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IEEE Standard Protocol for Stream Management in Media Client Devices

IEEE Computer Society

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Storage Systems Committee

IEEE
3 Park Avenue
New York, NY 10016-5997
USA

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IEEE Standard Protocol for Stream Management in Media Client Devices

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Abstract: Interfaces for intelligently distributing and replicating content over heterogeneous networks to portable and intermediate devices with local storage are defined.

Keywords: content caching, content queue, delayed delivery, device discovery download, IEEE 2200, intermediate devices, mobile content delivery network policy, seamless play

The Institute of Electrical and Electronics Engineers, Inc.
3 Park Avenue, New York, NY 10016-5997, USA

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Introduction

This introduction is not part of IEEE Std 2200-2012, IEEE Standard Protocol for Stream Management in Media Client Devices.

This document describes a protocol and reference architecture that enables the deferred delivery of content to media client devices. The goal of this protocol is to improve user experience in the delivery of mobile content and reduce streaming congestion within wireless networks where deferred delivery of content is feasible. Content cached on devices is governed by content and network policies, which allow a content owner, network operator, and user to optimize the retention and consumption of the content.

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IEEE Standard Protocol for Stream Management in Media Client Devices

1. Overview

1.1 Scope

This standard will define reference architectures and interfaces for intelligently routing and replicating content over heterogeneous networks to portable devices with local storage, without disrupting content providers' direct relationship with end users.

1.2 Purpose

The purpose is to enable the delivery of richer media content to portable devices, in a way that is not limited by cost and bandwidth.

2. Normative references

The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.