



Citadel C Series SSD Installation User Manual

Models Covered:

Citadel C-SEL

Citadel C-ADV

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Known Issues

1. Capslock and Numlock do not light up when active, however they are working properly.

1. Introduction

The Citadel C Series SSD is a FIPS-certified, self-encrypting drive (SED) protects systems against unauthorized access with pre-boot authentication (PBA), powered by Cigent.

Before starting any operating system or virtual machine stored on the drive, users must first authenticate using a username/password, smart card, or both. Users remain authenticated until the drive is powered off.

The following guide helps you install the Citadel C Series SSD and PBA software. It also details how to configure users and options in the PBA administrative console.

2 Initial Installation

2.1 Initial installation overview

Citadel C Series SSDs have been pre-installed with the Cigent PBA software which has been disabled. After you have installed and configured your operating system you must enable the PBA to fully protect your system.

You can always find the latest software and documentation at [digistor.com/c-series-software](https://www.digistor.com/c-series-software). It is password protected, so be sure to use the password **douglas-fir25**.

In the future should the Citadel C Series SSD be erased, follow the steps in the [Reinstallation of the PBA](#) section.

2.2 Drive installation

Install the Citadel C Series SSD into your system following your computer manufacturer's instructions.

2.3 Configure UEFI and BIOS Settings

Each manufacturer and model have unique locations and names for settings.

PC Manufacturer	Bios Setting	Require State
Dell	SATA Operation	AHCI
Dell	UEFI Boot Path Security	Never
Dell, Lenovo	Secure Boot	Off
Lenovo	Block SID Authentication	Disable

2.4 Operating System installation

Install any operating system or virtual machines.

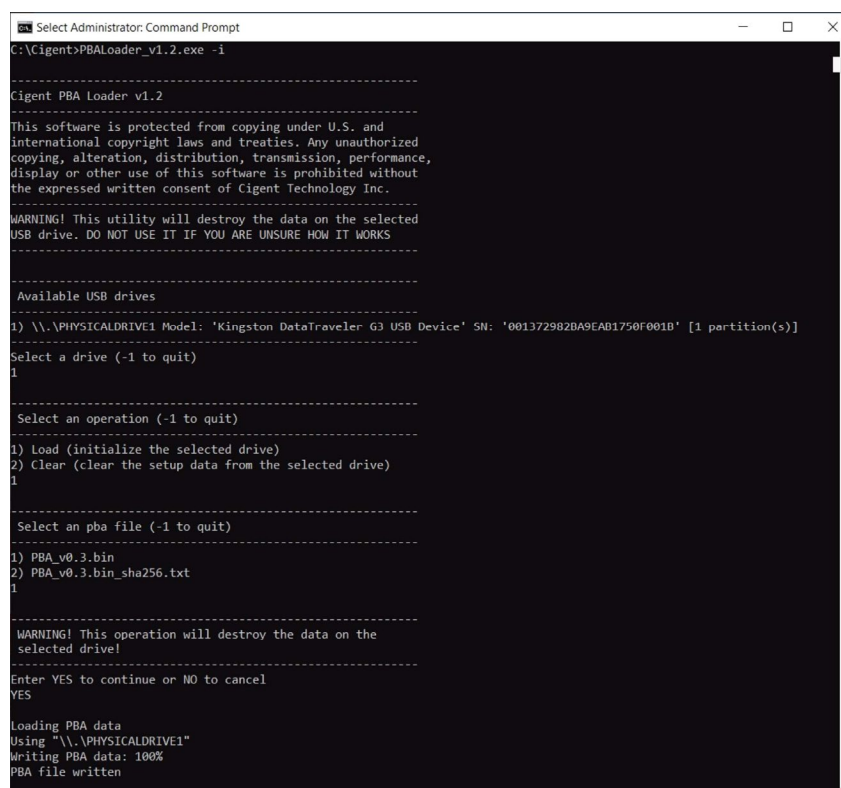
2.5 Create a bootable USB PBA Installer thumb drive

Before using the Citadel C Series SSD, you will first need to activate the PBA. Follow the steps below to create a bootable thumb drive with the software you need to activate the PBA or use a Citadel Activator Device (sold separately), which is a thumb drive that has the software pre-loaded.

WARNING: All data on the USB thumb drive will be erased.

Note: You can use the same USB thumb drive to activate multiple Citadel C Series drives in other systems, which means you only have to create the USB drive once.

1. Download the PBA installation software from [digistor.com/c-series-software](https://www.digistor.com/c-series-software). The password to access the website is **douglas-fir25**.
2. Extract the file from the provided ZIP and ensure all files remain in the same directory.
3. Insert a USB thumb drive into your computer. (Remove any other thumb drives to avoid errors.)
4. Start an Administrator command window and change directory to the location of loader software.
(e.g. `cd C:\Downloads\Cigent_PBA_v1.0.4`)
5. Run **PBALoader_v1.2.exe -i**
6. Choose the number next to the correct USB thumb drive (if more than 1).
7. Select **1** for Load operation.
8. Select the **PBA_v1.0.4.bin** file (or the version you have).
9. Confirm your selection by typing '**YES**' and then press **Enter**.



```
Select Administrator: Command Prompt
C:\Cigent>PBAloader_v1.2.exe -i

-----
Cigent PBA Loader v1.2
This software is protected from copying under U.S. and
international copyright laws and treaties. Any unauthorized
copying, alteration, distribution, transmission, performance,
display or other use of this software is prohibited without
the expressed written consent of Cigent Technology Inc.
-----
WARNING! This utility will destroy the data on the selected
USB drive. DO NOT USE IT IF YOU ARE UNSURE HOW IT WORKS
-----

Available USB drives
1) \\.\PHYSICALDRIVE1 Model: 'Kingston DataTraveler G3 USB Device' SN: '001372982BA9EAB1750F001B' [1 partition(s)]
-----
Select a drive (-1 to quit)
1
-----
Select an operation (-1 to quit)
1) Load (initialize the selected drive)
2) Clear (clear the setup data from the selected drive)
1
-----
Select an pba file (-1 to quit)
-----
1) PBA_v0.3.bin
2) PBA_v0.3.bin_sha256.txt
1
-----
WARNING! This operation will destroy the data on the
selected drive!
-----
Enter YES to continue or NO to cancel
YES

Loading PBA data
Using "\\.\PHYSICALDRIVE1"
Writing PBA data: 100%
PBA file written
```

