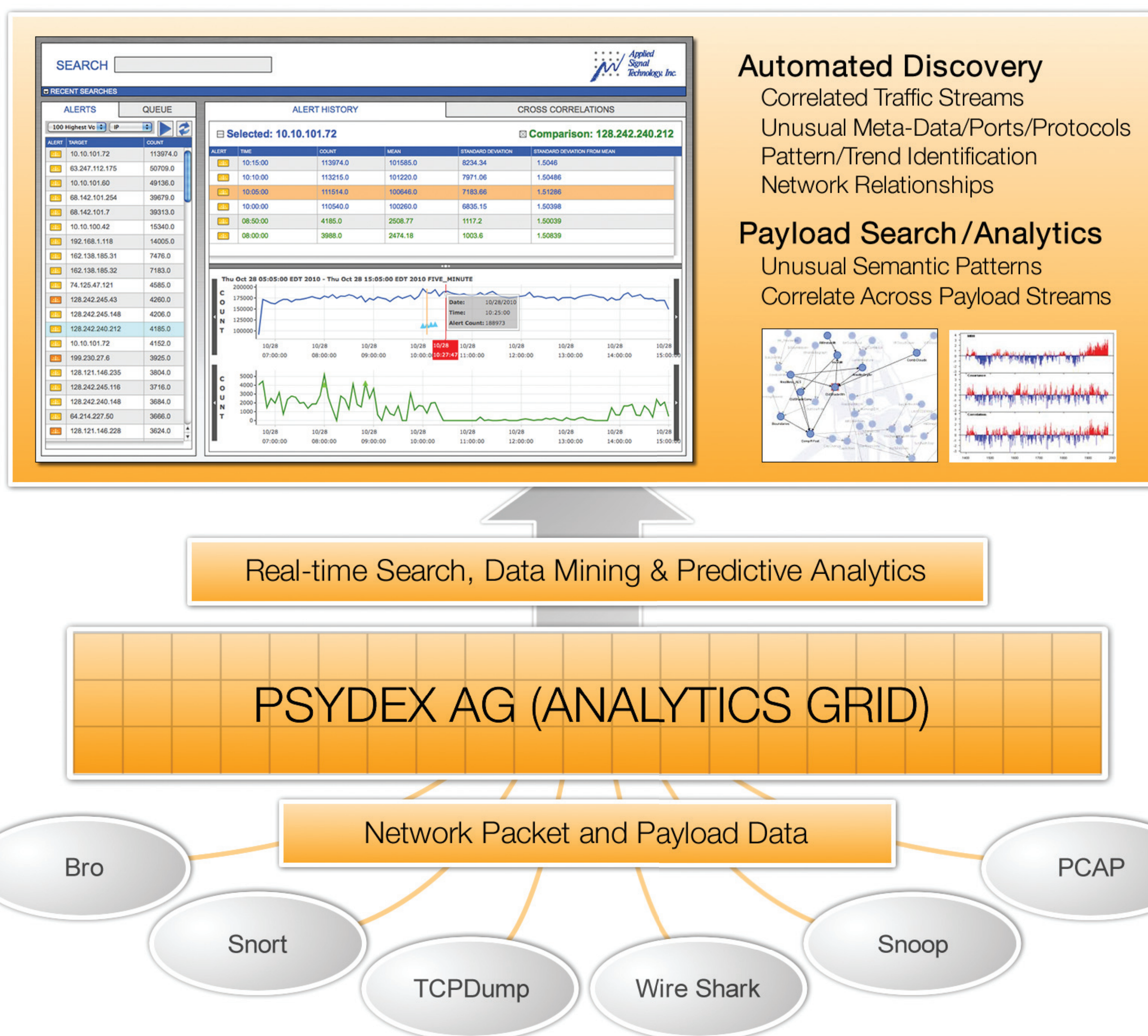


PSYDEX ANALYTICS GRID DELIVERS REAL-TIME INSIGHT TO NETWORK THREATS

Psydex Analytics Grid (AG) leverages commodity hardware and Massive Parallel Processing (MPP) to analyze massive streams of packet data in real-time to identify patterns, trends and correlations.



BUILT FOR HIGH-VOLUME, HIGH-VARIETY, HIGH-VELOCITY NETWORK DATA

FLEXIBLE, ADAPTABLE DESIGN

Psydex ingests and indexes directly from native sources, message queues and proprietary feeds. Custom adapters can be created in as little as a few hours. AG provides simple-to-use applications that are geared toward the end user—ease of use with minimal installation and training.

PERFORMANCE & SCALABILITY

AG is based on Massive Parallel Processing (MPP), shared-nothing architecture. This means you get a highly scalable system using inexpensive, commodity hardware. Many machines doing lots of work in parallel = exceptional performance across very large sets of archived and real-time data.

