



ENTERPRISE  
METASEARCH

## Architecture Overview

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Version 1.2

# Architecture Highlights

## Extensible and Maintainable

- › generic plugin architecture
- › data sources are protocol and format neutral
- › modular and hierarchical XML configuration
- › dynamic queries are composed of templates
- › management and monitoring over Java Management Extensions (JMX)
- › collects and presents statistical data during runtime

## Scalable and Performance Optimized

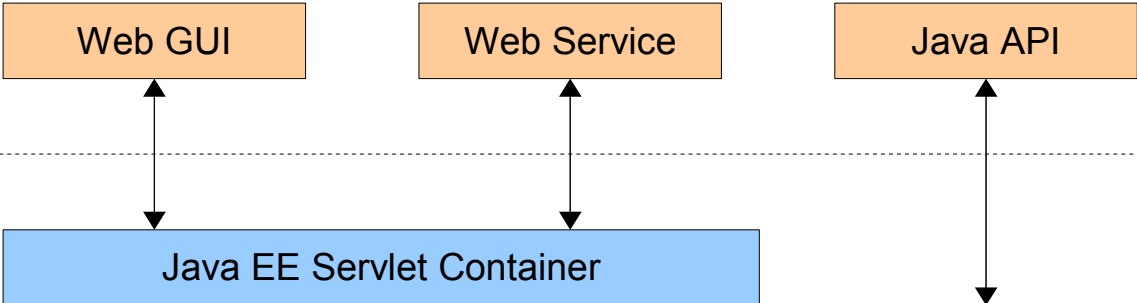
- › allows application partitioning and clustering
- › scales well on SMP hardware (multiprocessor and multi-core) due to multithreading
- › data source specific LRU write-behind cache
- › pooled workers and data source connections
- › supports HTTP 1.1 with persistent connections and gzip decoding

## Robust and Versatile

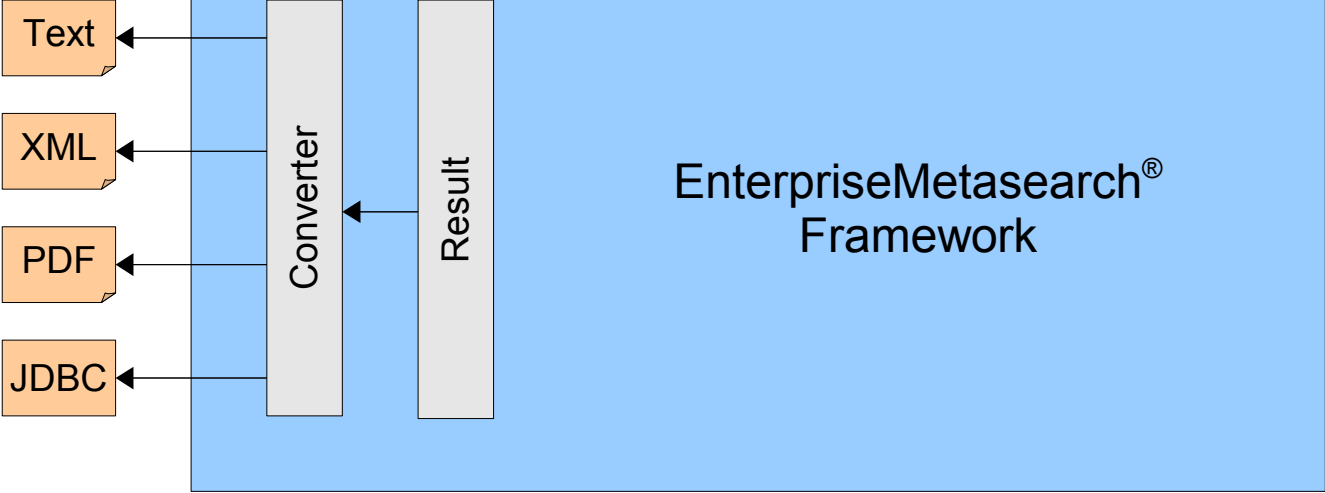
- › multi-stage timeout handling
- › data source specific watchdogs
- › configurable fault-tolerant agent balancers
- › technically mature and telco proven
- › platform independent and Unicode-compliant (100% pure Java)

