

## Product Description

The **ToolVox Software Development Kit (SDK)** provides development resources for application developers to utilize the ToolVox Application Programming Interface (API) for developing more detailed control of Code Blue analog or IP speakerphones from third party devices, servers or software. A ToolVox X3 server is required to control or receive communication from Code Blue devices. The SDK also includes the ToolVox Virtualization Appliance using the Open Virtualization Archive (.OVA) format.

**NOTE:** See ToolVox product sheet for full capabilities of ToolVox X3 and supporting software.

### Capabilities

ToolVox X3 is a Linux server platform capitalizing on open standard protocols such as RTP, SIP, HTTP, SMTP, SNMP and includes open standard application servers, such as Asterisk PBX, OpenLDAP and MySQL. Most customizations or integrations do not require programming support and can be accomplished through the web-based ToolVox Administration software.

While the ToolVox API provides specific interface controls over Code Blue devices, more advanced call routing/applications may be accomplished using the Asterisk Application Gateway Interface (AGI) or the Asterisk Management Interface (AMI). The ToolVox API is capable of two-way communication, allowing control over Code Blue devices from third party applications or communicating device or system events to a third party application.

#### Function examples available through the ToolVox API:

- Authenticated HTTP request system using JSON or XML
- Device list
- Device information (model, extension, description, location, cameras, etc.)
- Device control (relays, buttons, volume, message playback, etc.)
- Device events (dialing, connection, incall, hangup)
- EMS Agent list/information
- EMS Agent control/events

### Contents

- + ToolVox Admin Guide
- + ToolVox Developer Guide
- + ToolVox Virtual Development Setup Guide
- + ToolVox Open Virtualization Archive (.OVA)

### Requirements

To properly use the SDK examples and guides, the following are required:

- ✓ OVA Compatible Hypervisor (VirtualBox, VMWare, etc.)
- ✓ Code Blue IP speakerphone (IP5000, IP2500, IP1500)
- ✓ Software IP phone (optional)
- ✓ IP deskphone (Grandstream, Polycomm, Digium, etc.)
- ✓ IP camera (optional)

Note: Specifications subject to change without notice or obligation on the part of Code Blue Corporation.