



Data & Analytics Enablement Guide for Resellers

2024

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Purpose & Guidance

Purpose

This is a self-service asset designed to inform TD SYNnex sellers about data analytics technologies and solutions available through TD SYNnex.

Guidance

- Click any section in the menu bar on the right to navigate to that section, or
- Use the Interactive Diagram to navigate directly to areas of interest.

Introduction

The crowded analytics and business intelligence (BI) market includes everything from long-standing and large technology players to venture capital-backed startups, and smaller, privately funded software vendors. Vendors of traditional BI platforms have evolved their capabilities to include modern, visual-based data discovery that also includes governance, and more recently, analytics augmented with AI and Gen AI. Newer vendors continue to evolve the capabilities that once focused primarily on agility, by extending them to enable greater governance and scalability, as well as publishing and sharing.

The correct analytics software system can mean the difference between success and failure. It’s easy to understand that your customers need an analytics solution to minimize costs and maximize profits. The hard part comes when they are filtering through all the potential options.

The Big Data and Analytics (BDA) software market represents a collection of software tools and applications for data extraction, integration, governance, movement, curation, analysis, and visualization deployed to support or automate a broad range of strategic, operational, and tactical decision making. Based on IDC’s BDA taxonomy there are three primary BDA segments:

Analytic Data Management
BI & Analytics Tools and Platforms
Performance Management and Analytics Apps

A set of tools for the creation and ongoing management of data repositories to support analytic workloads

Prepackaged analytic applications for specific business functions and/or industries

Prepackaged analytic applications that support decision making and analytics functions and provide business process support, separation of function and time-oriented integrated data from multiple sources

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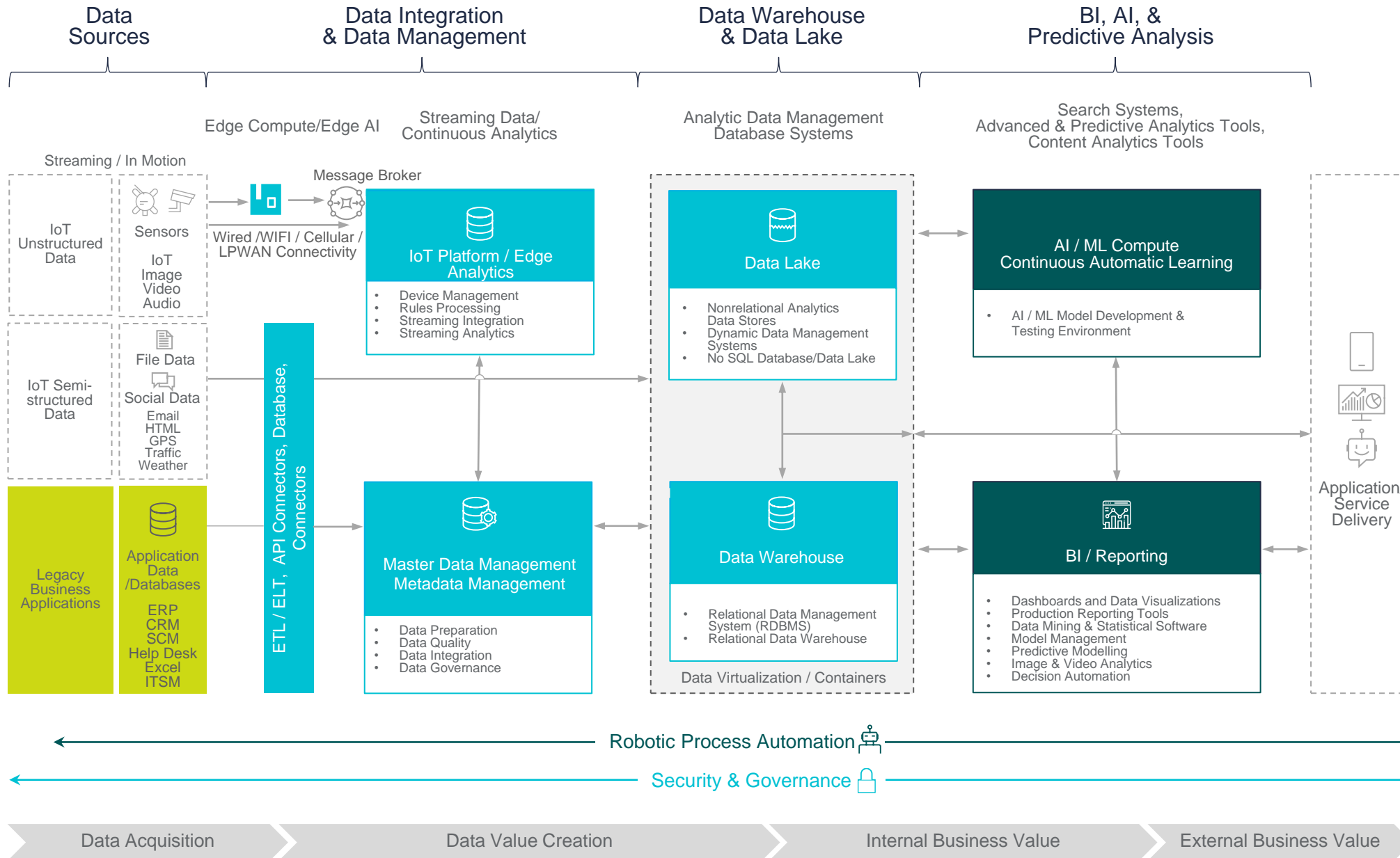


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Click on any of the colored items in the diagram for more detail

