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Hitachi Solutions Europe

G-Cloud 15 Service Definition Document

Common Data Platform Pattern

Common Data Platform Pattern

What the service is, what you get, and the benefits

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Service Description

Design and implement a common data platform pattern to share data safely across organisations and programmes. We define architecture, standards and governance, build reusable ingestion and publishing components, and implement access controls, cataloguing and monitoring. Supports interoperability, cross-domain reporting and analytics, and reduces duplicated pipelines and datasets.



Service Features

- Common data platform architecture design and reference pattern.
- Data ingestion patterns for batch, streaming and application interfaces.
- Data modelling standards and shared canonical data definitions.
- Data publishing layer for trusted datasets and products.
- Access controls, permissions and secure data sharing design.
- Data catalogue, lineage and metadata management integration.
- Data quality rules, monitoring and remediation workflows.
- Reusable pipelines, templates and automation for consistent delivery.
- Operating model and governance for cross-organisation data sharing.
- Monitoring, cost control and platform performance management.



Service Benefits

- Reduce duplicated datasets by providing shared trusted sources.
- Speed up delivery using reusable pipelines and templates.
- Improve interoperability through common standards and canonical models.
- Increase trust with data quality controls and lineage.
- Enable secure sharing with permissioned access and auditing.
- Improve reporting consistency across programmes and organisations.
- Reduce cost by reusing shared platform services.
- Support assurance with documented controls and governance evidence.
- Improve discoverability with catalogues, metadata and data products.
- Enable scalable analytics with a standardised platform pattern.



Common Data Platform Pattern

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A shared data platform pattern teams can reuse across programmes



What this service is for

Reduce duplication while keeping control over access and assurance

This service is for organisations running multiple programmes that need to share data safely and consistently. When each team builds its own pipelines and datasets, reporting drifts, costs rise, and delivery slows as people rebuild the same things in different ways.

We define and implement a common data platform pattern so teams can ingest, model, publish and monitor data in a consistent way. You get shared standards, reusable components and clear governance so data sharing becomes repeatable, secure, and easier to assure.

Key outcomes: Shared trusted sources | Reusable ingestion and publishing | Consistent standards and models | Secure, permissioned access | Reduced duplicated pipelines



Why this service is useful

Fix the everyday friction that wastes time and undermines trust

This service is useful when teams spend too long rebuilding pipelines, reconciling different versions of the truth, or waiting for access approvals that vary by project. It is also useful when assurance activity is heavy because controls and evidence are inconsistent across programmes and platforms.

A common pattern gives teams a clear path: how to ingest data, how to model it, how to publish trusted datasets, and how to monitor quality and usage. That improves interoperability and makes outcomes easier to evidence.

Common triggers: Duplicated datasets across programmes | Inconsistent reporting definitions | Slow delivery due to bespoke builds | Cross-org data sharing needs | Audit and assurance pressure | Platform costs rising



