Supportability and the value proposition NetApp brings to an IPv6 environment

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NetApp is in the same position others in the IPv6 community are.

- Adoption rates aren’t where we want them to be.
- NetApp is a qualified IPv6 solution provider making a great ally in the community.
- NetApp’s customers drive the innovation we pursue in order to provide the solutions needed.
Portfolio of Innovation

How can we partner, what does NetApp have to offer the IPv6 community.
NetApp’s IPv6 implementation

- Tested internally by QA, Interop and Solutions groups
- Tested externally by customers who are long time NetApp proponents
  - This has resulted in security audits we may not have had access to otherwise.
- Adheres to relevant RFC’s - RFC4291, RFC4861, etc
- Migration support from an IPv4 environment to an IPv6
- Support for mixed stack
Potential Use Cases

- Many “Cloud” solution providers are taking advantage of IPv6
- NetApp has long standing relationships with many of these providers. As such, NetApp can move quickly when these providers need a stable, functional IPv6 storage solution.
- NetApp works consistently to provide the needs of the industry providers – if they need it, we can provide it.
NetApp Cluster Types and Configuring the Necessary Network Related Settings
What Type of Cluster

Single Node

- Data Network
- Management Network

2-Node Switchless

- Direct Connect No Interconnect Switch
- Management Network
- Data Network
What Type of Cluster

Multi-node switched

Management Network

Data Network

Cluster Interconnect Switches
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Ports:
Physical, VLANs, Interface Groups

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Different port types – all support IPv6 logical devices

- Physical – can be used individually or as part of the logical port offerings below

- VLAN – security aspects complement NetApp’s Secure Multi-tenant solution as well as complementing the security messaging inherent in a securely configured IPv6 environment

- Interface groups – can be used for aggregate bandwidth and additional resiliency
  - Static multimode
  - Dynamic multimode
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Logical Interfaces (LIFs) in Clustered Data ONTAP
Logical Interfaces (LIFs)

- LIFs are created as an abstraction on top of the physical (physical ports) or virtual interface (VLANs or IFGRPs) layer
- Multiple LIFs can exist on one port
- LIFs need to be created with ports of the appropriate type
Thank you