Key

-  Analytic Data Management & Integration Platforms
-  BI and Analytics Tools and Platforms
-  Performance Management and Analytics Apps

Analytic Data Management & Integration Platforms

IDC defines analytic data management and integration platforms as a sets of tools for the creation and ongoing management of data repositories to support analytic workloads. This segment includes three market subsegments:

Analytic Data Management

Analytic Data Integration & Integrity Tools

Continuous Analytics Tools

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Analytic Data Management

Analytic data management software includes relational database management systems (RDBMSs) and a broad range of nonrelational data stores and dynamic data management environments used to build and maintain data warehouses, data marts, and other analytic data stores. This software market is divided into two segments: Relational data warehouse and Nonrelational analytic data stores.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">Relational Data WarehouseData Marts	Cloudera: Oracle: IBM: Microsoft: AWS: Google:	Cloudera Data Platform Oracle Database DB2; Db2 Warehouse; Informix; Netezza SQL Server; Azure Cosmos DB Redshift BigQuery	Teradata: VMWare Tanzu: SAP: Snowflake:	Teradata Greenplum BW/4HANA; Sybase IQ Snowflake Data Cloud
<ul style="list-style-type: none">Nonrelational Data Stores: Document Oriented Database	AWS: IBM:	DocumentDB Cloudant	Couchbase: Intersystems: Progress: MongoDB:	Couchbase Server Iris MarkLogic Database MongoDB
<ul style="list-style-type: none">Nonrelational Data Stores: Graph Database	AWS: IBM:	Neptune DB2 Graph	DataStax: Franz Inc: Neo Technology: Objectivity:	Titan AllegroGraph Neo4j InfiniteGraph
<ul style="list-style-type: none">Nonrational Data Stores Key Accessible Database	AWS: Oracle: Google:	DynamoDB NoSQL DB Bigtable	DataStax:	Distribution of Apache Cassandra
<ul style="list-style-type: none">Scalable Data Collection Managers: Data Lake Lake House	Cloudera: Oracle: AWS: Microsoft: IBM:	Enterprise Data Hub OAC Data Lake EMR, Lake Formation, S3, Athena, Glue Azure Data Lake Cloud Pak for Data, watsonx.data	Databricks:	Lake House Platform

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Analytic Data Integration & Integrity Tools

This software enables the access, blending, movement, and integrity of data among multiple data sources. It is also the conduit that enables users to connect to structured and unstructured data contained within various types of storage platform (relational and nonrelational), both on-premises and in the cloud. The data integration and integrity software market includes bulk data movement software (such as data extraction, transformation, and loading [ETL] tools), data quality software, data access infrastructure, composite data frameworks, master data definition and control software, metadata management software, and self-service data preparation software.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">ETL ToolsData Quality SoftwareData Access InfrastructureData FrameworksMaster Data ManagementControl ToolsMetadata ManagementData Preparation Software	Alteryx:	Designer, Designer Cloud (Trifacta), Connect	Informatica:	PowerCenter, PowerExchange, Data Engineering Integration, Enterprise Data Preparation
	SAS:	SAS Viya: Data Access/ETL, Data Preparation, Data Quality & Information Governance	SnapLogic:	Intelligent Integration Platform
	Software AG:	StreamSets	Altair:	Datawatch Monarch
	Hitachi Vantara:	Pentaho Data Integration	Precisely:	Spectrum Enterprise Data Integration
	IBM:	Data Refinery, InfoSphere Info Server, DataStage, Watson Knowledge Catalog, Data Quality, MDM	Information Builders:	iWay
	Microsoft:	Azure Data Factory, SQL Server Integration Services (SSIS)	MongoDB:	Stitch, Connector BI Connector Spark
	Oracle:	Data Integrator, Golden Gate, Big Data (SQL)	Synscort:	Integrate
	Red Hat:	Fuse, Fuse Online, AMQ, Data Virtualization, API Management	SAP:	Master Data Governance
	TIBCO:	TIBCO Software	Tableau:	Tableau Data Prep
	AWS:	Glue, EMR	Talend:	Data Fabric
	Cloudera:	Cloudera Data Platform		

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Continuous Analytics Tools

Continuous analytics is software used for real-time and near-real-time decision support and decision automation. Continuous analytics is in-motion technology that continuously receives and transforms data in real-time and in micro batches. It is software made up of two primary segments: streaming integration and streaming analytics.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">Streaming Integration	<div>Microsoft: Azure Data Factory & Event Hubs</div> <div>AWS: Kinesis Data Firehose, Data Streams, and MSK</div> <div>IBM: STREAMS</div> <div>SAS: SAS Analytics for IoT</div> <div>Hitachi Vantara: Pentaho Data Integration</div> <div>Oracle: Golden Gate</div> <div>Software AG: Apama</div> <div>Splunk: Universal Forwarded</div>		<div>Informatica: PowerCenter Real Time Edition</div> <div>Talend: Data Integration</div>	
<ul style="list-style-type: none">Streaming AnalyticsEdge Analytics	<div>Microsoft: Azure Stream Analytics Streaming Data Platform,</div> <div>AWS: Kinesis</div> <div>IBM: STREAMS</div> <div>SAS: SAS Event Stream Processing, SAS (Platform)</div> <div>Hitachi Vantara: Pentaho</div> <div>Software AG: StreamSets</div> <div>Cloud Software Group: Tibco BusinessEvents</div> <div>Oracle: Event Hub Cloud Service</div> <div>Cloudera: Cloudera Data Platform -DataFlow</div>		<div>Informatica: Data Engineering</div> <div>PTC: Streaming</div> <div>Salesforce: ThingWorx Thunder</div>	

