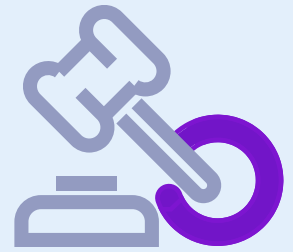




The Future of

Voice Technology in Financial Services: A 5-Year Outlook Amid Regulatory Evolution



Collaboration
& Compliance

Why Data-Driven, AI-Enhanced Voice Technologies Are Critical for Regulatory Readiness, Risk Management and Operational Agility

Overview

Voice technology, once confined to basic call recording in contact centres and compliance archives, is undergoing a major evolution in financial services. As global regulatory pressure increases—particularly around conduct risk, communications surveillance, and regulatory record-keeping—investment firms, banks, and financial institutions are accelerating investment in voice technologies that go far beyond capture.

Over the next five years, voice compliance systems will transform from passive tools into intelligent, real-time platforms powered by AI, capable of enhancing governance, improving operational insight, and even unlocking revenue opportunities. This whitepaper explores the regulatory shifts, technology advancements, and strategic actions required for compliance and operations teams to stay ahead.

Voice Compliance in a Global Regulatory Context

Across key financial jurisdictions—including the EU (MiFID II), UK (FCA SYSC 10A), US (Dodd-Frank, FINRA), and Asia-Pacific (ASIC, MAS)—voice communication remains a mandatory part of regulatory oversight. Since 2020, regulatory focus has shifted toward how communications are conducted, not just the transactions themselves. This shift places new emphasis on tone analysis, intent detection, and complete audit trails.

Looking beyond 2025, compliance mandates are expanding to cover encrypted VoIP, mobile apps, and platforms like Microsoft Teams, Zoom, and WhatsApp. There is increasing demand for real-time analytics, data localisation, and automated flagging of high-risk conversations. Financial institutions must now treat voice as a regulated data source requiring governance, protection, and proactive oversight.



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Technological Advancements Driving Change

Voice compliance is being reshaped by a wave of innovation. AI-powered transcription and natural language processing (NLP) are significantly improving speech accuracy—particularly in finance-specific language and multi-language settings. Near-instant transcription now enables alerts for potential regulatory breaches as conversations happen.

Meanwhile, voice-to-risk engines can detect signs of market manipulation, unauthorised communication, or collusive behaviour, integrating seamlessly with email, chat, and trade data systems. Voice biometrics is emerging as a critical security and compliance tool, enabling secure speaker verification and fraud prevention—particularly in onboarding and transaction approval processes.

In hybrid working environments, secure cloud-native recording and edge-capture tools are becoming essential. These systems encrypt voice at source, tag it with compliance metadata, and upload securely to regulated cloud storage, supporting both centralised



Use Cases Across the Financial Services Landscape

In investment banking, real-time monitoring of trading floor conversations is now used to detect and mitigate market abuse. By correlating voice data with algorithmic trading systems, compliance teams can surface high-risk behaviours before they escalate.



In wealth management, voice-driven CRM entry, semantic indexing, and sentiment analysis help advisors better understand client needs and manage suitability risk. These tools support both compliance teams and client-facing teams with consistent, auditable communication records.

For retail and digital banks, AI-powered virtual agents and voice assistants are reshaping customer service and transactional flows. Voice authentication linked to biometrics enhances security and supports FCA consumer duty obligations by ensuring personalised, emotionally intelligent support.

Challenges to Adoption and Compliance Readiness

Despite clear benefits, many financial institutions face challenges in adopting modern voice compliance technologies. Data privacy laws, such as GDPR, CCPA, and PDPA, restrict how long recordings can be retained and how they can be used for analytics. Institutions must clearly define and obtain consent for any automated surveillance or voice-based AI use.

Legacy infrastructure poses another hurdle. Many firms still rely on outdated telephony and voice storage systems that cannot support real-time analysis or secure, distributed recording. This complexity is compounded by on-prem/cloud hybrid environments, increasing the risk of compliance gaps.

Talent is also a constraint. There is a growing shortage of professionals with expertise in both voice AI technologies and financial compliance. Integrating voice intelligence into existing GRC (Governance, Risk, and Compliance) systems requires both deep domain knowledge and technical skill—an intersection that remains hard to staff.

Strategic Recommendations for Compliance Leaders

To stay ahead, financial institutions should adopt flexible, API-driven voice compliance platforms that can integrate with existing CRM, trade surveillance, and communication systems. These modular systems allow for quicker deployment, regional adaptation, and scaling across jurisdictions.

Prioritising real-time monitoring over retrospective batch analysis is key for modern conduct risk detection. Alerts generated during live conversations enable faster remediation and better oversight of front-office behaviour.

Governance must evolve too. Building cross-functional teams—combining compliance, operations, and technology leadership—ensures that voice data is used ethically, transparently, and in alignment with global regulations.



Finally, firms must implement a clearly defined voice data lifecycle policy. This includes how voice data is captured, enriched with metadata, analysed, stored, anonymised, and eventually deleted. Regulatory expectations are moving toward demonstrable control and visibility over the full data journey.



Get ahead and stay ahead with Kerv

In the global financial services industry, voice technology is moving from the back room to the boardroom. It is no longer simply a compliance checkbox—it's a strategic layer for managing regulatory risk, enhancing operational oversight, and improving customer engagement.

Over the next five years, augmented voice intelligence will transform how conversations are captured, analysed, and governed. Compliance and operations leaders who act now—by modernising infrastructure, adopting AI-driven tools, and integrating governance—will gain both regulatory resilience and a competitive edge.

Kerv understands that achieving this transformation requires more than implementing the latest tools. It demands deep sector expertise, innovative approaches, and practical experience across global markets. By combining AI-powered voice analytics, secure cloud-native infrastructure, and robust governance frameworks, Kerv enables institutions to capture, analyse, and protect voice data at scale—while remaining fully aligned with evolving regulations across the UK, EU, US, and APAC.

Our approach is rooted in strategy as well as technology. We guide compliance and operations leaders to implement modular, API-driven platforms, embed real-time monitoring, and operationalise voice intelligence in a way that is ethical, transparent, and audit-ready. From trade surveillance and conduct risk management to client engagement and fraud prevention, Kerv ensures that every voice interaction becomes a controllable, actionable asset.

Get ahead and stay ahead with Kerv.

This paper is one of four that aims to explore the evolution of voice regulations and how voice recording technologies have adapted to keep Financial Institutions compliant and fully prepared when the auditors require evidence of this.

Visit our website or click on the links below to download the others in this series:

- ▶ The Case for Separating Capture and Assurance
- ▶ The Future of Voice Recording Regulation For Financial Institutions
- ▶ The Case for Normalisation in Voice Recording Systems

The Kerv logo is written in a lowercase, rounded, purple font.

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