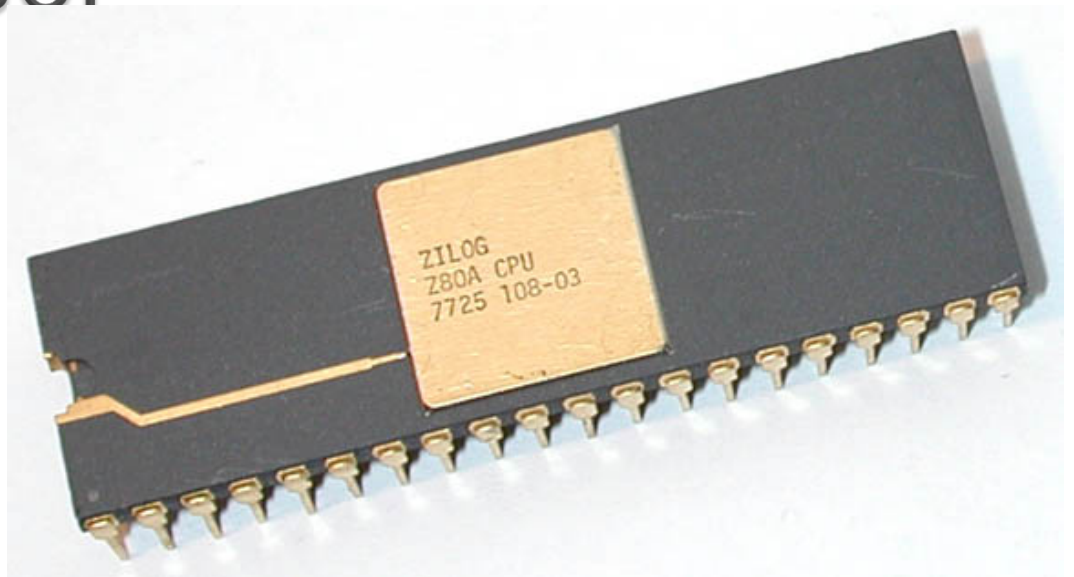




Understanding Complex Weather Patterns utilising the power of a Z80a processor



Universities sharing an IT Service

- ▶ The UPS
- ▶ and DOWNS




FALMOUTH
UNIVERSITY

Nathan Prisk
Head of IT Services



Agenda:

- A bit of history
 - The campus
 - Timeline
 - Falmouth Area Network 2004
 - Network Issues — Trusts –VPN – PBR- AD
 - Falmouth Area Network 2014
 - Technical problems – LDAP, Video conferencing, Phone systems
 - Political problems – 2 Unis 5 campuses timetabling
 - Software licencing – Microsoft Campus, Oracle. Adobe, Willey Databases. IP based services
 - Questions
- 

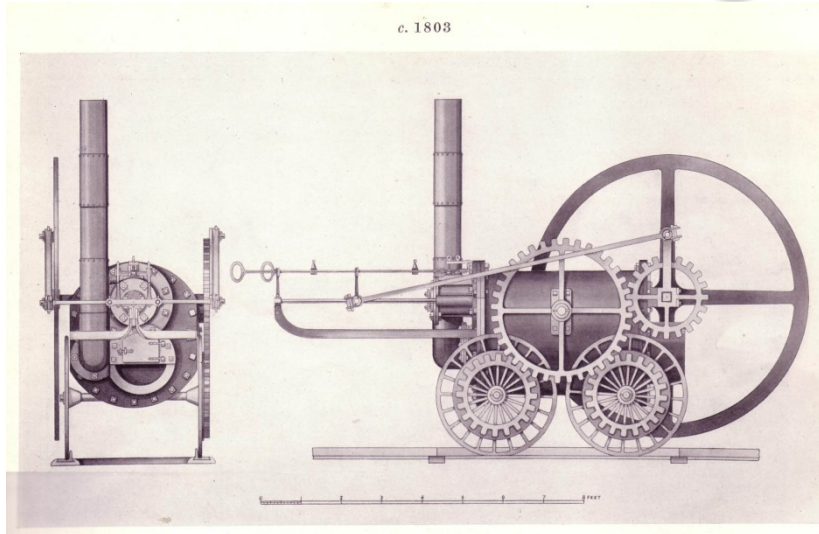


THE CORNISH PASTY (A RESUME)

