Tactical Communications Corporation Announces BridgeWay Release 9 Software for Anywhere, Anytime Combat Net Communications

Camarillo, California USA; June 16, 2014 – Tactical Communications Corporation announces the immediate availability of Release 9 software for the BridgeWay VoIP/RoIP gateway systems… offering feature-rich, non-ITAR customizable solutions with order of magnitude SWaP-C enhancements.

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Release 9 Configurable Feature List

Global system configuration options:
  
  - Configuration for dual LAN Ports
    
    - LAN 1 IPv4
      - IP Address
      - Netmask
      - Gateway
    
    - LAN 1 IPv6
      - IP Address
      - Subnet Prefix
      - Scope ID
    
    - LAN 2 IPv4
      - IP Address
      - Netmask
      - Gateway
    
    - LAN 2 IPv6
      - IP Address
      - Subnet Prefix
      - Scope ID
  
  - Network Tolerance/Tuning
    
    - Packet Jitter Delay - 5ms to 120ms in 5ms increments
    - Jitter Buffer Size - 10ms to 120ms in 5ms increments
    - Tx packet Rate - 5ms to 30ms in 5ms increments
  
  - Remote radio PTT “Keep Alive” Control Increments
    
    - Send – 100ms to 500ms in 100ms increments
    - Detect – 300ms to 2000ms in 100ms increments
  
  - VoIP/Telecom PTT Control
    
    - Automatic (VOX)
    - Key on/key off via programmable DTMF buttons
  
  - Trunking Radio Transmit Signal Timeout – 0sec to 10sec in 1sec intervals
  
  - Hunt Group 1 through 4 – Dial Prefix
  
  - Dialed Radio Call Inactivity Timeout – 15sec to 5 min in scaled intervals
  
  - Radio port setting for “Key-in” call initiation
    
    - Number of radio key-ins -1, 2 or 3
    - Over time duration of 1 through 5 sec in 1 sec intervals
  
  - Secondary digit collection parameters for DTMF dialing from radios
  
  - Remote Radio Link Encryption - 128/192/256 bit AES or ARIA
  
  - Client IP Link Encryption - 128/192/256 bit AES or ARIA
  
  - IP Conference Link Encryption - 128/192/256 bit AES or ARIA
Configuration options for wired radio/audio ports

- Port name
- Port Type
  - Default E&M Radio/Audio
  - Default E&M Radio with Data pass-through to UDP port
  - Configurable radio serial settings and UDP parameters
  - Trunking Radio
  - SINCGARS Radio
  - Two-wire EIA Tone Control Radio with radio settings
  - Four-wire EIA Tone Control Radio with radio settings
  - EF Johnson 5300 Radio with radio settings
  - Harris PRC-117F/117G Radio with radio settings
  - Rohde&Schwartz M3AR Aviation Radio with radio settings
  - Rockwell-Collins ARC-210 Radio with radio settings
  - Full-Duplex Radio/Audio/Headset
- Extension number for direct inward dialing
- Tx Gain, -29dB to +29dB
- Rx Gain, -12dB to +47dB
- Tx Delay/Buffering, 0-500ms in 50ms steps
- Rx Delay/Buffering, 100-500ms in 50ms steps
- Tx Attenuation – reduces Tx output to radio by an additional 20dB
- Rx attenuation – reduces Rx input from radio by an additional 24dB
- COR/VOX – sets type of detection if incoming signal
- COR polarity and threshold
- Call enable – permits DTMF calling originated from radio
- Destination – sets destination extension for “Key in” radio control
- Voice Logging – IP Address and Port for IP recorder

Configurable options for FXS ports

- Line name
- Extension number
- Tx Gain, -15dB to +15dB
- Rx Gain, -15dB to +15dB
- Destination for automatic off-hook ringdown dialing
- Retry timer, enable/disable
Configurable options for FXO ports
  o Line name
  o Extension number
  o Tx Gain, -15dB to +12dB
  o Rx Gain, -15dB to +12dB
  o Destination for automatic incoming call dialing
  o Hunt group assignment
  o Answer supervision – disabled, outgoing or incoming/outgoing
  o Debounce time, 10ms to 500ms in scaled intervals
  o Four Auto-disconnect far end tone disconnects
    ▪ Cadence – periodic or continuous
    ▪ Frequency 1 – Center and bandwidth, in Hz
    ▪ Frequency 2 – Center and bandwidth, in Hz
    ▪ Cadence make time, min msec
    ▪ Cadence make time, max msec
    ▪ Cadence break time, min msec
    ▪ Cadence break time, max msec

Configurable options for Remote Radio ports
  o Local (idle) name
  o Remote IP address
  o Remote device number
  o Uplink encoder, G.711, G.729a or MELPe
  o Downlink encoder, G.711, G.729a or MELPe

Configurable options for local audio headsets
  o Name
  o Base Port
  o Tx Gain, -12dB to +47dB
  o Rx Gain Left, -29dB to +29dB
  o Rx Gain Right, -29dB to +29dB

Configurable options for Permanent Patches
  o Patch name
  o Dial in extension number
  o Checkbox selection of all assets to be patched
Configurable options for T1/E1 Spans

- In service/Out of service
- External clock/Internal Clock
  - T1 Span settings
    - Framing – D4/ESF
    - Encoding – B8ZS/AM
    - Termination – off, 75 ohms, 100 ohms, 120 ohms
    - Build outs – 0/133, 133/266, 266/399, 399/533, 533/655, -7.5dB, -15dB, -22.5dB
  - T1 ISDN Settings
    - Companding – uLaw/aLaw
    - Switch type – 5ESS, 4ESS, DMS100, NI2
    - User-side/Network side
    - Dial access codes
- E1 Span settings
  - CRC4 – on/off
  - Format – CAS/CCS
  - Termination – off, 75 ohms, 100 ohms, 120 ohms
  - HDB3 – on/off
  - Build outs – 75 or 120
  - E1 ISDN Settings
    - Companding – aLaw/uLaw
    - Switch type – NET5, Q-SIG Master, Q-SIG Slave
    - User-side/Network side
    - Dial access codes

Configurable options for Multicast Network Conferences

- Conference name
- Dial in extension number
- Multicast IP Address
- Multicast IP Port
- Packet Time-to-Live
- Packet size
- Vocoder – G.711/G.729a
- DSCP Value
Configurable options for Local/Unicast Network Conferences
  o Conference name
  o Dial in extension number
  o Network Destination IP Address (blank for local)
  o Network Destination IP Port
  o Vocoder – G.711/G.729a
  o DSCP Value

Configurable options for GUI Client Profiles
  o Display name
  o Login name
  o Audio Type
    ▪ VoIP (Binaural)
    ▪ VoIP – Monaural
    ▪ VoIP – Left only
    ▪ VoIP – Right only
    ▪ Local Headset – Binaural
  o Softphone extension number
  o Screen type
    ▪ Default (PC)
    ▪ TCC
  o Channel Access (ability to change radio settings)
  o Radio Config Access (ability to see radio settings)
  o BIT (ability to initiate system BIT)
  o Softphone enable/disable
  o Patch Panel enable/disable
  o Simulcast enable/disable
  o All-Call enable/disable
  o Disable local features (captive client screen)
  o Enable analog DVR (port number)
  o IP Logging
    ▪ Local port
    ▪ Recorder IP address
    ▪ Recorder IP Port
    ▪ Packet TTL
    ▪ Vocoder
    ▪ G.711
    ▪ G.729a
    ▪ DSCP value

Configurable options for Administrative (Browser) logins
  o Username
  o Password