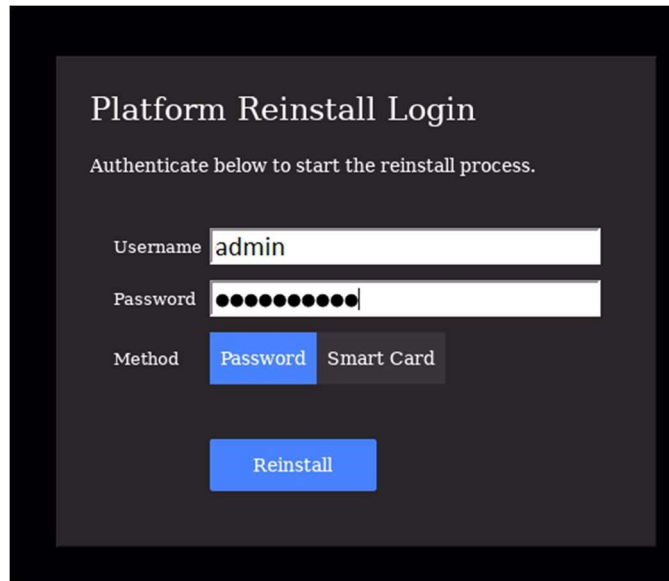
The process can take several minutes to complete. Once successful, you may remove the USB thumb drive and proceed to the next step.

2.6 Boot to the USB thumb drive

1. Ensure the power is turned off.
2. Insert the bootable USB thumb drive or Citadel Activator Device into the computer with the Citadel C Series SSD.
3. Turn on the computer and press the appropriate key for your computer to display the boot menu. The typical keys are F1, F2, F10, F12 or Esc.
4. Choose the USB thumb drive from the menu and proceed to boot.

2.7 Enable the Pre-Installed PBA

The PBA software will boot from the USB thumb drive. Once running, it will detect the disabled installation and prompt for administrator credentials.



1. Enter the following default credentials then press **Reinstall**:
Username: **Administrator**
Password: **Administrator_1**
2. Once the process is complete, press **OK** to shut down the computer.

Your PBA is now enabled and ready for use.

3. Remove the USB thumb drive and power up the system.
4. Once the PBA starts, use the same default credentials to log into the administrative console to begin your customizations.

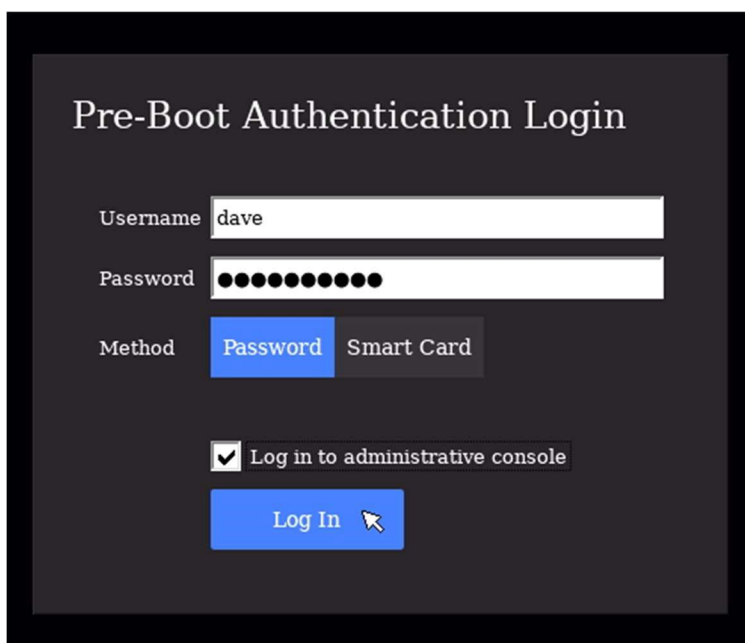
For details on how to log in to the administrative console, see section [Using the Administrative Console](#).

Note: It is strongly recommended that you immediately either change the default password or add a second admin user and remove the original admin user that came pre-installed with the PBA.

3 Using the Administrative Console

The administrative console allows administrators to manage users, perform maintenance tasks, and view activity logs pertaining to the PBA environment.

You can enter the administrative console from the login page by checking the **“Log in to administrative console” checkbox** before clicking **Log In**.

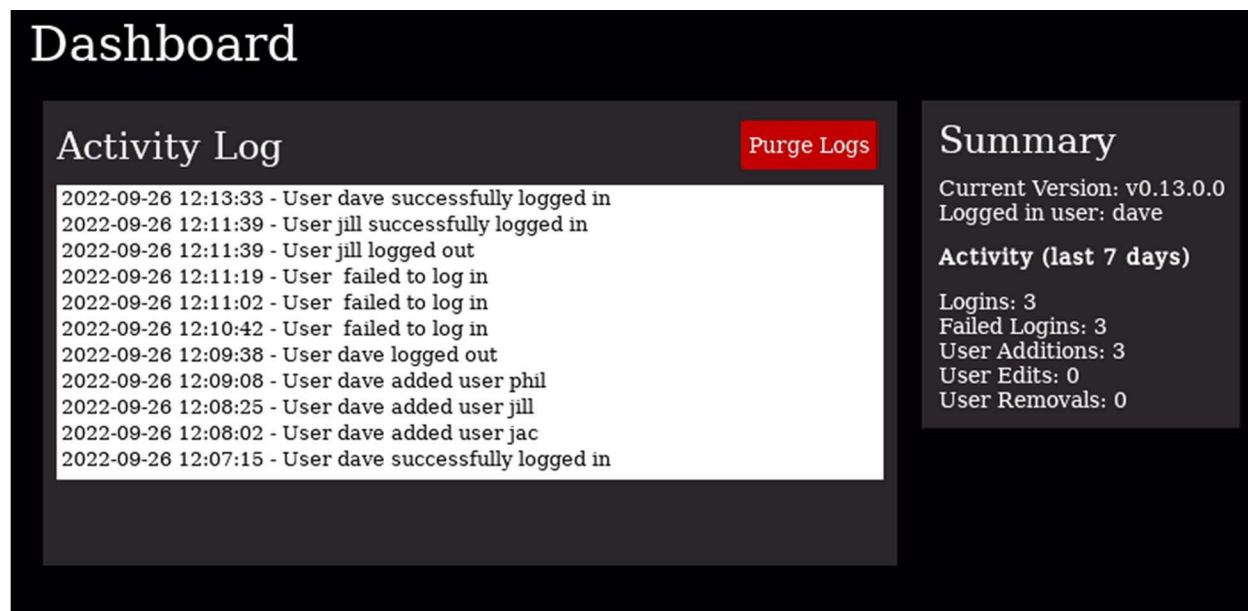


The image shows a 'Pre-Boot Authentication Login' screen with a dark background. It contains the following elements:

