VIM
NFVI
Sec Agent (VBS Agent)
Secure/HMEE
Sec Manager (VBS Server)
Secure/HMEE
Initial State - VNF not instantiated (or instantiated/not active, needs to be securely bootstrapped)
1
Verify VNF Signatures (VNF Image, VNF-Desc, Sign)
2
SecProvHISEE-VBS (PubKeyVBS, IP-Addr-VBS, PlatformID)
3
SecProvVBS-VNFM Whitelisting (VBS Server, VNFM)
4
Launch VNF (VNF Image, VNF Desc, VBS-Start-Parms, Signature)
GetVBS Startup Params()
5
Verify VNF Signatures (VNF Image, VNF-Desc, VBS-Startup-Params, Signature)
6
Verify VNF Signatures (VNF Image, VNF-Desc, VBS-Startup-Params, Signature)
7
HMEE-Register (VNFID, VBS-Startup-Params)
8
VNF instantiated (not active)
9
Create-Pub/Priv-KeyPair (PubKey-VNF, PrivKey-VNF)
10
GetAttestedQuote (PlatformID, VNFID,...)
11 12 13 14
VBS-CaptureProtocol (See Separate Diagram)
15
VNF-Activated (VNF-ID)
16
VNF-Activated (VNF-ID)
Final State - VNF Active