

1.0 RESPONSIBLE PARTY

- 1.1 Any and all questions or correspondence regarding this document and specifications herein shall be directed to:

Code Blue Corporation
92 East 64th Street
Holland, MI 49423
616-392-8296
aespecs@codeblue.com

2.0 SCOPE

- 2.1 This document is intended to provide complete and accurate specifications of the ToolVox product offering by Code Blue Corporation for the purpose of inclusion in project specifications, requirements and recommendations required by potential users of Code Blue products and services.
- 2.2 Code Blue Corporation will be referred to as “manufacturer” throughout this document.

3.0 PRODUCT DESCRIPTION

- 3.1 The ToolVox shall be a full featured IP PBX. This platform shall host Code Blue client-server software utilized for the management and operation of Code Blue system solutions. There shall be no substitute.

4.0 CONSTRUCTION

- 4.1 The following are for both Standard and Advanced ToolVox systems.
- 4.2 The hardware shall be 19” x 7” x 20.1” 4u rack mountable.
- 4.3 The case shall be heavy duty cold rolled electroplated steel.
- 4.4 LED for power and HDD activity.
- 4.5 Power On/Off and System Reset.
- 4.6 Cooling fans shall be mounted in the case and power supply.

5.0 MOUNTING

- 5.1 ToolVox Standard/Advanced shall mount with supplied hardware in a standard 19” communications rack.

6.0 POWER SUPPLY

- 6.1 ToolVox Standard shall come with an 800 Watt single power supply.
- 6.2 ToolVox Advanced shall come with an 800 Watt hot swappable redundant power supply.

7.0 HARD DRIVE

- 7.1 ToolVox Standard shall come with a single 500 GB hard drive.
- 7.2 ToolVox Advanced shall come with dual 500 GB hard drive's configured in a RAID 1 configuration for redundancy.

8.0 OPTICAL DRIVE

- 8.1 ToolVox Standard/Advanced shall come with a DVD-RW/CD-RW optical drive.

9.0 MEMORY

- 9.1 ToolVox Standard/Advanced shall come with 2 GB DDR2 memory.

10.0 PROCESSING

- 10.1 ToolVox Standard/Advanced shall be equipped with Intel processors capable of processing a minimum of 200 calls simultaneously.

11.0 NETWORK

- 11.1 ToolVox Standard/Advanced shall be equipped with two Gigabit Ethernet ports.

12.0 PORT CAPACITY

- 12.1 ToolVox Standard/Advanced shall come with 3 expansion slots. Each capable of the following configurations:

- Up to 24 FXO ports in multiples of 4.
- Up to 24 FXS ports in multiples of 4.
- A combination of FXO/FXS ports up to 24 in multiples of 4.
- Single port T1/E1/PRI.
- Dual port T1/E1/PRI.
- Quad port T1/E1/PRI.

- 12.2 Additional FXO/FXS/T1/E1/PRI capacity shall be obtained by adding ToolVox systems in a cluster configuration.



Architectural & Engineering Specifications

12.3 Additional port options are available to meet particular needs and installation requirements including the use of external channel banks, carrier class equipment for connectivity to outside cable plants and equipment to connect to radio systems. Contact Code Blue for specific configuration scenarios not covered by standard product order forms.

13.0 CALL FEATURES

- ADSI On-Screen Menu System
- Alarm Receiver
- Append Message
- Authentication
- Automated Attendant
- Blacklists
- Blind Transfer
- Call Detail Records
- Call Forward on Busy
- Call Forward on No Answer
- Call Forward Variable
- Call Monitoring
- Call Parking
- Call Queuing
- Call Recording
- Call Retrieval
- Call Routing (DID & ANI)
- Call Snooping
- Call Transfer
- Call Waiting
- Caller ID
- Caller ID Blocking
- Caller ID on Call Waiting
- Calling Cards
- Conference Bridging
- Database Store / Retrieve
- Database Integration
- Dial by Name
- Direct Inward System Access
- Distinctive Ring
- Distributed Universal Number Discovery (DUNDi™)

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Specifications are subject to change without prior notice. Latest information available at www.codeblue.com.
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- Do Not Disturb
- E911
- ENUM
- Fax Transmit and Receive
- Flexible Extension Login
- Interactive Directory Listing
- Interactive Voice Response (IVR)
- Local and Remote Call Agents
- Macros
- Music On Hold
- Music On Transfer:
 - Flexible Mp3-based System
 - Random or Linear Play
 - Volume Control
- Talk Detection
- Text-to-Speech (via Festival)
- Three-way Calling
- Time and Date
- Transcoding
- Trunking
- VoIP Gateways
- Voicemail:
 - Visual Indicator for Message Waiting
 - Stutter Dial tone for Message Waiting
 - Voicemail to email
 - Voicemail Groups
 - Web Voicemail Interface

14.0 COMPUTER TELEPHONY INTEGRATION

- AGI
- Graphical Call Manager
- Outbound Call Spooling
- Predictive Dialer
- TCP/IP Management Interface
- EMS API

15.0 SCALABILITY

- TDMoE (Time Division Multiplex over Ethernet)
- Zero latency
- Voice-over IP
- Allows for integration of physically separate installations
- Interoperates with traditional standards-based telephony systems and Voice over IP systems
- Cluster capabilities
- Allows a unified dial plan across multiple locations and systems
- High availability and redundant system capabilities

16.0 CODECS

- ADPCM
- G.711 (A-Law & μ -Law)
- G.719 (pass through)
- G.722
- G.722.1 licensed from Polycom[®]
- G.722.1 Annex C licensed from Polycom[®]
- G.723.1 (pass through)
- G.726
- G.729a
- GSM
- iLBC
- Linear
- LPC-10
- Speex

17.0 VoIP PROTOCOLS

- Google Talk
- H.323
- IAX[™]
- Jingle/XMPP
- MGCP
- SCCP
- SIP

- Skype
- UNISlim

18.0 TDM PROTOCOLS

- E&M
- E&M Wink
- Feature Group D
- FXS
- FXO
- GR-303
- Loopstart
- Groundstart
- Kewlstart
- MF and DTMF support
- Robbed-bit Signaling (RBS) Types
- MFC-R2

19.0 ISDN PROTOCOLS

- AT&T 4ESS
- EuroISDN PRI and BRI
- Lucent 5ESS
- National ISDN 1
- National ISDN 2
- NFAS
- Nortel DMS100
- Q.SIG

20.0 WARRANTY

- 20.1 ToolVox shall be warranted for a period of one (1) year. Reference manufacturer's warranty for further details.
- 20.2 Yearly maintenance agreements shall be available from the manufacturer.

21.0 MANUFACTURER

- 21.1 The manufacturer shall be Code Blue Corporation of Holland, Michigan. There are no known equivalents.

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Architectural & Engineering Specifications

- 21.2 Code Blue Corporation manufactures its products according to the most recent revision of our product specifications and shall not be held responsible for obsolete or outdated specifications. For the latest revision please refer to www.codeblue.com or contact Code Blue Corporation directly.