

Dialogic® PowerVille™ Conferencing

Converged Audio and Video Conferencing Solution for On-the-Go Mobile and Fixed Subscribers

Put the power of real-time, high-definition, collaborative audio and video conferencing onto each subscriber's desktop, laptop, and smartphone with the Dialogic PowerVille Conferencing application. PowerVille Conferencing is a complete high definition audio and video conferencing solution for service providers and systems integrators who want to offer value added multimedia communications applications to their enterprise customers. With PowerVille Conferencing, real-time voice and video, services can be delivered seamlessly over mobile, IP, and TDM converged networks.



Features	Benefits
Scalable conferencing for mobile 3G/4G LTE and IP networks	Supports up to 800 audio participants per conference for very large, unattended conference calls across mobile and fixed-line networks for optimal market reach
Browser-based WebRTC desktop and integrated smartphone app-based conference access	Facilitates audio and video conferencing from widely used web browsers including Chrome and Firefox, as well as anywhere access via Android and iOS smartphones
WebRTC-based web page integration	Eliminates need for device-specific audio and video conferencing, facilitating integration with existing business websites
On-demand and scheduled conferencing	Allows for ad-hoc or scheduled conferences with no need to pre-allocate conferencing resources
Advanced web-based client and administrative conference control and management	Simplifies conferencing customer provisioning, management, and control
High definition (HD) and ultra high definition (UHD) video and HD voice support	Offers a wide spectrum of high-definition audio and video quality
Rapid integration with back office systems including Diameter protocol-based charging and CDR support	Readily accommodates existing service provider OSS/BSS billing mechanisms
PSTN conference call participants	Enables conference call to/from PSTN number with DTMF conference call feature access

Businesses of all types and sizes are looking for ways to improve their bottom line while reducing costs. According to a Wainhouse Research survey of video conferencing end users, companies are moving from dedicated conferencing rooms with expensive equipment to cloud-based virtualized services that provide personal conferencing capabilities to help improve enterprise worker productivity. Add to this the digital, mobile lifestyle of today's workforce and the demand for immediate customer interaction, the on-demand capabilities and support for PowerVille Conferencing make the solution well suited for today's enterprise and entrepreneurial customers.

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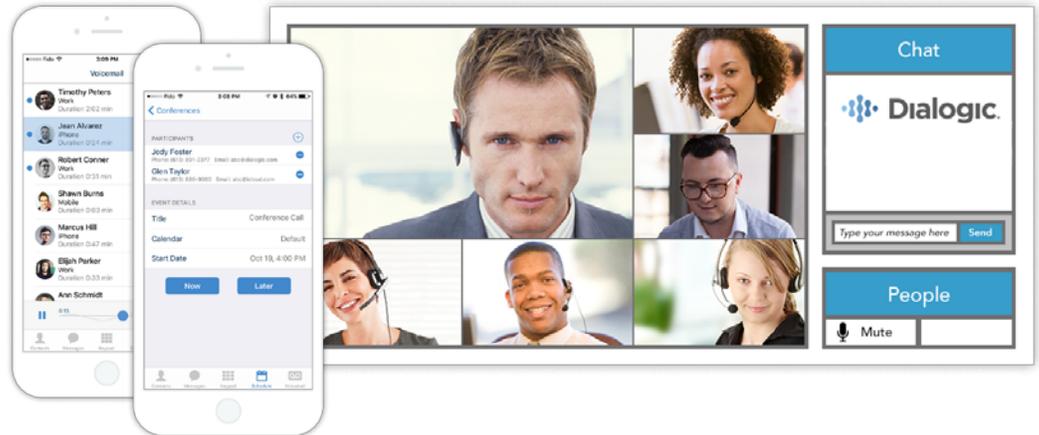
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Product Brief

Reservationless On-Demand and Scheduled Conferencing

The all-in-one, high-definition multimedia conferencing solution allows customers to communicate how they want and when they want using voice, video, or voice and video. Subscribers can instantly establish a conference and display multiple participants continuously streaming in real time. The subscriber portal also allows end users to schedule conferences in advance and provide notifications with attachments to the other participants using either email or SMS. The reservationless conferencing model allows for on-demand or scheduled conferences with no need to pre-allocate conferencing resources.



PowerVille Conferencing includes a mobile application for Android and iOS devices to support customers' digital, mobile lifestyle. Subscribers can take advantage of the PowerVille reservationless on-demand conferencing, using their Android or iOS smartphone. This allows users to move seamlessly between their desktop and smartphone to set up and hold conferences anytime and anywhere.

Service providers benefit with PowerVille Conferencing because they can deliver a superior quality service with unmatched flexibility to help reduce operational costs. Its robust design offers scalable, carrier-class conferencing services that can be quickly deployed with seamless integration into a service provider's existing operational support and back office systems. With a rich, customizable, conferencing end user feature set, the services can attract business customers across many vertical markets, achieving reduced time-to-revenue for service providers.

Audio Conferencing Overview

PowerVille Conferencing offers a reservation-less, HD voice conferencing solution for service providers to deliver over existing mobile (3G/4G LTE), IP, and TDM converged networks. It supports a wide range of narrowband and wideband audio codecs including G.711u/a, G.723, G.726, G.729a, G.729b, AMR-NB, iLBC, GSM-FR, GSM-EFR, G.722, AMR-WB (G.722.2), and Opus. Support for WebRTC-enabled browsers expands the number of potential end points and provides end users unmatched flexibility on what device they use to access the service.

