EnterpriseMetasearch®

Federated Search by COMCEPTA

Architecture Overview

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Version 1.3

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

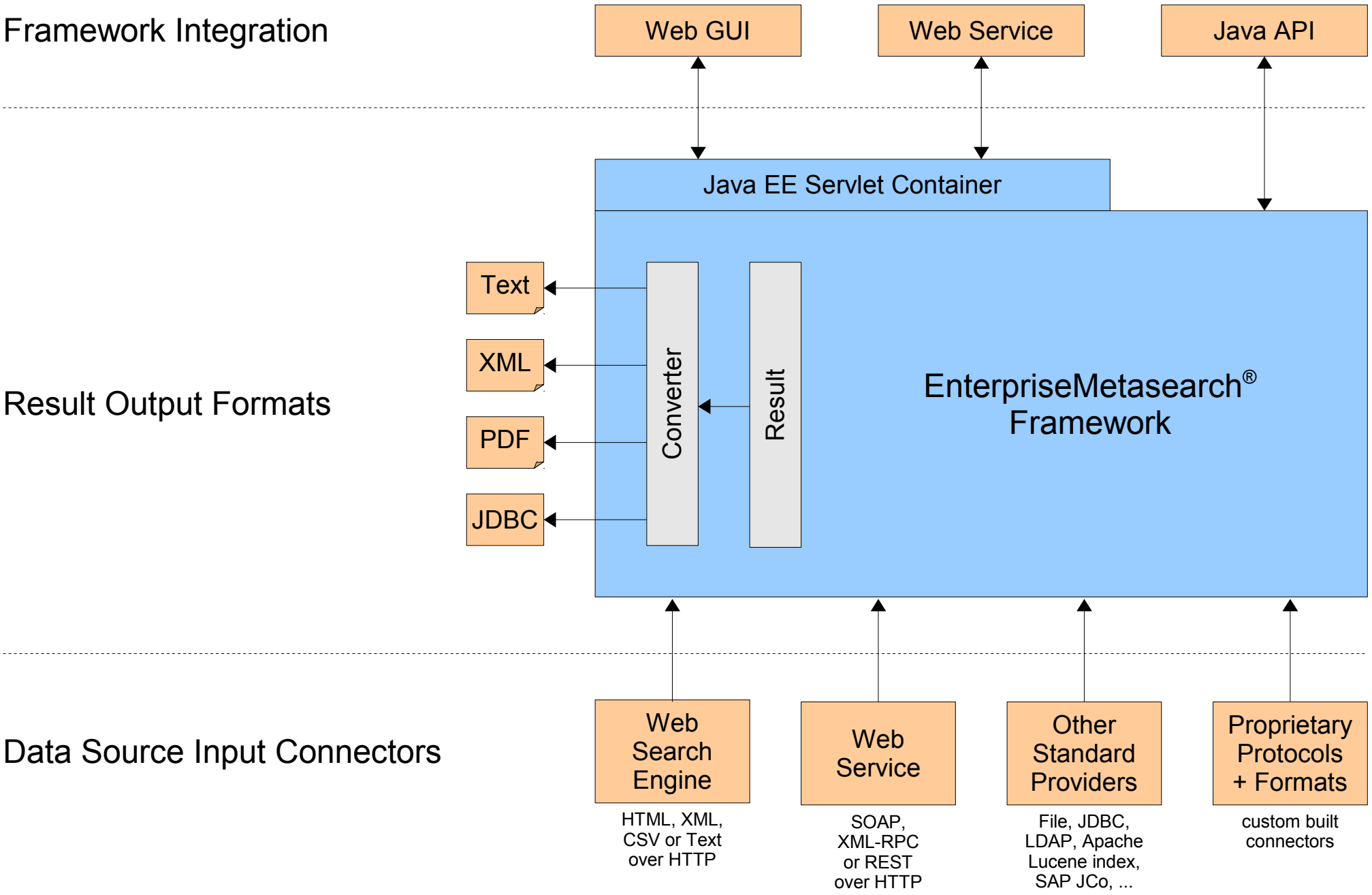
Scalable and Performance Optimized

- 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/deflate 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