CENSORED

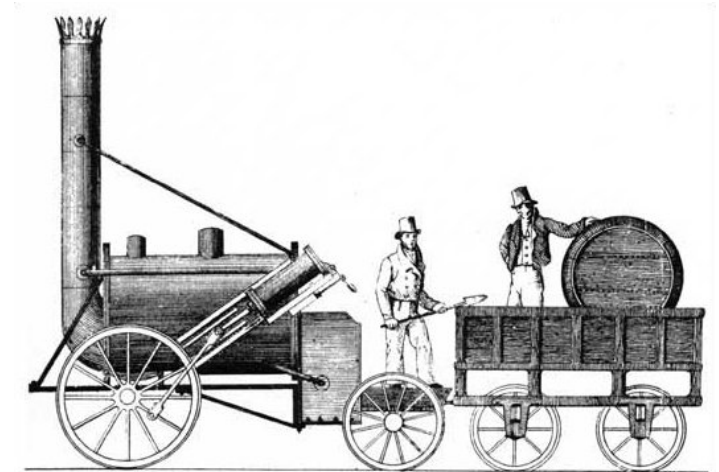


The steam engine



Richard Trevithick
1804-5

Cornish!



Robert Stephenson
1829

Not Cornish!

A Bit of history and introduction

- ▶ 6 First line staff which include IT suite support
- ▶ 12 Second Line Technicians
- ▶ 4 Infrastructure (networks, phones, AD , Lync and Exchange)
- ▶ 8 Data Architecture (MIS, Oracle, SQL, Vmware, Sharepoint , Backup, SCCM)
- ▶ 4 Heads of Dept and 1 Director
- ▶ Across 2 campuses
- ▶ Supporting 1000 staff and 5000 students
- ▶ Currently 92 Service level agreements on stuff that we support (not including applications)
- ▶ Challenges – Large scale IT suites, Procurement, Depth of support, Data security
- ▶

