ANSI/CEA Standard

Host and Router Profiles for IPv6

ANSI/CEA-2048

December 2014







NOTICE

Consumer Electronics Association (CEA®) Standards, Bulletins and other technical publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers, facilitating interchangeability and improvement of products, and assisting the purchaser in selecting and obtaining with minimum delay the proper product for his particular need. Existence of such Standards, Bulletins and other technical publications shall not in any respect preclude any member or nonmember of CEA from manufacturing or selling products not conforming to such Standards, Bulletins or other technical publications, nor shall the existence of such Standards, Bulletins and other technical publications preclude their voluntary use by those other than CEA members, whether the standard is to be used either domestically or internationally.

Standards, Bulletins and other technical publications are adopted by CEA in accordance with the American National Standards Institute (ANSI) patent policy. By such action, CEA does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the Standard, Bulletin or other technical publication.

This document does not purport to address all safety problems associated with its use or all applicable regulatory requirements. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

This document is copyrighted by the Consumer Electronics Association (CEA®) and may not be reproduced, in whole or part, without written permission. Federal copyright law prohibits unauthorized reproduction of this document by any means. Organizations may obtain permission to reproduce a limited number of copies by entering into a license agreement. Requests to reproduce text, data, charts, figures or other material should be made to CEA.

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

Published by
©CONSUMER ELECTRONICS ASSOCIATION 2014
Technology & Standards Department
www.CE.org

All rights reserved

This is a preview of "CEA 2048-2014 (ANSI)". Click here to purchase the full version from the ANSI store.

ANSI/CEA-2048

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.

ANSI/CEA-2048

CONTENTS

F	OREWORD	
1.	. SCOPE	3
2.		
	2.1 NORMATIVE REFERENCES 2.2 INFORMATIVE REFERENCES 2.3 COMPLIANCE NOTATION 2.4 DEFINITIONS 2.5 ABBREVIATIONS 2.6 TERMINOLOGY	
3.	. PROTECTION OF CUSTOMER PRIVACY	7
4.	. DEVICE CLASSES	7
5.	. BASIC	7
	5.1 ABOUT BASIC DEVICES	88 8
6.	. BASIC PLUS	g
	6.1 ABOUT BASIC PLUS	
7.	. ADVANCED	10
	7.1 ABOUT ADVANCED	
	I. F ADVANCED NOUTER REQUIREMENTS - VVAIN-SIDE	

ANSI/CEA-2048

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.

[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.