

CEA Standard

AV Adapter to Connect Ethernet and
1394 Devices

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(Formulated under the cognizance of the CEA **R7 Home Networks Committee**.)

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FOREWORD

This standard was developed under the auspices of the Consumer Electronics Association (CEA) R7 Home Network Committee.

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1 Introduction

The AV network is envisioned to consist of multiple devices using popular networking technologies. In consumer applications, popular technology choices are IEEE1394, Ethernet, and WiFi.

This document addresses the connection of 1394 devices that implement the “Cable/CE Plug ‘n Play¹” agreement (1394 C/CE devices) to Digital Living Network Alliance Devices (DLNA Devices) that adhere to the DLNA Home Networked Device Interoperability Guidelines v1.0 on Ethernet/WiFi networks. These DLNA Devices are based on the UPnP[™] Device Architecture v1.0 and implement the UPnP AV Device Control Protocols.

It is anticipated that 1394 C/CE devices will exist due to the Cable/CE Plug ‘n Play agreement and resulting FCC regulation. While all of the requirements of the Cable/CE Plug ‘n Play agreement and FCC regulation do not apply directly to the Adapter, many of their provisions do apply in order for the adapter to proxy those devices to the Ethernet home network.

1.1 Scope of This Document

The Adapter is intended to provide seamless connectivity between 1394 C/CE devices and DLNA devices. The Adapter will act as a Proxy between the two interfaces, exposing the devices on the opposite network as if they were on the same network.

A full-featured Adapter implementation is complex, and therefore, a subset of functionality is envisioned for the first version of the Adapter. Future versions of the Adapter specification will add more features.

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 in Section 2.1.1.

¹ The term “Plug ‘n Play” has been used by various other initiatives and carries different meanings for each. Its use in this standard is specific to an agreement between the Cable and CE industries which resulted in the FCC Regulation cited in the informative references of this standard.