



## CHAPTER 4

# Cisco IP Services Software Development Kit (SDK)

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The Cisco IP Services Software Development Kit (SDK) contains everything to create XML applications, including necessary documentation and sample applications. Contact Cisco Developer Services to obtain the SDK at: <http://www.cisco.com/go/developersupport>.

These sections describe the Cisco IP Services SDK:

- [SDK Components](#)
- [Sample Services Requirements](#)

## SDK Components

The following list contains the components that are included in the SDK:

- Documentation
  - Cisco IP Services Development Notes (in Adobe Acrobat format)
  - Cisco URL Proxy Guide (Rich Text Format)
  - Cisco LDAP Programming Guide (Microsoft Word format)
  - Cisco CIP Image Release Notes (Microsoft Word format)
  - Cisco IP Applications Samples (Microsoft Word format)

- Development Tools
  - Cip.8bi—Adobe Photoshop plugin that allows .cip extensions to be viewed and saved.
  - Cip2Gif.exe—DOS-based program that converts .cip files to .gif.
  - Gif2Cip.exe—DOS-based program that converts .gif files to .cip.
  - ImageViewer.exe—Windows application that displays .cip graphic files.
  - Cisco CIPImage—used for converting images to and from CIP images (automatically installed)
  - Cisco URL Proxy—Proxy server that is needed to use the sample services (automatically installed).
  - Cisco LDAP Search—Service that is installed to do LDAP searches (automatically installed).
  - Microsoft XML Parser (MXSML) 3.0—Used for parsing XML data (automatically installed)
  - Cisco Unified IP Phone Services ASP/Javascript Library (automatically installed)
  - Cisco Unified IP Phone Services Java Library—Used by the JSP apps (manually installed - see JSP Install readme)
  - CallManager Simulator —Used for developing Phone Services without a CallManager server
  - Cisco Unified IP Phone XML Schema (.xsd) file—Used with an XML editor to validate XML syntax
- Sample Services
  - Weather forecast lookup for any city (ASP)
  - Currency Exchange Rates and Converter (ASP)
  - UPS Rates & tracking (ASP)
  - World Clock (ASP)
  - Measurement conversions (ASP)
  - US White pages/Yellow Pages search (ASP)
  - Calendar (ASP)
  - Stock Ticker (ASP)

- Stock Chart (ASP)
- Push2Phone (ASP and JSP)
- Click2Dial (ASP and JSP)
- IdleURL (ASP) - Not supported on Cisco 7905 and 7912 IP Phones
- MConference (JSP)
- Hootie (ASP)
- InterCom (ASP)
- JPEGViewer (ASP)
- Logo (ASP)
- Clock (ASP)
- Personal Service (ASP)
- WaterMark (ASP)
- Extension Mobility Controller (JSP)
- Speed Dials (JSP)
- Group MWI (JSP)
- AutoDialer (JSP)
- PhotoDirectory (JSP)
- CallerInfo (JSP)
- PushAuthenticate (ASP)
- ScreenShot (ASP)
- Integrating RS-232 devices with IP Telephony Applications (OtherApps)
- PNGViewer (ASP)
- Keyboard (ASP)
- MultiDirectory (ASP)
- Phone Push Step and Subsystem (Cisco Unified Contact Center Express / CRS)

# Sample Services Requirements

The following list contains the items that are required for the sample services to work properly:

- Microsoft IIS 4.0 or later (for ASP sample services)
- Sun J2SE 1.4.2 or later and Tomcat 4.0 or later (for JSP sample services)
- Internet Connection to external websites like Yahoo.com, Cnn.com etc.
- Cisco Unified CallManager 4.1(2) or later.
- Cisco 7905, 7912, 7920, 7940, 7960, 7970 or other XML services-enabled IP Phone

The setup program installs a CiscoServices web project to c:\CiscoIpServices directory. The sample services get copied to the c:\CiscoIpServices\Services subdirectory, and IIS and WSH example codes are provided. The web server already senses these services; you need no further administration. You can view or edit all the source code with any text editor. For additional documentation, go to this directory: c:\CiscoIpServices\Documentation. Find tools to help develop services in c:\CiscoIpServices\Tools.