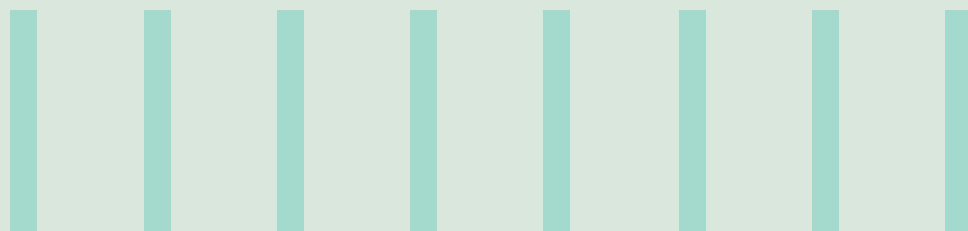


# AI-LED CONVERSATION ORCHESTRATION (AILCO)

## ORCHESTRATING THE DYNAMICS OF CUSTOMER CONVERSATIONS WITH MICROSOFT



### Abstract

This White Paper explores how AI-led innovations are reshaping customer service experiences and the manner in which conversations with customers can be managed and improved. The article explains how AI-driven orchestration is transforming customer engagement by addressing fragmented interactions and enabling seamless, context-aware service experiences.

# The Evolution of Customer Service Models

Early customer service models were entirely dependent on customer-initiated actions. Customers were required to visit physical service desks or place phone calls to obtain assistance, bearing full responsibility for initiating contact and clearly articulating their service needs. By the early 2000s, this model began to evolve as organizations introduced additional engagement channels such as email, online portals, and live chat. While these channels improved accessibility and convenience, they operated largely in silos, resulting in fragmented experiences and limited continuity across interactions.

Gartner's 2026 survey of customer service leaders indicates that organizations are increasingly redesigning service models around AI to reduce customer effort and deliver more seamless service journeys<sup>1</sup>. The emergence of AI-driven technologies has significantly raised customer expectations, with customers now demanding seamless continuity, contextual engagement, and outcomes tailored to their preferences across channels. Further, Forrester research highlights that these outcomes cannot be achieved through isolated AI deployments alone, emphasizing the need for orchestration to preserve context and continuity across customer interactions<sup>2</sup>.

## Why Contemporary Interaction Management Falls Short in the Age of AI

In many organizations, interaction history exists but remains fragmented across systems and therefore does not translate into continuity during subsequent interactions. These challenges are not isolated but occur across the conversation lifecycle - Interaction purpose is not captured consistently at the entry point, assignment does not reliably use historical data, customer behaviour pattern, and advisors lack an embedded unified view with intent-driven knowledge and guidance. Following conversation lifecycle steps explain in detail how these challenges affect the customer experience.

### Step 1: Establishing Purpose and Context

At the point where conversations begin, these limitations surface immediately. Customers engage across multiple channels expecting continuity, yet service interactions often begin with fragmented entry experiences. They are frequently required to repeat information; self-service journeys are generic rather than contextual, and purpose is not consistently established at the start of the interaction. Consequently, customers are required to repeatedly articulate the purpose of their inquiry prior to having their request addressed.

### Step 2 - Translating Purpose into Effective Assignment

As conversations advance, these limitations persist throughout the assignment process. Although purpose may be determined, assignments are frequently made without adequate consideration of previous conversational context or resolution history. Work is distributed efficiently, but not always effectively, resulting in avoidable transfers and repeat contacts.

### Step 3 - Delivering Consistent and Efficient Resolution

At the point of resolution, these limitations become most visible. Interactions reach advisors with continuity of engagement, but without a consolidated, actionable view of what has already occurred. Advisors must reconstruct context across systems and rely on individual experience to determine next steps, resulting in variable customer experience.



