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Magic Quadrant for Data Integration Tools

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Data Integration Tools

You always defer data integration, then wonder why it costs so much?

- By 2020, 50% of new data transformation flows will integrate one or more machine learning algorithms — resulting in erroneous interpretations of data.
- By 2020, 50% of organizations will reject solutions from new vendors that contractually inhibit their ability to extract their own data.

Ineffective data collections, poor use of machine learning and attempts to control data flow will combine to increase the demand for aggressive approaches to data integration.



State of the Data Integration Tools Market

- Market revenue was \$2.7 billion (constant currency) end of 2016, +5% from previous year. Expected \$4 billion in 2021.
- Purported resurgence of custom code is mostly a "myth" 8% of organizations reported any broad use in 2016.
- Low-cost, simple development; acceptance of basic functionality is on the rise for business/citizen integrators and self-service data preparation.
- Data virtualization adoptions grow and are being embedded in other platforms and offered as stand alone but old issues are re-emerging for those that fail to consider appropriate use cases.



Data Integration Tools Magic Quadrant



- One prevalent question in 2018 is, "Will this data be used in adjacent use cases?" and the answer is always "yes."
- Cloud providers are now encountering the same connectivity and management issues ...
- The practice of using smaller, more targeted solutions in data integration practices continues to grow.
- Deferring data integration to post application deployment is a growing "technical debt." That debt grows at a rate of (nsystems)x(nsystems+1)/2.



Two Significant Rising "Niche" Categories: Virtualization and Data Preparation

Challengers:

Adeptia

Attunity

Microsoft

Niche Players:

Actian

Hitachi Vantara (Pentaho)

Syncsort



Leaders:

IBM

Informatica

Oracle

SAP

SAS

Talend

Visionaries:

Cisco

Denodo

Information Builders



Market Dynamics Are Shifting

New Changes By 2020

- Dynamic recognition of data diversity coupled with machine learning of data types.
- Combined application and data integration platform capabilities.
- Shared services management for partner networks with enhanced registry and orchestration capabilities.
- Adaptive pricing, shifting from perpetual-, unit to modular/modality-oriented models.

Through 2020 and Beyond

- Data integration tasks to run anywhere —
 divide processing and distribute data
 transformation workloads in Hadoop, cloud and
 loT ecosystems.
- Demand to blend all integration styles will increase: Batch, virtual, message, replication, synchronization, streaming.
- Tools that serve multiple "personas" from citizen to infrastructure expert in demand.
- "Smart" metadata-driven development and introspection increasing in demand.
- Extensive enablement of hybrid integration platform capabilities.



Recommendations

- Architect a mix of variable latency, granularity, physical and virtualized data delivery.
- Align application and data integration in a complementary fashion.
- Provide for pervasive integration needs with capabilities of both enterprise-class standard tool and focused/limited functionality tools for targeted use cases.
- Review vendor/supplier customer support, documentation and communitybased developer networks as part of your decision.
- Demand services deployment capability, accessible metadata, built-in optimization recommendation engines.



Recommended Gartner Research

- Magic Quadrant for Data Integration Tools
 Mark A. Beyer, Eric Thoo, Mei Yang Selvage and Ehtisham Zaidi (G00314940)
- Critical Capabilities for Data Integration Tools
 Eric Thoo, Ehtisham Zaidi, Mark A. Beyer and Mei Yang Selvage (G00319933)
- ► <u>Modernize Your Data Integration Architecture for Digital Business by</u>
 <u>Combining Data Delivery Styles</u>
 Ehtisham Zaidi, Eric Thoo and Ted Friedman (G00327623)
- The State and Future of Data Integration: Optimizing Your Portfolio of Tools to Harness Market Shifts
 Eric Thoo, Mark A. Beyer, Rick Greenwald and Ted Friedman (G00297000)
- ► Research Library: Fundamentals for Data Integration Initiatives
 Ehtisham Zaidi, Mark A. Beyer and Others (G00310058)