Why this service is different

Standardise the hard parts, so teams can deliver without constant reinvention

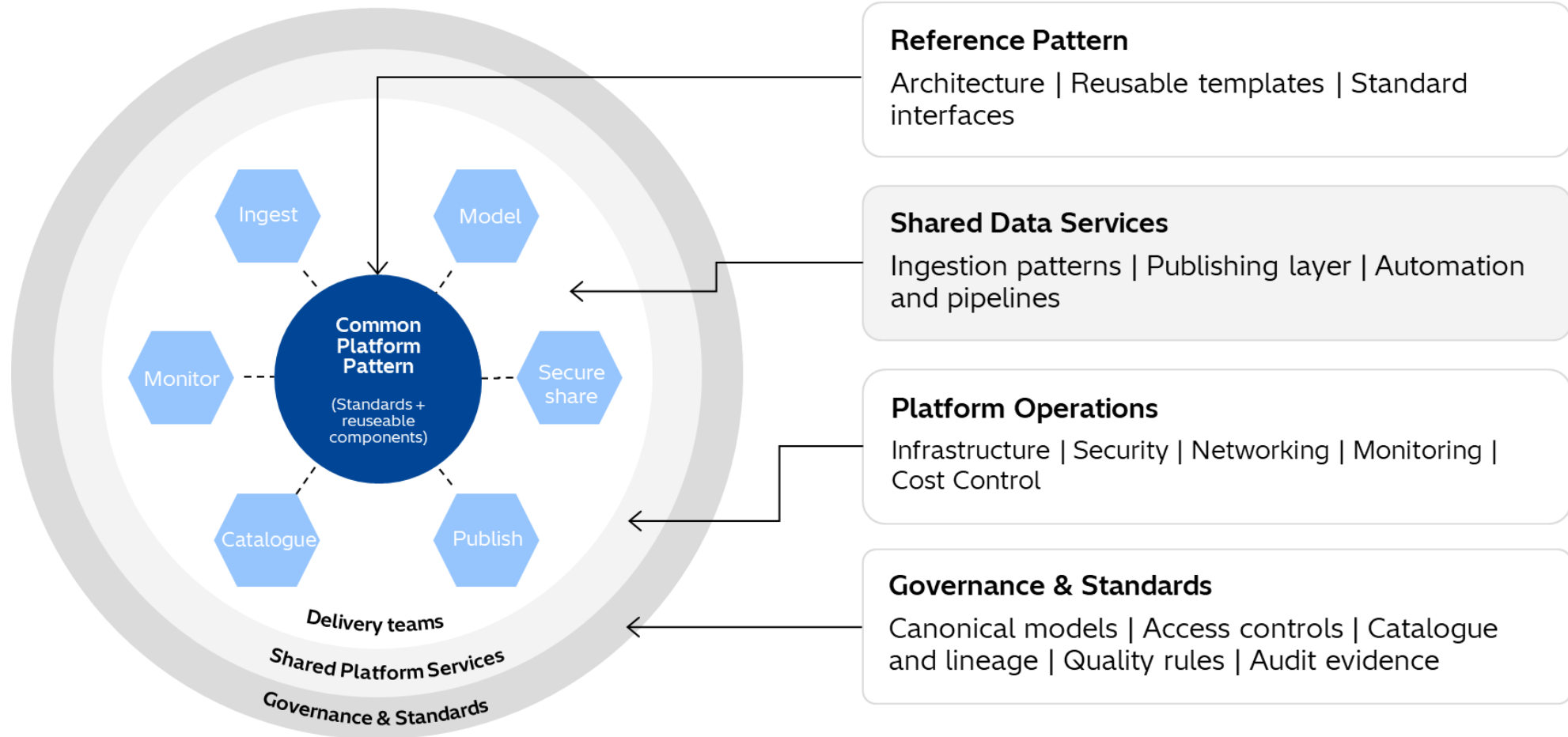
We focus on the practical building blocks that teams repeatedly struggle with: reusable ingestion patterns, canonical data definitions, a trusted publishing layer, and consistent access controls. That means teams can deliver new data use cases faster without creating new bespoke pipelines each time.

We also design governance and operating model alongside the technical pattern, so security, quality and compliance are built in, not added afterwards. The result is a repeatable platform approach that supports cross-organisation sharing and more consistent reporting.

Differentiators: Reusable reference pattern | Canonical models and standards | Built-in controls and monitoring | Governance that scales | Reduced duplication by design

Common, Not Fragmented

Reusable by default: secure, consistent, and scalable.



Build once → reuse across programmes → reduce duplication

How we will deliver

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Decision-led, reusable, and assurance-ready from day one

We deliver in clear phases with regular checkpoints so people can see progress, review evidence, and make decisions early. That stops teams rebuilding the same pipelines in different ways, reduces duplicated datasets, and avoids late surprises around access, quality and reporting definitions.

We create a common platform pattern teams can reuse across programmes: standard ingestion, canonical models, a trusted publishing layer, and consistent controls. The outcome is faster delivery, more reliable reporting, and simpler assurance because controls and evidence are consistent.

Mobilise

Confirm goals, scope and the programmes that need shared data. Identify the platform team, data owners, security and assurance leads. Agree ways of working, decision forums, and what “good” looks like for shared sources. Set up access to key systems, existing standards, and the evidence we will capture.