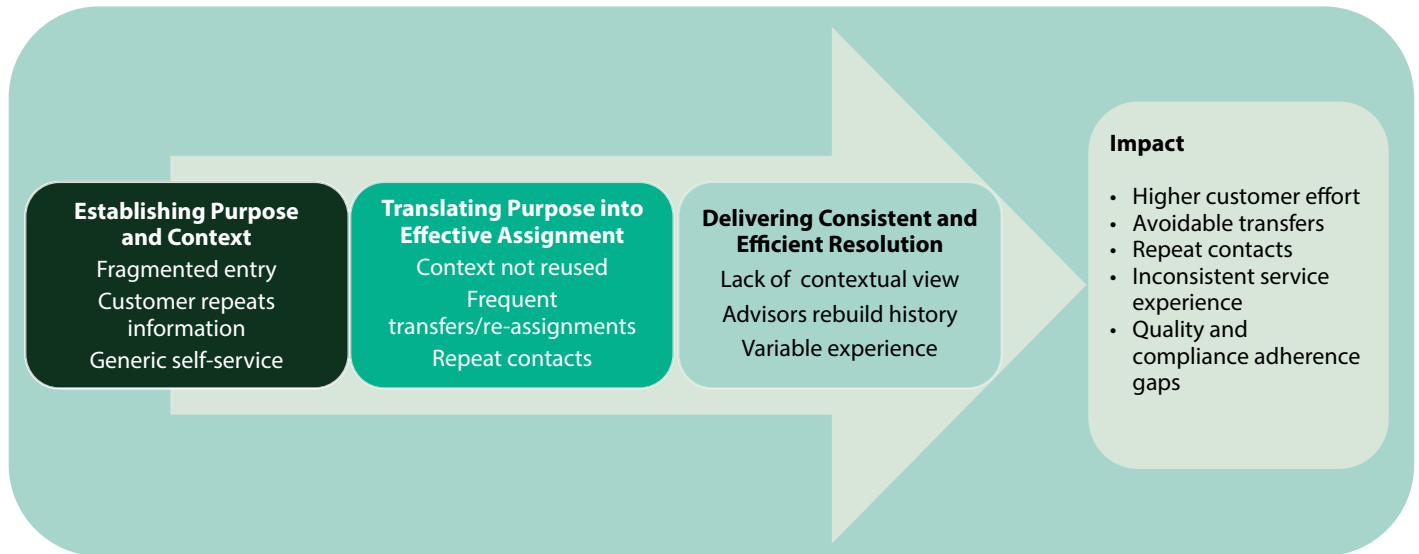


Figure 1 – Typical challenges in a conversation lifecycle

In summary, following are the key challenges an organization encounters in the conversation lifecycle:

- Omnichannel enables multiple entry points, yet purpose and context are not established at the start of the interaction.
- Conversations get assigned, but still lack outcome-aware context.
- Service outcomes vary because context is reconstructed by advisors, not delivered.

Addressing these persistent challenges requires a comprehensive model that fully integrates purpose, assignment, and resolution throughout every stage of the customer conversation lifecycle. By replacing fragmented service interactions with a unified, intelligent framework, organizations are empowered to deliver seamless, insight-driven experiences that consistently meet customer needs.

To address these challenges, AI Led Conversation Orchestration (AILCO) is introduced as an innovative operating model designed to unify and enhance every phase of the conversation lifecycle.

## Introducing AI-Led Conversation Orchestration

AI-Led Conversation Orchestration is an innovative operating model that seamlessly connects conversation purpose, intelligent assignment, and advisor enabled resolution. By embedding context at every stage, AILCO enables purposeful customer interactions, efficient task assignment, and consistent resolution, thereby creating a robust framework for seamless orchestration from initial engagement through final resolution. AILCO streamlines the conversation lifecycle by enabling:

### AI-led contextual self-service at entry

Conversational AI dynamically establishes purpose, identity, and recent journey context at the point of entry, using insights from prior interactions to shape a contextual, intent-aware experience. This reduces repetition and customer effort while guiding each conversation into the most relevant entry path.

### Outcome-aware, AI-guided assignment

AI continuously interprets interaction intent, sentiment, and historical context, alongside real-time workforce status, to recommend the most appropriate interaction assignment path. This AI decisioning improves continuity, minimizes avoidable transfers, and aligns work distribution to desired outcomes rather than simple efficiency.

### Advisor enablement through AI-driven assistance for consistent resolution

AI enables service advisors with a unified interaction view, intent-driven knowledge surfacing, real-time guidance, and contextual automation. This reduces context reconstruction, cognitive load, accelerates resolution, and enables more consistent outcomes while lowering post-interaction effort.

