



Safeguard Engineering

Service
Definition Document

Data Preparation, Migration and Archiving Services

Contents

Data Preparation, Migration and Archiving Services	3
About Safeguard Engineering	3
Service summary	3
Service features	3
Service benefits	3
Value proposition	4
Detailed service definition.....	4
Why Safeguard Engineering?.....	5
Our capability	5
Our experience.....	5
Our delivery.....	6

Data Preparation, Migration and Archiving Services

About Safeguard Engineering

Safeguard Engineering Limited is an independent, employee-owned engineering consultancy delivering impartial safety, environmental and engineering expertise across Defence, Maritime, Land, Aviation, and Commercial sectors. We integrate best practices and foster innovation, building enduring collaborative relationships with our customers and enabling them to reduce risks, increase sustainability and make informed decisions.

Service summary

We profile and cleanse data to transform it into standardised formats for target environments to use effectively. Our tailored migration strategies provide seamless transfer with integrity checks, while secure and long-term archiving meets compliance and reduces costs. Post-migration validation aims to improve accuracy, usability, and governance.

Service features

- Evaluation of data to identify duplication, missing values, and inconsistencies.
- Validate, standardise, and enrich data, supporting compliance with industry standards.
- Design and execute migration strategies for accurate, low-downtime transfers.
- Move data from legacy systems to modern platforms seamlessly.
- Develop secure, scalable pipelines connecting systems for unified data access.
- Implement metadata standards to enhance discoverability and governance.
- Defence specific with knowledge of JSP 441, 440 and 453.
- Application of ISO/IEC 8000, 15489-1, 14721, 25012 and 27001.
- Deploy compliant archiving solutions for long-term data retention.
- Enable future-proof data strategies supporting digital transformation goals.

Service benefits

- Eliminates duplication and inconsistencies, supporting accurate, reliable decision-making.
- Streamlined migration and integration reduce downtime and accelerate transformation.
- Enables secure, scalable data flows supporting long-term digital strategies.
- Supports compliance with data standards and regulatory requirements throughout.

- Improves data quality, reducing errors and operational risks.
- Delivers secure, scalable solutions for long-term data retention.
- Enhances governance through metadata and audit processes.
- Optimises storage costs with efficient archiving strategies.
- Future-proofs data assets for digital transformation initiatives.
- Provides full validation and reconciliation for data integrity assurance.

Value proposition

Safeguard Engineering Limited helps organisations unlock the full potential of their data through secure, accurate, and future-ready solutions. Our end-to-end services include data preparation, migration, and archiving to support integrity, compliance, and scalability, enabling seamless transitions and optimised governance for long-term success.

Detailed service definition

Safeguard Engineering Limited's delivery model combines industry best practices, secure technologies, and proven frameworks to support successful outcomes for our clients. We address common data challenges such as duplication, inconsistencies, and obsolete records through comprehensive profiling and cleansing, followed by transformation into standardised formats suitable for target environments effectively.

Our approach aligns with internationally recognised standards to guarantee quality and security. ISO 8000 guides our master data management practices, ensuring completeness and consistency during preparation. We adopt the ISO/IEC 25012 Data Quality Model to validate accuracy and integrity and embed ISO/IEC 27001 principles to secure data transfer throughout migration. For archiving, we follow ISO 15489-1 for records management and ISO 14721 Open Archival Information System (OAIS) for long-term digital preservation, supporting our clients with compliance and accessibility.

We are experienced in the specific complexities and constraints of data and information management within the Defence sector. Our team use their previous experiences as data owners, and users within the Ministry of Defence, combined with their knowledge of policy such as JSP 453 (Digital Policies and Standards for Defence) and JSP 441 (Managing Information in Defence) and JSP 440 (The Defence Manual of Security) to provide a service that is tailored to Defence.

Our team structures, formats and organises the data for a full analysis, we design and execute tailored migration strategies to move data from legacy systems or multiple repositories into modern platforms with minimal disruption and full integrity checks. Securely archiving historical or inactive data to provide a long-term retention of historical data in compliance with regulatory and the organisations requirements, using scalable technologies that maintain accessibility while reducing storage costs.

Post-migration, we perform validation and audit processes, including reconciliation reports and quality checks, in support of accuracy, completeness, and governance. This end-to-end approach empowers organisations to optimise data usability, support digital transformation, and future-proof their information assets.

Why Safeguard Engineering?

Safeguard Engineering Limited is an independent safety and environmental engineering consultancy providing specialist engineering advice and cloud consultancy services across Defence, Maritime, Land, Aviation, and Commercial sectors. We are completely impartial, cost effective and always operate with integrity and trust.

We employ a dedicated team of over 60 consultants consisting of highly experienced data scientists, engineers, environmentalists and ex-defence personnel from diverse disciplines, including safety engineering, marine engineering, aviation safety, weapons and explosives safety, nuclear power systems, digital systems, Air Traffic Management, Artificial Intelligence, Autonomy, and environmental sciences.

The vast majority of our staff are security cleared to at least SC, with a number holding DV clearance. Our processes enable us to handle sensitive and classified information, and to separate teams as necessary to ensure compliance with security and any potential conflict of interest requirements. Our IT systems are certified to Cyber Essentials Plus.

Our capability

Our capabilities span the full project lifecycle, from early-stage concept and feasibility studies through to design, assessment, operation, and eventual decommissioning and disposal. We deliver systems safety and environmental management, including specialism in assurance of autonomous systems and other systems with complex digital requirements. We also provide expertise in a wide range of related services, including cyber risk assessment, data cleansing and migration, data governance and AI assurance, and independent safety audits. Our consultants possess deep knowledge of relevant standards, regulations, and best practices, ensuring that our clients achieve compliance while not compromising on innovation and operational effectiveness. We are independent of any solution or hardware provider, ensuring that our advice is always impartial.

In addition to our core staff, we are able to reach back into our network of trusted associates and specialist partners, ensuring that we can scale our services and bring in additional niche expertise as required to meet any client challenge

Our experience

Safeguard's expertise includes supporting complex Defence acquisition, upgrade and in-service projects for land, sea, and air platforms. We have a proven track record in delivering support for military vehicles, ships, submarines, aircraft, weapon systems,

unmanned systems, and a range of Defence facilities. Our consultants are adept at navigating MOD and international defence standards, supporting equipment certification, and working closely with both government and industry stakeholders. We provide specialist assurance support for digital and software-intensive systems, addressing emerging risks associated with automation, autonomy, cyber security, and system integration.

Our delivery

It is of utmost importance to us that we always keep our commitments and ensure that customer expectations are met - and wherever possible, exceeded. Every project has an assigned project manager who takes responsibility for delivery, supported by senior members of our team who ensure that quality processes are being followed and that the delivery approach is appropriate. Our blend of expertise and experience enables us to bring a practicable but forward-thinking approach to all of our work, underpinned by highly motivated team. Our quality management system is certified to ISO 9001. Our high rates of repeat work and continued strong rate of growth as a business stand testament to the quality of our output.



Safeguard Engineering

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