

INTERNATIONAL STANDARD



**Digital living network ALLIANCE (DLNA) home networked device interoperability
guidelines –
Part 10: Low-power mode**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DIGITAL LIVING NETWORK ALLIANCE (DLNA) HOME
NETWORKED DEVICE INTEROPERABILITY GUIDELINES –**
Part 10: Low-power mode
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CDV	Report on voting
100/2750/CDV	100/2892/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 62481 series, published under the general title *Digital Living Network Alliance (DLNA) home networked device interoperability guidelines*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
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INTRODUCTION

Consumers are acquiring, viewing, and managing an increasing amount of digital media (photos, music, and video) on devices in the consumer electronics (CE), mobile, and personal computer (PC) domains. As such, they want to conveniently enjoy the content, regardless of the source, across different devices and locations in the home. The digital home vision integrates the Internet, mobile, and broadcast networks through a seamless, interoperable network, which will provide a unique opportunity for manufacturers and consumers alike. In order to deliver on this vision, a common set of industry design guidelines is needed that allows vendors to participate in a growing marketplace, leading to more innovation, simplicity, and value for consumers. This document serves that purpose and provides vendors with the information needed to build interoperable networked platforms and devices for the digital home.

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DIGITAL LIVING NETWORK ALLIANCE (DLNA) HOME NETWORKED DEVICE INTEROPERABILITY GUIDELINES –

Part 10: Low-power mode

1 Scope

This part of IEC 62481 specifies guidelines for low-power mode management.

Power saving is modular within a physical device. In the context of DLNA networked devices, each physical network interface can have various power modes, some of which can allow Layer 2 or Layer 3 connectivity to still be present, even when many of the other components of the device are powered down. Other physical components, such as screens, hard drives, and similar resources, can also support different power modes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 62481-1-1:2017, *Digital living network alliance (DLNA) home networked device interoperability guidelines – Part 1-1: Architecture and protocols*

ISO/IEC 29341-31-1, *Information technology – UPnP Device Architecture – Part 31-1: Energy management device control protocol – Energy management service*

3 Terms, definitions and conventions

For the purposes of this document, the terms, definitions and abbreviated terms given in IEC 62481-1-1:2017 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 Terms and definitions

3.1.1

Network Interface Mode

operation mode of a network interface, the set of modes includes: "up" for IP traffic, "down" but wakeable either internally or externally, or unwakeable

Note 1 to entry: See ISO/IEC 29341-31-1

3.1.2

Network Interface Information

information related to a physical device and its network interface(s)