

With a growing amount of information available on the Internet and by other technologies, there is a growing need to distribute data to individual users as fast as possible - and only to those who are interested. Publish-subscribe systems allow users to specify their interests using profiles created with an appropriate query language, thus order receiving required information from all available sources contributing to the system.

The XML language nowadays belongs to the most important standards used for data exchange. This thesis deals with publish-subscribe systems working with data in XML data format. Methods of effective filtration of XML data and general techniques used in publish-subscribe systems for delivery of pertinent data to users are discussed there. Also, a prototype of a simple publish-subscribe system working with XML - XSL/Part - is implemented. A couple of techniques connected to information delivery is implemented and tested using this system on real data.