



Vendor specific options for Neighbor Discovery

draft-gundavelli-6man-ipv6-nd-vendor-spec-options

The need for vendor specific options

- › Allows for other SDOs to perform deployment specific extensions
 - The extensions may not be widely applicable
 - Widely applicable extensions will still be standardized in the IETF
- › Allows for vendors to do minor enhancements for product differentiation between their own devices
- › Allows for vendors to perform small scale trials before bringing the work to the IETF

Possible issues

- › Interoperability issues
- › SEND compatibility
- › Dealing with unknown options

Interoperability issues

- › Vendor-specific protocol extensions can cause serious interoperability and adverse operational impact, if they are not designed and used carefully.
- › The vendor-specific option described in this document is meant to support simple use cases where it is sufficient to piggyback simple vendor data into existing ND messages
- › Any non-trivial changes should not use this mechanism and must be standardized in the IETF

SEND Compatibility

- › This option will be protected by SEND
- › When SEND is being used the option **MUST** precede the RSA Signature option

Unknown vendor-specific options

- › If the Vendor-Specific Information option is present in the received Neighbor Discovery message, but if the vendor Id is unknown, the option SHOULD be silently ignored and the rest of the message must be processed as normal.

Next steps

- › Adopt as WG item?