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BI & Analytics Tools & Platforms

Business Intelligence tools utilize a set of methodologies and technologies to prepare, present and help analyze data. Through this process, data is turned into actionable business information which helps decision makers and end users to make more effective data-driven decisions. Based on IDC's Big Data and Analytics Taxonomy, this primary segment includes six subsegments:

End-User Query, Reporting, & Analysis Tools

Advanced & Predictive Analytics Tools

Content Analytics Tools

Search Systems

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End-User Query, Reporting, & Analysis Tools

Business intelligence tools include ad hoc query and multidimensional analysis tools as well as dashboards, data visualization, and production reporting tools. Various query, reporting, and analysis tools are designed for either IT or business users. This category does not include application development tools that may be used for building reports but are not specifically designed for that purpose. Multidimensional analysis tools include both client-side and server-side software that provide a data management environment used for modeling business problems and analyzing business data. Packaged data marts, which are preconfigured software combining data transformation, management, and access in a single package, are also included in this functional market.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">• Ad-hoc Query and Multidimensional Analysis Tools• Dashboards• Data Visualizations• Production Reporting Tools• Business Problems Modeling• Business Data Analysis• Packaged Data Marts	Microsoft:	PowerBI, SSRS, Excel	SAP:	Analytics Cloud
	Oracle:	Analytics Cloud, OBIEE	Salesforce:	Einstein Analytics
	AWS:	QuickSight	OpenText:	Analytics
	IBM:	Cognos Analytics, Planning Analytics, Dashboards (Cloud Pak for Data)	Qlik:	Qlik Sense & QlikView
	SAS:	SAS Visual Analytics, SAS Visual Statistics	Infor:	Birst
	Google:	Cloud Datalab	Tableau:	Tableau
	Alteryx:	Auto Insights	Domo:	Domo Software
	BSP Software:	Meta Manager, Integrated Management Suite		
	Cloud Software Group:	Jaspersoft, Spotfire		
	Cloudera:	Cloudera Data Platform – Data Visualization		
	Hitachi Vantara:	Pentaho Business Analytics		
	MicroStrategy:	Business Intelligence, Hyperintelligence		

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Advanced & Predictive Analytics Tools

Advanced and predictive analytics tools include data mining and statistical software. These tools use a range of techniques to create, test, and execute statistical models. Some techniques used are machine learning, regression, neural networks, rule induction, and clustering. Advanced and predictive analytics tools and techniques are used to discover relationships in data and make predictions that are hidden, not apparent, or too complex to be extracted using query, reporting, and multidimensional analysis software. Products on the market vary in scope. Some products include their own programming language and algorithms for building models, but other products include scoring engines and model management features that can execute models built using proprietary or open source modeling languages.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">• Data Mining and Statistical Software• Machine Learning• Predictive Analysis• Decision Automation• Scoring Engines• Model Management	Microsoft:	Machine Learning Server	MathWorks:	MATLAB
	Oracle:	Advanced Analytics	FICO:	FICO Model Builder
	AWS:	Kendra, Personalize, Translate, Forecast, Fraud Detector, Lookout, Guru, SageMaker	SAP:	Predictive Analytics
	IBM:	Watson Studio, Watson Machine learning, Watson OpenScale, SPSS Modeler, ILOG CPLEX (Decision Opt)	RapidMiner:	Predictive Analytics
	SAS:	SAS Viya (Platform), SAS Visual Forecasting, SAS Econometrics, SAS Optimization, SAS IML, SAS Intelligent Decisioning, SAS Model Manager	H2O.ai:	Orchestration
	Alteryx:	Designer, Intelligence Suite, Promote, Machine Learning		
	Artisight:	Smart Hospital Platform		
	Automation Anywhere:	Document Automation		
	Cloud Software Group:	TIBCO Statistica, ibi WebFOCUS		
	Cloudera:	Cloudera Data Platform (CDP)		
	Digitate:	ignio™ AIOps		
	Domino Data Labs:	Enterprise MLOps Platform		
	Hitachi Vantara:	Pentaho Machine Learning w/ML		
	HPE:	Ezmeral MLOps		
	Run.ai	Atlas		
	Software AG:	Zemantis Predictive Analytics		

