

ANSI/CTA Standard

Host and Router Profiles for IPv6

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(Formulated under the cognizance of the CTA **R7 Consumer Electronics Networking Committee**.)

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FOREWORD

This document was developed by the Consumer Electronics Association's R7 Consumer Electronics Networking Standards Committee. This work is based on work previously completed by the CEA IPv6 Membership Working Group in February 2012.

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HOST AND ROUTER PROFILES FOR IPV6

1. SCOPE

The scope of this document is to identify the required features and capabilities for stand-alone routers and hosts with support for IPv6 and related necessary protocols. These requirements are referenced to available technical standards such as RFCs.

This document was developed by the CEA to address home/SOHO router and related host requirements.

2. REFERENCES

2.1 Normative References

The following standards contain provisions that, through reference in this text, constitute normative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed here.

2.1.1 Normative Reference List

In order to claim compliance with this specification, it is necessary to conform to all or part of the following standards and other works as indicated, in addition to the other requirements of this specification. Notwithstanding, intellectual property rights may be required to use or implement such normative references.

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|-----------|---|
| [RFC791] | IETF RFC 791, Internet Protocol DARPA Internet Program Protocol Specification, September 1981 |
| [RFC2460] | IETF RFC 2460, Internet Protocol, Version 6 (IPv6) Specification, S. Deering, R. Hinden, December 1998 |
| [RFC2608] | IETF RFC 2608, Service Location Protocol, Version 2, E. Guttman, C. Perkins, et al, June 1999. |
| [RFC2710] | IETF RFC 2710, Multicast Listener Discover (MLD) for IPv6, S. Deering, W. Fenner, B. Haberman, October 1999 |
| [RFC3224] | IETF RFC 3224, Vendor Extensions for Service Location Protocol, Version 2, E. Guttman, January 2002. |
| [RFC3315] | IETF RFC 3315, Dynamic Host Configuration Protocol for IPv6 (DHCPv6), R. Droms, Ed., J. Bound, B. Volz, T. Lemon, C. Perkins, M. Carney, July 2003. |
| [RFC3596] | IETF RFC 3596, DNS Extensions to Support IP Version 6, S. Thomson, C. Huitema, et al, October 2003 |
| [RFC3633] | IETF RFC 3633, IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6, O. Troan, R. Droms, December 2003. |