

## SMARTDATA FABRIC® EIQ INDEXED ADAPTERS™ VS. CONVENTIONAL ADAPTERS IN FEDERATED DATA SYSTEMS ONE PAGE SUMMARY

REVISION 3.7

### UNCONVENTIONAL EXTERNAL INDEX AND QUERY (EIQ) INDEXED ADAPTERS

WhamTech offers conventional adapters that directly compare to conventional adapters in federated data systems for data sources that can support external queries. However, to really leverage the power of SmartData Fabric®, WhamTech offers **EIQ Indexed Adapters**. Conventional adapters submit queries to data source systems and are subject to the constraints of the individual systems, including “dirty” and non-standard data, available indexes, query capabilities and systems availability. **EIQ Indexed Adapters** are different from conventional adapters in that they uniquely provide a data pre-processing, index and query processing layer that absorbs up to 100% of the load that conventional adapters impose on data source systems and provides significantly advanced functionality. Similar to conventional adapters, **EIQ Indexed Adapters** can work with data anywhere, in source systems, data lakes, data warehouses, clouds, etc., and can also store data in indexes as an option for performance and scale.

Feature	EIQ Indexed Adapters	Conventional Adapters
Data discovery and data profiling	✓	✓ or ✗
Minimal implementation time	✓	✗
Clean, complete, accurate and usable data in indexes and results	✓	✗
Consistent and multiple indexes and index types	✓	✗
Almost any data source	✓	✗
Pre-aggregated, pre-calculated and pre-joined views	✓	✗
Results when data sources unavailable	✓	✗
Almost no index or query load on data sources	✓	✗
Data sources mainly unaware of queries	✓	✗
Archive solutions	✓	✗
Actively monitor data sources and process events	✓	✗
Advanced text search	✓	✗
Unlimited query options and performance	✓	✗
Multiple logical views of data	✓	✓ or ✗
Advanced data access control	✓	✓
Master Data Management (MDM)	✓	✓
Data security and privacy	✓	✓
No need for index update process	✗	✓
No additional storage for indexes	✗	✓

### THE POWER OF EIQ INDEXED ADAPTERS IN A FEDERATED DATA SYSTEM

**EIQ Indexed Adapters** combine the best of technologies from conventional federated data access, data warehousing, and enterprise search, to provide a hybrid of the three and overcome the worst of these approaches. This results in high-capability adapters that plug-and-play in almost any architecture. The benefits of data warehousing are retained, namely (i) clean, transformed and standardized indexes and results, (ii) multiple types of indexes, including pre-aggregations, pre-calculations and pre-joins and (iii) multiple options for query processing. At the same time, the primary benefit of federated data systems is retained in that data remains stored in sources, and the primary benefit of enterprise search is retained in that almost anything can be found, regardless of where it resides. All EIQ Products, including **EIQ Indexed Adapters** can be accessed as though databases through standard drivers such as ODBC, JDBC and web/data services, and SQL and other query languages.

### FEDERATED DATA ACCESS WITH EIQ INDEXED ADAPTERS OFFER LOW COST, RAPID DELIVERY, PERFORMANCE, SCALABILITY AND ADVANCED CAPABILITIES

As there are no major schema transforms, complex query transforms or complex results processing to manage, **EIQ Indexed Adapters** take less time and less cost for (i) initial implementation, (ii) adding data sources and (iii) data source changes. **EIQ Indexed Adapters**-based solutions enable data warehouse quality analytics, integration, sharing and interoperability, with the flexibility to evolve as needs change. **EIQ Indexed Adapters** also allow early and rapid incremental deliverables, low TCO and very high ROI.

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