & verify	_6(1-10 per user) _0(OFF+0,1-20 ent 	irc øystem)
			Save	

User and system settings are highly configurable from one easy to use location.

			Search Filter
	Č.	Login Log	
Settings Maintenance	Date	ByUser	Action
	08/11/2023 16:07:10	Administrator	User login successful
Activity Log Login Log	08/11/2023 16:06:45	Allen	User login failed
Doxestion Log	08/11/2023 16:06:20	Administrator	User logout successful
	08/11/2023 15:53:53	Administrator	User login successful
west Log isk Information	08/11/2023 15:41:24	Administrator	User login successful
bout CipherDrive	08/11/2023 15:20:42	Administrator	User login successful
	08/11/2023 15:20:16	Steve	User logout successful
	08/11/2023 15:12:18	Steve	User login successful
	08/11/2023 15:11:52	Administrator	User logout successful
	08/11/2023 15:08:03	Administrator	User login successful

Detailed logging and event data is available to Administrators and Security Officers.

KLC GROUP				Administrator Logo
Dashboard			Disks List	
User V	Device Name		Disk Serial Number	
Settings V Meintenence V Logs V		/dev/nvme0 Protected	\$465NX1KA49843A	
Activity Log Login Log				
Exception Log Admin Log Latent Log				
Disk Information				
About CipherDrive				

Visual confirmation of the harddrive(s) in the system and the one(s) that are protected by CipherDriveOne.

Technical Specifications

CipherDriveOne meets the NSA's Commercial National Security Algorithm Suite (CNSA) suite for DAR

Security Suite	CNSA Suite Standards	Specifications
CONFIDENTIALITY (ENCRYPTION)	AES-256	FIPS PUB 197
AUTHENTICATION (DIGITAL SIGNATURE)	RSA 3072 (MINIMUM)	FIPS PUB 186-4
INTEGRITY (HASHING)	SHA-384	FIPS PUB 180-4
CAN PROTECT	UP TO TOP SECRET	

Authentication Acquistion (AA) - Single, 2FA & MFA

A Password	

Username / Password



Smart Card CAC using PIV



Yubikey PIV



USB Hashed Secret (Stealth Version Only)

Encryption Engine (EE) - Advantech 2040 & 2020 Series SSDs (Sold Separately)

- AES-256 Encryption
- TCG OPAL 2.0
- Operating Temp: 0 70 Celsius
- Shock: 1500G, Peak /.05 ms
- Vibration: 20G, Peak / 80-2000 Hz
- Gold plated pins
- Layer 2 tamper proof coating
- 3-year warranty
- Optional "keep your drive" for classified environments



Available in NVMe & SATA

NIAP "In Evaluation" December 2023

Operation System Agnostic - CipherDriveOne Installs On Shadow Partition







RHEL









CipherDriveOne - Easy to Use



Step 1: At power off, CipherDrive-One locks the harddrive(s)



Step 2: At pre-boot, a custom discliamer can be displayed.



Step 3: CipherDriveOne asks for authentication.



Step 4: A successful authentication will unlock the harddrive(s) and the system will soft reboot or chainboot to the operating system.



Step 5: The operating system or thin client loads. If the system is turned off or the harddrive(s) removed, they are locked and data protected using AES-256 bit encryption

CipherDriveOne Unified Encryption Products



CipherDriveOne (Single Disk HWFDE)



CipherDriveOne Kryptr (Single and Multi-disk SWFDE)



CipherDriveOne Plus (Multi-Disk HWFDE)



CipherDriveOne Stealth (Remote / UAV HWFDE)

CipherDriveOne[™] is Common Criteria certified and on the NSA's CSfC listing for meeting the Data-at-Rest Capability Package.



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