Dialogic® Application Framework Architecture

Background

In the 30+ years that Dialogic has been delivering enabling technologies to developers of communications applications, the goal has been to help developers create new and innovative applications faster and make them more efficient. Recently, pure-software products, including media servers and other virtualized network services and standards-based APIs, have reduced the effort needed to develop scalable cloud-based applications. There continues to be strong demand for greater application creation efficiency in both service provider and enterprise environments. Pent-up demand exists for white-label, ready-to-deploy, and custom application building blocks and solutions that can be quickly customized and deployed.

Dialogic Application Framework Architecture

Dialogic has introduced a layered architecture using application software building blocks, supported by a foundation of existing underlying Dialogic® technologies, leading third-party application servers, and cloud management systems. This architecture is complemented with resources from the Dialogic® Application Development Practice, a team of highly-skilled developers, focused on the customization effort needed to deliver finished applications to customers.
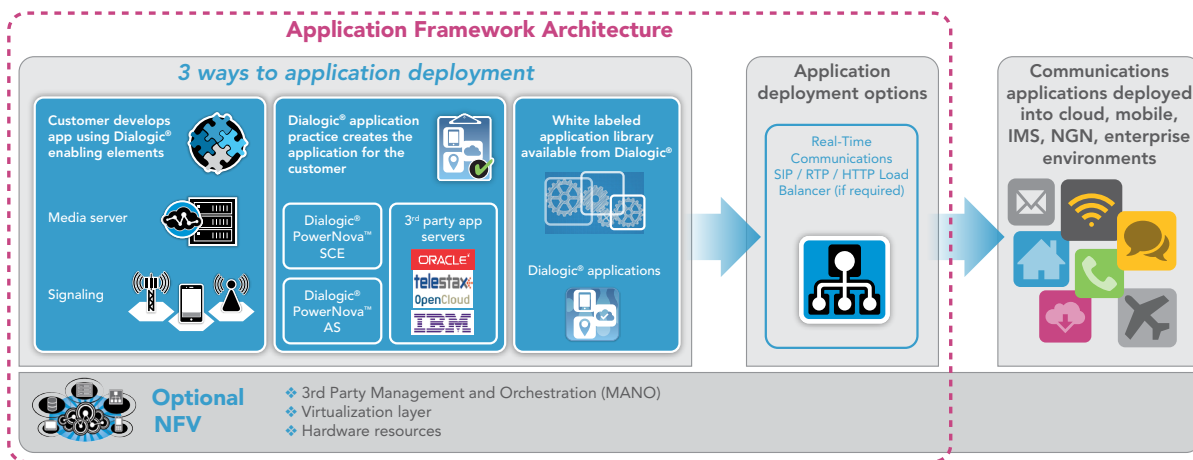

Figure 1 – Dialogic® Application Framework Architecture

Development Methodologies

Recognizing that every application development situation is unique, Dialogic supports several application development methodologies, allowing customers to craft their new application in the way that best fits their needs:

- **Customer-developed with Dialogic® enabling elements** – using traditional development processes and APIs, the application software is developed using Dialogic® media server software or signaling software products. The development effort may be accelerated with Application Development Practice resources from Dialogic.

- **Application Development Practice developed** – with extensive experience working with leading application server software platforms from Oracle, IBM, TeleStax, and OpenCloud, along with Dialogic's own PowerNova™ proprietary application server, the Application Development Practice at Dialogic is in a unique position to find the "best-fit" application environment for the customer's requirements. With experience in integrating new WebRTC, IoT, video, and NFV technologies, the Development Practice brings deep expertise to bear – resulting in a low overall cost to develop and reduced time-to-revenue.

- **White-label application library** – starting with one of an extensive library of ready-to-deploy Dialogic® applications, customers would apply their own branding and customization, creating a unique offering without costly and time-consuming development.

Dialogic® PowerVille™ LB – Load Balancer

Dialogic®
PowerVille™ **LB**

A key element for large scale and resilient applications, PowerVille LB is a software-based high-performance, cloud-ready, purpose-built, and fully optimized network traffic load-balancer uniquely designed to meet challenges for today's demanding Real-Time Communication (RTC) infrastructure in both carrier and enterprise applications.

Dialogic® Applications

Dialogic's Applications represent a community of ready-to-customize software applications, covering a spectrum of solutions for both enterprise and service provider deployments. Based on proven platforms, the portfolio of Dialogic applications and services can improve time-to-market, cut development costs, and reduce maintenance expenses.

Dialogic®
Digital **IVR**

Dialogic® Digital IVR – Interactive Voice Response

Deployed in more than 95 countries, including on over 250 carrier networks and in 15,000 enterprises, Dialogic Digital IVR drives improved customer engagement through hundreds of pre-built and customizable applications, unified messaging and rich multimedia tools, intelligent routing, built-in analytics/reporting, and sophisticated customer self-service capabilities.

Dialogic®
Cloud Centrex

Dialogic® CC - Cloud Centrex

PowerVille Cloud Centrex (CC) is a carrier-class solution hosted in a cloud environment enabling network operators to offer hosted PBX and SIP trunking services to their business customers, while also offering basic and advanced Class 5 services to their residential customers.

Dialogic Application Development Practice

Addressing the needs for specialized application development skills, Dialogic also offers access to a highly-trained team of software developers, versed in the process of customization and integration of application software into existing service provider or enterprise networks. Whether deployed on premise or in the cloud, the Application Development team can deliver the skills to accelerate deployment of new applications and value-added services.

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