

Service Definition

Modern Data Services



Modern Data Services Overview

Harness your data's power with modern data services.

We build robust, scalable platforms, leveraging comprehensive cloud capabilities for mass data ingestion, unified analytics, and advanced machine learning. Our core offering centers on an all-in-one analytics solution unifying data movement, data science, real-time analytics, and business intelligence within a single, simplified product; significantly accelerating insights and collaboration.

As a recognized global IT leader and strategic partner, we deliver complex, transformative data solutions built on cloud services. We leverage a central component for data and analytics workflows, alongside data integration and advanced data processing tools, to unify our customers' data and analytics workloads. Crucially, these implementations are underpinned by comprehensive data governance, security, and a unified data map for all valuable assets.

Our UK-based teams, supported by global offshore capability and multi-disciplined experts, integrate Agile, Waterfall, and DevOps methodologies for efficient deployment and continuous value. We are recognized for our deep technical expertise and proven capability in orchestrating large-scale, data-driven digital transformations that yield maximum strategic and operational value for our clients.

Features

- Bespoke solution design, aligned to your specific business goals (leveraging integrated analytics platforms, data integration tools, and advanced data processing).
- End-to-end analytics platform delivery: discovery through to deployment and empowerment.
- Agile/DevOps delivery methodologies accelerate time to valuable insight.
- Implementation of unified/real-time analytics, data engineering, and business intelligence workloads.
- Deployment of a unified data lake to remove silos.
- Seamless integration with existing enterprise and third-party systems.
- Secure, governed architecture for optimal compliance.
- Optimize performance and manage costs, with ongoing support and road-mapping.
- Automation for scalable, secure platform implementation.
- Our bespoke Lakehouse Accelerator delivers medallion-architecture solutions at pace.

Benefits

- Achieve robust data solutions, guided by our proven enterprise expertise.
- Access to multi-disciplined, experienced, security-cleared resources.
- Benefit from UK-based delivery, backed by global offshore capability.
- Receive holistic solutions from deep data, integration, security, AI expertise.
- Unified analytics simplifies your data analytics: we ensure a powerful platform.
- Assured data protection: enhanced security, governance, and compliance.
- Attain scalable, future-proof architectures, evolving with your growth.
- Achieve sustained value through ongoing optimization and strategic guidance.
- Empower your people via analytics platform workshops.

Service Delivery Approach

Our delivery approach follows a flexible delivery model that is purposefully tailorable to meet diverse customer needs.

Phase 1: Strategic Discovery and Requirements Engineering

Our engagement begins with a comprehensive discovery phase, focusing on deeply understanding our client's business landscape, strategic imperatives, and existing infrastructure. This critical initial step ensures that the subsequent technical solution directly addresses core challenges and capitalizes on opportunities.

- **Business objective alignment:** Meticulously defining the specific business goals, desired outcomes, and key performance indicators (KPIs) that the data solution aims to achieve.
- **Current state assessment:** A thorough audit of existing data sources, architectures, data quality, governance practices, and operational processes.

- **Needs analysis:** Identifying data volume, throughput, types, and veracity requirements, alongside anticipated user/groups and analytical use cases (e.g., descriptive, diagnostic, predictive, prescriptive analytics). When considering the scope and scale of different data workloads, we will evaluate the benefits of a unified platform to simplify architecture and operations.
- **Risk and compliance review:** Understanding regulatory requirements, data residency needs, security policies, and potential ethical considerations surrounding data usage.

Phase 2: Solution Architecture and Technical Design

Following a clear understanding of requirements, our architects design a future-proof, scalable, and secure data platform leveraging optimal cloud services. This phase involves both conceptual and detailed technical blueprints.

- **Cloud-native architecture:** Designing highly available and scalable architectures that fully embrace the elasticity and managed services of cloud environments.
- **Service selection:** Strategically choosing and combining modern data services including:
 - **Comprehensive Analytics Solution:** A comprehensive, all-in-one analytics solution covering data engineering, warehousing, real-time analytics, data science, and business intelligence. This simplifies your data estate by unifying critical workloads.
 - **Data Ingestion & Storage:** Leveraging cloud services for scalable, cost-effective data capture and storage.
 - **Advanced Processing & AI/ML:** Utilizing advanced processing engines, machine learning platforms, and integrated capabilities for powerful data transformation, advanced analytics, and AI/ML model development. We also leverage tools to intelligently prepare, enhance, and streamline data specifically for AI systems, ensuring optimal quality for stringent model training.
 - **Data Governance & Management:** Anchoring all solutions with robust tools for data discovery, classification, lineage tracking, and comprehensive management.
 - **Analytics & Visualization:** Implementing interactive dashboards and reporting tools, ensuring data is transformed into actionable insights.
- **Non-functional requirements:** Designing for stringent security (identity management, network security, encryption), resilience, disaster recovery, performance optimization, and cost governance from inception.
- **Proof of Concept (PoC) / Minimum Viable Product (MVP):** Where appropriate, developing focused PoCs to validate critical technical assumptions or MVPs to demonstrate early business value and gather user feedback. This often includes demonstrating the rapid insights achievable through the integrated experiences of unified analytics platforms.

Phase 3: Agile Development and Implementation

We employ Agile and DevOps methodologies to ensure rapid, iterative development and the continuous delivery of solutions. Our implementation approach prioritizes automation, quality, and collaboration.

