NS Framework Document

Review & Suggestions

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II) viewpoint of from the user towards the physical infrastructure owner. From this viewpoint a slice is viewed just as a set of resources that must be managed (requests to a provider, listed, changed, returned to the provider, etc.). This viewpoint emphasizes those issues that would be used in the SLA definition of a slice.

3.2. ~~General~~ Reference Architecture

3.2.1 Network Slice capabilities

* Four-dimensional efficient slice creation with guarantees for isolation in each of the Data /Control /Management /Service planes.
* Enablers for safe, secure and efficient multi-tenancy in slices.

\* Methods to enable diverse requirements for NS including guarantee for the end-to-end QoS of service in a slice.

\* Efficiency in slicing: specifying policies and methods to realize diverse requirements without re-engineering the infrastructure.

\* Recursion: namely methods for NS segmentation allowing a slicing hierarchy with parent - child relationships.

\* Customized security mechanisms per slice.

\* Methods and policies to manage the trade-offs between flexibility and efficiency in slicing.

\* Optimisation: namely methods for network resources automatic selection for NS; global resource view formed; global energy view formed; Network Slice deployed based on global resource and energy efficiency; Mapping algorithms.

\* Monitoring status and behaviour of NS in a single and/or muti-domain environment; NS interconnection.

\* Programmability and control of Network Slices.

\* Non-functional characteristics of Network Slices ( i.e. resilience, performance, flexibility, …)

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