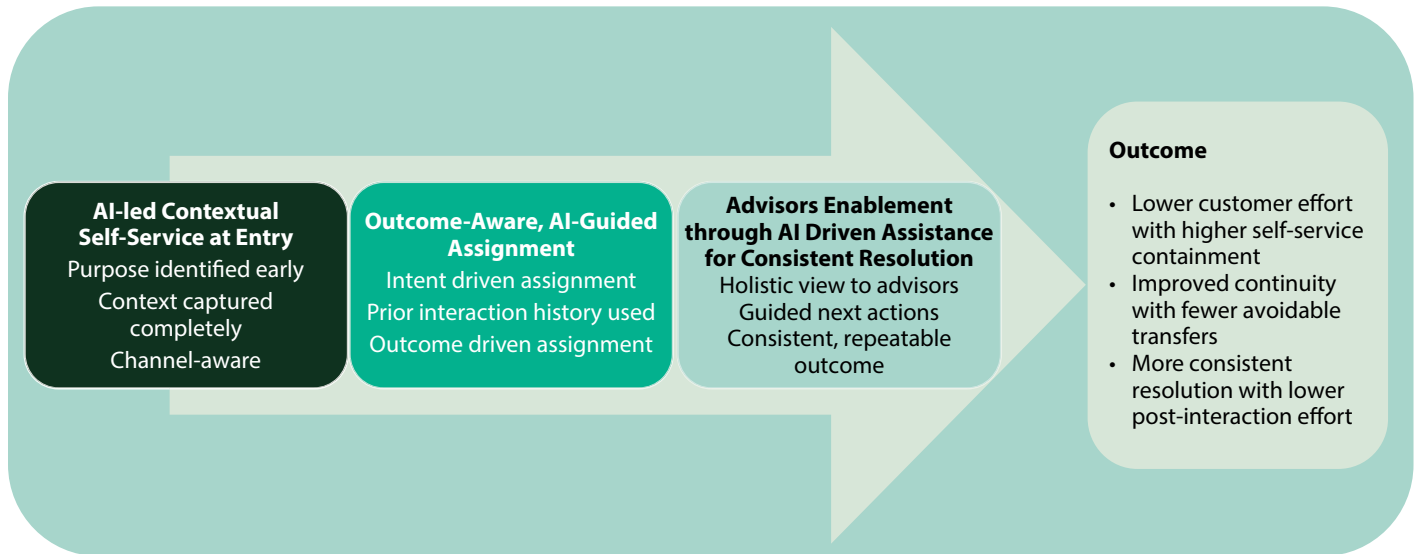


Figure 2 – AI-Led Conversation Orchestration model

AI-Led Conversation Orchestration (AILCO) is a flexible framework for managing large-scale, multi-channel customer interactions across any industry. This model structures the conversation lifecycle into three coordinated stages, Conversation Initiation, Intelligent Classification and Assignment, and Advisor Enablement and Resolution. To illustrate how AILCO delivers seamless and consistent experiences, unifying data sources serves as the starting point for effective conversation orchestration.

## Unifying Interaction Data – The Foundation for AILCO

While AILCO defines how conversations should be orchestrated, its effectiveness depends entirely on the quality and unification of interaction data that informs those decisions. These interaction data are typically dispersed across multiple systems. Consolidating these enables a holistic view of the customer journey and supports informed decision-making across the conversation lifecycle. Customer conversations offer several perspectives:

- Interaction purpose (services requested in recent and historical interactions).
- Sentiment (tone and language, including references to delayed or failed service).
- Customer effort (repetition across channels or advisors).

AILCO brings these perspectives together by unifying structured and unstructured data sources, spanning text-based interactions, voice and video engagements, customer transactional records, service outcomes, complaints and feedback and governed knowledge assets.

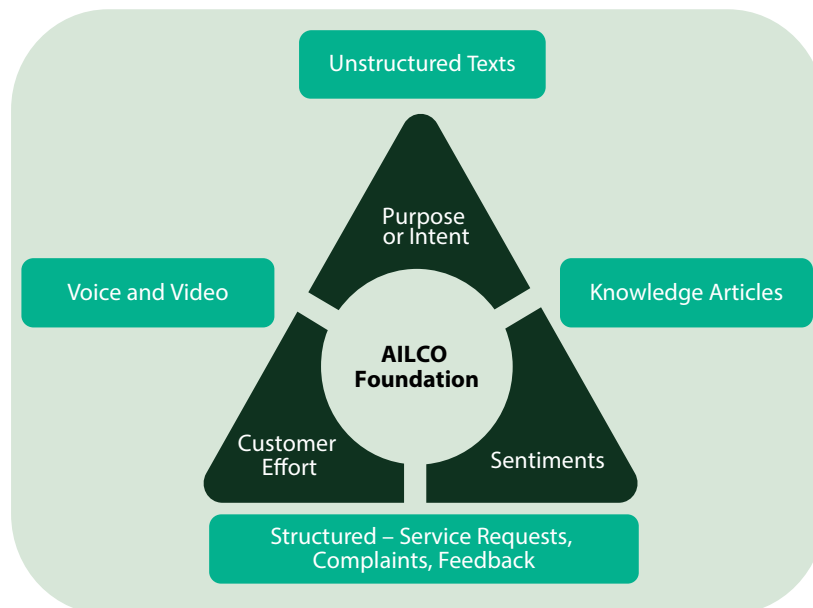


Figure 3 – Various interaction data sources in an organization

A robust data foundation enables efficient conversation orchestration and by consolidating interaction data sources, organizations establish contextual continuity required to manage conversations. The subsequent discussion describes how AILCO applies this foundation across its three operating stages.

