

# Datacentres. No Problem.

## Company Overview

Mafi Mushkila was formed in 2002 by Dave Wolfenden to act as a catalyst between IT and Mechanical & Electrical departments. The company logo translates from Arabic as 'No Problem' or 'I have no problem'; our goal is to take on and resolve our customers datacentre problems. Our mission is to provide excellent service throughout a project.

Mafi Mushkila is vendor agnostic. To broaden our experience the team regularly attend events organised by organisations such as Datacentre Dynamics, Gartner and AFCOM. We have relationships with a wide variety of cabling and racks manufacturers, systems integrators and implementers, making many factory and reference visits, as well as attending product seminars and trade fairs.

To assist customers to manage their datacentre operational risks or as part of developing a business case Mafi Mushkila has created a process and reporting template to complete a non-intrusive audit of customer IT Equipment (ITEC) rooms and datacentres. Typically this is based on a one day site survey and 1-week to prepare the report.

The team consists of up to twenty consultants and technicians, all experienced in the design, construction, fit-out and operation of datacentres on a global basis, in all market sectors. Team qualifications include:

- ITIL
- Prince II
- NEBOSH (Health & Safety)
- BTEC Datacentre Technician & Design Qualifications

The team is drawn from a variety of backgrounds, with a strong emphasis in project and programme management. We focus on successful delivery with minimal impact to the user; where the planning team are expected to have a detailed technical knowledge of what they are delivering and expected to 'get their hands dirty' to drive success.

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www.mafi-mushkila.co.uk



Mafi Mushkila's key areas of expertise are:

- Datacentre Design and Construction
- IT Infrastructure Design and Implementation
- Datacentre relocation / migration
- IT infrastructure (new) installation
- IT equipment decommissioning
- SAN and IP network design and implementation

*'Mafi Mushkila has been instrumental in the delivery of two major datacentre programmes on behalf of Aviva. Successfully achieving migration of critical IT assets within timescales and without unplanned impact to the business community.'*

Kevin Frazer, Director of Service Change & Delivery (UK ITS, Aviva)

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## Migration Services

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Mafi Mushkila can manage IT migrations from end to end, regardless of the size or complexity of the equipment to be relocated. Depending on the customer's requirements this can either be a manage role or hands on;

- Inventory of equipment
- Audit of services, identifying owners and creating passports
- Preparation of method statements and risk management
- Migration scheduling / planning
- Change control management
- Outage negotiation
- Cable patching schedule preparation
- Power distribution planning and management; including phase balancing
- Managing of third parties to facilitate migration of large floor standing equipment

Mafi Mushkila operates a fleet of vehicles that have been adapted for the transportation of IT equipment. Equipment is protected using anti-static bubble-wrap and foam, before being secured into custom made flight cases. Oversized or heavy equipment that does not have casters is manoeuvred using Gene lifts.



# Brown Field Site Datacentre Conversion.

## Project Background

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During the development of a 2250m<sup>2</sup> 750W/m<sup>2</sup> datacentre, Mafi Mushkila conducted a product / vendor selection on behalf of the client to select an integrated solution to deliver IT racks and copper / fibre structured cabling. IBM was selected to deliver the solution based on IBM ISF Internet Server Farm racks, IBM Fibre Transport Service (FTS) and Panduit CAT6 structured cabling.



<http://www.ibm.com/uk/>



<http://www.panduit.com/index.htm>

Mafi Mushkila has managed three projects to implement Aperture into three datacentres, totalling more than 8,500m<sup>2</sup>. This included tailoring the system to meet the customers requirements and subsequently populating the database.



<http://www.aperture.com/>

### Infrastructure Projects Mafi Mushkila has managed include:

- 2,250m<sup>2</sup> 750W/m<sup>2</sup> brown field datacentre conversion
- 2,512m<sup>2</sup> 1500W/m<sup>2</sup> green field datacentre construction, including 96 Rittal water cooled High Density rack solution
- 2 x 1,500m<sup>2</sup> operational datacentre upgrade (UPS, generator and switch gear)
- 15 rack Trox Liquid CO<sub>2</sub> cooled High Density installation
- Integrated Systems Test of an operational datacentre
- 5.6km dark fibre implementation
- 12.6km dark fibre implementation
- Datacentre 'recovery'

### IT Projects Mafi Mushkila has managed include:

- Storage Refresh from EMC to split EMC / HDS solution (1 PBytes)
- SAN switch re-design, to create layered design
- SAN extension (over 18km)
- IBM zSeries technology refresh from z900, z990 to z9
- Storage Refresh from EMC / HDS to HDS solution (1.6 Pbytes)
- IT migrations to facilitate consolidation from four to three datacentres
- International datacentre migrations from Dublin, Paris and Brussels to UK
- Software conversion projects

Mafi Mushkila has managed a series of projects to provide connectivity between IBM Mainframe services over distances that exceed the manufacturer's specification (ESCON, CLO links and Sysplex timer links). In partnership with IBM and ADVA, Mafi Mushkila implemented CWDM technology; delivering 640 ESCON channels utilising 10-fibre pairs, pier to pier VTS over 12.6km and connectivity to remote tape libraries.



<http://www.advaoptical.com/>