



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

REVISION 3.6

UNCONVENTIONAL EXTERNAL INDEX AND QUERY (EIQ) SUPERADAPTERS

WhamTech offers conventional adapters that directly compare to conventional adapters in federated data systems for data sources. However, to really leverage the power of SmartData Fabric®, WhamTech offers **EIQ SuperAdapters**. 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 SuperAdapters** are different from conventional adapters in that they uniquely provide an index and query processing layer that absorbs almost 100% of the load that conventional adapters impose on data source systems and provides significantly advanced functionality. Similar to conventional adapters, **EIQ SuperAdapters** can work with data anywhere, in source systems, Data Lakes, Clouds, etc., but can also store data in indexes as an option.

Feature	EIQ SuperAdapters	Conventional Adapters
Automated device, data source and data discovery, and data profiling	✓	✗
Minimal implementation time	✓	✗
Clean usable data in indexes and results	✓	✗
Consistent and multiple indexes and index types	✓	✗
Almost any data source	✓	✗
Pre-aggregated and pre-calculated fields	✓	✗
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	✓	✗
Full advanced text search	✓	✗
Unlimited query options and performance	✓	✗
Multiple logical views of data	✓	✗
Virtual graph database, link analysis and visualization	✓	✗
Row, column and data element security	✓	✗
Master Data Management	✓	✓
Data security and privacy	✓	✓
No need for index update process	✗	✓
No additional storage for indexes	✗	✓

THE POWER OF EIQ SUPERADAPTERS IN A FEDERATED DATA SYSTEM

EIQ SuperAdapters combine the best of technologies from data warehousing, federated data systems with conventional adapters 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; (iii) multiple options for query processing and (iv) security and privacy of data and access. At the same time, the primary benefit of federated data systems is retained: data remains stored in sources, and the primary benefit of enterprise search is retained: find almost anything, regardless of where it resides. All EIQ Products, including **EIQ SuperAdapters** can be accessed the same as databases through standard drivers such as ODBC, JDBC, OLE-DB and web/data services, and SQL and other query languages.

FEDERATED DATA ACCESS WITH EIQ SUPERADAPTERS OFFERS LOW COST, RAPID DELIVERY, SCALABILITY AND ADVANCED CAPABILITIES

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

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