| Draft USGv6-r1 Comments Template | | | | | |
|---|---|---|---|---|---|
| **Name** | **Orgnaization** | **Email Address** | | | |
| **Relevant Documents** | **Reference** | **Email completed comment sheet to: usgv6-program@nist.gov.** | | | |
| *NIST IPv6 Profile* | DRAFT NIST SP-500-267Ar1 | | | | |
| *NISTv6 Capabilities Table* | DRAFT NIST SP-500-267Ar1s | | | | |
| *USGv6 Profile* | DRAFT NIST SP-500-267Br1 | | | | |
| *USGv6 Capabilities Table* | DRAFT NIST SP-500-267Br1s | | | | |
| *USGv6 Test Program Guide* | DRAFT NIST SP-500-281Ar1 | | | | |
| *USGv6 Suppliers Declaration of Confor* | DRAFT NIST SP-500-281Ar1s | | | | |
| *USGv6 Test Methods: General Descriptio* | DRAFT NIST SP-500-281Br1 | | | | |
| **Document** | **Section** | **Comment** | **Your Proposed Resolution / Change** | **Other Info** | **Proposed Comment Resolutions** |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | This comment ties to the comment above on RFC 2711 (Router Alert). Assuming RFC | Suggest RFC 6398 (Router Alert Considerations) for the "Multicast" capability in the | Router Alert | Based on the comment above, we won't be including the Routing Alert. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 6437 (Flow Label) provides the requirements for the flow label field of the IPv6 | Suggest RFC 6437 (Flow Label) as an additional RFC required to provide the "Core" | Flow Label | This should be included since it uses the MUST for unchanging the flow label (2460 didn't have the MUST). |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 8201 (Path MTU Discovery) is in the NCT and UCT for the "Core" capability. RFC | Suggest RFC 4821 (Packetization Layer PMTUD) as a new "PMTUD-Ext" capability in | PMTUD | This is included as an Extra PMTU capabilities (PMTUD) |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 7608 (Prefix Length Recommendations) provides fundamental requirements for | Suggest RFC 7608 (Prefix Length Recommendations) as an additional RFC required to | Routing | Added to Core Capability for a Router. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 4943 (ND On-Link Assumption) is an informational RFC that does not provide | Suggest remove RFC 4943 (ND On-Link Assumption) from the NCT and UCT or clarify | ND | Since RFC 4861 covers the MUST aspects of this, this will be removed from the next revision. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 4429 (Optimistic DAD) provides a faster implementation of DAD, most useful for | Suggest RFC 4429 (Optimistic DAD) as a new "ND-Ext-Opt-DAD" capability in the | ND | Added a new ND-Ext-Opt for Neighbor Discovery. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 4861 (ND) is in the NCT and UCT, so RFC 8319 (Router Lifetimes) which updates | Suggest RFC 8319 (Router Lifetimes) as a new "ND-Ext-Lifetime" capability in the | ND | Added a new ND-Ext-Opt for Neighbor Discovery. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 8305 (Happy Eyeballs v2) reduces user-visible delays as explained in its Section 1. | Suggest RFC 8305 (Happy Eyeballs v2) as a new "Happy-Eyeballs" capability in the | Happy Eyeballs | Added a capability for HOST. |
| NISTv6 Capabilities Table and | "Addressing Capabilities" group of | RFC 4291 (IPv6 Addressing Architecture) is in the NCT and UCT, so RFC 7136 (IIDs) | Suggest RFC 7136 (IIDs) as an additional RFC required to provide the "Addr-Arch" | Addressing | Included in Address Architecture Capabilities |
| NIST IPv6 Profile | Sections 3.1.1 (Selecting Host | RFC 8064 (Stable IIDs) updates RFCs in the NCT and UCT, including RFC 4291 (IPv6 | In Sections 3.1.1 and 3.2.1 of the NIST Profile, suggest add the following to the bullet | Addressing | Updated SLAAC to have the requirement to use 7217 (IIDS). |
