

Hardware Platform Awareness Functional Requirement (Part 2)

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Current Status

- Some of planned work items for Beijing (R2) could not be finished...

Functionality	Status
Specification of VNF HPA requirements as part of the VNFD (TOSCA only)	Delayed until R3
On-boarding and use of VNFs with TOSCA based VNFDs	Delayed until R3
Automated translation of HPA requirements, found in the VNFD, into OOF homing and placement policies	Delayed until R3
Manual specification of HPA centric OOF homing and placement policies via the Policy Framework	Completed
Use of HPA centric OOF homing and placement policies during VNF instantiation	Completed
Day 0 SRIOV setup and configuration	Delayed until R3
Discovery of compute resource HPA capabilities during VIM on-boarding	Completed
Persistence of discovered HPA capabilities in AAI database	Completed

In Beijing (R2), we can now manually define HPA centric homing policies for use with OOF and manually associate them with different VNFs.

Casablanca Plans

- **Finish what we started...**

- Specification of VNF HPA requirements as part of the VNFD (TOSCA only)
- On-boarding and use of VNFs with TOSCA based VNFDs
- Automated translation of HPA requirements, found in the VNFD, into OOF homing and placement policies
- Day 0 SRIOV setup and configuration

- **New features**

- Enable hardware platform telemetry integration with AAI
- Enable hardware platform telemetry integration with DCAE
- Enable use of hardware platform telemetry for on-going optimization and operation of VNFs
- HPA awareness during auto-scaling operations (interoperability)
- HPA awareness during automated change management (interoperability)
- VF-C integration

- **Stretch goals**

- End-to-end VNF orchestration via pure TOSCA orchestrator