

DXC Regulatory AI Engine — Intelligent Contracts Compliance Solution

For today's insurance and financial services companies, staying compliant with ever-changing regulatory mandates and policies is extremely challenging. Manually tracking the impact of frequent mandate-driven changes across thousands of documents is time consuming and tedious.

To help ensure that your contractual documents evolve in real time, DXC Technology partnered with Amazon Web Services (AWS) to develop the DXC Regulatory AI Engine — Intelligent Contracts Compliance Solution. This unique solution uses the powerful capabilities of AWS to automate the process of scanning and comprehending regulatory content across thousands of existing documents to identify the impact of new mandates. Leveraging advanced machine learning algorithms, the solution quickly adapts documents to new regulations so that contracts remain compliant.

The solution's ability to swiftly process large volumes of documents enables organizations to respond rapidly to regulatory changes and adhere to laws, regulations, guidelines and specifications — and avoid penalties.

By automating compliance, DXC Regulatory AI Engine reduces human error and frees your workers to focus on more strategic activities, enhancing productivity and efficiency.

Solution highlights

DXC Regulatory AI Engine lets you:

- **Understand key changes quickly.** It reviews and summarizes new regulatory mandate documents to identify essential guidelines.
- **Assess impact and amend contracts.** It evaluates how the new guidelines affect existing documents, and recommends necessary amendments to specific sections in each contract.
- **Generate updates fast.** With the solution's automatic document updater, you can produce revised documents in multiple formats after compliance suggestions are reviewed and approved — streamlining the remediation process.
- **Customize updates.** The solution can be configured to address your specific regulatory compliance needs, document processing workflows and integration requirements.
- **Maintain standards.** Comply with regulatory requirements while ensuring data quality and process efficiency.
- **Keep information confidential.** Our layered security approach keeps your sensitive information confidential.

Key performance metrics

- **80% improvement in accuracy.** Enhanced compliance precision leads to significant reduction in regulatory errors and omissions, minimizing risk exposure and strengthening governance frameworks across regulated operations.
- **60% time savings.** Accelerated compliance processing, with dramatically reduced regulatory review cycles, enables organizations to respond swiftly to changing requirements while redirecting specialized talent toward strategic initiatives.



Solution overview

DXC Regulatory AI Engine's robust technical architecture ensures high efficiency, security and scalability, enabling seamless compliance maintenance. At the core of this architecture is the integration of selected AWS services that together form a comprehensive and secure framework for document compliance.

For easy and reliable access, our solution employs a secure, cloud-native architecture that intelligently processes regulatory and policy documents. Documents are stored in Amazon S3 and indexed by Amazon Kendra's enterprise search capabilities for precise information retrieval. The system leverages Anthropic Claude Sonnet through Amazon Bedrock to generate accurate, contextual responses to complex regulatory queries.

The infrastructure runs on Amazon ECS with comprehensive security controls implemented via AWS IAM and KMS, ensuring end-to-end encryption and maintaining strict compliance with regulatory standards.

Security is paramount in this architecture, with AWS Identity and Access Management (IAM) and Key Management Service (KMS) ensuring

that all data and processes are protected. IAM manages secure access to the AWS resources, while KMS handles encryption keys to protect data at rest and in transit. The Streamlit app integrated with CloudFront also aids in security by providing data encryption and protecting content delivery. This layered security approach means that sensitive information remains confidential and compliant with regulatory standards.

By using AWS' scalable and secure infrastructure, DXC Regulatory AI Engine efficiently handles large volumes of documents along with complex compliance requirements. This improves productivity and accuracy, and provides banks and other financial organizations with a reliable, secure means of staying compliant with evolving mandates. The integration of these advanced AWS services ensures that the solution is both robust and flexible, capable of adapting to the dynamic regulatory landscape in the financial sector.

Business benefits

Companies using DXC Regulatory AI Engine can expect:

- Reduced manual effort in identifying specific changes needed in contractual documents
- Faster analysis and processing of documents with generative AI
- Improved compliance accuracy and reduced risk of regulatory penalties
- Enhanced productivity by allowing staff to focus on strategic activities
- Scalable solution that adapts to changing regulatory requirements

DXC and AWS

DXC has been an AWS Premier Consulting Partner for over 5 years. We are recognized by AWS for our competency in generative AI and by ISG as a Leader among AWS Ecosystem Partners.

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