

Please follow this table for upgrade for various SKUs across P4510, P4610 & P4511 SKUs.

For e.g. for customer to upgrade P4510 drive from firmware VDV10131 to VDV10152. First drive needs to update to hop firmware - VDV1046X and subsequently to VDV10152.

From	NEW Hop Firmware	To	Path	SKU	Allowed?
PRQ1 - VDV10100	VDV1046X	MR5 – VDV10152	Upgrade	P4510 - 1, 2TB <sup>1</sup>	Yes
MR1 - VDV10110	VDV1046X	MR5 – VDV10152	Upgrade	P4510 - 1, 2TB <sup>1</sup>	Yes
MR2 - VDV10120	VDV1046X	MR5 – VDV10152	Upgrade	P4510 - 1, 2, 4, 8TB	Yes
MR3- VDV10131	VDV1046X	MR5 – VDV10152	Upgrade	P4510 - 1, 2, 4, 8TB	Yes
MR5 (QS):VDV1045D	VDV1046X	MR5 – VDV10152	Upgrade	P4510 - 1, 2, 4, 8TB	Yes
PRQ4 – VDV10140	VDV1046Z	MR5 – VDV10152	Upgrade	P4610 – 1.6,3.2,6.4,7.68TB	Yes
PRQ4 – VCV10301	VCV1056X	MR5 – VCV10352	Upgrade	P4511 – 1,2TB	Yes

## Example: VDV10152 - Firmware upgrade through NVMeCLI – similar process for P4610 & P4511 SKUs

### Step1 - Check current firmware version

```
# nvme list
```

```
[root@localhost ~]# nvme list
Node           SN                      Model                      Namespace Usage           Format           FW Rev
-----
/dev/nvme0n1    BTLJ7381008B2P0BGN      INTEL SSDPE2KX020T8        1             2.00 TB /   2.00 TB    512 B + 0 B    VDV10131
```

### Step 2 - Upgrade to the hop firmware

```
# nvme fw-download /dev/nvme0n1 -f VDV1045X_VB1B0158_Generic-0001_WFEM01K0_signed.bin
```

(Note - example above shows hop firmware as VDV1045X, but latest hop firmware with this zip file package is VDV1046X)

```
# nvme fw-activate /dev/nvme0n1 -s 0 -a 1
```

```
[root@localhost ~]# nvme fw-download /dev/nvme0n1 -f VDV1045X_VB1B0158_Generic-0001_WFEM01K0_signed.bin
Firmware download success
[root@localhost ~]# nvme fw-activate /dev/nvme0n1 -s 0 -a 1
Success activating firmware action:1 slot:0
```

```
# nvme reset /dev/nvme0
```

```
# nvme list
```

```
[root@localhost ~]# nvme reset /dev/nvme0
[root@localhost ~]#
[root@localhost ~]# nvme list
Node           SN                      Model                      Namespace Usage           Format           FW Rev
-----
/dev/nvme0n1    BTLJ7381008B2P0BGN      INTEL SSDPE2KX020T8        1             2.00 TB /   2.00 TB    512 B + 0 B    VDV1045X
```

### Step 3 - Upgrade to the MR5 firmware

```
# nvme fw-download /dev/nvme0n1 -f VDV10152_VB1B015A_WFEM01K0_signed.bin
```

```
# nvme fw-activate /dev/nvme0n1 -s 0 -a 1
```

```
[root@localhost ~]# nvme fw-download /dev/nvme0n1 -f VDV10152_VB1B015A_WFEM01K0_signed.bin
Firmware download success
[root@localhost ~]# nvme fw-activate /dev/nvme0n1 -s 0 -a 1
Success activating firmware action:1 slot:0
```

```
# nvme reset /dev/nvme0
```

```
# nvme list
```

```
[root@localhost ~]# nvme reset /dev/nvme0
[root@localhost ~]#
[root@localhost ~]# nvme list
Node           SN                      Model                      Namespace Usage           Format           FW Rev
-----
/dev/nvme0n1    BTLJ7381008B2P0BGN      INTEL SSDPE2KX020T8        1             2.00 TB /   2.00 TB    512 B + 0 B    VDV10152
```