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Content Analytics Tools

Content analytics systems provide tools for recognizing, understanding, and extracting value from text or by using similar technologies to generate human readable text. This submarket also includes language analyzers and automated language translation as well as text clustering and categorization tools. This submarket also includes software for recognizing, identifying, and extracting information from audio, voice, and speech data as well as speech identification and recognition plus converting sounds into useful text. Finally, this submarket includes software for recognizing, identifying, and extracting information from images and video, including pattern recognition, objects, colors, and other attributes such as people, faces, cars, and scenery. The Content Analytics Tools in this submarket are typically categorized as Text analytics, Audio and voice/speech recognition and analytics or Image and video analytics tools.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">Text Analytics	<p>SAS: SAS Visual Text Analytics, SAS Viya (Platform)</p> <p>Oracle: Data Mining</p> <p>IBM: Watson Discovery, SPSS Modeler</p> <p>Automation Anywhere: IQ Document Automation</p> <p>Alteryx: Intelligence Suite</p> <p>AWS: Comprehend, Textract, A2I</p> <p>Microsoft Azure: Text Analytics</p> <p>Google: Natural Language</p>		<p>SAP HANA: Text Analytics</p> <p>Babel Street: Rosette</p> <p>kCura: Content Analyst</p> <p>SDL: TMS</p> <p>Qualtrics: Text IQ</p> <p>Linguamatics: I2E</p> <p>Lexalytics: Semantra</p> <p>Automated Insights: Wordsmith</p> <p>Concept Searching: Compound Term Processing</p>	
<ul style="list-style-type: none">Audio & Voice/Speech Recognition & Analytics	<p>IBM: Watson Speech to Text, Watson Text to Speech</p> <p>Microsoft: Windows Speech Recognition</p> <p>Google: Cloud Speech API</p> <p>AWS: Lex, Transcribe, Polly</p>		<p>Nuance: Automated Speech Recognition & Natural Language Understanding</p> <p>Nexidia: Analytics & Capture</p> <p>Scribe: Capture</p>	
<ul style="list-style-type: none">Image & Video Analytics	<p>Artisight: (AI-as-a-Service) for Healthcare</p> <p>IBM: IBM Video Analytics</p> <p>Alteryx: Intelligence Suite</p> <p>Hitachi Vantara: Lumada Video Insights, Pentaho Machine Learning, Hitachi Content Intelligence</p> <p>HPE: Media Management & Analytics</p> <p>Axis Communications: Camera Application Platform</p> <p>Cisco: Pulse Video Analytics</p> <p>Bosch: Intelligent Video Analytics</p> <p>Chooch: Computer Vision AI Platform</p> <p>AWS: Rekognition, Lookout for Vision, Panorama</p> <p>IronYun: Vaidio AI Enabled Video Analytics</p>		<p>Avigilon: Appearance Searcy</p> <p>FBais: Iris+</p> <p>Intelligent Technologies: iVMD</p> <p>Cognex: Machine Vision</p> <p>Allied Vision: VIMBA</p> <p>Honeywell: Active Alert</p> <p>NICE Systems: Engage</p>	

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Search Systems

Search systems include departmental, enterprise, and task-based search and discovery systems as well as cloud-based and personal information access systems. This submarket also includes unified information access tools and systems that combine text analytics, clustering, categorization, and search into a comprehensive information access system. Search Systems also enables a smart and simple way to mine and explore all your unstructured data with powerful text analytics and machine learning capabilities.

With next-generation Search & AI-driven analytics platform, users type questions into a search box like they would with Google or Bing and instantly get precise answers.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">• Task-Based Search & Discovery• Unified Information Access• Comprehensive Information• Access-Combined Text Analysis, Clustering, Categorization & Search• Search & Conversational Analytics	IBM:	Watson Discovery, Watson Assistant	Smart Logic:	Semaphore
	Oracle:	Secure Enterprise Search	Expert Systems:	Cogito Discover
	Microsoft:	Microsoft Search	Northern Light:	SinglePoint
	Google:	Google Earth	Palantir:	Gotham
	AWS:	CloudSearch, OpenSearch, Kendra	Dassault Systèmes:	EXALEAD
	Hitachi Vantara:	Waterline/Hitachi Content Intelligence	OpenText:	Axcelerate, Perceptiv, Decisiv
	TIBCO:	Spotfire	Lucidworks:	Fusion
			Elastic:	Elasticsearch
			Sinequa:	Insight Platform
			Coveo:	Intelligent Search

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Spatial & Location Analysis Tools

Spatial and location analytics is a segment of the broader spatial information management (SIM) software (also called geographic information system [GIS]) and includes the analytic tools associated with SIM software for data entry/conversion (surveying/COGO, aerial photo rectification, remote sensing, GPS, and others), mapping/spatial query, and business analysis.

Location or geographical information system (GIS) tools enable spatial experts to collect, store, analyze and visualize data. Location intelligence experts can use a variety of spatial and business analytical tools to measure optimal locations for operating a business or providing a service.

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">• Spatial Information Management (SIM)• Geographic Information System (GIS)• Mapping/Spatial Query Business Analysis	Alteryx: Autodesk: Oracle: Microsoft: Google: IBM: Chooch:	Designer, Location Intelligence Map 3D Spatial and Graph MS Bing Maps Google Earth Geospatial Analytics Visual AI platform	Esri: Hexagon: Precisely:	ArcGIS M.App Enterprise MapInfo

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AI Software Platforms

Artificial intelligence (AI) software platforms provide the tools and technologies to analyze, organize, access, and provide advisory services based on a range of structured and unstructured information. These platforms facilitate the development of intelligent, advisory, and cognitive enabled applications. The technology components of AI software platforms include text analytics, rich media analytics (such as audio, video, and image), tagging, searching, machine learning, categorization, clustering, hypothesis generation, question answering, visualization, filtering, alerting, and navigation.

These platforms typically include knowledge representation tools such as knowledge graphs, triple stores, or other types of NoSQL data stores. These platforms also provide for knowledge curation and continuous automatic learning based on tracking past experiences.

When these individual technology components are sold standalone, they are accounted for in other segments of IDC's BDA taxonomy, such as content analytics tools, advanced and predictive analytics, and nonrelational data stores.