Outputs

- Delivery plan and decision cadence
- Access, evidence and stakeholder plan

Discover

Map the current data flows and where duplication happens today. Identify the high-value shared sources and the reports they feed. Capture pain points: inconsistent definitions, manual reconciliations, slow onboarding, and bespoke pipelines. Gather the baseline for data quality, lineage, access controls and monitoring so we know what must improve.

Outputs

- Current state map and duplication hot-spots
- Prioritised list of shared sources and use cases

Design

Design the common platform reference pattern across ingestion, modelling, publishing, catalogue/ metadata and monitoring. Define canonical data definitions and modelling standards to improve reporting consistency. Agree the permission model, secure sharing approach and auditing. Define quality rules and how issues are detected, routed and fixed. Confirm governance and decision rights.

Outputs

- Reference architecture and standards pack
- Security, quality and governance design

Build

Build the reusable components and templates teams will reuse: ingestion patterns, pipeline templates, and publishing layer approach. Implement catalogue/ metadata integration so shared sources are discoverable. Set up lineage capture and basic automation to make delivery consistent. Configure monitoring foundations for reliability and cost visibility.

Outputs

- Reusable pipelines, templates and publishing components
- Catalogue, metadata and lineage integration

Embed

Prove the pattern works end-to-end on the priority sources and refine it based on feedback. Put the operating model into motion: who owns the pattern, who approves change, and how exceptions work. Set adoption and quality measures so progress is visible. Create a wave plan so other programmes can adopt quickly and safely.

Outputs

- Operating model, playbooks and adoption measures
- Rollout roadmap with owners and timelines

At the end, you have:

Common data platform reference pattern

Access controls, permissions and auditing approach

Ingestion patterns for batch, streaming and interfaces

Catalogue, lineage and metadata integration design

Canonical models and shared data definitions

Quality rules, monitoring and remediation workflow

Trusted publishing layer for shared datasets

Rollout roadmap, templates and operating model

The Hitachi logo is displayed in a bold, white, sans-serif font in the upper right corner of the image. The background is a photograph of a grand, multi-story classical building with a curved facade, many windows, and a balcony with a Union Jack flag. The image has a dark, semi-transparent overlay.

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Hitachi Solutions Europe

UK Government Overview

Hitachi Solutions for the UK Government

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Our **vision** is to be government's partner of choice for the design and delivery of **sustainable, human-centred, Microsoft Solutions and digital services**.

Human-centred Services

Every service starts with people and how technology can make their day simpler.

+

Deep Microsoft Expertise

Hitachi Solutions is dedicated exclusively to the Microsoft ecosystem.

+

Emotionally Aware Delivery

Our former civil servants bring deep understanding and cultural alignment.

=

+

One Hitachi

Hitachi Solutions is part of Hitachi, Ltd., one of the world's largest and most respected organisations.

Sustainable government transformation.

Human-centric by default.

Powered by Microsoft.



Our Credentials

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Microsoft



Microsoft global Government and Finance
Partner of the Year 2025

Microsoft Partner of the Year 2025 Finalists in
Build and Modernise AI Apps, Dynamics 365
Supply Chain, Dynamics 365 Sales and Customer
Insights, and Low Code Application Development

22 Years in **Microsoft's Inner Circle**
(including 2025)

Microsoft Solutions Partner across AI Business
Solutions, Cloud and AI Platforms and Security
with **18+ specialisations**

