Roke

CC1

CHARLIE CHARLIE ONE

MANAGEMENT LAPTOP

CONTROL YOUR BATTLESPACE

Background

Roke recognises that people, not equipment, are the critical component in all operations. We also understand the significant physical and cognitive burden faced by our war-fighters and understand how the application of technology can help reduce both of these factors.

The Roke CC1 Management Laptop is designed to support the Charlie Charlie One (CC1) tactical smartphones. The CC1 Management Laptop provides the user with the ability to configure and apply security and user policies to meet changing tactical environments and re-provision to recover following security events.

Built into the Roke CC1 Management Laptop are the 'Config Tools' which enable soldiers to manage all aspects of the system while deployed. Users can apply the same settings and security policy to all CC1s in the network quickly and easily through the use of a QR code, and devices can be re-provisioned in the field from a 'stand-alone' laptop that requires no external activity – even after a factory reset. The 'Config Tools' also allows soldiers to tailor security and user policies to meet evolving operational needs such as; Emissions Control (EMCON) or whitelisting Wi-Fi and Bluetooth devices to apply to all CC1 devices or to selected CC1 devices.

Specifications

| Device	Panasonic Toughbook FZ-55	
Processor	Intel® Core™ i5-1145G7 vPro™ Processor	
Display	**Size** 14" Active Matrix (TFT) colour LCD	**Resolution** 1366 x 768 (HD)
Storage/Memory	**Storage (GB)** 256 NVMe OPAL SSD	**RAM (GB)** 8 GB DDR4
Interfaces	USB 3.2 x 2 Thunderbolt 4 x 1 Micro SDXC Memory Card x 1 HDMI x 1 Headset x 1 DC In x 1 Port Replicator x 1	
Operating System	**Windows Server 2022** including DHCP server to allow the simultaneous connection and provisioning of multiple CC1 smartphones	
Physical Specification	**Dimension (HxWxD, mm)** 272 x 345 x 32.8	**Weight (kg)** 2.08
Battery	**Battery Capacity (mAh, Typical)** 6500	
Enabling Features	**Knox Licencing Server** to provide a Knox licence to up to 10 million CC1 devices **CC1 platform configurator,** providing the ability to generate mission and user configurations **CC1 bootstrap server,** providing the ability to upload policies, licences, and additional Apps to CC1s through a simple QR code	
Accessories	Belkin USB-C to Ethernet converter cable	