- **Methodology:** Utilizing Agile frameworks (Scrum, Kanban) for iterative development cycles and leveraging DevOps practices for seamless integration, testing, and deployment.
- **Infrastructure as Code (IaC):** Automating the provisioning and configuration of cloud resources using tools like infrastructure templating languages to ensure consistency, repeatability, and version control.
- **Continuous Integration/Continuous Deployment (CI/CD):** Implementing robust CI/CD pipelines to automate code builds, testing, and deployment, minimizing manual errors and accelerating time-to-market.
- **Data Pipeline Development:** Building robust ETL/ELT pipelines for data ingestion, transformation, and loading into the curated data layers, ensuring data quality and integrity. This includes leveraging integrated data processing and engineering experiences.
- **Security by Design:** Implementing identity and access management, data encryption (at rest and in transit), network security groups, and compliance controls throughout the development lifecycle.
- **Data Governance Integration:** Configuring data governance tools to automate data cataloging, apply sensitive data classifications, enforce data policies, and provide end-to-end data lineage across all data assets.

Phase 4: Testing, Deployment, and Operationalization

Rigorous quality assurance, seamless deployment, and efficient operational handover are paramount to the success of any data solution.

- **Rigorous Testing:** Conducting comprehensive testing across multiple stages: unit testing, integration testing, performance testing, security testing, and user acceptance testing (UAT) to ensure the solution meets all functional and non-functional requirements.
- **Phased Deployment Strategies:** Implementing resilient deployment strategies, often utilizing blue/green deployments or canary releases, to minimize downtime and mitigate risks.
- **Monitoring and Alerting:** Configuring monitoring and logging tools to provide real-time insights into solution health, performance, and cost, with automated alerts for anomalies.
- **Documentation and Training:** Providing comprehensive technical documentation, user guides, and training sessions to facilitate a smooth handover to client operational teams and empower end-users.

Phase 5: Managed Services and Continuous Optimization

Our commitment extends beyond initial deployment. We offer ongoing support, managed services, and continuous optimization to ensure the data platform adapts to evolving business needs and maximizes long-term value.

- **Proactive Monitoring and Maintenance:** Continuous oversight of the data platform's performance, security, and cost efficiency, with proactive maintenance and patching.
- **Performance Tuning and Cost Optimization:** Regular reviews and adjustments to optimize query performance, resource utilization, and cloud spend, leveraging cost management tools and best practices.
- **Feature Enhancements and Innovation:** Collaborating with clients to identify new opportunities, integrate emergent cloud capabilities, and evolve the solution to support expanding analytical requirements and business growth, continuously leveraging the latest releases.

By combining our strategic insights, engineering excellence, and deep expertise in modern data services, we empower organizations to transform their data into a strategic asset, driving unparalleled business intelligence and nurturing a culture of innovation.

Service Deliverables

Deliverables will vary depending on the challenges and anticipated business objectives of each client. Example deliverables can be found below:

- **High-Level Design (HLD) & Low-Level Design (LLD):** Detailed blueprints for the cloud data platform, including chosen services, integration patterns, and data flow. This will explicitly cover the role and configuration of unified analytics platform components, such as data warehouses, lakehouses, notebooks, specific database types, and data pipelines, alongside other cloud services.
- **Service Selection & Rationale:** Justification and configuration specifics for data lake storage, data processing engines, data integration tools, business intelligence platforms, and detailed rationale for the inclusion and specific use cases of the unified analytics platform. This will articulate how the platform unifies various data workloads and streamlines the analytics architecture.
- **Security Architecture Document:** Comprehensive plan for identity, access management, data encryption, and network security within the cloud environment, addressing security configurations and best practices.
- **Data Governance Framework Design:** Blueprint for data quality, ownership, classification, and policies, including integration strategy for governance tools across all data assets.
- **Logical and Physical Data Models:** Detailed data structures for the implemented solution, including those proposed for lakehouses, warehouses, and other data stores within the unified analytics platform.
- **Cloud Cost Estimation & Optimization Plan:** A granular cost breakdown and strategy for managing cloud consumption, with capacity planning and optimization strategies to manage compute and storage costs effectively.
- **Project Plan & Detailed Roadmap:** The refined plan outlining implementation phases, timelines, and resource allocation.
- **Proof of Concept (PoC) / Minimum Viable Product (MVP) Report:** Validation of key technical assumptions or early functional demonstrations, where applicable.
- **Enablement and empowerment via analytics platform workshops.**

About Fujitsu

As one of the world's leading IT companies, Fujitsu is at the forefront of pioneering technology in the UK since we made our initial investment over 40 years ago. As a key strategic partner we deliver essential services, from our secure hybrid IT which underpins critical national infrastructure to our investment in emerging technologies to boost national capability. Drawing on our Japanese technology expertise we provide bespoke digital transformation solutions. This unrivalled expertise has allowed us to specialise in emerging focus areas; Hybrid IT, AI & RPA, Data analytics, Agile application development/transformation and Security. Together, we offer a full package of solutions to support the UK as a long-term industry supplier.

We believe in realising the significant alignment between the UK and Japan in emerging technologies and in creating a UK-Japan 'Innovation Bridge' to support the UK's science and technology superpower objectives. We are committed to investment in UK skills and research and development, driving customer outcomes and promoting social value. We employ 124,000 people around the globe, including around 8,000 people across the UK, promoting diversity and inclusion as a DWP Disability Confident Leader. We are recognised as a Times Top 50 employer for Women since 2017, a Stonewall Top 100 Employer for 2023 and were awarded an EcoVadis Silver Rating, the world's largest provider for sustainability ratings.

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