## The Stages of AI-Led Conversation Orchestration

While customer interactions typically advance through distinct phases, achieving reliable, repeatable outcomes requires a methodical and structured approach. AILCO structures customer service into coordinated stages that manage context, decisions, and outcomes across the entire conversation lifecycle. The three stages of AILCO are described as follows:

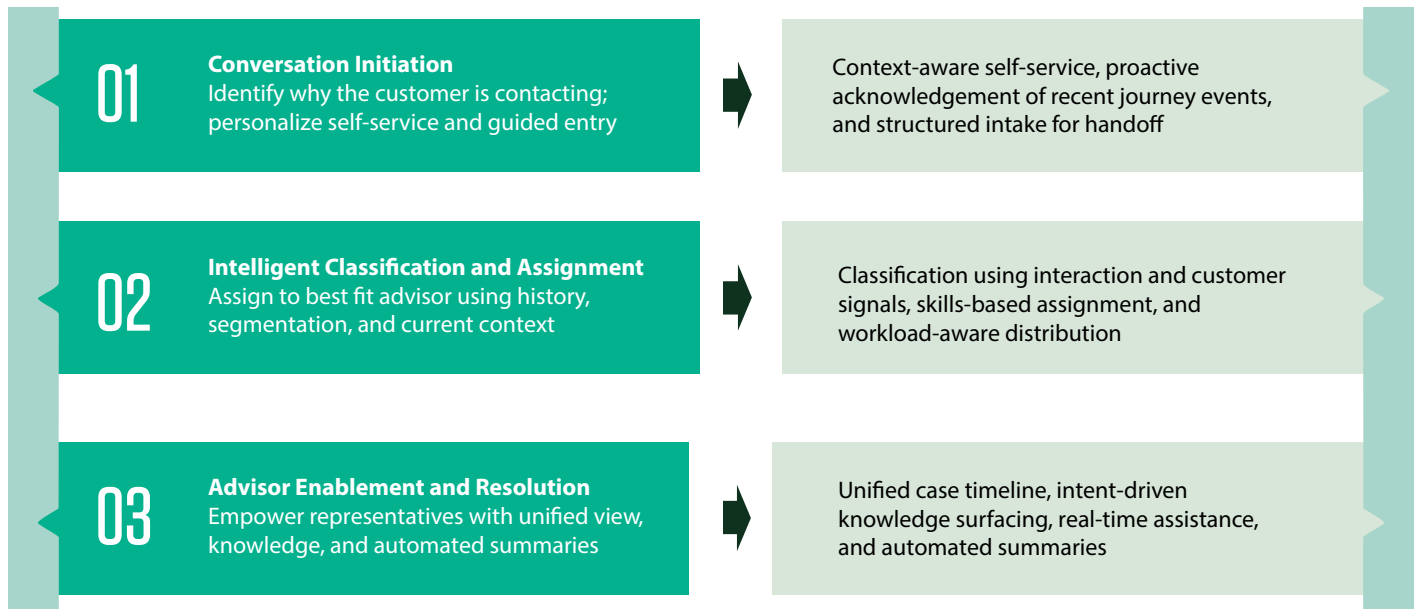


Figure 4 – Stages of AILCO model

### Stage 1: Conversation Initiation

This stage establishes a clear understanding of the 'interaction purpose' at the start of the interaction. By drawing on recent and historical conversation insights, AILCO identifies the reason for contact and shapes the initial experience accordingly. The objective is to reduce repetition, minimize customer effort, and ensure that context is established before the interaction progresses. AILCO uses these capabilities to define purpose and context at the beginning of the interaction:

- Self-service automation using both rule-based bots for standard FAQs and richer conversational experiences for complex, multi-turn requests.
- Context preservation across handoffs carrying forward identity, recent journey steps, and open cases when escalation to an advisor is required.

### Stage 2: Intelligent Classification and Assignment

This stage determines how the interaction should be managed once the reason for contact is understood. By applying conversation and contextual insights from historical interactions, AILCO evaluates each request and guides it to the most appropriate assignment path. The objective is to preserve continuity, reduce unnecessary handoffs, and increase the likelihood of timely and effective resolution. AILCO uses these capabilities to ensure every interaction follows the best handling path:

- Context-aware classification using interaction details such as intent, sentiment, and repeat-contact patterns.
- Outcome-oriented assignment that considers customer context, interaction history, and prior handling effectiveness.
- Workforce-aware distribution that aligns requests with the right resource to ensure consistent handling.

## Stage 3: Advisor Enablement and Resolution

This stage ensures consistent and efficient resolution when advisor assistance is required. By consolidating conversation context, intent insights, and relevant guidance within the advisor's workflow, AILCO enables advisors to serve customers efficiently and consistently. This stage ensures that outcomes are repeatable, compliant, and aligned with customer expectations. AILCO integrates these features into the advisor's workflow for reliable and predictable outcomes.

- A unified view of the conversation, presenting recent interactions, active intents, and customer effort indicators in a single workspace.
- Intent-driven knowledge and real-time guidance to support accurate, compliant, and consistent resolution.
- Automated summaries and next best action recommendations to reduce after-interaction work and support continuous improvement through analytics and coaching.