| NISTv6 Capabilities Table and | "Addressing Capabilities" group of | RFC 6164 (127-Bit Prefixes) specifies the use of 127-bit prefixes on inter-router point- | Suggest RFC 6164 (127-Bit Prefixes) as an additional RFC required to provide the "Addr- | Addressing | Added for as a requirement for Address Architecture for Router. |
| NISTv6 Capabilities Table and | "Addressing Capabilities" group of | RFCs 4007 (IPv6 Scoped Address Architectures) and 4291 (IPv6 Address Architecture) | Suggest RFC 7346 (Multicast Address Scopes) as an additional RFC required to provide | Addressing | Add a Reference for Address Architecture. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | The NCT and UCT list RFC 3736 and one of its references, RFC 3646; they should also | Suggest RFC 3319 (DHCPv6 Options for SIP) as an additional RFC required to provide | DHCP | Add DHCP-Client-Ext Capability to include SIP Options |
| NISTv6 Capabilities Table and | "Network Support Capabilities" | The NCT and UCT list RFC 3736 and one of its references, RFC 3646; they should also | Suggest RFC 3319 (DHCPv6 Options for SIP) as an additional RFC required to provide | DHCP | Add DHCP-Client-Ext Capability to include SIP Options |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | The NCT and UCT list RFC 3633; RFC 6603 fills a deficiency in it by allowing a router | Suggest RFC 6603 (Prefix Exclude Option for DHCPv6 Prefix Delegation) as an additional | DHCP | Add DHCP-Prefix-Ext Capability to include Prefix Exclude. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 3315 and RFC 3633 are listed in the UCT and NCT, but both are updated by RFC | Suggest RFC 7550 (Multiple Stateful DHCPv6 Options) as an additional RFC required to | DHCP | Updated the DHCP-Client, DHCP-Server, and DHCP-Prefix to include RFC 7550. |
| NISTv6 Capabilities Table and | "Network Support Capabilities" | RFC 3315 and RFC 3633 are listed in the UCT and NCT, but both are updated by RFC | Suggest RFC 7550 (Multiple Stateful DHCPv6 Options) as an additional RFC required to | DHCP | Update DHCP-Client, DHCP-Server, and DHCP-Prefix to include RFC 7550. |
| NISTv6 Capabilities Table and | "Network Support Capabilities" | Enterprise environments will likely need the ability to retrieve address lease | Suggest RFC 5460 (DHCPv6 Bulk Leasequery) as an additional RFC required to provide | DHCP | Add RFC 5460 to a new capability call DHCP-Server-Ext as all DHCPv6 servers don't need to support this functionality |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5340 (OSPF for IPv6) defines OSPFv3 to support IPv6 unicast. RFC 5838 (OSPFv3 | Suggest RFC 5838 (OSPFv3 Address Families) as an additional RFC required to provide | OSPF | These requirements are extensions for support of IPv6 multicast, should be added as extended OSPF. (OSPF-EXT) |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | | Suggest RFC 6845 (OSPF Interface Types) as a new "OSPF-Hybrid" capability in the | OSPF | Add to OSPF-EXT, as not all routers need to support this. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5340 (OSPF for IPv6) is in the NCT and UCT, so RFC 6860 (Transit-Only Networks) | Suggest RFC 6860 (Transit-Only Networks) as an additional RFC required to provide the | OSPF | Prevents an attack to transit-only networks so adding this to OSPF-Ext as it's a optional improvements |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5340 (OSPF for IPv6) is in the NCT and UCT and RFC 5838 (OSPFv3 Address | Suggest RFC 8362 (OSPFv3 LSA Extensibility) as a new "OSPF-LSA-Ext" capability in the | OSPF | Added for OSPF Extension, as this is advanced. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | Per RFC 5340 (OSPF for IPv6), OSPFv3 is transported over IPv6. RFC 7949 (OSPFv3 over | Suggest RFC 7949 (OSPFv3 over IPv4) as a new "OSPF-IPv4" capability in the "Routing | OSPF | Agree to add based on supporting IPv6 working over IPv4 network. