





Telecom Leader Transforms CX with Agentic Al-Led Genesys Cloud Migration

A leading telecommunications provider operating one of the largest contact-centre environments in the UK supports millions of customer interactions annually across retail, broadband, mobile, and enterprise services. As part of a multi-year CX modernization programme, the organization initiated a strategic migration from Genesys On-Prem to Genesys Cloud to enable cloud-native, scalable customer engagement.

Highlights

- The client needed to modernize complex, high-volume contact-center operations while migrating from legacy telephony to Genesys Cloud, without disrupting service quality.
- iOPEX implemented a governed Agentic CX architecture, unifying telephony, CRM,
 knowledge, and workflows through Data Studio, AgenticAl Studio, and Runtime + AgentOps.
- The solution enabled up to 40% reduction in call volumes and handling times on critical desks, with 65% autonomous resolution of transactional queries and materially improved agent productivity and consistency.

Business Challenges

As part of its enterprise-wide CX modernization agenda, the client was migrating from legacy onpremise contact-center infrastructure to a cloud-based engagement platform. While the transition was foundational to long-term agility, it surfaced immediate operational challenges:

The organization was migrating from Genesys On-Prem to Genesys Cloud as part of a broader CX modernization initiative, introducing new orchestration requirements across telephony, CRM, and workflow systems.

Frontline agents operated across fragmented environments, Genesys, ServiceNow, Salesforce, and legacy tools, requiring manual context switching that increased handling time and reduced first-contact resolution.

High volumes of policy-driven and transactional queries (contracts, diagnostics, service eligibility) consumed disproportionate capacity on critical service desks.

Native Genesys
Cloud ↔
ServiceNow
agent-to-agent
(A2A) integrations
were not yet
available, limiting
seamless
workflow handoffs
and real-time
context
propagation.

To meet its target of materially reducing call volumes and average handling times, the client required an intelligence layer capable of real-time orchestration across systems, rather than incremental automation within individual tools. The client needed intent interpretation, policy-driven actions, and autonomous query resolution. They also needed a cloud-native, event-driven architecture capable of scaling across their vast CX operations.

Case Study | 01 www.iopex.com

iOPEX Solution

iOPEX implemented a **platformized Agentic CX architecture** designed to operate as a system of engagement across the client's cloud contact-center ecosystem.

Embedding the Intelligence Layer: ElevAlte Data Studio

Purpose

Create a unified, real-time CX knowledge and data foundation that Agentic CX Agents could rely on for fast, contextual, and consistent decision-making across voice and digital interactions.



Unified Ingestion Fabric

- Ingested Genesys voice interactions and AudioHook streams for real-time conversational context.
- Connected customer account and case context from ServiceNow.
- Integrated transactional, entitlement, and contract data from **Salesforce**.
- Unified policy repositories, diagnostic trees, troubleshooting knowledge, interaction histories, and resolution outcomes.



Semantic CX Intelligence

- Intent-indexed semantic retrieval across
 CRM, service, and knowledge systems.
- Entity and relationship mapping across customer + product + policy + workflow.
- Contextual enrichment of live voice interactions using metadata and historical outcomes.

Outcome

A real-time CX intelligence backbone connecting **Genesys telephony CRM a workflows a knowledge**, enabling decision-ready context for every interaction.

Case Study | 02 www.iopex.com

Designing Voice and Digital Command Agents: AgenticAl Studio

Purpose

Build domain-specialized CX Command Agents capable of interpreting telecomspecific intent, executing actions, and managing escalation across high-volume contact center operations.

Command Agents Built

- Voice Command Agents for real-time audio interpretation
- Next-Best-Action Agents for policy-based decisioning
- Escalation & Routing Agents for workflow handoff
- Unified Workspace Assist Agents for chat/digital

Agent Studio Features Used

- Multi-modal prompts (audio + text + metadata).
- Cross-system tool calling.
- Policy alignment via governance templates.
- Real-time prototyping of voice-to-action flows.

Agent Capabilities

- Interpret intents from Genesys AudioHook streams.
- Automate policy-driven actions (contract retrieval, lookups, diagnostics).
- Pull contextual data from ServiceNow & Salesforce dynamically.
- Make autonomous decisions for transactional queries.
- Trigger escalations for human "super agents" with full context.

Outcome

A suite of Agentic Voice & Digital Agents capable of resolving queries autonomously or handing off with full context.

Case Study | 03 www.iopex.com

Automating Execution with Governance: Runtime + AgentOps

Purpose

Enable end-to-end, cloud-native orchestration across Genesys Cloud, CRM, and service systems with built-in governance and human assurance.



Autonomous Workflow Execution

- End-to-end coordination across Genesys Cloud,
 ServiceNow, and Salesforce.
- Real-time context assembly for voice-driven action flows.
- Multi-system updates via API orchestration.
- Transparent escalation with context persistence.



AgentOps Governance Layer

- Confidence scoring for every autonomous action.
- Guardrails for regulated or sensitive operations.
- Human-in-the-loop assurance paths for high-impact cases.
- End-to-end audit trails for voice-driven decisions.



Connected Systems

- Genesys Cloud (AudioHook, telephony)
- ServiceNow (case management, CRM context)
- Salesforce (contracts, entitlements)
- Knowledge and policy repositories

Outcome

A fully governed, event-driven CX orchestration layer capable of operating at telecom scale.

Case Study | 04 www.iopex.com

Agent Classification

Agent Type

System-of-Engagement (SoE) Agentic Architecture

Full cross-system orchestration across telephony, CRM, and workflow ecosystems.

Autonomy Level

L3 Governed Autonomy

- Autonomous resolution for transactional queries
- Human-in-the-loop for complex or regulated operations

Systems Connected

- Genesys Cloud
- ServiceNow
- Salesforce
- Knowledge and policy systems

The Impact

The Agentic CX transformation delivered measurable improvements across efficiency, service quality, and operational resilience.

Efficiency Gains

- Up to 40% reduction in call volumes and handling times on critical desks.
- 65% autonomous resolution of transactional service queries.
- Reduced re-explain and context-gathering time during escalations.

Quality Customer Experience

- Faster, more accurate intent-based routing.
- Lower customer friction through reduced repetition.
- Stronger consistency via policy-aligned automation.

Operational Impact

- Reduced complexity through decoupled legacy systems.
- Modernized CX foundation enabling faster product and service launches.
- Unified data layer powering future Al accelerators.

Strategic Outcome

The client unlocked a future-proof, omnichannel Agentic CX platform aligned to their modernization goals.

Case Study | 05 www.iopex.com



About iOPEX

iOPEX Technologies is a new-generation agentic AI and automation-led enterprise transformation partner headquartered in San Jose, California. At the intersection of enterprise operations, agentic AI, and intelligent automation, we deliver Intelligence as a Service, helping organizations embed intelligence directly into workflows for measurable impact. Over 70 global brands trust iOPEX to transform operations, accelerate revenue growth, and unlock value at scale. Contact us at marketing@iopex.com.





