**Conversational IVR Modernization Framework**

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**Introduction & Background**

Traditional IVR systems, built on **Voice XML (VXML)**, automate customer interactions through menu-driven dialogs. While reliable, these systems are rigid and limited, forcing users to follow predefined navigation paths.

With advances in Conversational AI and Natural Language Processing (NLP), customers now expect natural, human-like interactions instead of pressing keys or remembering commands. Modern IVR solutions can understand intent, personalize responses, and reduce call handling time.

The **Conversational IVR Modernization Framework** aims to integrate existing VXML-based systems with platforms like **ACS (AI Conversational Services)** and **BAP (Business Automation Platform)**. The focus is on reusing legacy assets, enabling conversational interfaces, and ensuring a smoother transition to AI-driven workflows.

**Purpose of Modernization**

The modernization of legacy IVR systems aims to transform static, menu-driven interactions into natural, conversational experiences. By integrating VXML-based systems with AI platforms, organizations can:

1. Allow users to speak naturally instead of following rigid commands.
2. Reuse existing IVR assets while minimizing redevelopment.
3. Improve efficiency by reducing call handling time.
4. Deliver personalized and seamless customer experiences.

This modernization effort positions organizations to handle higher call volumes efficiently, reduce reliance on live agents, and offer consistent, high-quality service across voice and digital channels.

**Importance of Migrating from VXML-based IVR to Conversational AI**

Moving from VXML to Conversational AI is vital for both customer experience and business efficiency:

1. **Natural Interactions:** Customers can use free-form speech, making conversations smoother.
2. **Efficiency:** Routine queries are automated, reducing live agent dependency.
3. **Integration:** AI platforms (ACS/BAP) enable smarter workflows and backend connectivity.
4. **Scalability:** Cloud-ready systems adapt quickly to new services and languages.
5. **Experience:** Personalized, context-aware interactions improve satisfaction and loyalty.

**Objectives and Scope of the Project**

**Objectives**

1. Analyze existing VXML scripts and call flows.
2. Integrate legacy IVRs with ACS/BAP Conversational AI platforms.
3. Enable conversational interactions with minimal redevelopment.
4. Improve user experience through intelligent, voice-driven workflows.

**Scope**

1. **In-Scope:** Study of current VXML flows, design of a modernization framework, and creation of a conversational IVR prototype.
2. **Out-of-Scope:** Full-scale production deployment or complete replacement of legacy systems.