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5185 (OSPF Multi-Area Adjacency) allows a link to be shared by multiple areas to | Suggest RFC 5185 (OSPF Multi-Area Adjacency) as a new "OSPF-Multi-Area-Adj" | OSPF | Added for OSPF-Ext as this is advanced. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | The NCT and UCT include RFC 4552 (Authentication/Confidentiality for OSPFv3) that | Suggest RFC 7166 (Authentication Trailer for OSPFv3) as a new "OSPF-Auth-Trailer" | OSPF | RFC 7166 stops reply attacks which IPsec (4552) does not. Added OSPF-Auth that uses this technic. Moved OSPF over |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5613 (OSPF Link-Local Signaling) allows additional information to be exchanged | Suggest RFC 5613 (OSPF Link-Local Signaling) as an additional RFC required to provide | OSPF | RFC 7166 is recommends support for RFC 5613 so this should be included in the OSPF-Auth. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5187 (OSPFv3 Graceful Restart) enables graceful restart of an OSPFv3 router to | Suggest RFC 5187 (OSPFv3 Graceful Restart) as a new "OSPF-Grace-Restart" | OSPF | Added for OSPF Extension, as this is advanced. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 8379 (OSPF Graceful Link Shutdown) allows traffic to be rerouted off of a link | Suggest RFC 8379 (OSPF Graceful Link Shutdown) as a new "OSPF-Grace-Link" | OSPF | Added for OSPF Extension, as this is advanced. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5308 (IPv6 with IS-IS) is in the NCT and UCT, so RFC 7775 (IS-IS Route Preference) | Suggest RFC 7775 (IS-IS Route Preference) as an additional RFC required to provide the | IS-IS | Will add RFC 7775 to IS-IS-Ext as it extended. |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFCs 5304 (IS-IS Authentication) and 5310 (IS-IS Generic Authentication) are in the | Suggest RFC 6232 (Purge Originator Identification TLV for IS-IS) as an additional RFC | IS-IS | This is feature that allows for network operators to track which IS-IS purges. This is not a essential so it's an |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFCs 5304 (IS-IS Authentication) and 5310 (IS-IS Generic Authentication) are in the | Suggest RFC 6233 (IS-IS Registry Extension for Purges) as an additional RFC required to | IS-IS | This is feature that allows for network operators to track which IS-IS purges. This is not a essential so it's an |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5301 (Hostname Exchange for IS-IS) supports operations and management by | Suggest RFC 5301 (Hostname Exchange for IS-IS) as a new "IS-IS-Names" capability in | IS-IS | Will add to IS-IS-EXT for naming purposes |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | RFC 5120 (IS-IS MT) supports multiple topologies (MTs) in a single IS-IS domain, | Suggest RFC 5120 (IS-IS MT) as a new "IS-IS-MT" capability in the "Routing | IS-IS | Added to IS-IS-EXT, as it's a optional feature for IS-IS |
| NISTv6 Capabilities Table and | "Routing Capabilities" group of | The CE-Router capability in the NCT and UCT cites Section 4.5 of RFC 7084 (CE Router | Suggest RFC 3704 (Ingress Filtering for Multihomed Networks) as a new "CE-Router- | CE-Router | We agree, but there aren't any implementations. Also future standards are neede for supporting multi-homed |
| NISTv6 Capabilities Table and | "Multicast Capabilities" group of | RFCs 3306 (Unicast-Prefix-based Multicast Addresses), 3956 (Embedding RP), and | Suggest RFC 7371 (Updates to Multicast Addressing Architecture) as an additional RFC | Multicast | Should be included as part of Multicast since this updates Multicast delivery |
| NISTv6 Capabilities Table and | "Multicast Capabilities" group of | The RFC 3810 (MLDv2) support for the "Multicast" capability is limited to "ability to | For the second row for RFC 3810 (MLDv2) in the NCT and UCT, suggest change the | Multicast | Agree with updating the name "Ability to Join/Leave Multicast Group with ASM" Add a Note for Section 8. |
