parad**o**x edge

The Secure Device as a Service Offering

#becrypt

Paradox Edge Device as a Service (DaaS) allows organisations to rapidly deploy and cost effectively consume endpoint devices as a fully managed service. Using the Paradox secure endpoint operating system, Paradox Edge minimises ongoing cost of ownership, and simplifies compliance.

Paradox Edge helps organisations focus on the efficient delivery and management of their core business applications and services, ensuring a frictionless user experience.

> **"Using Becrypt, we are able to provision new users within 5 minutes, previously this would have taken us days. We can also adhere to stringent government security requirements while saving over 20% on our desktop management costs."**
>
> *East West Railway Company*

Paradox Edge leverages the Paradox secure operating system for endpoint security, automating patch management and providing transparent service and device security.

The platform allows organisations to focus on core business activities, reducing the cost of endpoint estate management and significantly reducing associated risks. Delivered as a fully managed solution, it provides peace of mind over the security, integrity and delivery of the desktop management platform.

The Paradox OS is an innovative security-focused operating system, designed to meet cloud, web and virtualised application access requirements, through a secure browser and lightweight application environment.

Paradox provides a platform for accessing public or private cloud resources, online applications and virtual desktop infrastructures, supporting device and user identity management.

Paradox Edge includes a range of Paradox Certified hardware devices as configuration options, inlcuding laptops, desktops and thin clients.

Features and Benefits

- Lower costs – no need to deploy complex management estates for Windows desktops
- Automates application, audit , patch and security management
- Optimised to support rapid piloting of new Cloud Services
- End to end offering includes both management infrastructure and client software
- Intuitive browser-based End User Device platform
- Simple Web-based estate management reporting
- Supports separation of infrastructure management and service delivery
- Simplifies compliance against Cyber Essentials+, ISO27001, DEF STAN 05-138
- Compatible with common VDI & VPN clients

Key Security Benefit of Paradox Edge - Device as a Service

- Trusted boot process ensures cryptographic validation of firmware, operating system and all application components
- Remote attestation guarantees the health of devices accessing services
- A light-weight operating system 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
- Cloud hosted management infrastructure for rapid, automated and transparent patch management
- Architecture ensures high-value, low-volume audit events with SEIM integration

Service Components

Becrypt or designated partners where agreed, provide expert 3rd line service desk support, including logging, incident tracking and service requests accessed and monitored by a dedicated Service Management tool. Customers may run extensive reporting from the service dashboard to query device and user status, policy configuration, messaging and audit logs.

- Paradox endpoint licensing
- Optional hardware provision of Paradox Certified devices
- Training
- Platform initialisation supporting redundancy, bandwidth and location requirements
- Helpdesk Access
- Endpoint vulnerability management
- Transparent endpoint patch management
- Protective Monitoring
- Compliance and certification support

- Configuration of management console access
- Initial Desktop configuration (look and feel)
- Additional application packaging (e.g bespoke apps)
- Application, user and administrator policy configuration
- Certificate management
- Identity and access management integration
- User enrolment
- Integration testing
- Deployment support
- Ongoing Policy Management

Hosting Options

Standard
- Public Cloud Multi-tenancy
- Location - UK
- Service Management - Becrypt

Dedicated
- Public Cloud Single-tenancy
- Location - UK
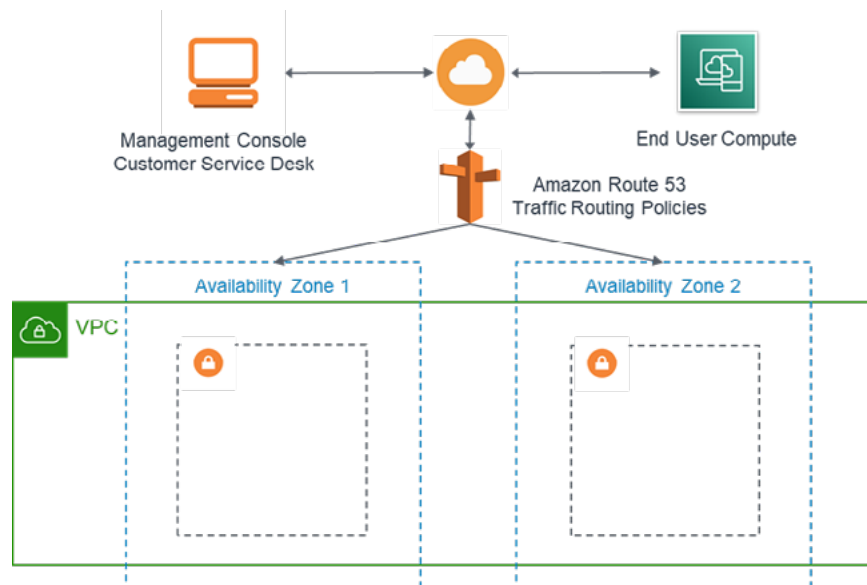- Service Management - Becrypt

Custom
- Custom Location - as requested
- Service Management – Becrypt, Customer or Hybrid

Cloud Infrastructure Overview

The standard architecture employs AWS for underlying network, compute and storage resources deployed across multiple availability zones, providing load balancing and failover between replicated services.

Network traffic between management services, administrative console access and end user devices is controlled through inherent AWS security features and device management traffic is load balanced through AWS Route 53.

Management Console
Customer Service Desk

End User Compute

Amazon Route 53
Traffic Routing Policies

Availability Zone 1   Availability Zone 2

VPC

Summary

Organisations may select a preferred cloud infrastructure (AWS, Azure or private), deploy client devices, and then manage users through an intuitive web management console. Paradox Edge allows organisations to select a range of comprehensive support options from Becrypt or our certified partners, providing end-to-end cloud-to-device expert support. Paradox Edge flexibility caters for organisations from agile start-ups, through to large scale enterprise environments, with use-cases ranging from workplace mobility, to supply chain security, and from office productivity to bespoke business applications, supporting diverse hardware devices including desktops, laptops, thin-clients, tablets and even bootable thumb-drives.

The integrated 'cloud client' model in the Paradox Edge platform removes the need for third party software such as anti-virus, IDS, personal firewalls, reducing cost and complexity and automating patch and vulnerability management. Paradox device identity may be used to enforce supply chain security for collaborative environments.

Why
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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.

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 are looking for a secure and assured desktop environment.

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Get in Touch

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