THE CAMPUS

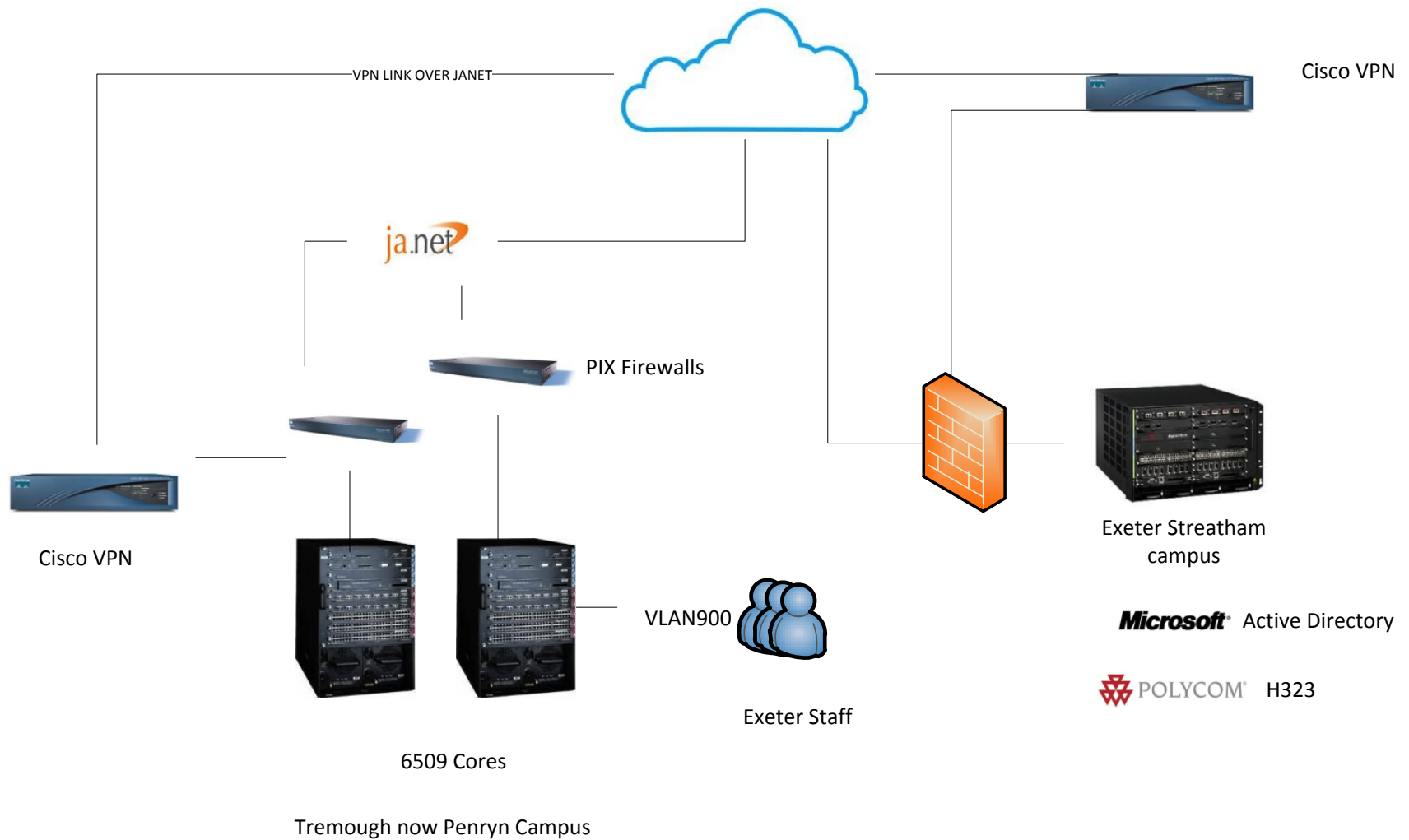


Timeline

- ▶ **1999** Falmouth University buys Tremough Campus
 - ▶ **2000** Falmouth University buys into Cisco and adopts VoIP (Call Manager 3)
 - ▶ **2002** Agreement to share Campus between Falmouth and Exeter (Planning begins)
 - ▶ **2003** First phase of new campus delivered including residences
 - ▶ **2004** Shared campus is opened with Exeter Staff & Students joining Falmouth
 - ▶ **2008** More shared buildings delivered and more residences
 - ▶ **2012** ESI Exeter specific building, AIR Falmouth specific and joint Library extension
 - ▶ **2014** New research centre for Exeter
- 



THE CAMPUS in 2009



The Network in 2004

Network Issues

Trusts –VPN – PBR- AD

IP addresses 144.x.x.x

Database Providers like Willey secure by IP range

VPN was setup via two Cisco VPN concentrators to create a link between Falmouth & Exeter