SERVICE-ORIENTED ARCHITECTURE

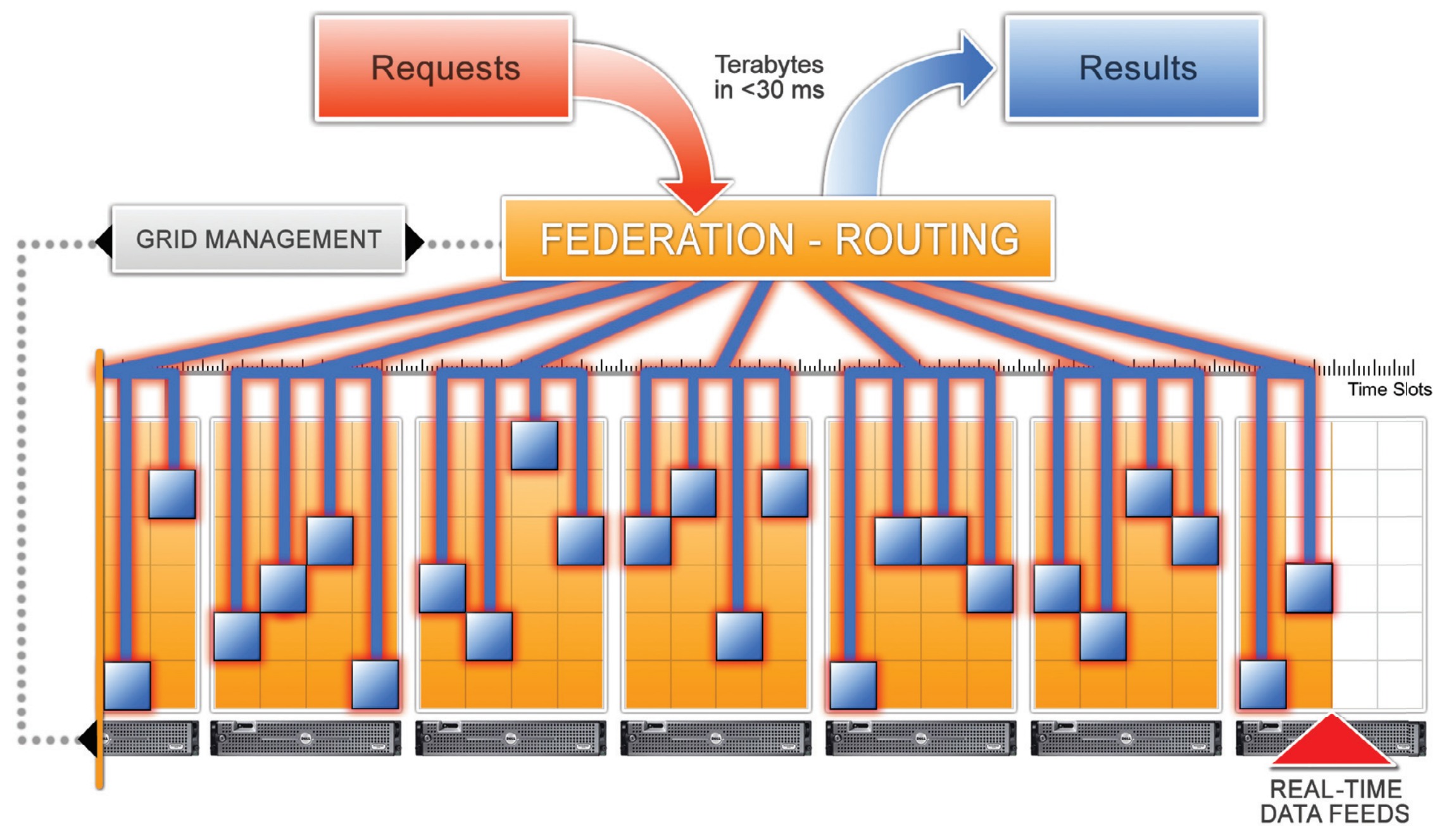
Psydex AG has been designed and developed around open source technologies such as Java, Linux, Apache Tomcat, JMS and MySQL. All AG services are dynamically managed in the grid with failover and redundancy. AG services are accessible through a robust REST API, TCP sockets and numerous client interfaces.

