Implementation Note: OpenVMS Host Profile

For MSA2040 SAN validation with OpenVMS V8.4-1H1 and V8.4-2, the MSA 2040 SAN Command Line Interface was used to set host profiles for OpenVMS servers accessing MSA 2040 SAN volumes.

The following example demonstrates the use of the MSA 2040 SAN CLI to set the host profile of an rx2800 i4 OpenVMS system:

```
┌──────────────────────────────────────────────────────────────────────────┬─────────┐
│                                 SYSTEMS                                  │ MEMBERS │
├─────────┬──────────────────────────────────────┬─────────────┬───────────┤         │
│  NODE   │              HW_TYPE                 │  SOFTWARE   │  STATUS   │         │
├─────────┼──────────────────────────────────────┼─────────────┼───────────┤         │
│ NOMAR   │ HP rx2800 i4  (2.53GHz/32.0MB)       │ VMS V8.4-1H1│ MEMBER    │         │
└─────────┴──────────────────────────────────────┴─────────────┴───────────┘
…
$ show device fg/full

Device FGA0:, device type QLogic ISP253x FC, is online, shareable, error logging
    is enabled.

    Error count                    0    Operations completed               410
    Owner process                 ""    Owner UIC                      [SYSTEM]
    Owner process ID        00000000    Dev Prot               S:RWPL,O:RWPL,G,W
    Reference count                0    Default buffer size                  0
    Current preferred CPU Id      11    Fastpath                             1
    Current Interrupt CPU Id      11
    FC Port Name 5001-4380-2429-E830    FC Node Name        5001-4380-2429-E831

Device FGB0:, device type QLogic ISP253x FC, is online, shareable, error logging
    is enabled.

    Error count                    0    Operations completed               399
    Owner process                 ""    Owner UIC                      [SYSTEM]
    Owner process ID        00000000    Dev Prot               S:RWPL,O:RWPL,G,W
    Reference count                0    Default buffer size                  0
    Current preferred CPU Id       1    Fastpath                             1
    Current Interrupt CPU Id       1
    FC Port Name 5001-4380-2429-E832    FC Node Name        5001-4380-2429-E833
$
```

At the CLI for the MSA 2040, use the following commands to set the profile for these OpenVMS host connections:

```
# set initiator nickname NOMAR_rx28i4_FGA profile openvms id 500143802429E830
Changing the host profile parameter can disrupt access from connected initiators.
Are you sure you want to apply these settings? (y/n) y
Success: Command completed successfully. - The host(s) were modified.  (2016-05-04 14:59:43)

# set initiator nickname NOMAR_rx28i4_FGB  profile openvms id 500143802429E832
Changing the host profile parameter can disrupt access from connected initiators.
Are you sure you want to apply these settings? (y/n) y
Success: Command completed successfully. - The host(s) were modified.  (2016-05-04 15:00:14)

# show hosts
Host ID           Host Name         Discovered Mapped Profile  Host Type
------------------------------------------------------------------------
500143802429e830  NOMAR_rx28i4_FGA  Yes        No     OpenVMS  FC
500143802429e832  NOMAR_rx28i4_FGB  Yes        No     OpenVMS  FC
------------------------------------------------------------------------
Success: Command completed successfully. (2016-05-04 15:00:16)

#
```

Implementation Note: OpenVMS Unit Identifier (UID)

In order for MSA 2040 SAN volumes to be visible to OpenVMS systems, each volume must have an OpenVMS unit identifier. This unit identifier must be unique within the fibrechannel SAN that includes the MSA 2040 and OpenVMS hosts.

For MSA2040 SAN validation with OpenVMS V8.4-1H1 and V8.4-2, the MSA 2040 SAN Command Line Interface was used to define the OpenVMS UID for MSA 2040 SAN volumes presented to OpenVMS hosts. See the following CLI examples

```
# show volumes
Pool        Name             Total Size Alloc Size Class    Type     Health Reason Action
-------------------------------------------------------------------------------------------
bills_vd00  bills_vd00_v000  19.9GB     19.9GB     Linear   standard OK
bills_vd00  bills_vd00_v001  19.9GB     19.9GB     Linear   standard OK
bills_vd00  bills_vd00_v002  19.9GB     19.9GB     Linear   standard OK
bills_vd01  bills_vd01_v000  19.9GB     19.9GB     Linear   standard OK
bills_vd01  bills_vd01_v001  19.9GB     19.9GB     Linear   standard OK
bills_vd01  bills_vd01_v002  19.9GB     19.9GB     Linear   standard OK
bills_vd05  bills_vd05_v080  5997.8MB   5997.8MB   Linear   standard OK
bills_vd05  bills_vd05_v081  5997.8MB   5997.8MB   Linear   standard OK
bills_vd05  bills_vd05_v082  5997.8MB   5997.8MB   Linear   standard OK
-------------------------------------------------------------------------------------------
Success: Command completed successfully. (2016-06-13 17:52:00)

#
```

For MSA 2040 SAN volume: ***bills_vd05_v080***, use the CLI " ***set volume***" command to assign the volume an OpenVMS unit identifier (UID) (e.g. ***680*** to create 1DGA***680***:) as follows:

 # set volume bills_vd05_v080 ovms-uid 680

Once the UID has been defined, if the OpenVMS system is already booted, to discover the MSA 2040 volume, issue the following DCL command:

$ MCR SYSMAN IO AUTO/LOG