

Sure Data Centres

Dual Data Centre Resilience

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Sure's Tier III data centres are located in Guernsey and Jersey and are fully resiliently connected to each other and global telecommunications networks.

The facilities are highly secure and have dual power feeds as well as resilient on site generation.

Both data centres are geographically separated by virtue of being on two islands 43km apart. This allows unparalleled resilience and reliability as duplicate instances of servers and data can be created.

Having geographic separation is important, but having that separation between Tier III data centres within synchronous replication distance on two islands is unique.

The security and reliability enabled by Sure data centres is exceptional.

There is also geographic and independent political separation from the UK mainland and Europe.

Synchronous replication ensures all data written in the source storage is simultaneously written in the target storage, and waits for acknowledgement from both storage arrays before completing the operation. This relies on matching storage between source and target with fibre channel latencies to minimize the performance overhead of the link between the storage arrays. The advantage of synchronous replication is that in the event of a disaster at the Primary host, data can be recovered from the surviving Secondary host without any loss, because the Primary and the Secondary host contain the same data.

Sure's ultra high bandwidth connectivity facilitates the transfer of huge amounts of data between the two data centres at the lowest possible latency.

Connectivity

The data centres are hyper connected with multiple fibre links, allowing near real-time data replication between the locations.

- › Ultra-low latency <0.5mS
- › 43km/27 miles
- › Synchronous replication
- › Enables rack-to-rack cross connect between islands
- › Geographic separation
- › Ultra-high bandwidth, including fibre-channel connectivity
- › Protocol transparent
- › Global connectivity to Level 3, Vodafone, Colt, NTT & LINX

