1.0 GENERAL DESCRIPTION

1.1 The unit shall be a gateway with PBX capabilities and applications, model ToolVox® from Code Blue Corporation, no substitutions. This platform shall host Code Blue client-server software utilized for the management and operation of Code Blue system solutions.

2.0 CONSTRUCTION

2.1 The server shall measure 3.5" H x 17.2" W x 17.7" D 2U rack mountable and weigh approximately 35 lbs (15.9 kg).

2.2 The outer rack rail shall extend between 26" and 33.5".

2.2.1 Shorter rails available.

2.3 The control panel on the front of the unit shall have six LEDs: Power Failure, Overheat/Fan Fail, NIC 1 Indicator, NIC 2 Indicator, HDD Indicator and Power Indicator.

2.4 The operating temperature range shall be +5°C to +35°C (+41°F to +95°F). The non-operating temperature range shall be -40°C to +60°C (-40°F to +140°F).

2.5 Operating relative humidity range shall be 8% to 90% (non-condensing). The non-operating relative humidity range shall be 5% to 95% (non-condensing).

2.6 Cooling fans shall be mounted in the case and power supply.

3.0 MOUNTING

3.1 ToolVox® Media Gateway shall mount with supplied hardware in a standard 26" four-point communications rack.

4.0 POWER

4.1 ToolVox® shall come with a 700-watt redundant power supply.

4.2 The rated AC voltage shall be 100-240V AC/60Hz@ 9.5-4.5 amps.

4.2.1 Each power supply unit shall have two indicators visible on the back of the chassis: amber for system off, power applied and green for system on.

5.0 HARD DRIVE

5.1 ToolVox® shall come with dual 1 TB hard drives configured in RAID 1, for redundancy.

6.0 OPTICAL DRIVE

6.1 ToolVox® shall come with a DVD-ROM optical drive.

7.0 MEMORY

7.1 ToolVox® shall come with 4 GB memory.

8.0 PROCESSING

8.1 ToolVox® shall be equipped with Intel processors capable of processing a minimum of 100 calls simultaneously.

9.0 NETWORK

9.1 ToolVox® shall be equipped with two Gigabit Ethernet ports.

10.0 PORT CAPACITY

10.1 ToolVox® shall come with a minimum of three expansion slots, each capable of the following configurations:

- Up to 4 FXO ports.
- Up to 4 FXS ports.
- 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.

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

10.3 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.

11.0 CALL FEATURES

11.1 ToolVox® shall be capable of standard PBX features and functionality, including trunking, outbounding, routing and inbound call controls, such as IVR and ring groups.

12.0 OTHER FEATURES

12.1 Computer Telephony Integration: ToolVox API.

12.2 Capable of running Blue Alert® EMS and Blue Alert MNS software.

12.3 Unit Programming & Diagnostics (UPD) module features:

12.3.1 Email notification for events, faults or programming errors.

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12.3.2   Program or test all extensions at one time or individually.

12.3.3   Locally store message recordings for each device.

12.3.4   Diagnostic logs for error tracking.

12.3.5   Daily log email by extension range.

12.3.6   Unlimited testing schedule capability.

12.3.7   Web GUI administration.

12.3.8   Centralized Help Point® and emergency signaling configuration.

12.3.9   Full SNMP management system.

12.4   Scalability: Voice-over IP, cluster capabilities, high availability and redundant system capabilities.

12.4.1   Allows for integration of physically separate installations.

12.4.2   Interoperates with traditional standards-based telephony systems and Voice over IP systems.

12.4.3   Allows a unified dial plan across multiple locations and systems.

12.5   Codec Support: ADPCM, G.711 (A-Law & μ-Law), G.722 (HD voice).

12.6   VoIP protocols: H.323, IAX™ and SIP.

12.7   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 and MFC-R2.

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

12.9   Analog telephony: FXS/FXO Loop Start, Kewlstart.

13.0 COMPLIANCE

13.1   Connects with Lenel OnGuard to monitor ToolVox® status and calls placed from Code Blue phones.

13.2   Capable of integrating with Milestone Systems' XProtect to monitor the health of emergency speakerphones.

13.3   Delivers event notifications to OnSSI Ocularis video management software.

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14.0 OPTIONS

14.1 Capable of connecting multiple analog devices via an IAD, such as AdTran 624 or AdTran 850.

15.0 WARRANTY

15.1 The ToolVox® shall be warrantied against any defects in material and workmanship, under normal use, for a period of one year from date of installation. If system is found by manufacturer to be defective within the warranty period, manufacturer shall repair and/or replace any defective parts, provided the equipment is returned to manufacturer. Yearly maintenance agreements shall be available from the manufacturer.

16.0 MANUFACTURER

16.1 The Manufacturer shall be Code Blue Corporation. 800-205-7186, 259 Hedcor Street, Holland, Michigan 49423. www.codeblue.com. THERE ARE NO EQUIVALENTS.

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