Search Process

Prepare

Execute

Each Worker handles the workflow of a single data source

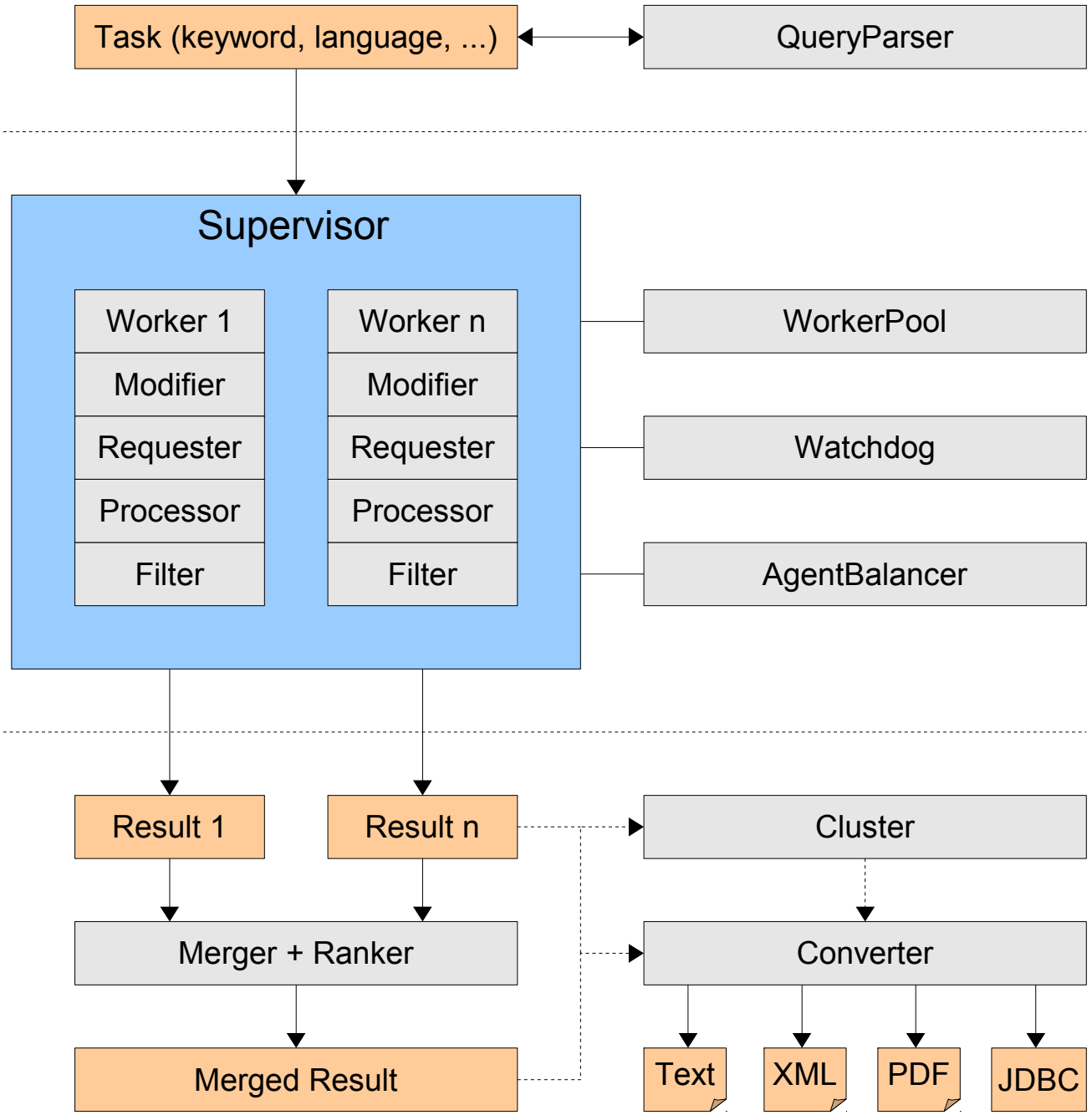
A Modifier adapts the generic Task for each individual data source

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