Video Conferencing Overview

PowerVille Conferencing allows service providers to offer a complete cloud-based, high-definition video conferencing solution that seamlessly integrates with existing mobile (3G/4G LTE) and IP networks. Subscribers can access PowerVille Conferencing from their smartphones using Dialogic's integrated mobile application that can also provide messaging, directory, and voice calling features. Video conferencing sessions are also supported on WebRTC-enabled browsers, and can provide a wide range of video resolutions depending on the browser including:

- VGA MPEG 4, H.263, H.263+, H.263++
- 720p video resolutions with the H.264 codec
- Full 1080p high definition with VP8 (using Chrome)
- Ultra high definition (UHD) with the VP9 codec (using Chrome)

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WebRTC-Enabled Connectivity

PowerVille Conferencing incorporates the power of WebRTC-enabled browsers to eliminate the need for proprietary interfaces, and make audio and video conferencing easily available to mobile, desktop, and laptop users.

PowerVille Conferencing with WebRTC can integrate with webpages to significantly enhance customer engagements on enterprise websites. Visitors need only to click a button to talk or video chat with a call center agent in real time, without having to worry about configuring or downloading specialized clients. It makes high-quality conferencing straightforward and routine, and provides businesses a new way to engage their customers or enable their employees to collaborate and communicate.

Integrated Conferencing Service Administration

PowerVille Conferencing includes a browser-accessible management and provisioning portal, which can be customized to address specific service provider requirements. Core functions within the portal include:

- Conference creation
- Conference scheduling
- Conference notification via email or SMS
- Attachments to conference invitations
- Reporting and listing of all scheduled conferences

The portal also allows for modification of conference parameters, such as time or number of participants, and cancelling conferences, also with the option of sending updates to participants via email and SMS.

Service Creation Customization

With an advanced PowerNova™ Service Creation Environment (SCE), new conferencing applications can be quickly developed and existing ones easily modified, making it a crucial tool for communications service providers and VASPs.

Customization is made possible using conferencing-specific microservices that can be selected in the GUI-based service creation palette. Command icons can be selected and the corresponding attributes modified to enable new capabilities and enhancements. Supported services include:

- Reading information from the file/database generated by the provisioning interface and validating the conference ID
- Checking conference resource availability
- Playing participants' names as they join
- Setting/getting participant attributes (i.e., receive-only, coach, pupil)

Carrier-Grade Scale and Availability

On-Demand Scalability and Built-in Redundancy

PowerVille Conferencing can run in public cloud environments or private clouds on commercial- off-the-shelf (COTS) hardware over industry-standard virtualization environments. The PowerVille Conferencing service scales horizontally, allowing for increased capacity by simply adding additional instances or servers. For more user capacity, application servers can be added to the network in an N+1 configuration; and similarly, when more media ports are needed, media servers can be added in an N+1 configuration as well.

Geographic Redundancy Option

To meet the demands of competitive service level agreements, today's service providers need highly reliable solutions. PowerVille Conferencing was designed from the ground up, to provide carrier-class availability with commercial reliability in the field. PowerVille Conferencing offers full network element redundancy, allowing for deployment in a geographically redundant configuration.

Key PowerVille Conferencing Features

Web reservation system	Gives hosts the ability to create, modify, and delete conferences
Controlled call-in times	Controls how early participants can enter a conference
Enforced end times	Enforces a conference end-time and informs participants (whisper message) without having to terminate the conference
Whisper messages	Plays an audio message into the conference when a new participant enters, or warns when the allotted conference time is about to expire
Listen-only mode	Conserves conferencing resources for participant entering in listen-only mode
Participant list	Plays the list of participants at any time during the conference
Conference recording	Records the complete conference for archival purposes, legal requirements, podcasting, and for those unable to participate
Browser-to-browser, browser-to-phone conferencing	Enables any-to-any connectivity between VoIP, SIP, WebRTC and PSTN endpoints
Text overlay	Automatic text overlay via P-Asserted Identity with conference attendee name or via conference management screen
Conference reporting	Supports creation of customized reports, such as system resource usage (per day, week, month), the number of conferences per scheduler, etc.
Customizable callcetail records (CDRs)	Enables flexible billing and accounting of conference resource usage
Conference notifications	Provides email and SMS notification to participants on conference creation, modification, and deletion
User web portal	Allows subscribers to create, modify, and delete conferences providing a substantial degree of control; multiple calendar views allow at-a-glance information on conference schedules
Administrative web portal	Web-based provisioning and management allows administrators to onboard, accept, and reject new users complete with the capability to set personal IDs and schedule permanent conferences
Multi-tenant support	Enables service providers the ability to set up enterprise customers as private entities within the system
Voice-activated video conferencing switching	Displays real-time video stream of the active speaker, which is particularly beneficial for mobile handsets due to their limited screen size
PSTN conference call participants	Enables conference calls to/from PSTN number with DTMF conference call feature access
Continuous presence	Shows multiple sites continuously and supports multiple real-time video streams within a multi-pane display
Support for H.264, VP8, and VP9 video codecs	Offers a wide range of high-definition video resolutions from 720p to 2160p at optimized bit rates that don't sacrifice video quality



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