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Information technology -- Group management protocol

信息技术 组管理协议

(English Translation)

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Foreword

This standard is based on GB/T 20000.2-2001 identical with ISO/IEC 16513:2005 "Information technology - Group Management Protocol." this standard by the National Information Technology Standardization Technical Committee and centralized.

This standard was drafted. China Electronics Standardization Institute, Beijing Sound Xun Electronics Co., Ltd.

Introduction

Traditional multicast transport protocol does not include the Group Management (in accordance with the recipient's join and leave) and dynamic mechanism to modify membership information.

GMP multicast session management (SM) mechanism and Membership Management (MM) provides a framework that supports multicast session and Members of the management requirements. This protocol can be used as solutions reliability of multicast communication.

GMP will operate on the traditional transport protocol and/or ECTP, as shown in FIG.

Figure 1 GMP Model (GMP protocol stack)

IT Group Management Protocol

1 Scope

This standard specifies the Specification Group Management Protocol (GMP), the agreement is to create a group session, and should be involved in the management of the group members Application layer control protocol.

GMP by the session management (SM), Membership Management (MM) and information exchange function between the composition of the SM and MM. SM Responsible for session creation and deletion. MM-based membership management retrieved from the SM to the session information list.

In accordance with ITU-T Recommendation .X.601 "Multi-peer communications framework" multi-peer communications services in seven different stages. registration, Registration, activation, data transmission, deactivation, cancellation of registration and deregistration. Since one of these operations --- --- allows data transfer ECTP or TCP to perform, and therefore the remaining SM can perform. Create, notification, registration,, activation, including session pass Advertisement. In addition, members of the MM management activities registered or groups within groups.

SM can provide convenient user interface, because it can be implemented on the Web. MM operation of the transport protocol user it is transparent.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

ITU-T Recommendation .X.601 (2000) Multi-peer communications framework ITU-T Recommendation .X.605 (1998) | ISO/IEC 13252:1999 Information technology - Enhanced communications transport service definition ITU-T Recommendation .X.606 (2001) | ISO/IEC 14476-1:2002 Information technology - Enhanced communications transport protocol simplex multicast Transport Specification ITU-T Recommendation .X.606.1 (2003) | ISO/IEC 14476-2:2003 Information technology - Enhanced communications transport protocol simplex group QoS multicast transport management practices

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 ITU-T proposed .X.601 terms and definitions

The ITU-TRec.X.601 following terms and definitions apply to this standard.

- a) Multi-peer;
- b) Multi-peer communications;
- c) multicast transmission.

3.2 ITU-T Recommendation .X.605 | ISO/IEC 13252 in terms and definitions

ITU-TRec.X.605 | ISO/IEC 13252 in the following terms and definitions apply to this standard.

- a) the registered group;
- b) the registered group;
- c) the active group, and
- d) TC owner.