



Safeguard Engineering

Service
Definition Document

Data Cleanse, Migration and Integration

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Data Cleanse, Migration and Integration

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

Delivers end-to-end data cleansing, migration, and integration services to ensure data quality and system interoperability can be combined with all the organisations data. Our approach addresses common issues such as duplication, incomplete records, and inconsistent formats, applying robust validation and transformation processes to optimise data quality.

Service features

- Conduct thorough review of data identifying gaps, duplication, inconsistencies.
- Remove redundant records, correct errors, standardise formats for reliability.
- Develop tailored migration plans with risk assessment and mitigation strategies.
- Transfer data from legacy systems with minimal disruption.
- Enable unified data access and reporting across all connected systems.
- Deliver comprehensive audit trails for compliance and transparency.
- Verify migrated data and test performance to confirm successful integration.
- Provide user training and support for effective data utilisation.
- Application of ISO/IEC 25012, ISO/IEC 27001 and ISO 8000.
- Defence specific with knowledge of JSP 441, 440 and 453.

Service benefits

- Improved Data Quality: Eliminates duplication and errors for reliable information.
- Operational Efficiency: Streamlined data flows reduce manual work, increasing productivity.
- Risk Mitigation: Structured planning and validation minimise migration-related risks effectively.
- Future-Ready Architecture: Enables organisations to modernise systems and analytics capabilities.
- Compliance and Security: Ensure governance and regulatory adherence throughout process.

- Scalable Solutions: Adapt easily to growing data and systems.
- Cost Savings: Reduce inefficiencies and avoid migration errors.
- Business Continuity: Minimise downtime during migration and integration.
- Improved Collaboration: Centralised data enables seamless teamwork and shared insights.
- Enhanced Decision-Making: Gain clear insights from accurate, real-time data.

Value proposition

At Safeguard Engineering Limited we empower organisations to unlock the full potential of their data by delivering secure, accurate, and future-ready solutions. Our end-to-end data cleansing, migration, and integration services eliminates duplication, corrects inconsistencies, and ensures data integrity, providing a single source of truth.

Leveraging industry best practices, proven frameworks, and secure technologies, we guarantee seamless transitions with minimal disruption, enabling organisations to confidently move forward with trusted, high-quality data.

Key Benefits:

- Accuracy & Consistency: Reliable data for operational excellence.
- Futureproofing: Scalable solutions that support growth and transformation.
- Risk Reduction: Secure processes that minimise downtime and errors.
- Strategic Alignment: Solutions designed around your organisation's objectives.

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 focus on improving data quality by tackling common data challenges such as duplication, incomplete records, and inconsistent formats and move it into a new environment where it can be combined with other systems through robust validation and transformation processes, optimising data quality at every stage.

Our approach is aligned with internationally recognised standards to guarantee quality and security. ISO 8000 guides our master data management practices, ensuring completeness, consistency, and portability. We adopt the ISO/IEC 25012 Data Quality Model to define measurable characteristics such as accuracy, timeliness, and integrity, and we embed ISO/IEC 27001 principles to secure information transfer throughout migration and integration.

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 has successfully delivered these services to numerous clients across diverse sectors. What truly sets us apart is our collaborative approach, we work closely with customers to understand their objectives and tailor solutions that align with their organisational goals.

Our end-to-end data cleansing, migration, and integration services aims to improve the accuracy, consistency, and usability of your data, while futureproofing it to support your organisation's growth and transformation.

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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