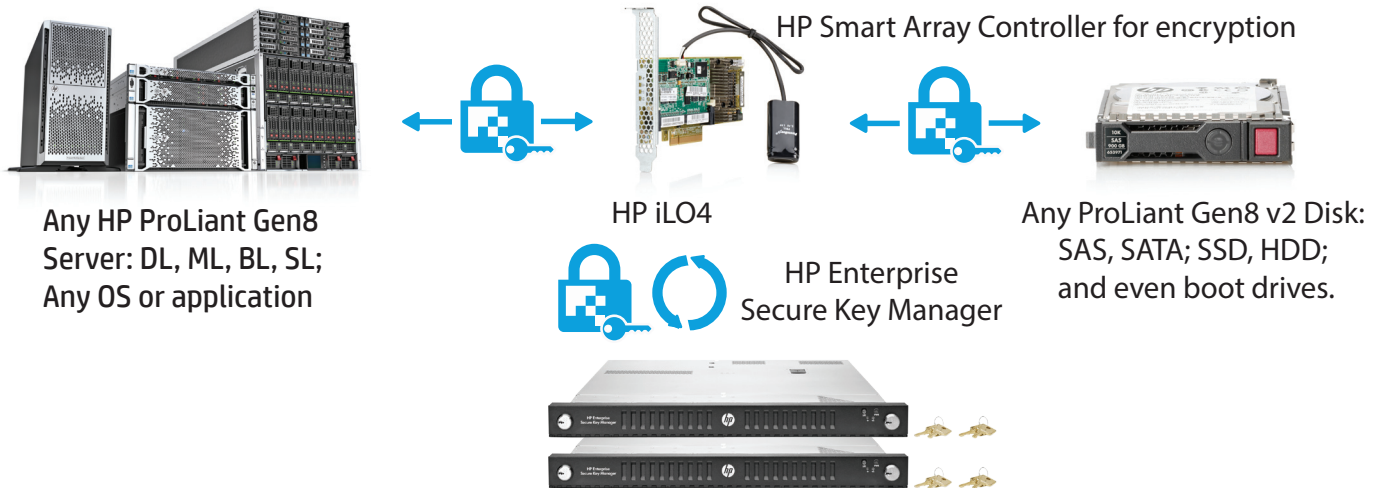




# HP Secure Encryption with HP Enterprise Secure Key Manager

Protect sensitive, critical data for HP ProLiant Gen8 servers



## Features and benefits

- Secure data encryption with local or remote key management
- High availability and scalability through remote key management only
- Simplified deployment and manageability
- Helps meet compliance regulations like Payment Card Industry Data Security Standard (PCI DSS), Health Insurance Portability and Accountability Act of 1996 (HIPAA), and Sarbanes-Oxley (Act of 2002) (SOX)

Today, good business practices and industry regulations require organizations to protect sensitive and private information from unauthorized disclosure or theft. HP Secure Encryption with HP Enterprise Secure Key Manager (ESKM) is a simple, controller-based disk data encryption solution that protects sensitive data at rest.

## HP Secure Encryption for HP ProLiant Gen8 servers

HP Secure Encryption is a controller-based encryption solution for HP ProLiant Gen8 servers that protects data at rest on any bulk storage attached to an HP Smart Array Px3x Controller. It supports any hard disk drive (HDD) or solid-state drive (SSD) in the HP Smart Drive portfolio for HP ProLiant Gen8 servers or supported storage enclosures.

The solution is available for both local and remote key management deployments.

Unlike the remote key option, local key management lacks regulatory compliance with industry standard security requirements such as Federal Information Processing Standards (FIPS) compliance that enables trusted key sharing between multiple sites and data centers in a comprehensive, scalable solution. Remote key management deployment includes high availability clustering and failover, a secure key database, key generation and retrieval services, identity and access management for administrators and for data encryption devices, secure backup and recovery, a local certificate authority, and strong audit logging for compliance validation.

The remote key management deployment requires HP Integrated Lights-Out 4 (iLO4) and HP ESKM 3.1 or later release.

For more information, visit: [hp.com/go/hpsecureencryption](http://hp.com/go/hpsecureencryption)

## HP Integrated Lights-Out Management

HP iLO Management is a comprehensive set of embedded management features supporting the complete lifecycle of the server, from initial deployment, through ongoing management, to service alerting and remote support. HP iLO Management comes standard on all HP ProLiant Gen8 servers.