These stages form a closed-loop system, where context at the start guides assignments, resolution outcomes shape future interactions, and insights continually refine intent recognition and advisor guidance. By unifying intents, decisions, and outcomes, AILCO streamlines customer service improvements across conversations instead of relying on isolated optimizations.

## Operationalizing AILCO with Microsoft Dynamics 365

To transition from conceptual orchestration to operational implementation, organizations need a platform that seamlessly unifies engagement, routing, and resolution workflows. Microsoft Dynamics 365 enables the operationalization of the AILCO service model through integrated contact center and case management features, allowing organizations to maintain context and achieve consistent outcomes throughout the conversation lifecycle. The diagram below demonstrates how Microsoft Dynamics 365 utilizes its platform capabilities to implement the AILCO model at each stage.

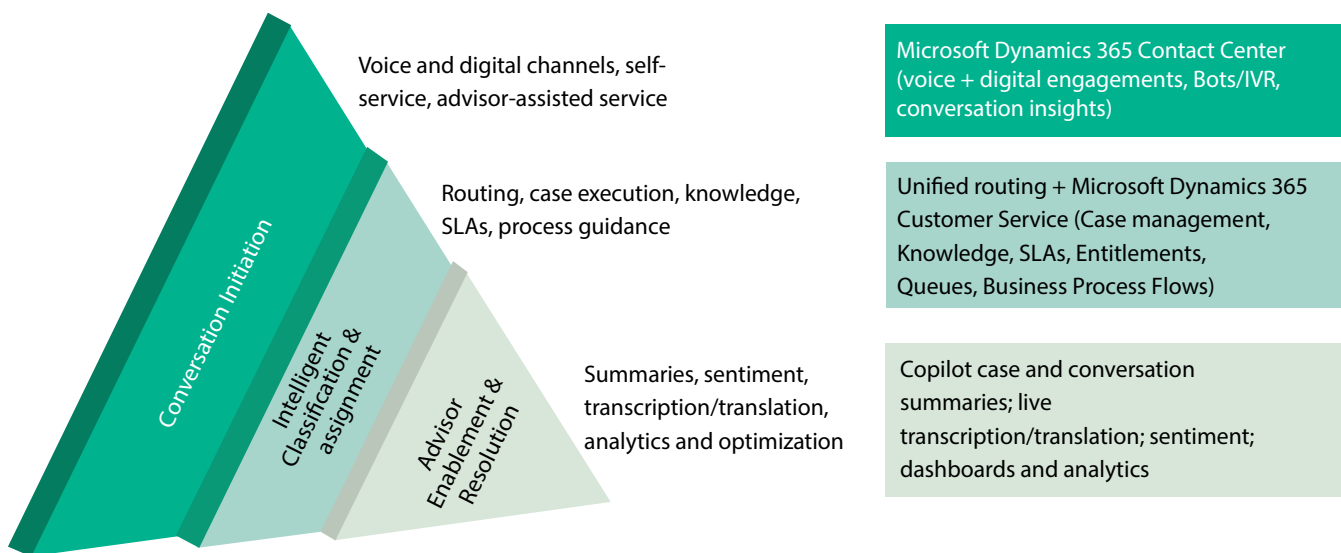


Figure 5 – Operationalizing AILCO with Microsoft Dynamics 365

### Stage 1: Conversation Initiation (Purpose and Context)

- Microsoft Copilot Studio enables chatbots and voicebots to capture intent, guide conversations, and hand off to advisors with transcript/context for continuity.
- Microsoft Dynamics 365 Contact Center captures voice and digital interactions as part of a unified interaction history and timeline, supporting consistent context at entry.

### Stage 2: Intelligent Classification and Assignment

- Unified Routing applies AI-driven work classification and policy-based decisioning, including expertise, capacity, shift alignment, and real-time presence, to assign each interaction to the most effective handling path while preserving continuity for returning customers.

## Stage 3: Advisor Enablement and Resolution

- Microsoft Dynamics 365 Customer Service supports case-centric execution with knowledge and service controls (e.g., SLAs), enabling structured handling and consistency.
- Copilot provides inflow assistance such as guidance, sentiment cues, suggested responses/next steps, and summaries to reduce after-interaction work and improve consistency.
- Supervisor dashboards and analytics provide visibility into operational performance, volumes, and trends, with extensibility through Microsoft Power BI.

Microsoft published customer studies indicate Microsoft Dynamics 365 Customer Service showing a 14% improvement in average call-handling-times alongside CSAT improvements in some contact centers<sup>3</sup>.