Industry



Keystone member of the **Government Digital
Sustainability Alliance**

Crown Commercial Service Supplier

Cyber Essentials Plus Certified

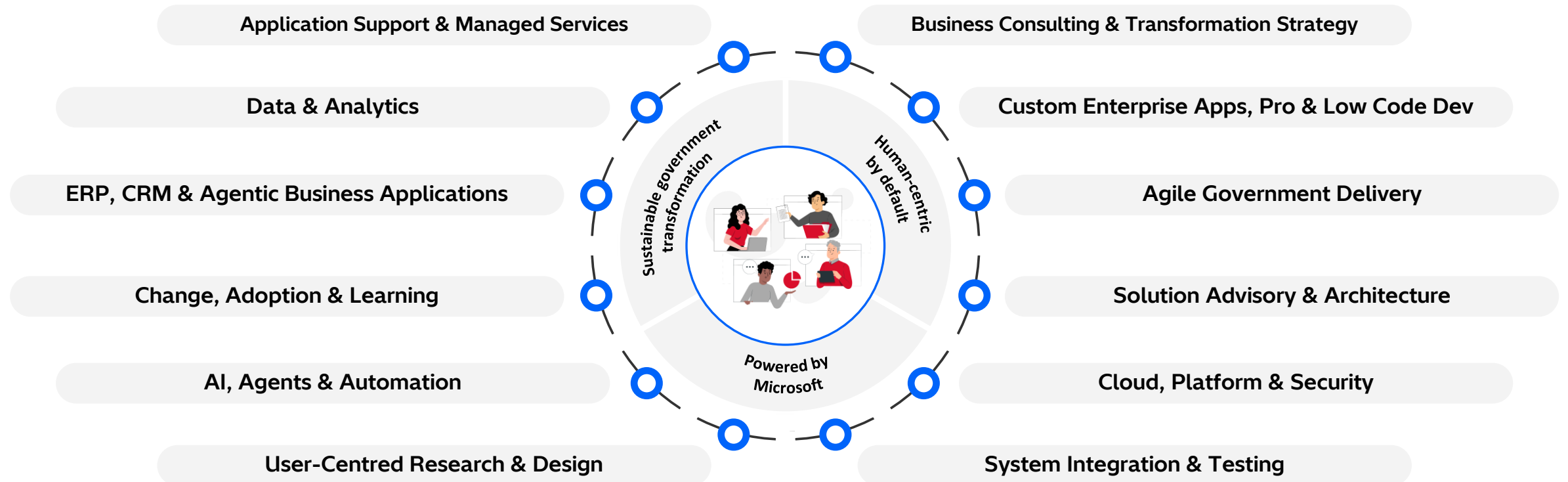
ISO-certified across Quality, Environment, Service,
Business Continuity, Information Security, and
Privacy Management

Recognised in the **Smarter Working Live Awards**
for our regulatory services Customer Experience
work with the Environment Agency

Our Services and Expertise

HITACHI

Sustainable business transformation through tailored advisory, consulting, and technology solutions.



Our Clients

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"Hitachi Solutions brings substantial digital expertise to the table, complementing our robust business experience. Their insights have been instrumental in identifying opportunities for enhancement and accelerating our initiatives."

Gillian Pratt

Deputy Director Future Regulation
at Environment Agency



"Hitachi Solutions brought in a great project team who we kept for the full duration; they engaged with The Royal Mint side of things very effectively. It really felt like they were part of our own team."

Richard Hobbs

CIO The Royal Mint



"Hitachi Solutions bring the innovation, space and expertise needed to deliver digital transformation at a pace that is needed."

Andy MacDonald

Director of Customer Services,
Aberdeen City Council



"Hitachi Solutions were really good to work with, expertly turning our processes into slick system functionality. Their patience, understanding and "one team" approach to this project facilitated a free-flowing, inclusive environment. Hitachi Solutions' expert technical teams have delivered a great user experience, employing creative thinking to deliver to our often complex requirements."

Daniel Saward

OIA Head of Digital Technology



"DHSC collaborates closely with Hitachi Solutions LTS, emphasising the significance of our enduring partnership characterised by collaborative teamwork and mutual trust. Operating with a framework of high trust and capability, Hitachi Solutions ensures the delivery of quality and excellence to DHSC. Hitachi Solutions should be very proud of their track record in DHSC."

Bryan Rayner

Head of IT Business Systems



"Right from the start, we recognised in Hitachi Solutions a potential partner that would listen to us and really recognise the value of what we were trying to achieve, the lifesaving benefits of what we were trying to build and support."

Alex Duncan

Chief Technology Officer



Centre for Environment
Fisheries & Aquaculture
Science



Department
for Environment
Food & Rural Affairs



Valuation Office
Agency



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& Customs



Rural Payments
Agency



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