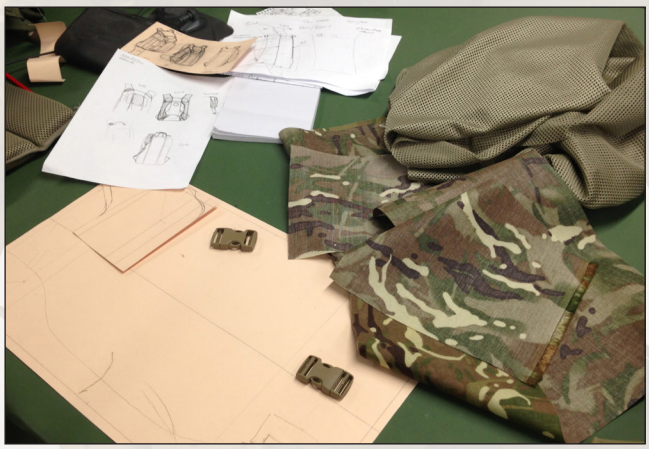
Integrating the Soldier Platform

Integration by Design

CQC have built a wealth of expertise around integration and the development of lighter, more capable dismounted solutions.

Utilising current and ground-breaking design techniques we have delivered world class integrated solutions to further enhance end user survivability and operational effectiveness.

Ranging from fully integrated power management systems, to the development of bespoke carriage and protection solutions using current and legacy dismounted C3i systems, CQC continue to lead the way in integrated modularity, capability and survivability.



by design by innovation by commitment by quality

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Integrating the Soldier Platform

Man Worn Power & Data

In May 2012 CQC undertook to support the UK MoD as part of the MWPD TDP (Technical Demonstrator Programme). The aim of the programme was to simplify connectivity and reduce the weight of soldier worn electronic systems.

CQC were delighted to be part of a world-class team of companies tasked with not only designing a new system, but ensuring the design was fully integrated without compromising on protection, and enhancing the wearer's overall effectiveness, comfort and capability.

The approach focused on reducing system complexity, removing exposed cables and preventing snagging. The flexible power architecture allows the soldier to tailor the battery weight carried to the mission profile, and to be fully informed of their electrical power status.

A single high speed USB2.0 wiring system based around the USB2.0 standard, integrated into the Osprey body armour vest, replaces the 'cable spaghetti' currently used to link the portable devices carried by the soldier. This enables adaptive control of the power flow through the clothing so that a wide range of batteries can be recharged using power from any available power source, such as vehicle, APU, operating base mains supply or a solar panel. Low priority devices are automatically disconnected when power is running low. Innovations such as 'stitchable' connectors and inductive charging were also incorporated.

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