- Title:** Pre-Boot Authentication Login
- Username:** A text input field containing the text 'dave'.
- Password:** A password input field represented by a series of black dots.
- Method:** Two buttons, 'Password' (highlighted in blue) and 'Smart Card' (grey).
- Checkbox:** A checked checkbox followed by the text 'Log in to administrative console'.
- Log In Button:** A blue button with the text 'Log In' and a mouse cursor icon pointing at it.

3.1 Dashboard

The administrative console allows you to manage users, perform maintenance tasks and view activity logs pertaining to the PBA environment.



The screenshot displays the PBA Dashboard interface. It features a dark theme with a white title 'Dashboard' at the top left. Below the title, there are two main sections: 'Activity Log' and 'Summary'. The 'Activity Log' section contains a list of log entries with timestamps and descriptions of user actions. A red 'Purge Logs' button is located to the right of the log list. The 'Summary' section provides an overview of the system's current state, including the version number and a summary of activity over the last 7 days.

Dashboard

Activity Log

Purge Logs

- 2022-09-26 12:13:33 - User dave successfully logged in
- 2022-09-26 12:11:39 - User jill successfully logged in
- 2022-09-26 12:11:39 - User jill logged out
- 2022-09-26 12:11:19 - User failed to log in
- 2022-09-26 12:11:02 - User failed to log in
- 2022-09-26 12:10:42 - User failed to log in
- 2022-09-26 12:09:38 - User dave logged out
- 2022-09-26 12:09:08 - User dave added user phil
- 2022-09-26 12:08:25 - User dave added user jill
- 2022-09-26 12:08:02 - User dave added user jac
- 2022-09-26 12:07:15 - User dave successfully logged in

Summary

Current Version: v0.13.0.0
Logged in user: dave

Activity (last 7 days)

Logins: 3
Failed Logins: 3
User Additions: 3
User Edits: 0
User Removals: 0

The dashboard shows PBA related activity in time order with the most recent activity at the top.

Administrators can see all activity while normal users can only see activity for which they are the subject of the activity. Administrators can also purge the logs as desired.

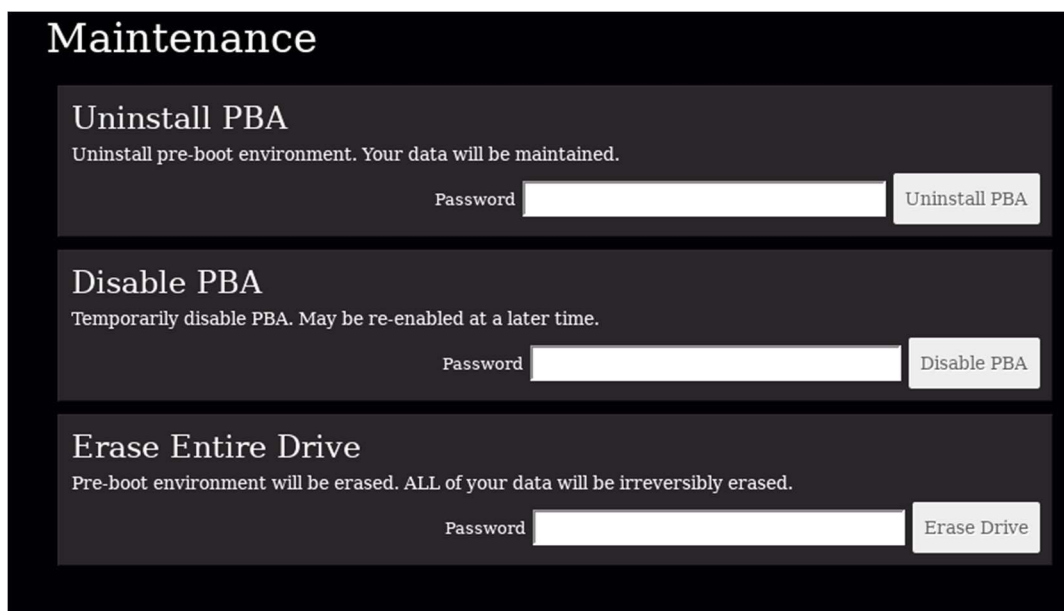
The following activities are recorded:

- ✓ Successful login
- ✓ Failed Login
- ✓ Logoff successful
- ✓ Added user
- ✓ Edited user
- ✓ User deleted

The Summary widget provides version and user login information as well as a summary of user activity for the last 7 days.

3.2 Maintenance

The maintenance page allows administrators to uninstall the PBA environment, disable the PBA, and completely erase the drive.



Maintenance

Uninstall PBA
Uninstall pre-boot environment. Your data will be maintained.

Password

Disable PBA
Temporarily disable PBA. May be re-enabled at a later time.

Password

Erase Entire Drive
Pre-boot environment will be erased. ALL of your data will be irreversibly erased.

Password

3.2.1 Uninstall PBA

You can completely uninstall the PBA software which will remove all files, configuration and user information. Your operating system environment will be preserved and boot as normal.

The image shows a 'Maintenance' screen with a dark background. It contains three sections, each with a title, a description, a password field, and an action button.

