



# Nexus “Large File” Requirements

UK Link Committee – 14<sup>th</sup> January 2016

# Background and Objectives

## Background

- Nexus enshrines new data exchange requirements in the Uniform Network Code
- Some of these result in higher file transfer volumes than we've had previously

## Objectives

- Ensure a common understanding of these volume requirements
- Discuss options for mitigating the capacity risks for I'X connections
- Enhance understanding to provide a change summary for formal agreement at a future UKLC

**xserve**



respect > commitment > teamwork

# Volume Requirements

See embedded spreadsheet right.  
This contains volume projections  
for the “large files”. Column  
descriptions on the next slide.



Large Files  
Volumetrics

xserve



respect > commitment > teamwork

# Volumetric Estimate Columns

Column	Description
File Type	Three character file type code.
Kbytes / MPRN	The size in Kbytes per MPRN that the file contains.
Schedule	The schedule for the file to either be sent to Xoserve or from Xoserve.
Peak MPRNs	The estimated peak number of MPRNs for a scheduled run. Blue shading indicates a relationship to parameters that can be selected from the drop down above.
Peak Size	The peak size calculated from the “Peak MPRNs” and “Kbytes / MPRN”. Note that measures are implemented to split large files in to smaller files, so this is the total volume to be transferred and not the individual file size.
Notes	Further notes of explanation.

**Xoserve**



respect > commitment > teamwork

# Options to Mitigate I'X Capacity Constraints

## Software Compression

- Xoserve uses software to compresses files as they produced
- Recipient must un-compress the files on receipt

## I'X Bandwidth Upgrade

## Network QoS

- Proportion of I'X capacity is reserved for priority services

## Network Compression

- Xoserve uses network compression between I'X end points
- In Xoserve's telecomm service providers product catalogue from March

**xoserve**



respect > commitment > teamwork

# Option Comparison

Option	Network Scope	File Contents	Optionality	Functional Scope	Available Now?	Installation / Service Charge	Installation at Site	Network Provider Lead Time	Customer Action Required
Software Compression	End-to-End	Obscured	TBC	Specific outbound files	Yes	No	No	No	Yes
I'X Bandwidth Upgrade	I'X	Not obscured	Yes	All	Yes	Yes	No (TBC)	Yes	No
Network QoS	I'X	Not obscured	Yes	All	Yes	Yes	No (TBC)	Yes	No
Network Compression	I'X	Not obscured	Yes	All	No (March)	Yes	Yes	Yes	No

**xserve**



respect > commitment > teamwork

## Software Compression

- If you want software compression either because of an I'X capacity constraint or for movement of the file over your own networks; and
- We can offer software compression optionally; then
- Progress this option with you.

## Share our assessment of volume requirements vs. your individual I'X link capacities

- Factor in where we land on software compression;
- Progress I'X link upgrades if jointly agreed.

**Xserve**



respect > commitment > teamwork