

Keys

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Overview

TDE keys perform encryption. You cannot create a [Smartpoint](#) without a TDE key. You may add TDE keys to be used for encryption at any point in the Smartcrypt Enterprise Manager (SEM).

Name	Participants	Key Rotation	Key Retirement	Key Destruction	Updated At	Newest Key	
000ab0f0-7d3b-4667-9f5a-b45c87983d45	Test Agent	(none)	(none)	(none)	02/27/2018	02/27/2018	Edit Delete Rotate
00aa3a49-f514-4efc-bfd9-530ce885530d	Test Agent	(none)	(none)	(none)	02/27/2018	02/27/2018	Edit Delete Rotate
011740c4-5e76-4e2d-a53d-748abd2fda84	Test Agent	(none)	(none)	(none)	02/28/2018	02/28/2018	Edit Delete Rotate
01a28b99-8ce5-49ff-9990-ddf7ab557451	Test Agent	(none)	(none)	(none)	02/26/2018	02/26/2018	Edit Delete Rotate

Adding a TDE Key

Go to **TDE > Keys** to view the list of current registered TDE keys.

Click **Add** to display this screen:

Add TDE Key

Name

Key Rotation
At this age, the newest key is no longer used to encrypt and is replaced with a new one, but is still distributed and available for decryption.

Key Retirement
At this age, the key is retired and no longer distributed nor used for any decryption or encryption. (Reversible - changing this value will bring keys out of retirement.)

Key Destruction
At this age, the key is destroyed and cannot be recovered. (Irreversible - changing this value will not bring back destroyed keys.)

Name the Key, then use the drop-down menus to set the **Key Rotation**, **Key Retirement** and **Key Destruction** schedule for this key. The next sections describe these concepts.

Save your changes to add this key.

Key Rotation

Key Rotation allows you to decide when a TDE key should no longer be used for encryption or decryption. Click the drop-down menu, choose from the range of time frames, from 1 month to 10 years. Once the TDE key reaches this age, a new TDE key is created and used. The previously used TDE key(s) will continue to be distributed along with the new TDE key until the old TDE key(s) reach the retirement or destruction date.

Key Retirement

The age selected in the *Key Retirement* drop-down menu dictates when a TDE key is no longer used for encryption or decryption. However, this TDE key can be pulled out of retirement by changing the age back to *None* or increasing the age for retirement.

Key Destruction

At the age selected in this drop-down menu, the TDE key is destroyed. This TDE key will never be able to be used again for decryption or encryption, so any file encrypted with this TDE key cannot be unlocked in the future.

**** IMPORTANT: Key Destruction is permanent.**

Editing a TDE Key

You may edit a TDE key at any time in SEM. Click **Edit** next to the key you want to change. You may adjust the age of key rotation, key retirement, and key destruction. The team with permission to decrypt files with the TDE key and encrypt files with the same key may be changed as well.

Deleting a TDE Key

You may delete a TDE key at any point in SEM. Click **Delete** next to the key you want to remove.

**** IMPORTANT: Deleting a key has the same effects as key destruction. It is permanent. Any file encrypted with this TDE key cannot be decrypted in the future.**