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Home Automation Interoperability



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Using XML to Standardize Device Descriptions

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Consumer Electronics Association

- 2,000 consumer technology member companies
- Provides valuable and innovative members-only resources:
 - Market Research, educational programs and training
 - Networking opportunities with business advocates and leaders
 - Extensive promotional programs, and representation
- Develops essential industry standards to enable interoperability between new products and existing devices.



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CEA R7

Home Networking Committee

R7 provides coordination for, and encourages cooperation among, all CEA home network standardization efforts as well as providing a forum for non-CEA home network standards formulating bodies interested in working with CEA. The primary goal is to ensure current and future home networks can coexist within a home and share information through the use of industry standard interfaces.



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CEA Smart Grid Standards and Bulletins

CEA CEB-29 Installation Guide for Smart Grid Applications

- CEB-29 was developed to provide an understanding of the many issues related to the installation and protection of Smart Grid devices and the systems they connect to. It includes references to applicable standards, electrical codes, regulations, and best practices.

CEA 2047 - CE-EUI

- The Consumer Electronics Energy Usage Interface is an information model that specifies the minimum requirements for consumer electronic and other networked devices to communicate Energy Usage Information (EUI) over a LAN.

New R7 Work Item: Using XML to Standardize Device Descriptions

XML Schema Provides

- An abstract representation of an object (e.g. a home control device), its characteristics and its relationships to other objects
- Support for standards-based and proprietary networks and protocols
- A set of rules for passing data needed to monitor and control the device
- A standardized machine-processable format to describe the device's features, messaging, and more
- A way to minimize the need for direct manufacturer support
- A way to augment and extend existing XML Profile descriptions to include new and non-standard functions

New CEA R7 XML WG

- **IT WILL**
 - Enable manufacturers to post device functions, messaging, data formats, etc., for developers
 - For **new and legacy** devices
 - Support standards-based Profiles and manufacturer-specific messaging, features and functions
- **IT WILL NOT**
 - Require any new code for the device itself
 - Change how devices are installed, configured, or bound to the network
 - Replace the manufacturer's own apps or control methods
 - Manufacturers can still provide their own value-add

Upcoming CEA Discovery Groups for Connected Devices

Discovery Groups bring manufacturers together to review

- New Concepts and opportunities
- Existing work and specs
- Propose next steps

Wednesday, May 21, 2014, Seattle WA

- Internet of Things/Home Automation: 9-10:30 AM
- Security for Connected Devices: 3:30-5:00 PM



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CEA Technology & Standards Forum

**May 19-22, 2014
Renaissance Seattle Hotel**

[http://ce.org/Events-and-Awards/Events/2014-
Events/Technology-Standards-Spring-Forum](http://ce.org/Events-and-Awards/Events/2014-Events/Technology-Standards-Spring-Forum)

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