A Forrester Total Economic Impact™ study commissioned by Microsoft (Aug 2025) models that tighter integration of Microsoft Dynamics 365 Contact Center with Teams Phone can reduce voice-related downtime for contact center representatives by up to 55% and reduce call handling times by 13% to 40% in the composite analysis<sup>4</sup>.

The diagram below offers a visual representation of the Microsoft Dynamics 365 components involved throughout the customer service lifecycle.

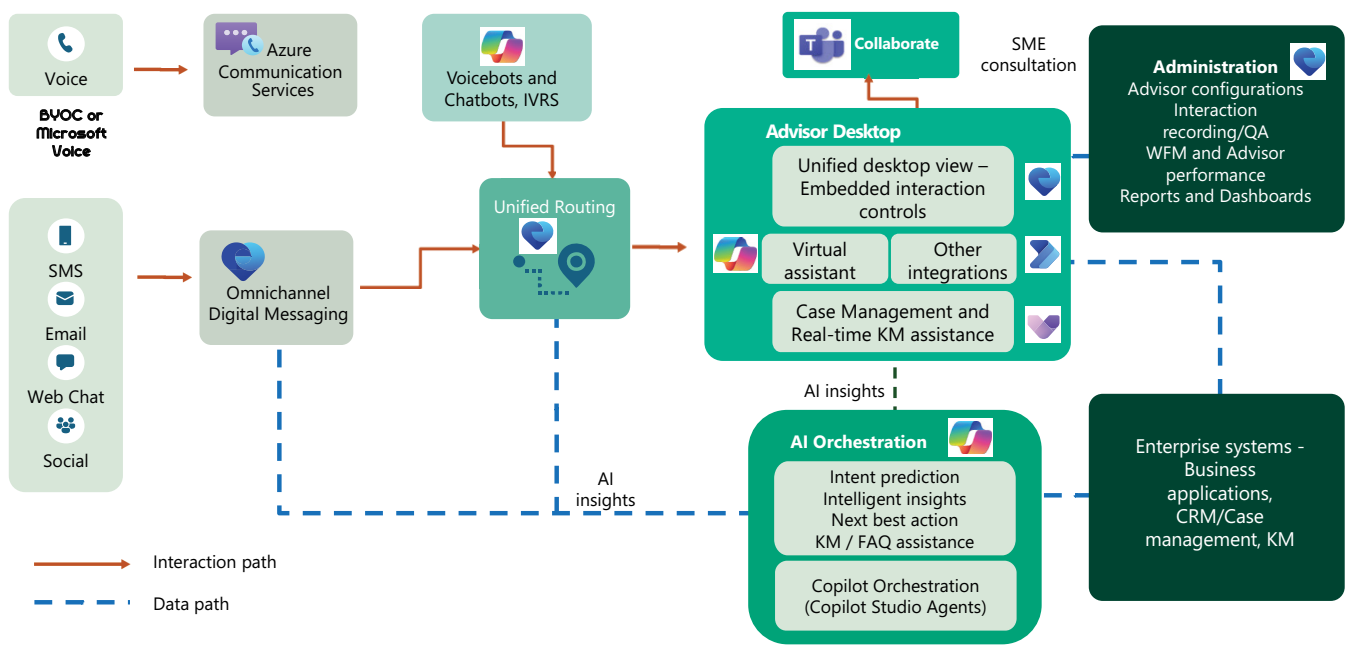


Figure 6 – Illustrative interaction flow for a Microsoft Dynamics 365 solution

## Implementing AILCO through Capability Led Adoption Waves

Effective AILCO implementation requires more than simply deploying capabilities; it necessitates a structured, phased methodology that fosters operational discipline, promotes data maturity, and builds trust in AI-supported decision-making over time. AILCO is implemented through phased, capability-focused adoption waves. Each wave builds cumulatively on the previous one, expanding orchestration scope without disrupting established operational stability. AILCO adoption typically progresses across three waves:

### Wave 1: Standardized Self-Service and Baseline Intelligence - Stabilize Cost, Effort, and Data

**Primary objective:** To establish operational stability and reduce avoidable demand while creating a reliable data foundation before introducing advanced AI-driven decisions.

Wave 1 concentrates on stabilizing customer service operations by addressing high-volume, low-to-medium complexity requests through standardized self-service and baseline AI capabilities. The emphasis is on consistency, controlled automation, and clean data capture rather than advanced intelligence.

## Key Benefits

- Increased self-service containment rate and reduced avoidable inbound demand by minimizing friction at entry, achieved through consistent, guided journeys across channels.
- Improved Customer Effort Score (CES) through reduced repeat information moments at interaction initiation.
- Establish consistent interaction/case capture mechanism to enable reliable measurement of self-service containment, AHT, FCR, Repeat Contact Rate, and Service Level.