Note: *As disruptive as visual-based data discovery has been to traditional BI, a third wave of disruption has emerged in the form of augmented analytics, with machine learning (ML) generating insights on increasingly vast amounts of data. Augmented analytics also includes natural language processing (NLP) as a way of querying data and of generating narratives to explain drivers and graphics. Vendors that have augmented analytics as a differentiator are better able to command premium prices for their products*

KEY PRODUCTS	TD SYNnex VENDORS	PRODUCT NAME	OTHER VENDORS	PRODUCT NAME
<ul style="list-style-type: none">Intelligent, Advisory, and Cognitively Enabled AppsMachine Learning CategorizationKnowledge CurationContinuous Automatic Learning	IBM:	watsonx.ai plus, watsonx.governance, Cloud Pak for Data	Infosys Nia:	Machine Learning
	SAS:	SAS Viya (Platform)	Amelia:	Chatbot
	Microsoft:	Cognitive Services, Azure Machine Learning Studio		Amelia
	Google:	Cloud Machine Learning Platform, AI Platform		
	Oracle:	Data Science Cloud Service		
	AWS:	SageMaker, AWS AI Services		
	Hitachi Vantara:	Pentaho Machine Learning w/ML Orchestration		
	Alteryx:	Machine Learning		
	Automation Anywhere:	Document Automation, Automation Co-Pilot		

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Performance Management & Analytics Applications

This software represents prepackaged analytic applications. IDC defines these applications as software that must meet each of the following three conditions:

- Commercial application software that structures and automates a group of tasks pertaining to the review and optimization of business operations or the discovery and development of new business.
- Can function independently of an organization's core transactional applications, yet can be dependent on such applications for data and may send results back to these applications.
- Extracts, transforms, and integrates data from multiple sources (internal or external to the business) supporting a time-based dimension for analysis of past and future trends or accesses such a data store.

Solutions & Products

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CATEGORIES	KEY PRODUCTS	TD SYNnex VENDORS	OTHER VENDORS
Customer Relationship Analytics	<ul style="list-style-type: none">Customer-Facing Decision-Making Business ProcessesDecision Automation	<ul style="list-style-type: none">Oracle: CRM, Sales Cloud (SMB), Netsuite CRMMicrosoft: Dynamics 365SAS: CI360	<ul style="list-style-type: none">SAP: CRMSalesforceAdobe: Experience CloudVerintPega CRMAmdocsSage CRMSugarCRM
Supply Chain & Product/Asset-Centric Analysis	<ul style="list-style-type: none">Inventory ManagementProduct Supply Chain-Specific Business ProcessMaterial & Capacity Requirements Planning (MRP)Bill of Material (BOM)Work Order Generation & ReportingShop Floor ControlQuality ControlManufacturing Execution System (MES)	<ul style="list-style-type: none">IBM: Sterling B2B, Sterling OMS, Maximo, Tririga, Watson AISAS: SAS Intelligent Planning, SAS Performance Management, SAS Intelligent Inventory Management, SAS Intelligent PricingOracle: Supply Chain AnalyticsHitachi Vantara: Lumada Maintenance Insights, Lumada Manufacturing Insights	<ul style="list-style-type: none">Dassault Systèmes: DELMIAWorks Manufacturing ERPIFS: Supply Chain ManagementInfor: Supply Chain ManagementBlue Yonder: Luminate PlanningManhattan Associates: Manhattan Active Supply ChainShoptech: Industrial Software
Services Operations Analytics	<ul style="list-style-type: none">Decision Making & AnalyticsClaim Processes (Insurance)Admission/Discharge & Transfer (Patients)Student Retention & Recruitment (Higher Education)Energy TradingDecision Support for Real Estate, Legal Services, Banking, Government, Social Services, and Transportation	<ul style="list-style-type: none">SAS: SAS ViyaHitachi Vantara: Lumada SuiteAutomation Anywhere: RPA for HC Claims	<ul style="list-style-type: none">HubspotAptoFendahl: Fusion CTRM/ETRMBlue: Experience Management PlatformOpenText: VerticaFICO: Debt ManagementOracle Health: Cerner Millennium
Workforce Analytics	<ul style="list-style-type: none">Human Capital ManagementEmployee’s Corporate Relationship/HRContingent Labor, Contractors, & ConsultantsSupplier & Customer Employee HR	<ul style="list-style-type: none">Oracle: Human Resource Analytics	<ul style="list-style-type: none">SAP: Success FactorUKG: Workforce ManagementPeopleFluentSumTotal: SumTotal Workforce ManagementWorkday: HCM Reporting & Analytics
Enterprise Performance Management	<ul style="list-style-type: none">Budget, Planning & ForecastingInternal Financial Policies ManagementExternal Financial Reporting ComplianceFinancial Risk Assessment & AnalysisProfitability Measurement & ReportingRisk & Financial ManagementRisk Adjusted Performance Management	<ul style="list-style-type: none">IBM: Planning Analytics with WatsonOracle: Enterprise Planning & Budget Cloud Service, Hyperion Financial Close SuiteSAS: Model Risk Management	<ul style="list-style-type: none">SAP: Analytics CloudHost AnalyticsWorkday: Adaptive InsightsBOARD InternationalTagetikProphixWorkivaAnaplanAxiomInsightsoftware: Hubble
Production Planning	<ul style="list-style-type: none">Collaborative Forecast AutomationManufacturing Process OptimizationSupply PlanningDemand PlanningProduction PlanningDemand ExpectationMulti-site Spanning	<ul style="list-style-type: none">IBM: Sterling Order Management SystemOracle: Advanced Planning Command Center, Advanced Supply Chain Planning, Collaborative Planning & Demand ManagementSAS: SAS Intelligent Planning; SAS Intelligent Inventory Management	<ul style="list-style-type: none">SAP: Supply Chain Planning and CollaborationAspen Technology: Aspen Collaborative Demand Manager & Supply Chain Planner

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Analytics in Industries

Analytics, AI and machine learning technologies are being used across vertical industries to help drive more intelligent business decisions. Vertical industry leaders today leverage analytics and machine learning across many areas of business, from facilitating customer service interactions to managing logistics to analyzing medical records.