HP iLO Advanced or Scale-Out editions v1.40 or later connects and auto-registers with the HP ESKM. HP iLO provides key exchange support between the HP Smart Array Px3x controller and the HP ESKM to enable preboot support for OS disk encryption. Audit support is provided for all key management transactions.

For more information, visit: [hp.com/go/ilo](http://hp.com/go/ilo)

**Remote key management mode allows central key management from just a few servers to more than 25,000 servers and millions of keys simplifying deployment and management.**

#### **Supported by HP ProLiant Gen8 servers**

HP Smart Array controllers are supported on HP ProLiant Gen8 servers—tower, rack-mount—and HP BladeSystem servers.

## **HP Enterprise Secure Key Manager**

HP ESKM provides a complete solution for unifying and automating an organization's encryption controls by creating, protecting, serving, controlling, and auditing access to business—and compliance—critical encryption keys. HP ESKM supports a growing range of HP server and storage products, partners, and solutions for data protection. HP ESKM manages all encryption deployments from just a few servers to thousands of servers and two million keys per HP ESKM cluster.

#### **Supported ESKM**

ESKM 3.1, ESKM 4.0, and future software versions

For more information, visit: [hp.com/go/eskm](http://hp.com/go/eskm)

## **HP ProLiant Gen8 Server with Smart Array Controller**

HP Smart Array controllers provide enterprise-class storage performance, increased external scalability (in the case of controller for external disk), and data protection for select HP ProLiant Gen8 rack and tower servers.

#### **Compatible HP ProLiant Gen8 servers**

Blades—BL420c, BL460c, WS460c, BL465c, and BL660c

ML series—ML350e v2 and ML350p

Rack—DL320e v2, DL360e/p, DL380e/p, DL385p, DL560, and DL580

SL series—SL270s and SL210t

HP Apollo 6000 System

#### **Compatible HP Smart Array controllers**

For internal drive connectivity—P430 and P830 (P230i for the BL460c and WS460c)

For connections to JBODs—P431 and P731m

For more information, visit: [hp.com/go/proliant](http://hp.com/go/proliant), [hp.com/go/smartarray](http://hp.com/go/smartarray)

## Compatibility matrix—ProLiant Gen8 ML, DL, and external disk with ESKM

Server model	Controller for internal disk	Controller for external disk	ESKM
ML350e Gen8 v2	P430, P830	P431	ESKM 3.1, ESKM 4.0
DL320e Gen8 v2		P431	ESKM 3.1, ESKM 4.0
DL360e Gen8	P430	P431	ESKM 3.1, ESKM 4.0
DL380e Gen8	P430, P830	P431	ESKM 3.1, ESKM 4.0
ML350p Gen8	P430, P830	P431	ESKM 3.1, ESKM 4.0
DL360p Gen8	P430	P431	ESKM 3.1, ESKM 4.0
DL380p Gen8	P430, P830	P431	ESKM 3.1, ESKM 4.0
DL385p Gen8	P430, P830	P431	ESKM 3.1, ESKM 4.0
DL560 Gen8	P430, P830	P431	ESKM 3.1, ESKM 4.0
DL580 Gen8	P430, P830, P830i	P431	ESKM 3.1, ESKM 4.0
Apollo 6000	P430	P431	ESKM 3.1, ESKM 4.0

## Compatibility matrix—ProLiant Gen8 SL, BL, and external disk with ESKM

Server model	Controller for internal disk	Controller for external disk	ESKM
SL210t Gen8	P430, P830	P431	ESKM 3.1, ESKM 4.0
SL270s Gen8	P430	P431	ESKM 3.1, ESKM 4.0
SL4540 Gen8		P431	ESKM 3.1, ESKM 4.0
BL420c Gen8		P731m	ESKM 3.1, ESKM 4.0
BL460c Gen8	P230i	P731m	ESKM 3.1, ESKM 4.0
WS460c Gen8	P230i	P431	ESKM 3.1, ESKM 4.0
BL465c Gen8		P731m	ESKM 3.1, ESKM 4.0
BL660c Gen8		P731m	ESKM 3.1, ESKM 4.0
D2600/2700 ext. disk		P431, P731m	ESKM 3.1, ESKM 4.0
D3600/3700 ext. disk		P431, P731m	ESKM 3.1, ESKM 4.0
D6000 ext. disk		P431, P731m	ESKM 3.1, ESKM 4.0

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