Note: The physical hardware might be subject to change based on availability when ordered.
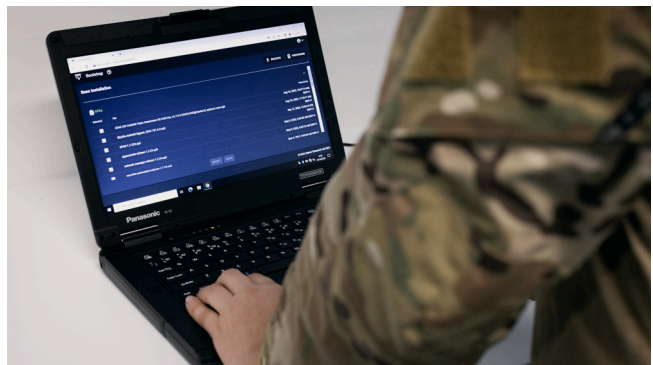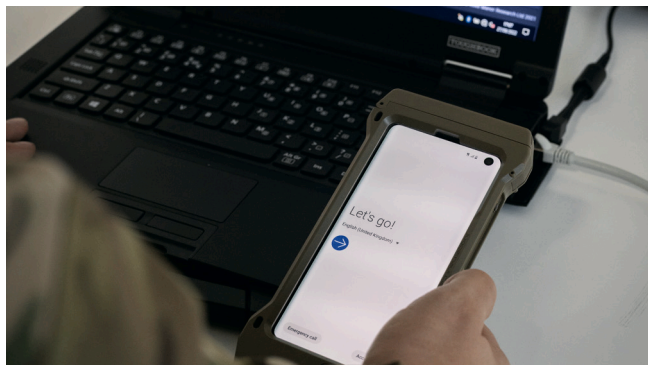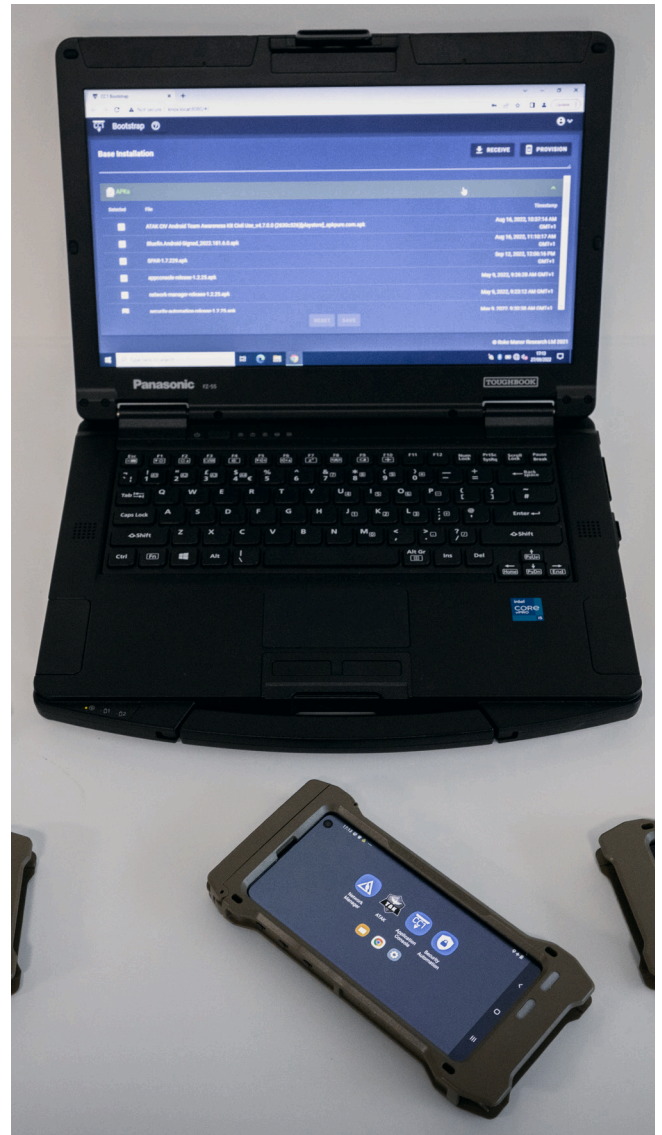
CC1 Platform Applications

Platform Configurator

CC1 Platform Configurator is a web browser based Policy Configuration Tool designed to generate individual configuration policy files for each of your missions and user profiles.
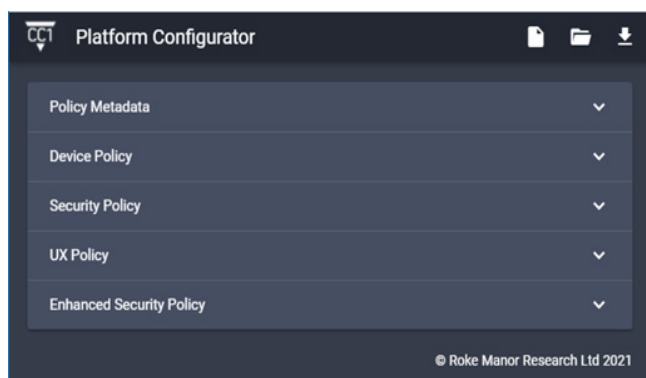
Configuration categories:

- Policy Metadata, to provide a name, description and version of the CC1 platform configurator policy

- Device Policy, to allow developer mode for manual commands and EMCOM to switch off the device cellular communications (including emergency 911 mode)

- Firewalls, enabling whitelisting and blacklisting of network transmissions from particular addresses, ports and interfaces

