

# Storing the BitLocker volume keys using a Custom Field

Use a FileWave Custom Field to store the volume keys for your BitLocker volumes. This can be helpful if you don't have another way to escrow the volume keys. The Custom Field outlined in this article will get the volume key for every volume so if there is an encrypted C: and D: you would see both reported by this field.

## Adding the Custom Field

1. Download the following Custom Field export: [BitLocker Key Custom Field.customfields](#)
2. Import the downloaded file into "FileWave Admin>Assistants>Custom Fields>Edit Custom Fields>Import".
3. Save changes within Custom Fields dialog.
4. Associate Custom Field with desired Windows devices via "right-click>Edit Custom Field(s) Associations".
  1. A Windows-based Smart Group is very helpful to quickly associate Custom Field
  2. Smart Group criteria: "Client OS Platform [equals] Windows"

The screenshot shows the 'Custom Fields' dialog in FileWave Admin. On the left, a list of custom fields is shown, with 'BitLocker Key' selected. The right pane shows the 'Field Details' for 'BitLocker Key'. The 'Name' is 'BitLocker Key' and the 'Internal Name' is 'bitlocker\_key'. The 'Description' is empty. The 'Provided By' is 'Client Script'. The 'Assigned to all devices' checkbox is checked. The 'Data Type' is 'String'. The 'Client Script' section shows a PowerShell script that retrieves BitLocker volume keys. The 'Script type' is 'PowerShell' and the 'Execution Environment' is 'Windows'.

Display Name	Internal Name
BitLocker Key	bitlocker_key
Client Config Booster Routing	client_config_booster_routing
Client Config Booster1	client_config_booster1
Client Config Booster2	client_config_booster2
Client Config Booster3	client_config_booster3
Client Config Booster4	client_config_booster4
Client Config Booster5	client_config_booster5
Client Config Debug Level	client_config_debug_level
Client Config Hashed Password	client_config_hashed_password
Client Config Server Address	client_config_server_address
Client Config Tickle Interval	client_config_tickle_interval
Display Model	display_model
Max Battery Capacity	max_battery_capacity
Missing OS Update Count	missing_os_update_count
PowerShell x64	powershell_x64

**Field Details**

**Name**  
BitLocker Key

**Internal Name**  
Using internal name the field can be referenced in other parts of FileWave  
bitlocker\_key

**Description**

**Provided By**  
Defines how the field value shall be populated  
Client Script

☒ Assigned to all devices

**Values**

**Data Type**  
String

☐ Restrict allowed values  
☒ Use a default value

**Pending...**

**Client Script**  
This script will be run on the client side on verification. The output of the script will be captured and will serve as the value for the field. The default value will be assigned until the script is executed. If the script fails during client association, the default value will be used.

macOS | Windows

**Script type:** PowerShell

**Execution Environment...**

```
# FileWave client will execute this script. The output will be used as the value of the custom field.
#
# Below is an example of how to read the value of one ENVIRONMENT VARIABLE in your script:

# $my_var = $Env:ENV_VAR_NAME
#
# Identify all the Bitlocker volumes.
$BitlockerVolumers = Get-BitLockerVolume

# For each volume, get the RecoveryPassowrd and display it.
$BitlockerVolumers |
  ForEach-Object {
    $MountPoint = $_.MountPoint
    $RecoveryKey = [string](($_.KeyProtector).RecoveryPassword
    if ($RecoveryKey.Length -gt 5) {
      Write-Output ("{$MountPoint,$RecoveryKey}")
    }
  }
}
```

Here is the script from the Custom Field:

```
# FileWave client will execute this script. The output will be used as the value of the custom field.
#
# Below is an example of how to read the value of one ENVIRONMENT VARIABLE in your script:

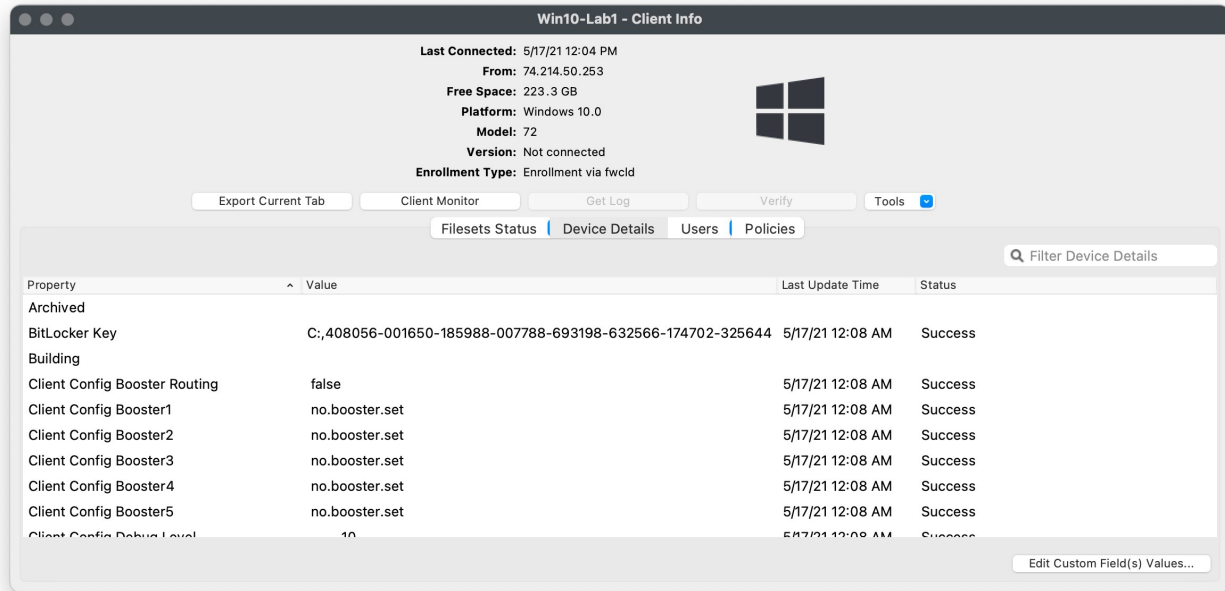
# $my_var = $Env:ENV_VAR_NAME
#
# Identify all the Bitlocker volumes.
$BitlockerVolumers = Get-BitLockerVolume

# For each volume, get the RecoveryPassowrd and display it.
$BitlockerVolumers |
  ForEach-Object {
    $MountPoint = $_.MountPoint
    $RecoveryKey = [string](($_.KeyProtector).RecoveryPassword
    if ($RecoveryKey.Length -gt 5) {
      Write-Output ("{$MountPoint,$RecoveryKey}")
    }
  }
}
```

# Assigning the Custom Field to devices

1. Save changes within Custom Fields dialog.
2. Associate Custom Field with desired Windows devices via "right-click>Edit Custom Field(s) Associations".
  - A Windows-based Smart Group is very helpful to quickly associate Custom Field
  - Smart Group criteria: "Client OS Platform [equals] Windows"
3. Alternatively you could assign the field to all devices since only Windows devices will run the script.

## Results



## Related articles

- [Securing FileWave Server on the Internet for Remote Device Management](#)

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