Applying Multimedia Streaming Services to Improve Campus Announcement Systems

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Abstract

Traditional campus announcement systems usually based on text. This study proposes a Java JMF-based media announcement platform. Based on JMF open source streaming technology, we design and implement an information system with functions such as “real-time multimedia streaming”, “real-time announcement” and “history announcement through the concept of SNG. Audio and video streaming will be interpreted as RTP packets and will be transported through the RTP layer. Students can watch real-time news everywhere through the Java Applet provided in this web system to achieve Java’s “Write once, run everywhere.” concept, improving the inadequate of traditional campus announcement systems.

Keyword: Java, JMF (Java Media Framework), multimedia streaming, RTP