# Framework Interfaces

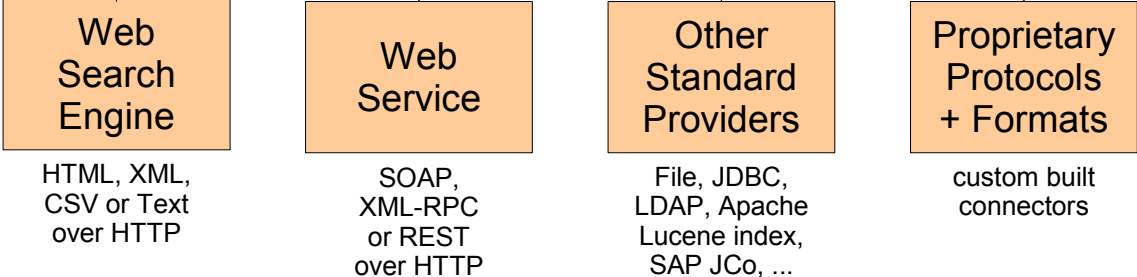
Framework Integration



Result Output Formats



Data Source Input Connectors



# Search Process

Prepare

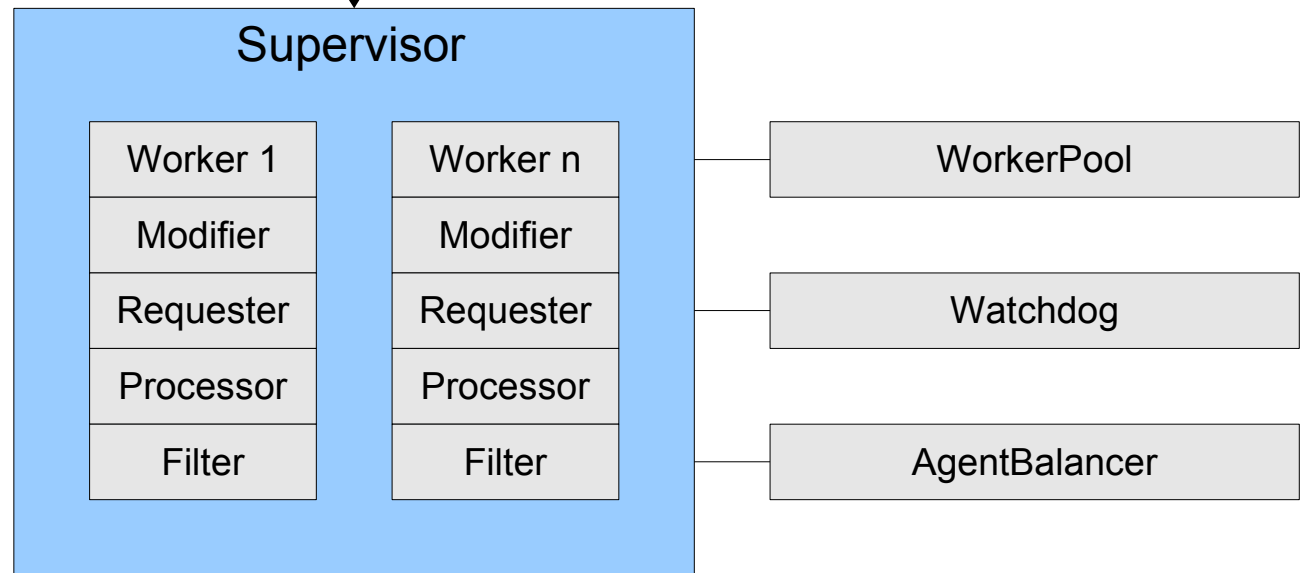


Execute

Each Worker handles the workflow of a single data source

A Modifier adapts the generic Task for each individual data source

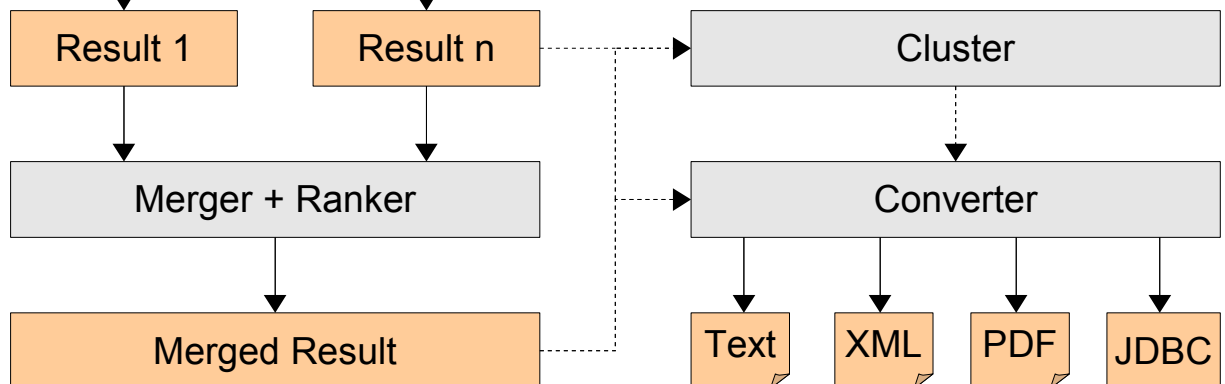
A chain of Filters can be applied before and after each Processor



Transform

The Cluster organizes Results into thematic categories (text clustering)

The Converter converts Results to specific formats



# Management and Monitoring