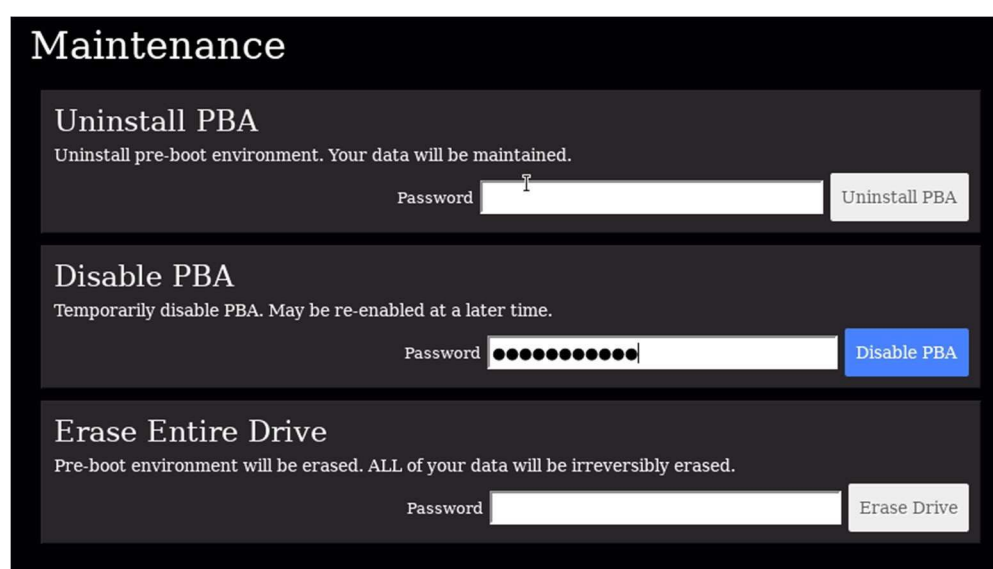
- Uninstall PBA**: Uninstall pre-boot environment. Your data will be maintained. The password field contains 12 black dots. A blue button labeled 'Uninstall PBA' is to the right.
- Disable PBA**: Temporarily disable PBA. May be re-enabled at a later time. The password field is empty. A grey button labeled 'Disable PBA' is to the right.
- Erase Entire Drive**: Pre-boot environment will be erased. ALL of your data will be irreversibly erased. The password field is empty. A grey button labeled 'Erase Drive' is to the right.

1. Enter your administrator password into the Password field in the Uninstall PBA section.
2. Click **Uninstall PBA**.

WARNING: The uninstallation of the PBA proceeds immediately after clicking Uninstall PBA.

3.2.2 Disable PBA

Disabling the PBA temporarily allows the system to boot directly to the operating system without the need to authenticate. This can be useful for administrators during update operations that require repeated restarts of the system. All settings and configuration will be preserved while disabled. Re-enabling the PBA will require authentication as an existing administrative user. See section [Re-enable PBA](#) for details.



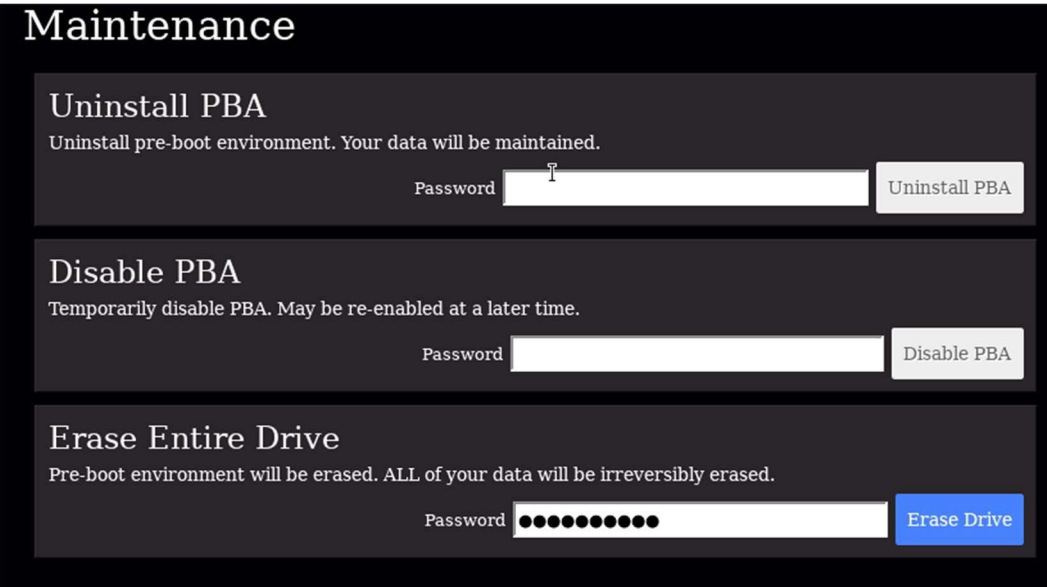
The screenshot shows a 'Maintenance' menu with three options, each requiring a password:

- Uninstall PBA**: Uninstall pre-boot environment. Your data will be maintained. Password field and 'Uninstall PBA' button.
- Disable PBA**: Temporarily disable PBA. May be re-enabled at a later time. Password field and 'Disable PBA' button.
- Erase Entire Drive**: Pre-boot environment will be erased. ALL of your data will be irreversibly erased. Password field and 'Erase Drive' button.

WARNING: The authentication key change proceeds immediately after clicking Disable PBA.

3.2.3 Erase Entire Drive

The Erase Entire Drive feature allows administrators to reset the drive back to factory state and ensures all data on the disk is completely erased and unrecoverable. Once complete, the drive can be safely repurposed.



The image shows a 'Maintenance' menu with three options, each with a password field and an action button.

- Uninstall PBA**
Uninstall pre-boot environment. Your data will be maintained.
Password: [text input] [Uninstall PBA]
- Disable PBA**
Temporarily disable PBA. May be re-enabled at a later time.
Password: [text input] [Disable PBA]
- Erase Entire Drive**
Pre-boot environment will be erased. ALL of your data will be irreversibly erased.
Password: [password input] [Erase Drive]

The following actions are performed during the Erase Disk procedure:

- The Data Encryption Key (DEK) of the Citadel C Series SSD is changed. This is also known as Crypto Erase.
- The PBA executes a Format NVM with the sanitize option that will sanitize every block on the drive.
- The Erase Verification firmware feature is used to ensure all mapped and unmapped blocks have been erased.

Steps to Erase

1. Enter your administrator password in the Erase Entire Drive section
2. Click **Erase Drive**.

WARNING: The Erase Entire Drive proceeds immediately after clicking Erase Drive and cannot be stopped or canceled.

3. Once complete, power off the system.

3.3 Users

The Users page allows administrators to add, modify, and delete user accounts from the PBA environment.

