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Civilian Contractor 1

Joint Force Command (JFC)

RFQ028

Data Storage Transition Strategy

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3. TRANSITION PHASES

3.1. Hardware Installation and Commissioning

- 3.1.1. The hardware for UKSF4 and UKSF3 will initially be installed and commissioned in the UKSF4 DC at UKSF4
- 3.1.2. Hardware will also be installed in the Reference Rig at LG
- 3.1.3. This will enable the migration processes to be developed and fully tested using representative data.

3.2. Initial Data Migration

- 3.2.1. File data - There are two distinct types of file data within this category and each type will be treated separately:
- GEO Map Data – Migrated to 3PAR using a robust Block level copy procedure, a NetBackup process, or alternative performant robust file copy.
 - General File Store areas – Migrated to 3PAR using a robust Block level copy procedure, or alternative performant robust file copy..
- 3.2.2. Initial copies of all File data will copied onto both UKSF4 and UKSF3 hardware.
- 3.2.3. The UKSF3 hardware will then be de-commissioned, shipped, re-installed and commissioned at UKSF3
- 3.2.4. Details of the process to minimise disruption to service will be provided in the RFQ028 Transition Plan

3.3. Services and Associated Data Migration

- 3.3.1. Delta copies will constantly be taken to ensure that File data is kept up to date as much as possible. Cutover to the new hardware will require some downtime.
- 3.3.2. User Awareness circulated to relevant Users.
- 3.3.3. Exchange Mail Boxes - these will be migrated either:
- Storage Group at a time. This will require downtime per storage group.
 - Mailbox Migration to Software Details (Dependant on RFQ036). Downtime required per mailbox, or group of mailboxes. More granular approach than above.

Details of the process to minimise disruption to service will be provided in the RFQ028 Transition Plan.

- 3.3.4. ESXi VMFS file stores – vMotion will be utilized for online migration where appropriate.
Details of the process to minimise disruption to service will be provided in the RFQ028 Transition Plan.
- 3.3.5. SQL Databases – The process used to migrate the databases on to the 3PAR Storage may differ per dependent application. Details of the processes to minimise disruption to service will be provided in the RFQ028 Transition Plan.
- 3.3.6. Table 1 below gives the list of services to be migrated along with associated data volumes.

Table 1: Services and Associated Data Volumes

Service	Details of Associated Data Volumes
Geoviewer Cache	
Geo Analysis – raw product	
Geo Analysis – final product	
Exchange	
SharePoint	
User profiles	
Group File Share	
System updates	
AV Definitions	
Non Business Critical Data	
Operational Applications and Services	
Imagery Analysis	
Total	

3.4. Acceptance

3.4.1. Acceptance will be based on the following criteria

- All defined, valid data has been successfully transferred between storage environments
- Applications and services can successfully access that data.

3.5. Rollback

3.5.1. There are a number of differing scenarios and rollback criteria regarding the various data types. More detailed descriptions will be provided in the RFQ028 Transition Plan.