| NISTv6 Capabilities Table and | "Multicast Capabilities" group of | The NCT and UCT provide a "Multicast-Routing" capability using PIM-SM [RFC 7761], | Suggest RFC 4610 (Anycast-RP Using PIM) as a new "Multicast-PIM-Anycast-RP" | Multicast | Update to PIM-SM-RP for RP discovery |
| NISTv6 Capabilities Table and | "Multicast Capabilities" group of | Existing network deployments use Bootstrap Router (BSR) for Rendezvous Point (RP) | Suggest RFC 5059 (BSR for PIM) as a new "Multicast-PIM-BSR" capability in the | Multicast | Update to PIM-SM-RP for RP discovery |
| NISTv6 Capabilities Table and | "Multicast Capabilities" group of | Embedded RP is an IPv6 multicast feature that is not provided with IPv4. More | Suggest RFC 3956 (Embedded-RP Multicast Addresses) as a new "Multicast-PIM- | Multicast | Update to PIM-SM-RP for RP discovery |
| NISTv6 Capabilities Table and | "Multicast Capabilities" group of | Bidirectional PIM (RFC 5015) is a variant of PIM-SM that implements intra-domain | Suggest RFC 5015 (BiDir PIM) as a new "Multicast-PIM-BiDir" capability in the | Multicast | Add PIM-SM-BiDir as this might be useful for multicast deployments. |
| NISTv6 Capabilities Table and | "Multicast Capabilities" group of | The NCT and UCT specify RFCs for the security of unicast routing protocols (e.g., OSPF, | Suggest RFC 5796 (Authentication and Confidentiality for PIM) as a new "Multicast- | Multicast | This RFC does not seem to be widely supported. At the moment It's an the only option for PIM-SM-Security so we |
| NISTv6 Capabilities Table and | "Transition Mechanism" | RFC 2890 (Key and Sequence Number Extensions to GRE) adds key and sequence | Suggest RFC 2890 (Key and Sequence Number Extensions to GRE) as an additional RFC | GRE | Section 2 of RFC 7676 says RFC 2890 behaviors must be followed, so there is no need to reference 2890 |
| NISTv6 Capabilities Table and | "Transition Mechanism | RFC 4038 (Application Aspects) is an informational RFC that does not provide MUST | Suggest remove RFC 4038 (Application Aspects) from the NCT and UCT or clarify how it | Transition | RFC 4038 does have MUST requirements, but this RFC is really about Application support for IPv6. Since this RFC |
| NISTv6 Capabilities Table and | "Transition Mechanism | A generic "Tunneling" capability is too broad as many tunneling mechanisms have | Suggest rename the capability corresponding to RFC 4213 (Basic Transition | Transition | Removed RFC 4213, and 4891 as they are tunnelling IPv6 over IPv4. Profile is suggesting transition mechanims for |
| NISTv6 Capabilities Table and | "Transition Mechanism | RFC 4891 (IPsec for IPv6-in-IPv4) is an informational RFC that does not provide MUST | Suggest remove RFC 4891 (IPsec for IPv6-in-IPv4) from the NCT and UCT or clarify how | Transition | Remove this since it's a IPv6 over IPv4. |
| NISTv6 Capabilities Table and | "Transition Mechanism | Suggest defining individual capabilities for each tunnel mechanism per the comment | Suggest rename the capability corresponding to RFC 2473 (Tunneling in IPv6) from | Transition | Agree to add capability to specify if the Tunnel is GRE with IPv6 Payload or GRE using IPv6 transport. |
| NISTv6 Capabilities Table and | "Transition Mechanism | RFC 6936 (UDP Checksums) provides requirements for tunneling in UDP, especially | Suggest RFC 6936 (UDP Checksums) as a new "Tunnel-in-UDP" capability in the | Transition | Include this in a Tunneling requirement. |
| NISTv6 Capabilities Table and | "Transition Mechanism | The "XLAT" capability should also require RFC 6146 (Stateful NAT64) and RFC 6147 | Suggest RFC 6147 (DNS64) and RFC 6146 (Stateful NAT64) as additional RFCs required | XLAT | Agree with this change,added DNS64 and NAT64 as seperate cabablities as often different nodes support these |