Data and analytics are already shaking up multiple vertical industries, and the effects will only become more pronounced as adoption reaches critical mass. An even bigger wave of change is looming on the horizon as deep learning reaches maturity, giving machines unprecedented capabilities to think, problem-solve, and understand language. Industry organizations that are able to harness these capabilities effectively will be able to create significant value and differentiate themselves, while others will find themselves increasingly at a disadvantage.



Healthcare



Manufacturing



Retail



Smart Buildings & Smart Enterprise

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Healthcare Analytics

Industry Context

- Artificial intelligence could save the U.S. up to \$360 billion annually if adopted more widely in healthcare ([NBER](#))
- The FDA authorizations of AI and machine-learning-enabled devices reviewed and authorized increased 1800% from 2015-2022 ([FDA](#))

Key Analytics Use Cases

Use Case	Explanation	Key Technology Categories
Patient Telemonitoring & Fall Prevention	<ul style="list-style-type: none">• Healthcare clinicians can use computer vision, machine learning and predictive analytics to monitor patient movements to predict and prevent costly adverse events before they happen to improve patient outcomes and quality reporting measures.	Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Advanced & Predictive Analytics Tools• AI Software Platforms
Automated Claims Processing for Healthcare	<ul style="list-style-type: none">• Robotic Process Automation uses computer vision, natural language processing and machine learning to learn from human behavior of repetitive tasks to automatically read and process complex claims documents to improve accuracy and speed up insurance claims submission.	Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Advanced & Predictive Analytics Tools• AI Software Platforms
Patient Readmissions Prevention	<ul style="list-style-type: none">• Use analytics process automation and predictive analytics in healthcare to identify patients at high risk of hospital readmission. Forecasting which patients may be readmitted after a hospital stay allows clinicians to adjust their post-hospitalization treatment plans. Reducing readmissions saves money, preserves healthcare resources for new patients and improves patient outcomes.	Analytic Data Management & Integration Platforms <ul style="list-style-type: none">• Analytic Data Integration & Integrity Tools Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Analytics Process Automation• Advanced Predictive & Prescriptive Analytics• Spatial Location Analytics Tools
AI Assisted Dermatology	<ul style="list-style-type: none">• AI-enabled computer vision systems can be used to accurately analyze images of lesions for melanoma diagnoses. The technology can be used for accurate disease classification and early diagnoses.	Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Advanced Predictive Automation• Machine Learning• Image & Video Analytics

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Manufacturing Analytics

Industry Context

- The manufacturing analytics market is projected to register a CAGR of 24% during the forecast period (2021 - 2026). The application of analytics in various segments of the manufacturing process is increasing the demand for the manufacturing analytics market thereby minimize operational cost and streamlining the overall supply-chain logistics. ([Mordor Intelligence](#))
- According to a recent study conducted by the Boston Consulting Group (BCG) and the World Economic Forum, nearly 75 percent of surveyed manufacturing executives consider advanced analytics to be critical for success and more important today than three years ago. ([BCG](#))
- A recent report conducted by ABI Research claims that manufacturers will spend \$20 billion to transform and support data analytics by 2026. ([ABI](#))

Key Analytics Use Cases

Use Case	Explanation	Key Technology Categories
Predictive Maintenance	<ul style="list-style-type: none">• Predictive maintenance uses data from sensors and smart machines to monitor and predict machine health and safety and allow scheduled maintenance when needed. This reduces unscheduled downtime and improves Overall Equipment Effectiveness (OEE), avoiding lost production and revenues.	Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Predictive Modeling & Model Management• Advanced & Predictive Analytics Tools• Machine Learning
AI-based Visual Inspection	<ul style="list-style-type: none">• AI-based visual inspection involves using machine learning to automatically verify product quality by analyzing unstructured image and video data. AI and computer vision technologies enable manufacturers to automate product defect detection, saving time and money while improving quality control.	Analytic Data Integration & Integrity Tools <ul style="list-style-type: none">• Continuous Analytics Tools & Edge Analytics Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Machine Learning• Image & Video Analytics Tools
Video Analytics for Worker Safety	<ul style="list-style-type: none">• AI and computer vision can analyze live video feeds to detect when workers are in a potentially dangerous situation. Workplace safety is important not only for ensuring the health and wellness of employees, but also because on-the-job injuries and accidents can be very expensive to deal with and reduces overall productivity.	Analytic Data Integration & Integrity Tools <ul style="list-style-type: none">• Continuous Analytics Tools & Edge Analytics Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Image & Video Analytics Tools• Spatial & Location Analytics Tools

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Retail Analytics

Industry Context

- The retail analytics market was valued at USD 5.29 billion in 2019 and is expected to reach USD 15.03 billion by 2025, at a CAGR of 19% over the forecast period 2020 - 2025 ([Mordor Intelligence](#)).
- The retail industry's investment in AI application software is expected to grow at nearly a 40% CAGR over the next five years ([IDC](#))
- Nearly a third of retailers (30%) said improving operational efficiency is their top business objective. ([IDC](#))

