



A security-focused operating system for cloud and online applications

For many organisations an increasingly large number of their user population is becoming “cloud native”, consuming public or internal online services, with their user devices becoming little more than a platform to launch a browser. Yet the typical combination of feature-laden operating systems and third party client applications presents a level of software complexity that ensures that end user devices remain the target platform of compromise for the majority of cyber-attacks.

Find out how Paradox, a security-focused operating system designed specifically for cloud and online applications, can help...



Organisations are **spending more** on security as a result of regulations, shifting buyer mindset, awareness of **emerging threats** and the evolution to a digital business strategy.

A customer project - HMG Cloud Client™

The HMG Cloud Client™ is a National Cyber Security Centre (NCSC) project that seeks to develop standards to enable safe use and sharing of end user devices by users from multiple organisations, using standards-based remote attestation. Key features include a TPM-based measured boot process, and a non-persistent approach to avoid sensitive data being written to storage. Cloud Client is based on open source technologies and utilises Paradox.

Why use a cloud client model?

In order to combat the level of software complexity that feature-laden operating systems and third party applications present, a cloud client model is an extremely viable alternative. That is because cloud-client or browser-based operating systems are optimised specifically for cloud-focused environments, which not only reduces software complexity on end user devices but also delivers significant security and cost benefits. At the same time these systems retain the level of local application and configuration support required within diverse fixed and mobile computing environments.

Paradox – a government approved client-cloud model

Becrypt's Paradox is a security-focused operating system supporting the cloud-client model, and designed in collaboration with UK government to address stringent security requirements. Through a combination of secure boot, cryptographic checks of authorised applications and remote attestation, organisations are assured that devices running the Paradox operating system are in a known healthy state, free of malware, every time a device is started.

Key benefits of the Paradox operating system include:

- Designed and accredited in collaboration with UK Government
- Cloud client architecture has been optimised for secure access to online applications
- Simplified breach detection and recovery
- Automated security and patch management, ensuring that devices are always kept up-to-date

Paradox, a cloud client with a difference



secure by design architecture

Paradox - secure by design

The security focused operating system incorporates a 'secure by design' architecture, ensuring devices remain in a known good healthy state, free of malware.

Key benefits of Paradox include:

- Trusted boot process ensures cryptographic validation of firmware, operating system and all application components
- Standards-based end to end remote attestation protocol with hardware-based (TPM) root of trust
- A light-weight operating systems with reduced attack surface, ensures Paradox is not susceptible to common exploits
- OS components mounted as read-only to prevent persistent targeted attacks
- Sandboxed user account for privilege escalation prevention and detection
- On premise or cloud hosted management infrastructure for rapid, automated and transparent patch management
- Architecture ensures high-value, low-volume audit events with SEIM integration
- Supports diverse hardware platforms including: desktops, laptops, thin-clients portable thumb

An incredibly cost effective approach

The integrated 'cloud client' model removes the need for third party software such as anti-virus, IDS, personal firewalls, thereby reducing costs as well as complexity and simplifying automated patch management.

Additionally Becrypt's Paradox Edge managed service offering provides an optional cloud hosted end to end 'device as a service' platform that organisations can utilise.





Why #becrypt

With a heritage of creating National Cyber Security Centre certified products, Becrypt is a trusted provider of endpoint cybersecurity software solutions. Becrypt helps the most security conscious organisations to protect their customer, employee and intellectual property data. It has an established client base which includes governments (central and defence), wider public sector, critical national infrastructure organisations and SMEs.

As one of the early pioneers in disk encryption software to today being first to market with a unique desktop operating system, Becrypt continues to bring innovation to endpoint cyber security technology. A recognised cyber security supplier to the UK government, Becrypt's software also meets other internationally accredited security standards. Through its extensive domain and technical expertise, Becrypt helps organisations optimise the use of new cyber security technologies and its flagship security solution Paradox delivers a highly secure platform for the modern age.

Get in Touch

If you would like to find out more about Paradox please contact us on

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paradox
security meets simplicity

The Paradox family consists of:

Paradox is a security focused operating system that can be deployed on a variety of end user devices that optimises end user device strategies in terms of cost, security and flexibility. This highly secure operating system is aimed at organisations that are shifting their focus towards a cloud strategy and who are looking for the most secure desktop environment possible.

paradox^{edge}
security meets simplicity

Paradox Edge is a desktop-as-a-service offering or a secure cloud client, which is focused on providing exceptionally low cost of ownership for organisations who want a more cost effective but secure and efficient operating environment.

paradox^{link}
security meets simplicity

Paradox Link is for those organisations who want to collaborate securely with third party contractors.