| NISTv6 Capabilities Table and | "Security Capabilities" group of | RFC 8446 (TLS Version 1.3) is now available for the TLS capability. Alternatively, RFC | Suggest add RFC 8446 (TLS Protocol Version 1.3) in addition to RFC 5246 (TLS Version | TLS | TLS 1.3 is not widely deployed yet. But add it so that it can be used in the future. |
| NISTv6 Capabilities Table and | "Security Capabilities" group of | See comment to right. | Suggest add RFC 6460 (Suite B Profile for TLS). | TLS | Removed Suite B since the IETF has marked it as historic |
| NISTv6 Capabilities Table and | "Security Capabilities" group of | See comment to right. | All Suite B RFCs should have a footnote that reads: 'NSA is in the process of updating | Security | Removed Suite B since the IETF has marked it as historic |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 3971 (SEND) is in the NCT and UCT, so RFC 6494 which updates RFC 3971 should | Suggest RFC 6494 (Certificate Profile and Certificate Management for SEND) as an | SEND | Agree to include as it's updated method for certificates, added to the SEND capabilities. |
| NISTv6 Capabilities Table and | "Basic Capabilities" group of NCT | RFC 3971 (SEND) is in the NCT and UCT, so RFC 6495 which updates RFC 3971 should | Suggest RFC 6495 (Subject Key Identifier SEND Name Type Fields) as an additional | SEND | Agree to include in include as it addresses several issues with SeND. |
| NIST IPv6 Profile | page 47 (or "39"), section 4.12.3.8 | Fragmented packets are not a normal occurrence for Neighbor Discovery (ND) | Amend section to recommend network protection packets have the ability to drop | Profile | The requirement should allow for a network operator to configure that if they want to block fragemented ND packets. |
| NISTv6 Capabilities Table | Varied | RDNSS is absent from the new scope of requirements | RDNSS to be included in the appropriate document | RFC 6106 | RFC 8106 was included in the profile which is the updated. |
| NISTv6 Capabilities Table | Varied | BGP PIC updates for global prefixes is absent from the new scope of requirements | PIC updates for global prefixes to be included in the appropriate document | RFC 3107 | Choose not to add this, as we aren't aware of any use cases. |
| NISTv6 Capabilities Table | Varied | Control Plane policing for IPv6 sessions is absent from the new scope of requirements | Control Plane policing for IPv6 sessions to be included in the appropriate document | RFC 6192 | Choose not to add this, as we aren't aware of any use cases. |
| NISTv6 Capabilities Table | Varied | DHCPv6 Ethernet Remote ID Option is absent from the new scope of requirements | DHCPv6 Ethernet Remote ID Option to be included in the appropriate document | RFC 4649 | Choose not to add this, as we aren't aware of any use cases. |
| NISTv6 Capabilities Table | Varied | DHCPv6 Guard is absent from the new scope of requirements | DHCPv6 Guard to be included in the appropriate document | RFC 7610 | Place under OTHER (L2-Switch) |
| NISTv6 Capabilities Table | Varied | Delegation with AAA/Radius download is absent from the new scope of requirements | DHCPv6 Prefix Delegation with AAA/Radius download to be included in the appropriate | RFC 4818 | Aren't aware of use cases or implementaitons to include this. |
| NISTv6 Capabilities Table | Varied | Embedded Rendezvous Point is absent from the new scope of requirements | Embedded Rendezvous Point to be included in the appropriate document | RFC 3956 | Added per the above comments |
| NISTv6 Capabilities Table | Varied | ICPv6 Client Information Refresh Option is absent from the new scope of requirements | IPv6 access services: DHCPv6 Client Information Refresh Option to be included in the app | RFC 4242 | Aren't aware of use cases or implementaitons to include this. |
