

# **ANSI E1.17 – 2015 (R2020)**

## **Entertainment Technology—Architecture for Control Networks**



ANSI E1.17 – 2015 (R2020) was approved as an American National Standard by the ANSI Board of Standards Review on 23 March 2020. It is a reaffirmation of ANSI E1.17 - 2015

This standard was originally published when the Entertainment Services and Technology Association was operating under the name of PLASA North America. ESTA has reverted to its original name, and this document is branded with the current corporate name and logo. There may be some old references to PLASA North America. ESTA should be read anywhere PLASA North America is referenced in these documents.

The ANSI E1.17 standard consists of the suite of documents listed below.

- ACN Architecture
- Session Data Transport Protocol
- Device Management Protocol
- Device Description Language
- EPI 10. Autogeneration of Multicast Address on IPv4 networks
- EPI 11. Retrieval of Device Descriptions from DMP Devices on IPv4 networks
- EPI 12. ACN on Homogeneous Ethernet Networks
- EPI 13. Allocation of Internet Protocol Version 4 Addresses to ACN Hosts
- EPI 15. ACN Allocation of Multicast Addresses on IPv4 Networks
- EPI 16. ESTA Registered Names and Identifiers - Format and Procedure for Registration
- EPI 17. ACN Root Layer Protocol Operation on UDP
- EPI 18. Operation of SDT on UDP networks
- EPI 19. ACN Discovery on IP networks
- EPI 20. Maximum Transmission Unit (MTU) Size for ACN on IPv4 Networks
- EPI 22. DDL Core Modules for DMP Devices

ACNbase-behaviors files,  
as ddl files:

- 71576eac-e94a-11dc-b664-0017316c497d.ddl
- edce0400-e940-11dc-b7aa-0017316c497d.ddl

and as html:

- acnbase.bset.html
- ddlstyle.css
- 71576eac-e94a-11dc-b664-0017316c497d.html
- edce0400-e940-11dc-b7aa-0017316c497d.html

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The ESTA Technical Standards Program was created to serve the ESTA membership and the entertainment industry in technical standards related matters. The goal of the Program is to take a leading role regarding technology within the entertainment industry by creating recommended practices and standards, monitoring standards issues around the world on behalf of our members, and improving communications and safety within the industry. ESTA works closely with the technical standards efforts of other organizations within our industry, as well as representing the interests of ESTA members to ANSI, UL, and the NFPA. The Technical Standards Program is accredited by the American National Standards Institute.

The Technical Standards Council (TSC) was established to oversee and to coordinate the Technical Standards Program. Made up of individuals experienced in standards-making work from throughout our industry, the Council approves all projects undertaken and assigns them to the appropriate working group. The Technical Standards Council employs a Technical Standards Manager to coordinate the work of the Council and its working groups as well as maintain a "Standards Watch" on behalf of members. Working groups include Control Protocols, Electrical Power, Event Safety, Floors, Fog and Smoke, Followspot Position, Photometrics, Rigging, and Stage Machinery.

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