



ANSI E1.37-2 – 2014
Entertainment Technology -
Additional Message Sets for ANSI E1.20 (RDM) –
Part 2, IPv4 & DNS Configuration Messages

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G = General interest
MP = Mass-market Producer
U = User

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1 Introduction

1.1 E1.20 Basic Features

The ANSI E1.20 Remote Device Management Protocol (RDM) [RDM] permits intelligent bi-directional communication between devices from multiple manufacturers using a modified DMX512 data link. RDM is an EF 1.0 implementation of ANSI E1.11 (DMX512-A).

RDM permits a console or other controlling device to discover and then configure, monitor, and manage intermediate and end-devices connected through a DMX512 network. RDM provides intelligent control of devices on a DMX512 network.

RDM commands may also be sent over transports other than DMX512-A., for example, IPv4. The specification for sending RDM commands over non-DMX512-A transports is outside the scope of this standard.

1.2 Overview & Scope

This document provides additional Get/Set parameter messages (PIDs) for use with the ANSI E1.20 Remote Device Management protocol. Messages in this document are intended for configuring network interfaces, routing information and Domain Name System [DNS] settings on devices with IPv4 [IPv4] addresses.

The messages in this standard enable a controller to retrieve a list of network interfaces on a device, and for each interface, do the following:

- If appropriate, determine the EUI-48 hardware address [EUI]. Such addresses are commonly referred to as MAC addresses. Hardware addresses in a format other than EUI-48 are not covered by this standard.
- Retrieve and configure the IPv4 address & subnet mask. Addressing schemes other than IPv4 are outside the scope of this standard.
- Enable / disable DHCP [DHCPv4].
- Renew and release the DHCP lease.
- Enable and disable Zeroconf [IPv4LL].

Commands are also provided to:

- Set the hostname of the device.
- Set the DNS domain of the device.
- Set the DNS name servers of the device.
- Set the default IPv4 route of the device.