Roles and Capabilities

Capability	Administrator Role	User Role
Purge Logs	Yes	No
Uninstall PBA	Yes	No

Disable PBA	Yes	No
Reactivate (Re-enabling) PBA	Yes	No
Erase Entire Drive	Yes	No
Add User	Yes	No
Edit User	Yes	Only their own
Remove User	Yes	No
Modify Settings	Yes	No

3.3.1 Add User

The Add User page is used to add a new user using password, smartcard or both. If the “Require Two-Factor Authentication” setting is set to Yes, all newly added users must have both password and smartcard.

The screenshot shows a web interface titled "Users". At the top, there is a "User Selection" dropdown menu currently showing "No User Selected". To the right of this menu are three buttons: "Add User" (highlighted in blue), "Edit User", and "Remove User". Below this navigation bar is the "Add User" form. The form contains the following fields and controls:

- Username:** A text input field containing the value "dave".
- Administrator:** A toggle switch currently set to "No".
- Email:** A text input field containing the value "dave@tinyco.com".
- New Password:** A password input field with masked characters (dots).
- Confirm Password:** A password input field with masked characters (dots).
- Smart Card:** A dropdown menu showing "PIV: dave". To its right is a blue "Scan" button.
- PIN:** A PIN input field with masked characters (dots).

At the bottom center of the form is a blue "Add" button.

3.3.2 Username and Password Requirements

Requirement	Username	Password
Length	1-40	8-128
Uppercase letter: A-Z	May contain	Must contain at least 1
Lowercase letter: a-z	May contain	Must contain at least 1
Number: 0-9	May contain	Must contain at least 1
Special character: ~! @#\$%^&*()_-=[]:<>.	May contain	Must contain at least 1

1. Enter a unique username.
2. Set the Administrator role as desired.
3. Enter an email address.
4. Enter and confirm a password.
5. Select the smart card from the selection and enter the correct PIN.
6. Click **Add**.

Note: To add a smart card to a user, the smart card must be inserted and the PIN correctly entered. If you do not see the smart card listed after inserting it, click the **Scan button** then open the selection list to find your card. Once the card shows in the selection list, enter the PIN before clicking **Save**.

3.3.3 Edit User

The Edit User page is used by administrators to make changes to any user in the system including themselves. It is also used by non-administrators to change their own password.

Administrators can change the following user attributes:

- Role
- Email Address
- User Password
- Add or Remove a Smart Card

The screenshot shows a web interface titled 'Users'. At the top, there is a 'User Selection' dropdown menu with 'dave' selected. To the right of the dropdown are three buttons: 'Add User', 'Edit User' (which is highlighted in blue), and 'Remove User'. Below this is a form titled 'Edit User'. The form contains the following fields and controls:

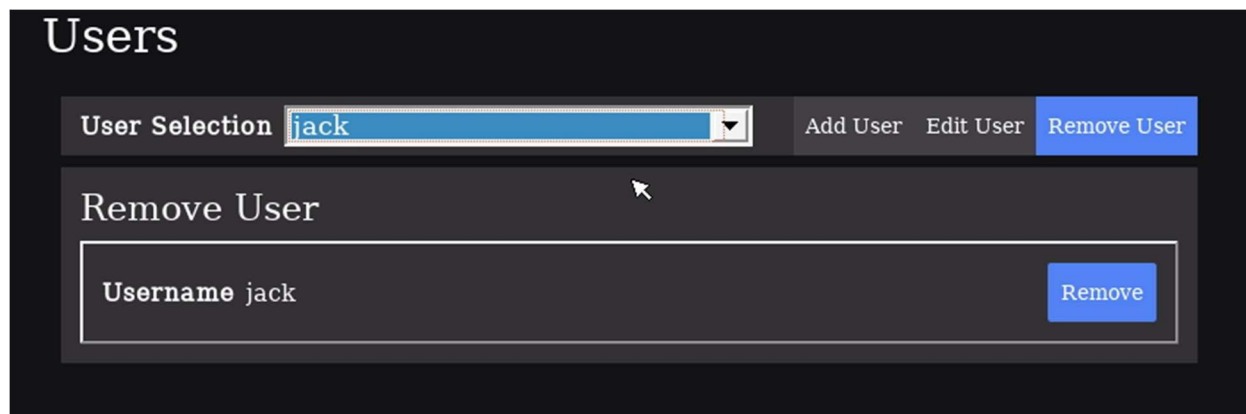
- Username:** dave
- Administrator:** A toggle switch set to 'Yes'.
- Email:** dave@tinyco.com
- New Password:** No Change
- Confirm Password:** No Change
- Smart Card:** Radio buttons for 'Add' (selected) and 'No Change'. Below this is a dropdown menu showing 'PIV: dave' and a 'Scan' button.
- PIN:** A field with 10 dots for entering a PIN.
- Save:** A blue button at the bottom of the form.

1. Select an existing user from the **User Selection list**.
2. Change one or more user attributes.
3. Click **Save**.

Note: To add a smart card to a user, the smart card must be inserted and the PIN correctly entered. If you do not see the smart card listed after inserting it, click the **Scan button** then open the selection list to find your card. Once the card shows in the selection list, enter the PIN before clicking **Save**.

3.3.4 Remove User

Use the Remove User page to permanently remove a user from the PBA environment. Users will no longer be able to authenticate to the PBA to access the protected operating system nor the PBA administrative console.



1. Select an existing user from the **User Selection list**.
2. Click **Remove** next to the username.

3.4 Settings

The Settings page allows administrators to customize certain behavior of the application to match their security requirements. After changing a setting, be sure to click **Save** to update the system.

Settings

Failed Logins Before Lockout Maximum login attempts before logout	5	+ -
Failed Logins Before Erase Maximum login attempts before drive erasure	0	+ -
Password History Number of unique new passwords before a password can be reused (per user)	1	+ -
Password Minimum Length Minimum length of password (all users)	8	+ -
Require Multiple Forms of Authentication Require both password and smartcard to log in (all users)	No <input checked="" type="radio"/> Yes	

Save

Failed Logins Before Lockout

The number of consecutive failed login attempts (across all users) before a restart is required. Only valid usernames are considered towards failures.

Min: 1

Max: 10

Failed Logins Before Erase

The number of consecutive failed login attempts before the disk is automatically erased. Only valid usernames are considered towards failures.