| NISTv6 Capabilities Table | Varied | IPv6 Bidirectional PIM is absent from the new scope of requirements | IPv6 Bidirectional PIM to be included in the appropriate document | RFC 5015 | Add PIM-SM-BiDir as this might be useful for multicast deployments. |
| NISTv6 Capabilities Table | Varied | IPv6 BSR: Configure RP Mapping is absent from the new scope of requirements | IPv6 BSR: Configure RP Mapping to be included in the appropriate document | RFC 5059 | Added PIM-SM-RP as an extension. |
| NISTv6 Capabilities Table | Varied | IPv6 PIM Passive is absent from the new scope of requirements | IPv6 PIM Passive to be included in the appropriate document | RFC 4602 | RFC cited in the comment seems to incorrect. |
| NISTv6 Capabilities Table | Varied | IPv6 RA Guard is absent from the new scope of requirements | IPv6 RA Guard to be included in the appropriate document | RFC 6105 | Place under OTHER (L2-Switch) |
| NISTv6 Capabilities Table | Varied | ing: IS-IS multitopology support for IPv6 is absent from the new scope of requirements | IPv6 routing: IS-IS multitopology support for IPv6 to be included in the appropriate docur | RFC 5121 | See Above |
| NISTv6 Capabilities Table | Varied | IPv6 routing: RIP for IPv6 (RIPng) is absent from the new scope of requirements | IPv6 routing: RIP for IPv6 (RIPng) to be included in the appropriate document | RFC 2080 | No wide deployments of this technology in modern networks. |
| NISTv6 Capabilities Table | Varied | Tunneling: 6RD IPv6 Rapid Deployment is absent from the new scope of requirements | IPv6 Tunneling: 6RD IPv6 Rapid Deployment to be included in the appropriate document | RFC 5569 | We only included transition mechanisms for IPv4 over IPv6 |
| NISTv6 Capabilities Table | Varied | IPv6 Tunneling: Automatic 6to4 Tunnels is absent from the new scope of requirements | IPv6 Tunneling: Automatic 6to4 Tunnels to be included in the appropriate document | RFC 3506 | We only included transition mechanisms for IPv4 over IPv6 |
| NISTv6 Capabilities Table | Varied | IPv6: IPv6 VPN over MPLS (6VPE) is absent from the new scope of requirements | IPv6: IPv6 VPN over MPLS (6VPE) to be included in the appropriate document | RFC 4659 | Allows for IPV6 VPN setup using BGP |
| NISTv6 Capabilities Table | Varied | MPLS VPN OSPFv3 PE-CE is absent from the new scope of requirements | MPLS VPN OSPFv3 PE-CE to be included in the appropriate document | RFC6565 | Added BGP-6VPE for this RFC |
| NISTv6 Capabilities Table | Varied | NTPv4 is absent from the new scope of requirements | NTPv4 to be included in the appropriate document | RFC 5905 | Added NTP as a requirement |
| NISTv6 Capabilities Table | Varied | OSPFv3 graceful restart is absent from the new scope of requirements | OSPFv3 graceful restart to be included in the appropriate document | RFC 5187 | See Above |
| NISTv6 Capabilities Table | Varied | PIMv6: Anycast RP Solution is absent from the new scope of requirements | PIMv6: Anycast RP Solution to be included in the appropriate document | RFC 4610 | See Above |
| NISTv6 Capabilities Table | Varied | RPL & LLN for IPv6 is absent from the new scope of requirements | RPL & LLN for IPv6 to be included in the appropriate document | RFC 6550 | Unaware of any deployments or requirements at this time. |
| NISTv6 Capabilities Table | Varied | VRRP over IPv6 is absent from the new scope of requirements | VRRP over IPv6 to be included in the appropriate document | RFC 5798 | Added VRRP |
| NISTv6 Capabilities Table | Varied | **Mobility Support in IPv6 is absent from the new scope of requirements** | Mobility Support in IPv6 to be included in the appropriate document | RFC 6275 | Unaware of any deployments or requirements at this time. |
| NIST IPv6 Profile | | Add TCP-AO for BGP. | Security/BGP | RFC 5925 | Could either add to BGP-OV for BGP security. |