Key Analytics Use Cases

Use Case	Explanation	Key Technology Categories
In-Store Analytics	<ul style="list-style-type: none">• In-store analytics solutions can be used to process data from sensors, trackers, cameras and other IoT devices in brick-and-mortar stores. Machine learning and analytics can provide deep insights for better product placement , peak traffic times, most popular areas within the store to allocate sales associates.	Analytics Data Management & Integration Platforms) <ul style="list-style-type: none">• Streaming Integration / Edge Analytics Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Machine Learning• Image & Video Analytics Tools• AI Software Platforms
Personalized shopping experiences	<ul style="list-style-type: none">• Customer relationship analytic applications generate product recommendations tailored to a specific customer based on their purchase history, preferences, and context. This enables Marketers to create smart, efficient personalized customer journeys with relevant web content in real-time, optimizing the customer's experience and conversion rates to sales.	Performance Management & Analytics Applications <ul style="list-style-type: none">• Customer Relationship Analytics• Search Systems / Text-based Search & Discovery• Continuous Automatic Learning / ML• Dashboard / Data Visualization
Supply chain analytics	<ul style="list-style-type: none">• Demand planning and supply chain analytics software enables companies to automate and accelerate demand planning insights across their supply chain, understanding demand signals and providing recommendations for balanced, profitable plans across all channels, categories, and customers. This results in greater forecast accuracy using a variety of analytics methodologies, including AI and Machine Learning.	Supply Chain & Product / Asset-Centric Analytics <ul style="list-style-type: none">• Artificial intelligence (AI) and performance management and analytics applications• Advanced & Predictive Analytics Tools• Intelligent Planning

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Public Sector/Smart Cities Analytics

Industry Context

- A “smart city” is an urban area that uses emerging technologies such as Internet of Things (IoT), Artificial Intelligence (AI), big data, cloud storage technology, and data analytics to collect and analyze utilization data and use insights gained from them to manage assets, resources, and services efficiently.
- By 2024, because of ongoing staff shortages, 60% of regional and local governments will realign budgets and job categories to increase investment in cloud and managed services. ([IDC FutureScape](#))
- The number of IoT smart buildings' active connections was expected to increase through the years. It was 15.99 million connections in 2019 and is expected to reach 154.06 million by 2025. ([Mordor Intelligence](#))

Key Analytics Use Cases

Use Case	Explanation	Key Technology Categories
Limiting the spread of COVID-19	<ul style="list-style-type: none">• Experts have found uses for business intelligence and analytics tools and platforms for various purposes, such as contact tracing.• Video analytics are being used to measure pedestrian traffic and evaluate how populations are complying with social distancing and mask-wearing• Artificial intelligence and machine learning models allow researchers to virtually test potential vaccines and predict which therapies might work best across populations. The coming together of artificial Intelligence and data analytics platforms has improved the ability to dig through years of data to identify possible drugs already approved by the FDA for treating similar viruses	Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• Data Visualization• Spatial and Location Analytics Tools• Geographical Information System (GIS) Tools• Mapping / Spatial Query Artificial Intelligence Software Platform <ul style="list-style-type: none">• Content Analytics Tools• Text & Rich Media Analytics Tools• Machine Learning & Categorization• NoSQL Database / Data Lake• Advanced Predictive Analytics
Maintain and enhance a healthy environment	<ul style="list-style-type: none">• Analytics, BI, IoT, and AI-driven technology can be used to help maintain healthy environment, advance public transport, and safety. Smart city projects can utilize AI for various applications:<ul style="list-style-type: none">• Waste management• Traffic management and efficient public transportation• Energy-efficient buildings• Public surveillance• Flood Prevention• Disaster response & emergency management• E-governance	Business Intelligence & Analytics Tools & Platforms <ul style="list-style-type: none">• AI Software Platforms• Advanced & Predictive Analytics Tools• Artificial Intelligence Software Platforms• Natural Language Processing• Streaming Data• Data Visualization• Edge Analytics

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TD SYNnex Solutions & Services

See the table below for a list of key TD SYNnex analytics solutions and services and how they relate to the primary segments in this document.

Key Analytics Categories	Streaming Data	Data Warehouse & Data Lake	Data Integration & Data Management	BI, AI, & Predictive Analytics
Product Components	Continuous Analytics Tools	<ul style="list-style-type: none">Analytic Data ManagementDatabase Systems	<ul style="list-style-type: none">Big Data IntegrationTraditional Data IntegrationData Management	<ul style="list-style-type: none">Search SystemsAdvanced and Predictive Analytics ToolsContent Analytics ToolsSpatial & Location Analysis ToolsAI Software PlatformsEnd-User Query, Reporting, & Analysis Tools
Key TD SYNnex Solutions	<ul style="list-style-type: none">Streaming integrationStreaming analyticsEdge Analytics SWContinuous Automatic Learning	<ul style="list-style-type: none">Relational Data Management System (RDBMS)Relational Data WarehouseNonrelational Analytics Data StoresDynamic Data Management SystemsNoSQL database/Data Lake	<ul style="list-style-type: none">Extract Transform & Load (ETL)Data Access InfrastructureMaster Data ManagementMetadata ManagementData Preparation SoftwareData Quality SoftwareData Governance	<ul style="list-style-type: none">Data Mining and Statistical SoftwareDashboards and Data VisualizationProduction Reporting and ToolsModel Management and Predictive Modeling SoftwareImage and Video AnalyticsContinuous Automatic Learning/MLDecision Automation SoftwareRobotic Process Automation (RPA)
TD SYNnex Services	<ul style="list-style-type: none">Assessments and consultationsSolution scalability and scopeDatabase developmentData strategy modelingData Lake implementationETL and data integrationData migration		<ul style="list-style-type: none">Assessments and consultationsSolution scalability and scopeData strategy modelingETL and data integrationData migrationData blending and prepData Privacy	<ul style="list-style-type: none">Assessments and consultationsSolution scalability and scopeReport and dashboard developmentHealth checkRPA ROI analysis and POC

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Data Containers

Allow multiple application containers to access the same data. These application containers can be created, moved, or destroyed without affecting the original data (e.g., Docker, Kubernetes, OpenShift etc.).