Min: 0 (Disabled)

Max: 999

Password History

The number of unique passwords per user before a password can be reused.

Min: 1

Max: 20

Password Minimum Length

The minimum password length required for each user. The requirement will be enforced the next time an existing user changes their password, or a new user is added.

Min: 8

Max: 128

Require Two-Factor Authentication

Require both password and smartcard authentication to log in. This can only be enabled if all currently defined users have both a password and smart card configured. If some users do not, you must require that they configure a smartcard or delete the user first.

4 Reinstallation of the Cigent PBA

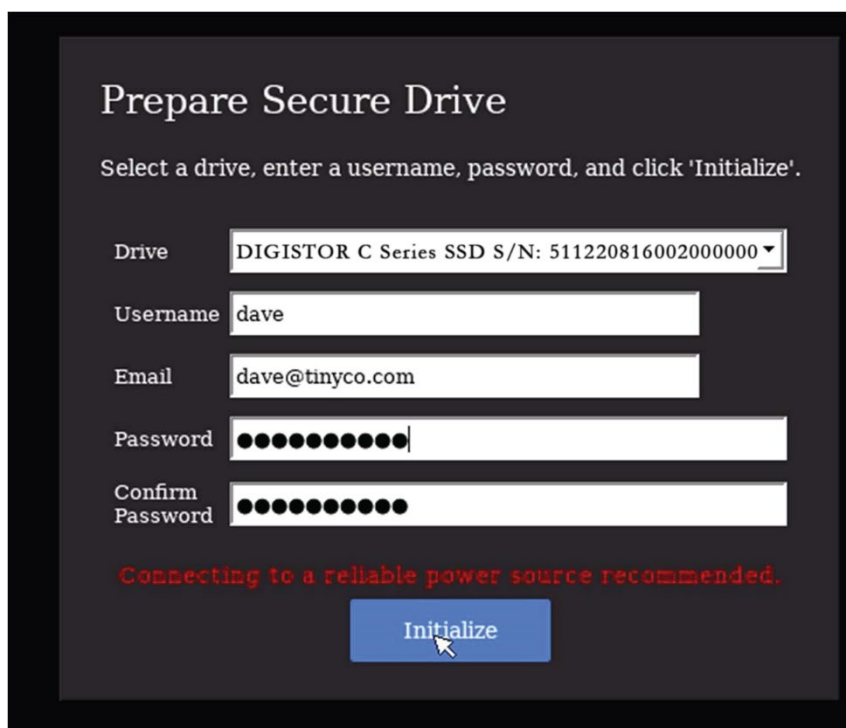
Reinstallation of the PBA software will be necessary if you used the Erase Entire Drive or Uninstall PBA features from the maintenance page or erased the drive using another utility.

The reinstallation process is like the process you followed initially to enable the preinstalled and disabled PBA.

1. Create a bootable USB thumb drive containing the PBA software. (See section [Create a bootable USB PBA Installer thumb drive](#))

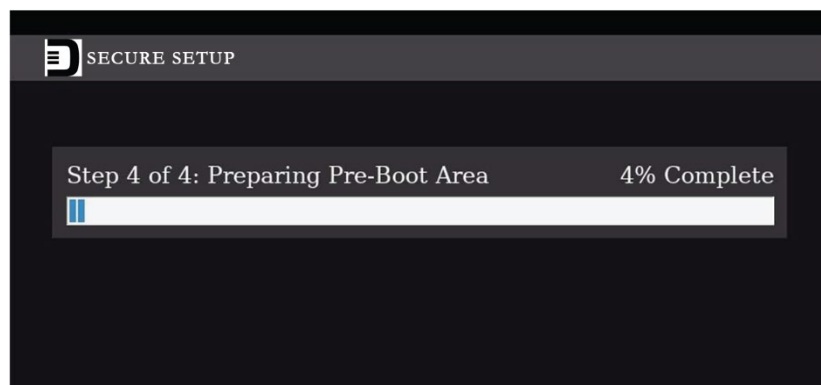
Note: You can use the same bootable USB drive you used to enable the PBA if you still have it.

2. Boot from the USB thumb drive.
3. The Secure Setup screen will be displayed.
4. If you have more than one internal drive, be sure the Citadel C Series SSD is selected.
5. Enter a username, email (optional) and password. (See Username and Password Requirements in [Add User section](#) for details.)
6. Then click **Initialize**.



The image shows a 'Prepare Secure Drive' window with a dark background. At the top, the title 'Prepare Secure Drive' is in white. Below it, a instruction says 'Select a drive, enter a username, password, and click 'Initialize''. There are five input fields: 'Drive' (a dropdown menu showing 'DIGISTOR C Series SSD S/N: 511220816002000000'), 'Username' (text 'dave'), 'Email' (text 'dave@tinyco.com'), 'Password' (masked with dots), and 'Confirm Password' (masked with dots). Below the fields, a red message reads 'Connecting to a reliable power source recommended.' At the bottom center is a blue 'Initialize' button with a mouse cursor pointing at it.

The installation process can take 10 minutes or more. Do not interrupt or power off the computer during this time.

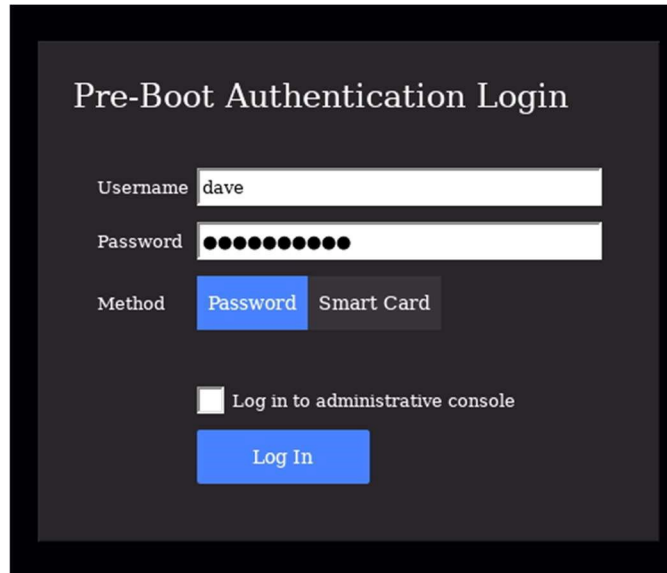


7. Once complete, power off the computer.
8. Remove the USB thumb drive from the computer.

4.1 Initial login

The user credentials used to install the PBA software have administrative role by default. You should login at least once before entering the administrative console to test if the system successfully starts the operating system.