## Wave 2: Advanced Automation and AI-Driven Assistance - Scale Quality, Productivity, and Consistency

**Primary objective:** To scale quality and consistency across complex scenarios without increasing operational effort.

Wave 2 builds on the operational discipline created in Wave 1 and introduces advanced, context-aware automation and AI-assisted execution. The focus shifts from basic efficiency to improving resolution quality, advisor effectiveness, and consistency across more complex scenarios.

### Key Benefits

- Reduce transfer rate and improve First Contact Resolution (FCR) through more accurate classification and assignment for complex intents.
- Reduce interaction handling time using guided resolution and advisor assistance through embedded guidance and standardized handling paths.
- Reduced repeat contact rate through continuous refinement of assignment logic and knowledge effectiveness.

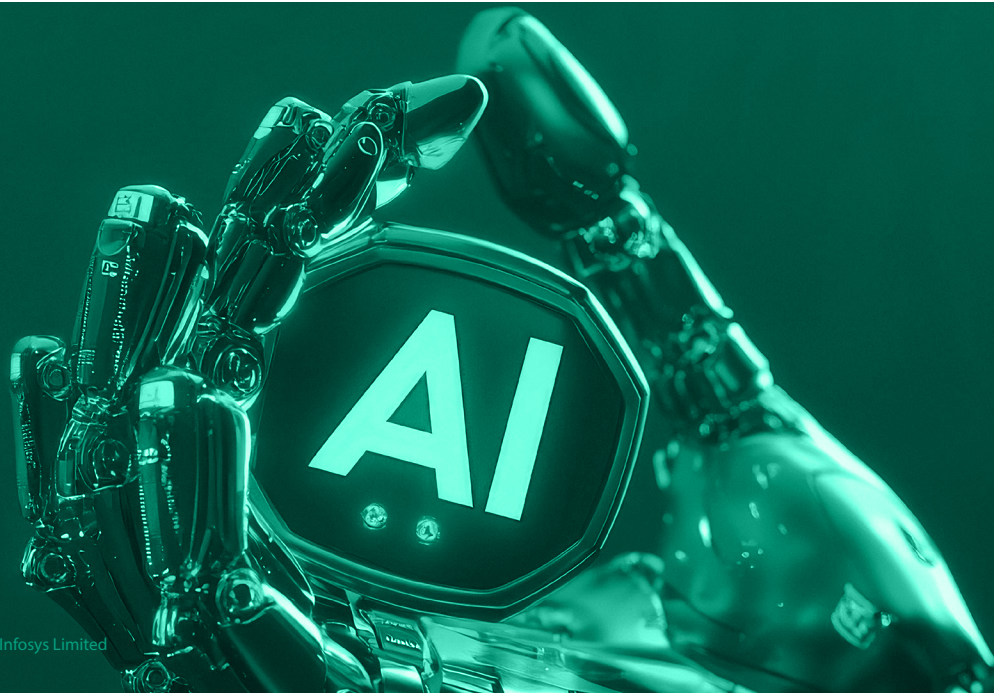
## Wave 3: Autonomous and Adaptive Service - Achieve Resilience, Autonomy, and Future Readiness

**Primary objective:** Transform from an assisted orchestration model into a self-optimizing service capability.

Wave 3 represents the forward-looking evolution of AI-Led Conversation Orchestration. Building on the foundations of Waves 1 and 2, organizations progressively introduce AI and adaptive capabilities that further reduce customer effort and operational dependency on manual intervention.

### Key Benefits

- Manage SLA during demand spikes through higher automation coverage and adaptive handling paths.
- Drive sustained improvement in Cost per Contact through higher Containment Rate, lower transfers, and reduced dependency on advisor effort.
- Maintain KPI performance at scale as automation and orchestration scope expands.



# The Future: Closed-Loop Enterprise Intelligence

Well designed customer service capabilities enable organizations to operate more efficiently, respond faster, and deliver consistent outcomes at scale. Integrating self-learning mechanisms into customer service fosters innovation and supports sustainable growth by leveraging feedback and actionable insights. With AI driving enterprise decisions, customer service will shift from optimizing individual interactions to an Autonomous Customer Service framework, where each interaction offers insights that help organizations continuously adapt to evolving customer needs and industry trends. AI-Led Conversation Orchestration will facilitate this shift by driving customer service towards intent-based, outcome-aware, and self-learning.