THE PSYDEX AG (ANALYTICS GRID). BIG DATA DRIVES BIG THINKING

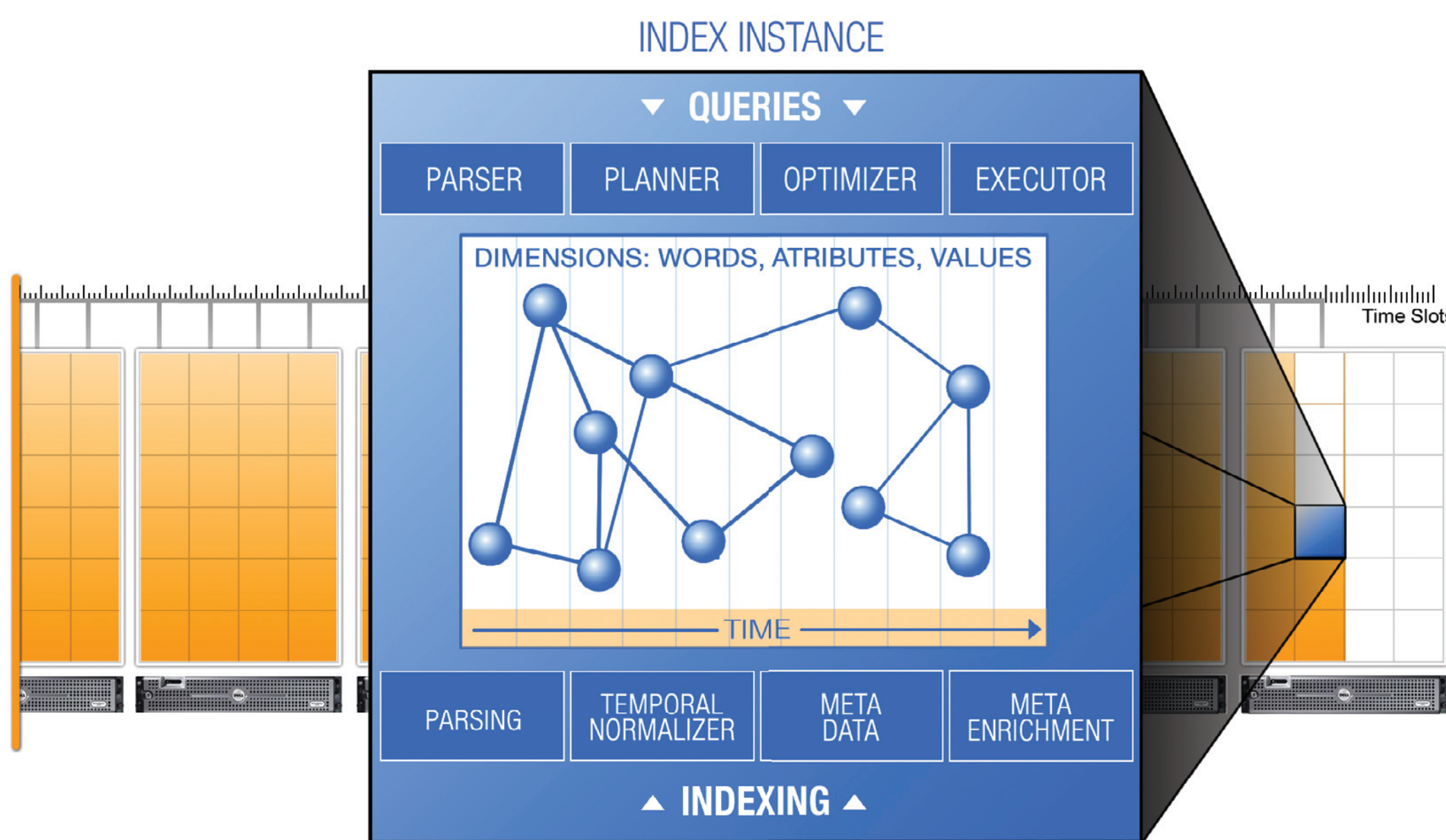
MPP = Massive Parallel Processing

Psydex is designed around a shared-nothing, MPP architecture and easily scales by using commodity hardware. Federators communicate with grid managers and index instances to intelligently route requests and aggregate, collate and fuse results.

Communications between processes is based on a proprietary, compressed serialization protocol for optimized performance.



AIM = All-In-Memory Indexes



Indexes in Psydex AG are source-specific representations of every possible way data might be queried. Indexes are constructed as AIM (All-In-Memory) dimensional graphs of words, attributes and values organized around TIME. Each source index is partitioned across Psydex AG as separate instances, each representing a time slice for a source. A typical source index might have hundreds of instances functioning seamlessly across many nodes.

Terabytes of indexed data can be brought online in minutes with ad hoc queries executed against the data in under 30 ms.

PEP = Psydex Event Processing

PEP leverages the Analytics Grid to quantify and qualify real-world events with high precision and speed. The detection of unusual patterns and signals in real time is typically the first stage in a highly extensible process that employs domain-specific rules and a powerful model for extracting facts and figures for reasoning.

Natural language processing, regular expression chaining and smart text extraction technology yield high precision.