1. Turn on the computer. The PBA will automatically load.
2. On the login screen, enter the credentials you used during the PBA installation process.
3. Click **Log In**.

The image shows a 'Pre-Boot Authentication Login' screen with a dark background. It features a title at the top, followed by input fields for 'Username' (containing 'dave') and 'Password' (masked with dots). Below these is a 'Method' section with 'Password' and 'Smart Card' buttons, where 'Password' is selected. At the bottom, there is a checkbox labeled 'Log in to administrative console' and a blue 'Log In' button.

Pre-Boot Authentication Login

Username

Password

Method

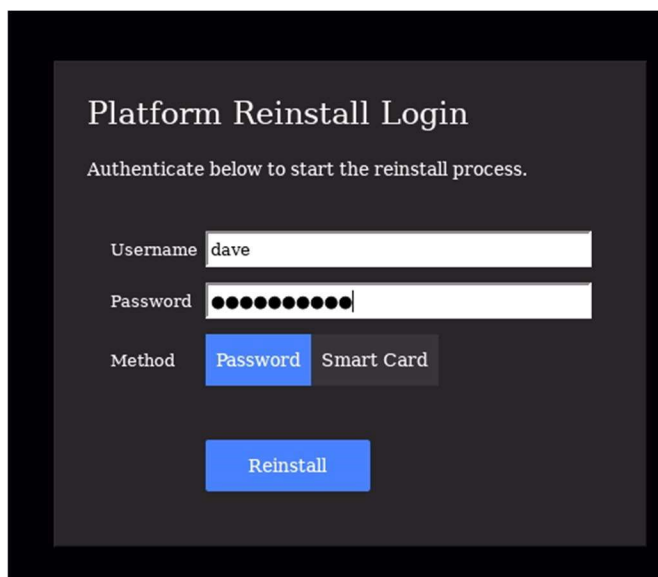
☐ Log in to administrative console

5 Re-enabling the PBA

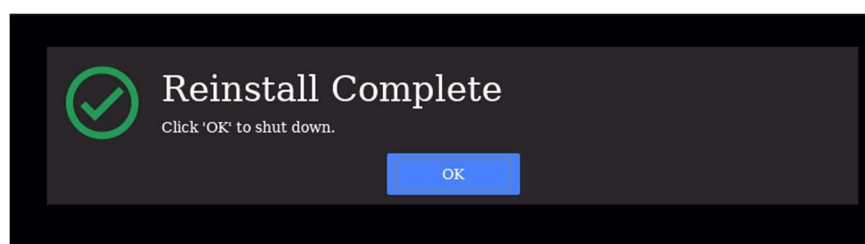
To re-enable PBA after temporarily disabling it from the maintenance page you will need the following:

1. An installation USB drive of the same version of PBA software installed on the device. See section [Create a bootable USB PBA Installer thumb drive](#))
2. Administrator credentials to the disabled PBA environment

When you are ready to re-enable the PBA boot to the USB drive, the system will detect that a PBA environment is already installed and present a reinstallation login screen.

A screenshot of the 'Platform Reinstall Login' screen. The screen has a dark background with white text. At the top, it says 'Platform Reinstall Login' and 'Authenticate below to start the reinstall process.' Below this are two input fields: 'Username' with the text 'dave' and 'Password' with masked characters. Under the password field is a 'Method' section with two buttons: 'Password' (highlighted in blue) and 'Smart Card' (greyed out). At the bottom is a large blue button labeled 'Reinstall'.

Enter valid administrator credential and click **Reinstall**. It should only take a few seconds to enable the PBA.

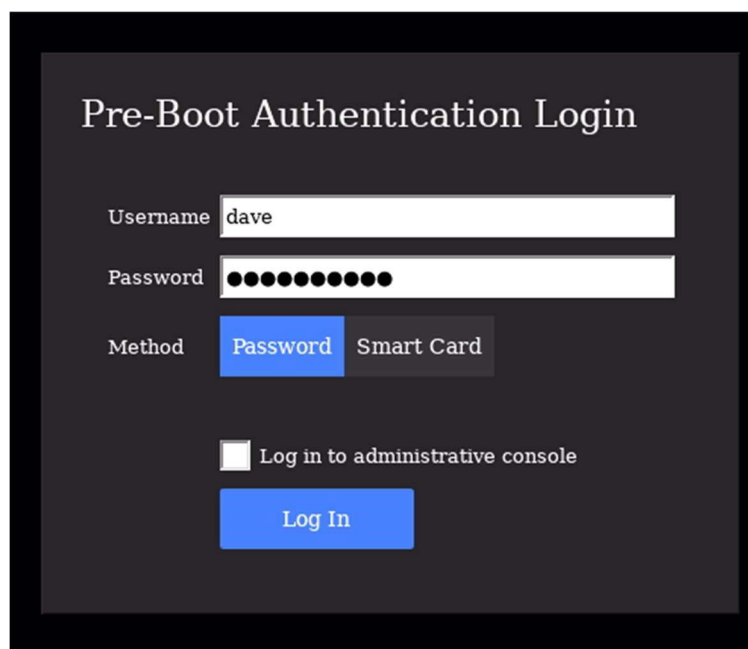


After shutting down restart the system. The PBA environment should once more present the normal login screen.

6 Logging in and Logging Out

6.1 Logging in with a username and password

1. Power on the computer and wait for the PBA authentication screen to appear.
2. Enter your username and password.
3. Click **Log in**.