In the future, customer conversations will become a strategic enterprise intelligence layer. Orchestrated service capabilities will extend beyond issue resolution to enable continuous learning, proactively shaping technology, operations, and product & service design. A closed-loop, self-learning model that continuously converts customer interactions into better experiences, higher efficiency, and scalable economics. The following diagram represents the future of conversation orchestration:

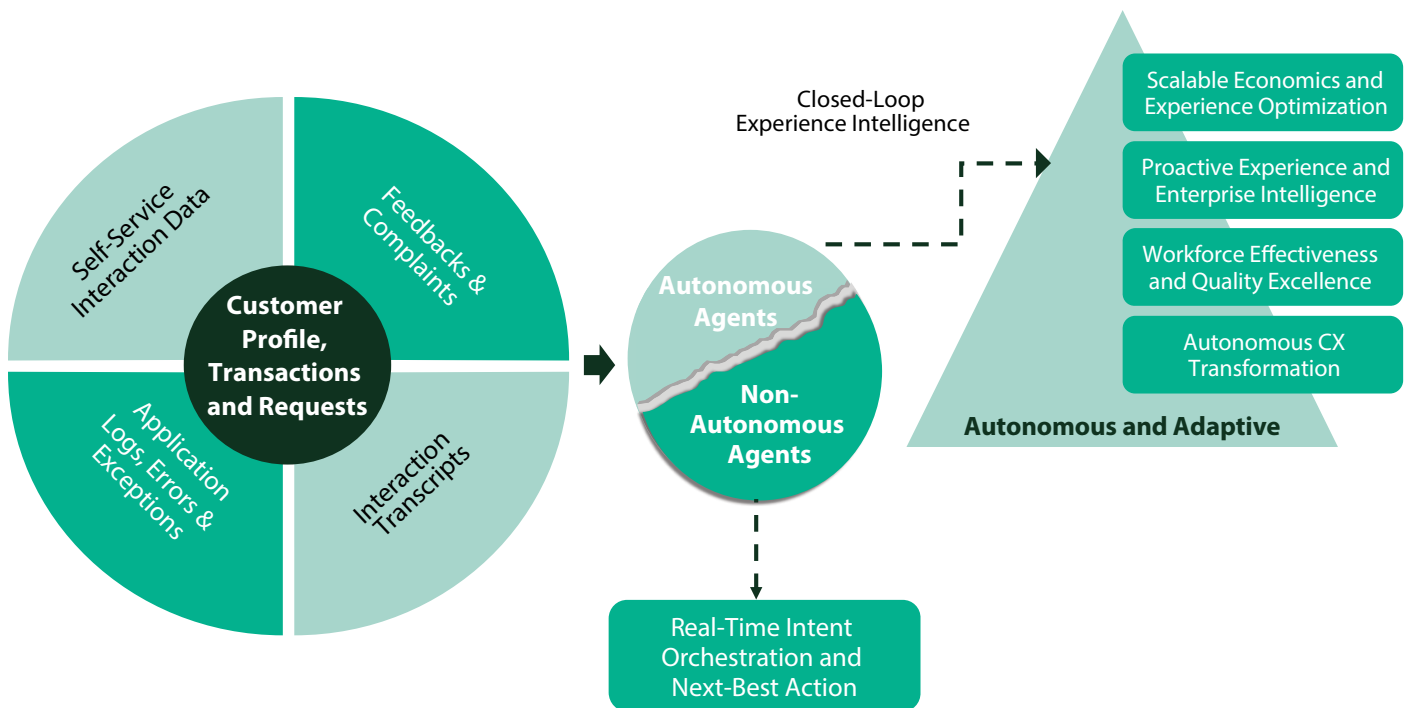


Figure 7: An insight-to-action feedback loop converting interaction data into measurable CX and cost outcomes

- **Autonomous CX Foundation** - A self-learning, closed-loop customer experience foundation that will continuously improve intent understanding, augment self-service, and autonomously resolves high-volume/low-value interactions.
- **Workforce Effectiveness and Quality Excellence** - Advanced interaction intelligence will augment workforce by eliminating low-value work and enabling targeted coaching driving higher productivity and more predictable service quality.
- **Proactive Experience and Closed Loop Enterprise Intelligence** - Customer interactions and feedback will be systematically converted into actionable enterprise insights. This closed-loop intelligence enables early issue detection, proactive customer outreach, and faster product and service improvements across Marketing, R&D, and Operations.
- **Scalable Economics and Experience Optimization** - Autonomous resolution and proactive issue prevention will deliver sustained cost-to-serve reduction while improving customer experience. The model enables volume growth without linear increases in headcount or operating costs.

Closed-loop experience intelligence transforms customer service into a self-learning, value-delivering model, where every interaction strengthens experience quality, workforce effectiveness, and economic efficiency at scale.





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This article builds on the author's prior work, Predictive Customer Interaction Management – Beyond Managing Customer Conversations.

## About the Author



Parthasarathy S is a Customer Experience transformation leader with 25+ years of experience modernizing contact centers for global enterprises. He specializes in CCaaS migrations, AI-driven CX improvements, and omnichannel self-service strategies that deliver measurable business outcomes. His expertise includes defining product vision, gap analysis, product evaluation, and driving contact center transformation programs for banking, utilities, telecom, and public sector organizations.

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