

The Tarari Publish/Subscribe Content Processor (PubSub-CP) is the first XML messaging acceleration solution to combine the speed of dedicated silicon and the power of XPath to deliver high performance content-based publish/subscribe capabilities. PubSub-CP delivers on the promise of XML messaging in publish/subscribe by allowing unprecedented precision in subscription profiling with the high rates of throughput demanded by enterprise applications.

Publish/subscribe systems need to perform comprehensive XML analysis to fully service today's event-oriented applications. Many solutions are relegated to simplistic topic or keyword techniques in order to meet performance expectations. These systems do not scale smoothly to large numbers of subscribers, cannot handle high message volume without trading off accuracy, and do not leverage the rich contextual information offered by XML. Tarari's content processing technology can solve all of these problems.

Tarari's PubSub-CP relieves bottlenecks and significantly increases throughput in publish/subscribe systems. With PubSub-CP, publishers can send messages in higher volumes, subscribers can create profiles with greater levels of detail, and message systems can operate at higher message evaluation rates.

New Approach to Message Evaluation

PubSub-CP is a high-performance, high-capacity, hardware-accelerated solution for XML-based publish/subscribe systems. At the heart of Tarari's PubSub-CP solution is the Tarari

Random Access XML Content Processor - a purpose-built silicon acceleration technology that performs XPath evaluation at the speed of the network. Exploiting this gigabit-rate capability allows the creation of highly precise subscription profiles which can be fulfilled at unprecedented message rates.

PubSub-CP has two primary deployment models:

- 1) Publisher/gateway mode allows applications to map arbitrary messages to a broad set of subscriber profiles.
- 2) Subscriber mode allows the application to efficiently identify locally relevant messages from a broader content stream of XML-formatted messages.

Features

Powerful Subscription Profiling

The power of Tarari's XPath evaluation in silicon makes high-performance, content-based publish/subscribe infrastructure a reality in all environments. Subscriptions can be defined using value ranges, sets of exact values, and wildcards.

Subscription Management Engine

The subscription management engine provides a comprehensive interface for defining, updating and reporting subscription profiles.

Random Access XML Module

PubSub-CP supports, through a modular library, integration with existing applications based on Tarari's Random Access XML Content Processor (RAX-CP). This extended functionality provides direct application access to the XML evaluation and transformation of the RAX-CP API. The extended capability enables the Pub/Sub infrastructure to act as an intermediate XML processing agent, which might, for example, perform data extraction for monitoring or archival purposes.

Applications

- ▶ Event-Driven Enterprise
- ▶ Enterprise Application Integration
- ▶ Commodities Exchange
- ▶ Real Time Enterprise Reporting
- ▶ Collaboration Tools
- ▶ Stock Trading Environments
- ▶ Interactive/Online Gaming
- ▶ SCM, ERP, CRM
- ▶ Business Intelligence