- Enable or disable WiFi and/or Bluetooth. Allow or block particular WiFi SSIDs or Bluetooth Devices or Profile Identifiers

- Automatic encryption of external media (if fitted)

- UX policy to change the display screen timeout, brightness and touch sensitivity. Also allows button remapping

- Enhanced Security Policy to define the terminal action (factory reset, shutdown, cleanse of a folder)

- Futher security enforcement including Security Automation, responding to lost or stolen devices

CC1 Management Laptop Applications

Bootstrap Server

CC1 Bootstrap Server is a web browser based tool that combines policies generated in CC1 Platform Configurator with user application .apk files and the CC1 custom binary for the target CC1 smartphone version.

Certificates and configuration files for the Samsung Knox licencing server are also loaded into the CC1 Bootstrap Server.
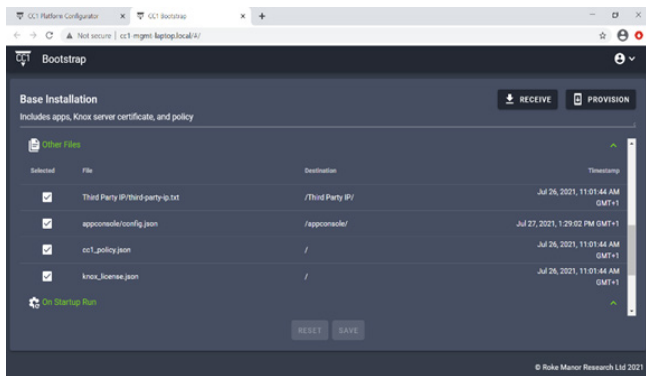

Configurations for upload to the CC1 smartphones can be stored and loaded to allow different configurations to be used for different mission profiles and for different operator profiles.

Configuration Areas:

- APKs including the base APKs required for the CC1 applications and any relevant service applications for the target CC1 smartphone. Any user APKs such as Battlefield Management Applications (BMAs) and associated plug-ins can be added for upload to the CC1 smartphone

- Knox licence certificates to authenticate the CC1 smartphone

- Other files for the configuration of the third party applications and Knox

Once configured, the provision button is pressed to generate a QR code on screen which links to the Bootstrap Server policy.
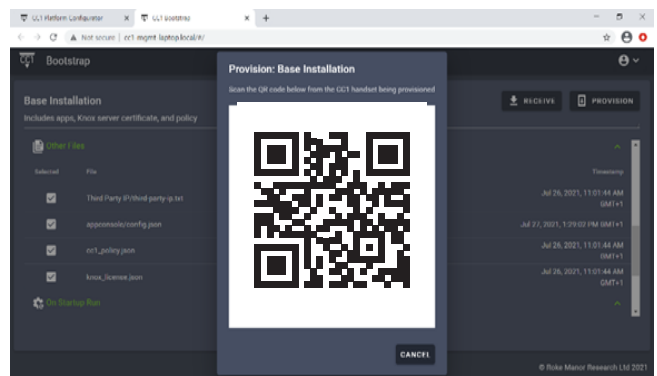
The QR code can be linked to, and executed by any CC1 smartphones, including in factory reset mode to upload the policy and configure the device.

ROKE

For more information on the items discussed
in this document you can contact us

Call: +44 (0)1794 833000
Email: info@roke.co.uk
Visit: www.roke.co.uk

We believe in improving the world through innovation. We do it by bringing the physical and digital together in ways that revolutionise industries.

That's why we've fostered an environment where some of the world's finest minds have the freedom, support and trust to succeed.

Roke is a team of curious and deeply technical engineers dedicated to safely unlocking the economic and societal potential of connected real-world assets. Our 60 year heritage and deep knowledge in sensors, communications, cyber and AI means our people are uniquely placed to combine and apply these technologies in ways that keep people safe whilst unlocking value. For our clients, we're a trusted partner that welcomes any problem confident that our consulting, research, innovation and product development will help them revolutionise and improve their world.

If you're bringing the physical and digital worlds together, we'd love to talk.

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