Data Virtualization

Integrates data from disparate sources without copying or moving the data, thus giving users a single virtual layer that spans multiple applications, formats, and physical locations. This means faster, easier access to data. (e.g., Red Hat JBoss Data Virtualization).

Message Broker

Software that enables applications, systems, and services to communicate with each other and exchange information (e.g., Azure IoT Hub, AWS Kinesis).

Nonrelational Analytics Data Stores

The nonrelational analytic data stores market segment is primarily derived from dynamic data management systems. What makes dynamic database systems “dynamic” is that they have no schema and depend on program code to define their content. They are used in cases where the data may not be well defined at the time of ingestion or where the application data requirements change so frequently slowing down the development process. Sometimes called NoSQL database systems because they do not require using SQL, dynamic DBMSs. NoSQL refers to data stores that do not use SQL for queries, and instead use other programming languages and constructs to query the data. Dynamic data management systems that are deployed as nonrelational analytic data stores include: document-oriented database systems, key accessible database systems, graph database management systems, and scalable data collection managers.

Note: Data lakes and data warehouses are both widely used for storing big data, but they are not interchangeable terms. A data lake is a vast pool of raw data, the purpose for which is not yet defined. A data warehouse is a repository for structured, filtered data that has already been processed for a specific purpose. These two types of data storage are often confused and are much more different than they are alike. In fact, the only real similarity between them is their high-level purpose of storing data.

Relational Data Warehouses

Relational data warehouse software market includes (RDBMS) relational database management system software used to manage and process data in support of ad hoc queries and report generation. This software market includes both multidomain enterprise data warehouses and single-domain data marts. A relational database is designed for query and analysis rather than for transaction processing. A relational database data warehouse environment includes an extraction, transportation, transformation, and loading (ETL) solution, an online analytical processing (OLAP) engine, client analysis tools, and other applications that manage the process of gathering data and delivering it to business users.

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Edge Analytics

Analyze sensor data in near real-time, and issue commands when anomalies are detected to stop a machine or trigger alerts.

Sensors, smart technology, and other connected devices would not be effective if their entire data analysis process involved sending back information to a central location/cloud and waiting for it to be processed and returned.

Edge Compute/Edge AI

The computational processing of sensor data away from the centralized nodes and close to the logical edge of the network. Edge AI means that AI algorithms are processed locally on an edge device (autonomous vehicles, smart speakers).

Continuous Analytics

In-motion technology that continuously receives and transforms data in real-time and in micro batches. It is software made up of two primary segments: streaming integration and streaming analytics.

Streaming Analytics

The ability to constantly calculate statistical analytics while moving within the stream of data. Streaming Analytics allows management, monitoring, and real-time analytics of live streaming data and typically runs in a container on some type of IoT Edge or IoT Gateway device.

Streaming Analytics on IoT Edge empowers developers to deploy near-real-time analytical intelligence closer to IoT devices so that they can unlock the full value of device-generated data. Streaming Analytics is designed for low latency, resiliency, efficient use of bandwidth, and compliance. Enterprises can now deploy control logic close to the company’s operations and complement Big Data analytics done in the cloud.

Streaming Data/In Motion

Data that is continuously generated by different sources. (IoT sensors, log files, video)

Streaming Integration

Is the collection and normalization of data in motion, and continuously moving any enterprise data with real high throughput in a scalable fashion, while at the same time processing, correlating, and analyzing it in-memory in order to gain real value and visibility out of that data.

The output of streaming integration processing may flow into streaming analytics software, an at-rest data warehouse or data lake to continuously analyze data on an event-driven basis to automate detecting and predicting conditions that require further action.

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Document Oriented Database

A specific kind of database that works on the principle of dealing with 'documents' rather than strictly defined tables of information. The document-oriented database plays an important role of aggregating data from documents and getting them into a searchable, organized form.

Graph Database

A specialized, single-purpose platform for creating and manipulating graphs. Graphs contain nodes, edges, and properties, all of which are used to represent and store data in a way that relational databases are not equipped to do. Graph analytics is another commonly used term, and it refers specifically to the process of analyzing data in a graph format using data points as nodes and relationships as edges. Graph analytics requires a database that can support graph formats.

Key Accessible Database

The use of keys for a field, or combination of fields, in a database table used to retrieve and sort rows in the table based on certain requirements. Keys are defined to speed up access to data and, in many cases, to create links between different tables.

Scalable Data Collection Managers

These are essentially a huge collection of all the data your company collects about its customers, operations, transactions and more. Think of all of your company's data sources as individual pools of data. You need to hop around to each pool to find the fish you seek. A data lake acts as a scalable data collection manager which will have information flow into it from all of these pools so you can find your fish from one place and find patterns and trends among all the fish.

Learn More



On the Web

Learn more about TD SYNnex's IoT and Analytics offerings at: iot.tdsynnex.com



Contact Us

Reach out to your Analytics and IoT solution consultant, or email us at: data-iot@tdsynnex.com

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Additional Resources



Destination AI

Explore TD SYNnex's solutions, products, and vendors on our Data AI LevelUp resources site. levelup.tdsynnex.com/solutions/data-ai/destinationai



Solutions Catalog

Make repeatable sales in IoT and Analytics a reality. TD SYNnex's IoT Practice Builder empowers you to accelerate time to market with market-ready solutions aligned to vertical use cases. data-iot@tdsynnex.com



Practice Builder

Start your practice building journey online and on your own time, starting with a simple 5-minute assessment. <https://practicebuilder.techdata.com/cloud/path/data-and-iot-fundamentals/>