



CORTEXremote

Integrated Communications for Mission Critical Control Rooms



Pre-requisites

- Bandwidth per workstation – 256kbps or 512kbps with CCTV (requires IP CCTV)
- CORTEX SP5
- VoIP port pooling v2
- Authenticon

Current Limitations:

- Remote reboot of a workstation
- Remote calibrate of a workstation
- Remote clean screen on a workstation
- Alarms
- Lines setup page
- Request to Listen
- Indicators on workstation/intercom screen
- Wallboard
- I/O
- No EISEC or Alsec

Dimensions

- Weight: 14.45kg.
- H-21cm
- L-40cm
- W-52cm

Details of PC

- Shuttle X50V2 Barebone. (contains 15.6" touchscreen)



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CORTEXremote is the next generation in mobile command solutions, utilising state of the art VoIP technology to address the challenges faced by modern Mission Critical Services.

Solution Details

CORTEXremote is a versatile solution and is designed to respond to a number of critical situations. Presented in a single briefcase, the design is for ease of mobility, robustness and simplicity. Emergency Services demand reliability, CORTEXremote is built on proven technology.



CORTEXremote works with your preferred headset and maintains both the operator and supervisor ports. The GUI is identical to the GUI used in the control room. This removes the need for any operator re-training, hence reducing inefficiency due to unfamiliarity when responding to an emergency or unplanned evacuation.



CORTEXremote uses and advantages are diverse, it can be used to respond to a number of planned and unplanned events, including:

Fallback solution: In case of a full evacuation of a control room, the CORTEXremote workstation enables a Police force to be operational in a matter of minutes at a remote location.

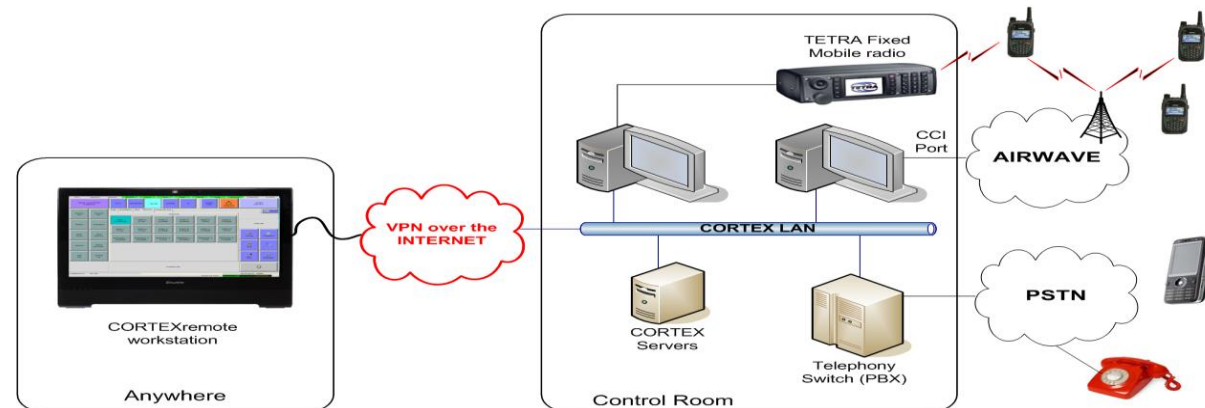
Event coverage: In the past operations would need to have been run remotely by the control room. CORTEXremote enables senior officers to establish presence and leadership on site as well as utilising essential functionality available through a TETRA port only ie dispatcher override.

Training: As well meeting operational needs, CORTEXremote provides an excellent training solution when needed. In addition to training, during spate conditions, CORTEXremote can be used to increase capacity in the control room temporarily.

CORTEXremote enables the use of full TETRA port functionality from a remote site. A comparison of TETRA functionality available using a TETRA port versus the functionality available using a fixed mobile:

| | CORTEXremote | Fixed Mobile |
|----------------------------|--------------|--------------|
| Patch | ✓ | ✗ |
| DGNA | ✓ | ✓ |
| Multi talkgroup monitoring | ✓ | ✓* |
| Event Monitor | ✓ | ✗ |
| Emergency Activations | ✓ | ✗ |
| Status Messages | ✓ | ✓** |
| Dispatcher Override | ✓ | ✗ |
| Ambience Listening | ✓ | ✗ |
| Private Call | ✓ | ✓ |
| Group Call | ✓ | ✓ |
| Stun | ✓ | ✓*** |

- * Airwave network limitations apply
- ** Available only with APD TETRA Gateway and a Command and Control system
- *** Available only with APD TETRA Gateway



Dispatcher Override

An important function that CORTEXremote enables at a remote location is the 'Dispatcher Override' function. This has been identified as a key weakness when using a fixed mobile radio or handheld radio when policing an event. In a disaster situation where a dispatching officer needs to take charge, this feature is invaluable. Enabling the dispatching officer to stop all other transmissions, take priority on the talkgroup, and communicate with the resources.

CORTEXremote takes advantage of VoIP telephony to extend the telephony communications to the operator. During extreme conditions such as a terrorist attack, natural disaster or a major event mobile phone networks are liable to fail due to extreme demand. CORTEXremote removes the dependence on the mobile phone networks improving reliability in the most demanding situations.

Telephony features provided by CORTEXremote include:

- Hold
- Answer
- Park/Retrieve
- Mute
- Transfer
- ACD Enabled
- Shared Line Presentation

CORTEXremote can be deployed in a number of environments depending on the requirements of the situation. The flexibility of CORTEXremote is demonstrated by its ability to connect using satellite communication or via publicly available broadband. Possible deployments and methods of communication include:

- Mobile command vehicle (satellite communications)
- Temporary control room (direct network)
- Portacabin - for a major event (microwave communications)
- Public wifi hotspot (maintains security through VPN)
- Training room

Connectivity can be established over the internet, however communications are kept secure by the use of Virtual Private Network (VPN) technology. This ensures that private communications cannot be eavesdropped, intercepted or hacked by any individual.

The CORTEXremote screen and the briefcase have been designed to be separable and support different desk configurations conforming to situational and environmental requirements proving its flexibility and versatility.