



## FACT SHEET

# Avaya IP Communications Development Environment

The Avaya IP Communications Development Environment (Avaya IPCoDE) enables developers to test and debug IP communications applications under development, cost-efficiently and easily. Avaya IPCoDE comprises software-only, developer-oriented editions of Avaya Application Enablement (AE) Services, Avaya Communication Manager and Avaya SIP Enablement Services. The complete environment can be installed and run on a single machine.

## Benefits of Avaya IPCoDE

The Avaya IP Communications Development Environment allows DevConnect members to:

- **Reduce their up-front investment in Avaya products** for debugging and unit testing IP communications applications under development.
- **Speed up application development** by providing an easily accessible debugging and unit testing environment on the developer's desktop.
- **Validate IP communications applications** in preparation for DevConnect compliance testing in the Avaya Solution and Interoperability Test Lab.
- **Run sample applications, included in the appropriate SDKs and available for download from the DevConnect web portal**, to gain an appreciation of the capabilities of Avaya solutions.
- **Use tools such as the AE Services DMCC Dashboard, TSAPI Exerciser and JTAPI Exerciser** to expedite and learn about the capabilities of the corresponding services, and aid application development. These tools are included in the appropriate SDKs.
- **Set up an environment for other Avaya products** with a dependency on Avaya Communication Manager, such as Avaya Voice Portal.

## Debugging and Testing Applications

Avaya IPCoDE is ideally suited for debugging and testing applications under development, including:

- **AE Services applications developed against the AE Services APIs**, protocol descriptions and web services that enable access to the capabilities of Communication Manager. These include applications which use the Device, Media, and Call Control (DMCC) service, TSAPI service, JTAPI service, Telephony Web Service and System Management Service (SMS) Web Service.
- **Avaya Communication Manager operations**, administration, maintenance and provisioning applications.
- **Avaya SIP-enabled applications**, including:
  - Applications that expose the capabilities of Communication Manager to Avaya SIP telephones.
  - Applications that incorporate SIP-based Presence and Instant Messaging with Avaya IP Softphone, Avaya IP Agent, Avaya one-X™ Desktop, and Avaya one-X™ Deskphones.
- **Avaya SIP Personal Profile Manager (PMM)-based applications**, utilizing web services exposed by Avaya SIP Enablement Services for user-specific information.
- **Avaya IP telephone applications** which leverage the capabilities exposed by the Avaya IP telephone APIs, such as the Push API.

- Provides a cost-efficient environment for developers to test and debug IP communications applications under development
- Comprises developer-oriented editions of Avaya Application Enablement Services, Avaya Communication Manager and Avaya SIP Enablement Services
- Can be installed on a single machine in your own lab
- Provides an environment for executing sample applications and exploring the capabilities of related APIs
- Procurement discounts are available for higher-level DevConnect members

## ABOUT DEVCONNECT

The Avaya DevConnect Program provides a wide range of developer-oriented resources from Avaya, including access to APIs and SDKs, developer tools, technical support options and training materials. Registered membership is free to anyone interested in designing Avaya-compatible solutions. Enhanced Membership options offer increased levels of technical support, compliance testing, and co-marketing of innovative solutions compatible with standards-based Avaya solutions.

To learn more, or to register for membership, please visit [www.avaya.com/devconnect](http://www.avaya.com/devconnect).

In addition, the environment can be used to debug and test applications that support various types of phones, including SIP and H.323 IP telephones.

**Note:** While Avaya IPCoDE provides fully-featured editions of the software, certain functional limitations exist, including some media processing capabilities. See the DevConnect web portal for additional details.

### Obtaining the Avaya IP Communications Development Environment

Information on how to request your copy of Avaya IPCoDE, including details of the release-cycle, licensing and pricing, is available on the DevConnect web portal (registration required). Procurement discounts are available to DevConnect Gold and Platinum members.

### Technical Summary

#### IP Phone Connectivity

The Avaya IP Communications Development Environment provides connectivity for up to 10 IP desktop telephones or soft phones.

#### Network Options

To provide flexibility of use, Avaya IPCoDE can be configured so that it can only be accessed from the host machine, or bridged to a private or public network.

#### Installation Requirements

To install and use Avaya IPCoDE, developers need:

- A desktop PC or server running Microsoft Windows 2000, 2003 or XP operating system. See the DevConnect web portal for details of the minimum requirements for the machine processor, RAM and hard disk space.

- A VMware environment installed on the PC or server.
- A DVD drive from which to install the Avaya IPCoDE environment.
- Adobe Acrobat Reader.

A dual monitor system is recommended as an effective method for monitoring the many simultaneous points of interaction and information exchange between the Avaya IPCoDE elements and the applications under development.

### Additional Resources for Developers

The DevConnect program offers members a range of additional resources to aid development and testing activities, including:

- **Free downloads of SDKs and developer documentation** for AE Services and IP Phone APIs.
- **Free developer training**, technical tutorials and sample application source code.
- **FAQs and free community-based support forums** for all DevConnect members.
- **Enhanced technical support** for DevConnect Gold & Platinum members.
- **Discounted procurement options** for Gold and Platinum members.

DevConnect members who require access to media gateway and other IP Communication features not supported by Avaya IPCoDE can also use the free AE Services & Communication Manager Remote Lab in support of development, testing and pre-compliance activities.

#### About Avaya

Avaya delivers Intelligent Communications solutions that help companies transform their businesses to achieve market-place advantage. More than 1 million businesses worldwide, including more than 90 percent of the FORTUNE 500®, use Avaya solutions for IP Telephony,

Unified Communications, Contact Centers and Communications Enabled Business Processes. Avaya Global Services provides comprehensive service and support for companies, small to large. For more information visit the Avaya Web site: <http://www.avaya.com>.

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