

Prolinx Deployable C2 System (PC2) Provides rich connectivity in a portable package



Overview

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Provides rich connectivity in a portable package

PC2 is designed to support a small number of key personnel in a policing operational environment, ideal for Command and Control situations where immediate delivery of information is essential e.g. forward command posts, major crime scenes, public disorder, events management and forensics. PC2 permits rapid connection to the accredited network as soon as personnel arrive at the scene. PC2 is a capable service designed to provide rich connectivity in a portable package, whilst being fully compliant with the Government's strict security regime. PC2 provides secure information management in critical situations which will enhance operational effectiveness.

As part of the scalable deployable service, PC2 can increase in capacity and capability to support the changing numbers and roles. A smart function of PC2 is it gets over traditional performance challenges especially when sharing large amounts of data hungry files, such as video and images and allows all deployed personnel to collaborate locally without the need to reach back to HQ support services. This local domain will enable localised Microsoft Exchange, shared working area, file and print capability and allow information exchange, meaning that users can work and collaborate with each other even when off net. The versatility of PC2 allows for LAN speed collaboration onsite and for global collaboration when connection to a WAN is available.

PC2 is a Prolinx fully managed service using assured commercial off the shelf (COTS) components appropriately hardened for deployed style of operation. The solution is secure, scalable, agile, portable, small scale, semi-autonomous, providing a

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mobile service delivery platform with local domain allowing access to the Government Networks Central services by means of

any Bearer of Opportunity by providing link encryption and all relevant gateway security. At the heart of this capability is Prolinx Assured Cloud Services (PACS) engine and PC2 comes in a number of models from briefcase size units for 2 – 4 users up to semi-permanent solutions capable of supporting thousands of users.

When required PC2 can securely connect the service to any domestic broadband service, a mobile 3/4G service or a variety of Government provisioned connectivity services such as the MoD network and PSN. When connected, the PC2 operates at the 'Official Sensitive' level and achieves more global collaboration functionality across the Government connectivity.

Potential Use Cases

PC2 can be used in a number of deployed scenarios such as but not limited to:

- Gold/Silver/Bronze command
- Major Crime Scene management
- Public order situations
- Hostage Negotiation
- Deployed Team operating covertly
- Events Management
- Forensic or Data Capture

Within each use case the capability can be delivered with different/enhanced capabilities e.g. Events Management a Secure WiFi hotspot for officers on the ground.



Overview

Benefits

PC2 can be provided with optional configurations that can augment the capabilities. They are:

Secure Wireless

PC2 can provide instant and secure connectivity for up to 50 wireless devices. This represents a significant reduction in cable cost and footprint for temporary operating bases. The reduction in cabling requirements results in a quicker setup time for any deployment. This means greater operational efficiency for deployed police officers and staff.

Coverage and capacity can easily be scaled by adding additional access points and the IP transport network makes it easy for connecting laptops, tablets or VOIP phones. PC2 can then therefore scaled up or down dependent on how a police incident unfolds.

Virtual Desktops

The solution can also support virtual desktop infrastructure (VDI). VDI means the actual instances of Windows desktops and their associated applications are stored and executed on the servers hosted within the PC2 enclosure. That means all that is deployed to the desks are zero clients, screens and keyboards. The advantage of this is:-

- No maintenance on the endpoints, they are just devices you switch on, and contain no hard drive or moving parts.
- Rapid deploy/change. When one desktop instance is modified on the server the change can be immediately pushed out to the other endpoints. All software and hardware upgrades, security policies, application changes, can be made back in either the data centre or on-premises server depending on your chosen configuration.
- The end points are stateless, and contain no data, so should they be lost, destroyed or fall into the wrong hands, no sensitive data can be extracted.
- Should one of the endpoints lose connection while the user is part way through working on a document or website, the user will be returned to where they left off and this is the case even if they have logged on to a different terminal.
- Users can move between multiple endpoints and consume their personalised or generic workPC2s/apps/data. Again, this means PC2 is ideal for dynamic policing incidents.

Communication and Collaboration

The PC2 delivery platform can be configured to host a Lync communication and collaboration service that can support VoIP wireless compatible handsets and desktop based soft phones. This will enable VoIP communications, instant messaging, desktop sharing, file sharing and a number of other features between PACS users.

Features

The unit can come in a number of variants from a briefcase sized unit utilising trailblazing technology to reduce low Size, Weight and Power (SWaP). This initial entry unit supports 4 users and other options can be scaled out to semi-permanent solutions from HQ Support Services.

Some of the key service delivery characteristics include:

- Centralised autonomous capability for Official Services on a Virtualised Platform.
- This allows for long line remote hands support and permits over the air intervention when needed.
- Applications, users and functionality can be provisioned over the air and added while deployed in the field.
- PC2 can connect to any bearer of opportunity using NCSC approved encryption, with over the air re-keying reducing the local custodian overhead.
- Will connect to 3/4G, Internet, sat Internet, BGAN, BiaB
- UADs are RAS devices or Zero Clients. RAS devices can connect to deployed system or long-line reach back to UK when offsite.
- Local Wi-Fi capability to enhance flexibility and mobility.
- The PC2 box will provide a forward solution for collaboration and authentication.
- PC2 provides endpoint user devices from a single user to 100 users as standard, including if required VDI and Zero Client Desktops, Laptops and Secure Official wireless. As the service is scalable it can increase the user count considerably.
- Full access to applications hosted on PSN(P)
- Shared storage functionality for sharing data between service consumers with the ability to synchronise with services hosted on the PSN.
- Office productivity suite such as email, messaging, conferencing, Word, Excel, PowerPoint, SharePoint.
- Rapid deployment through portable hardened enclosures.
- Resilient to avoid single points of failure.

PC2 can support the deployment with the same user account and dataset throughout. Once PC2 is connected all administrators will be able to create accounts and this is a real benefit for local administrators.

Prolinx can further support with a Black VoIP solution that can be connected.



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