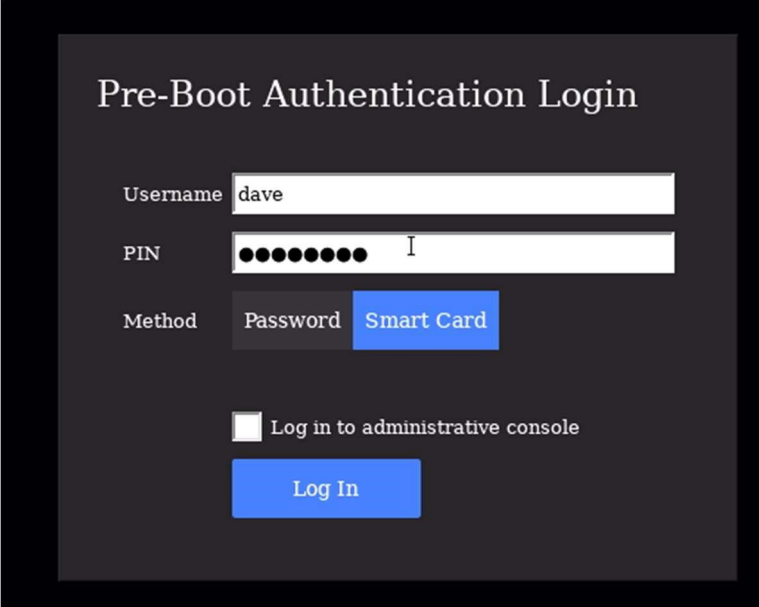
A screenshot of the Pre-Boot Authentication (PBA) login screen. The screen has a dark background with white text. At the top, it says "Pre-Boot Authentication Login". Below this, there are three input fields: "Username" with the text "dave", "Password" with masked characters (dots), and "Method" with two buttons: "Password" (highlighted in blue) and "Smart Card" (grey). Below the "Method" section, there is a checkbox labeled "Log in to administrative console". At the bottom, there is a blue button labeled "Log In".

If the authentication is successful, your system will reboot and automatically start your operating system.

6.2 Logging in with a Smart Card

1. Power on the computer and wait for the PBA authentication screen to appear.
2. Click **Smart Card**.

3. Enter your Username and PIN.
4. Click **Log In**.



The image shows a 'Pre-Boot Authentication Login' screen with a dark background. It features three input fields: 'Username' with the text 'dave', 'PIN' with ten dots and a cursor, and 'Method' with two buttons: 'Password' and 'Smart Card'. Below these is a checkbox labeled 'Log in to administrative console' and a blue 'Log In' button.

Pre-Boot Authentication Login

Username

PIN

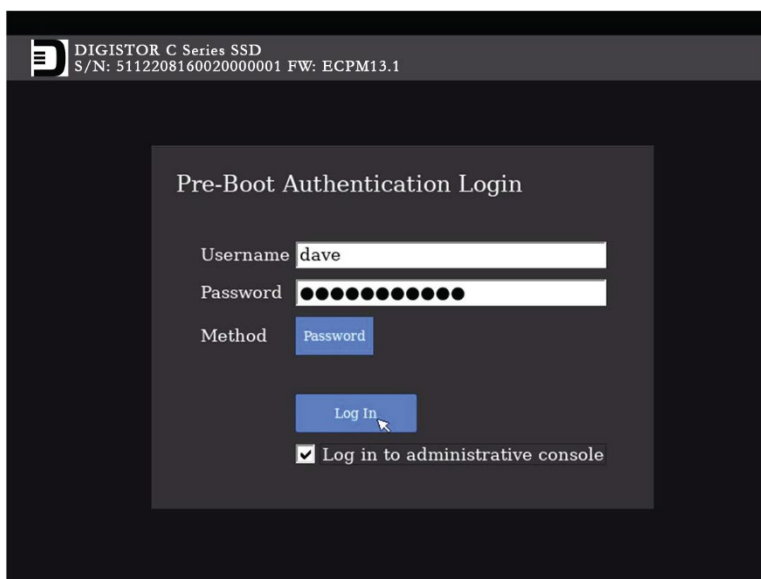
Method

☐ Log in to administrative console

If the authentication is successful, your system will reboot and automatically start your operating system.

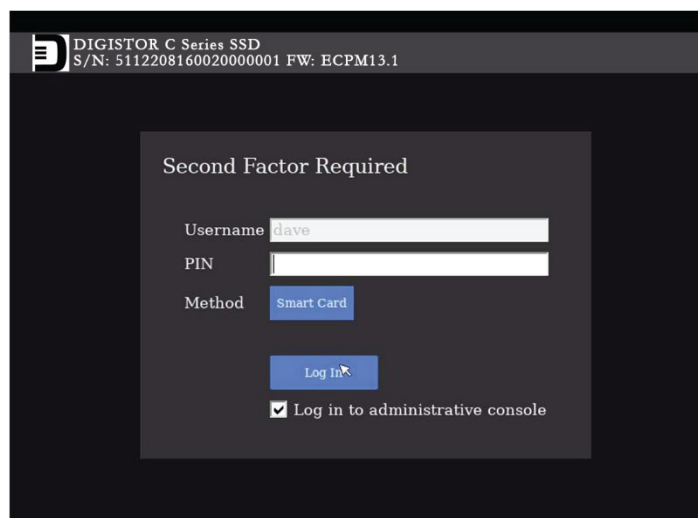
6.3 Logging in with Two Factor Authentication

When the "Require Two-Factor Authentication" setting is enabled, all users must authenticate with a password and smartcard. The Login page will first ask for the password then the smartcard PIN. If both factors are verified, the login will be successful.



The screenshot shows the 'Pre-Boot Authentication Login' screen. At the top, it displays 'DIGISTOR C Series SSD' and 'S/N: 5112208160020000001 FW: ECPM13.1'. The main form has fields for 'Username' (containing 'dave') and 'Password' (masked with dots). Below these is a 'Method' dropdown set to 'Password'. A 'Log In' button is present, along with a checkbox labeled 'Log in to administrative console' which is checked.

1. Power on the computer and wait for the PBA authentication screen to appear.
2. Enter the username and password.
3. Click **Log In**.



The screenshot shows the 'Second Factor Required' screen. It displays the same header as the previous screen. The 'Username' field contains 'dave'. A new 'PIN' field is added. The 'Method' dropdown is now set to 'Smart Card'. The 'Log In' button and the checked 'Log in to administrative console' checkbox are also visible.

4. Insert your smartcard.
5. Enter the **PIN**.
6. Click **Log In**.

If the authentication is successful, your system will reboot and automatically start your operating system.

6.4 Logging out of the PBA Administrative console

When you have finished using the administrative console you must Power Off using the button at the bottom left corner of the screen. There is no explicit log off capability. If you wish to enter the operating system, first power off, then power on.

For more information about Citadel C Series SSDs please visit

<http://www.digistor.com/citadel/c-series>

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