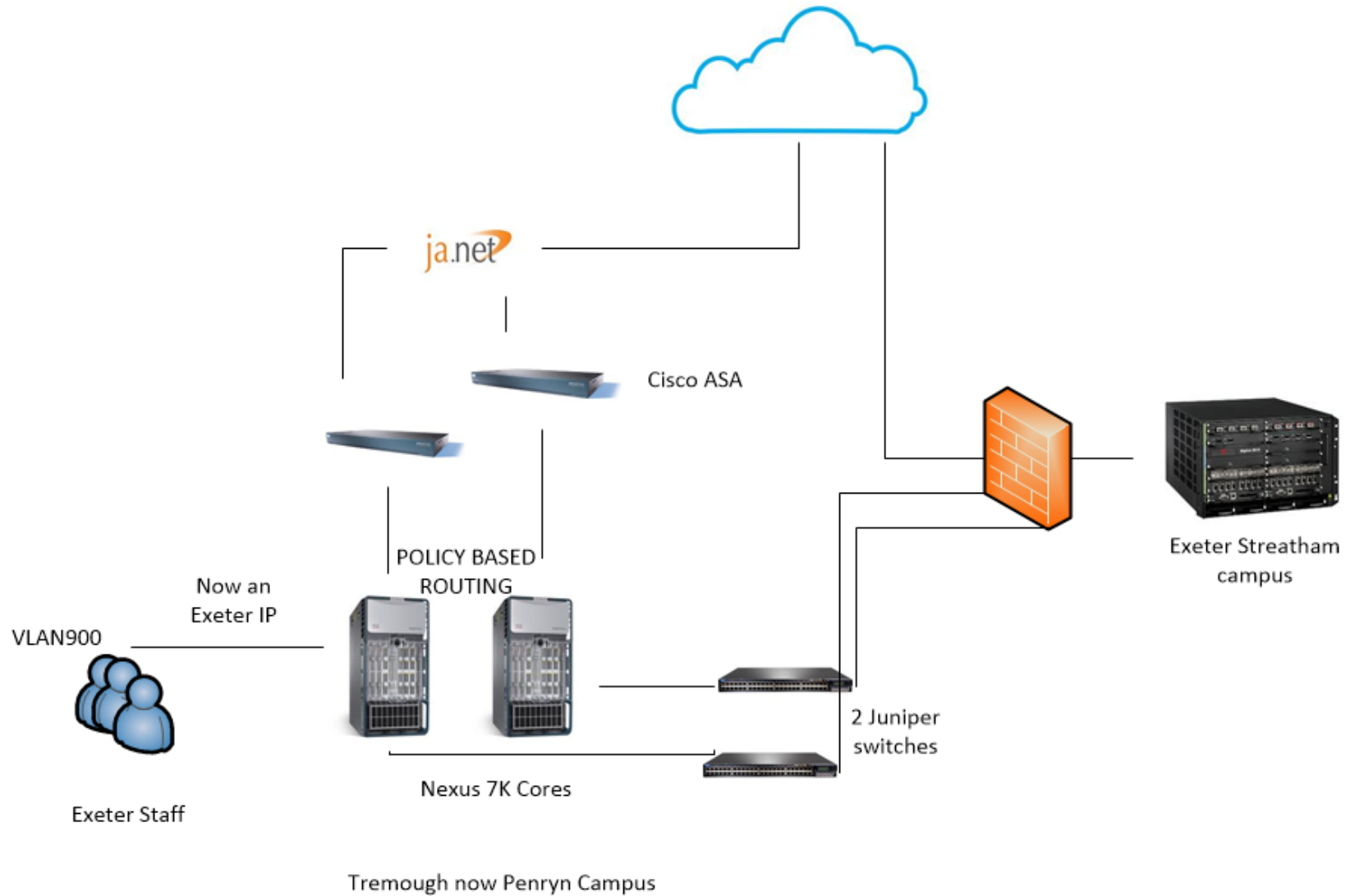
However...(There are lots of howevers in the presentation!)

VPN by design encrypts data which is fine however (told you) it is far from ideal for heavily compressed traffic eg Video Conferencing which was a large part of the delivery for a number of courses

Active directory was also impacted by not having any local AD controllers, slow logons and timeouts being quite common

These last two issues forced a rethink





The Network in 2014

Network Issues

Trusts –VPN – PBR- AD

Scenario 1. Falmouth student/staff look at www.exeter.ac.uk

Scenario 2. Exeter Staff on VLAN 900 look at www.exeter.ac.uk

Scenario 3. Resnet Traffic – Treated as inbound traffic

All ok for now!

However....

Scenario 2. Has some options based on another destination. le Voyager.

What about Exeter students on the ResNET? – Unfortunately it is not possible without the use of 802.1X and dynamic VLAN allocation technology to redirect UEC students to the Exeter LES Circuit.

Network Issues

Trusts –VPN – PBR- AD

Active directory trusts or Who trusts whom!

LDAPS / Group policy to disable

Lync/OCS

Political problems

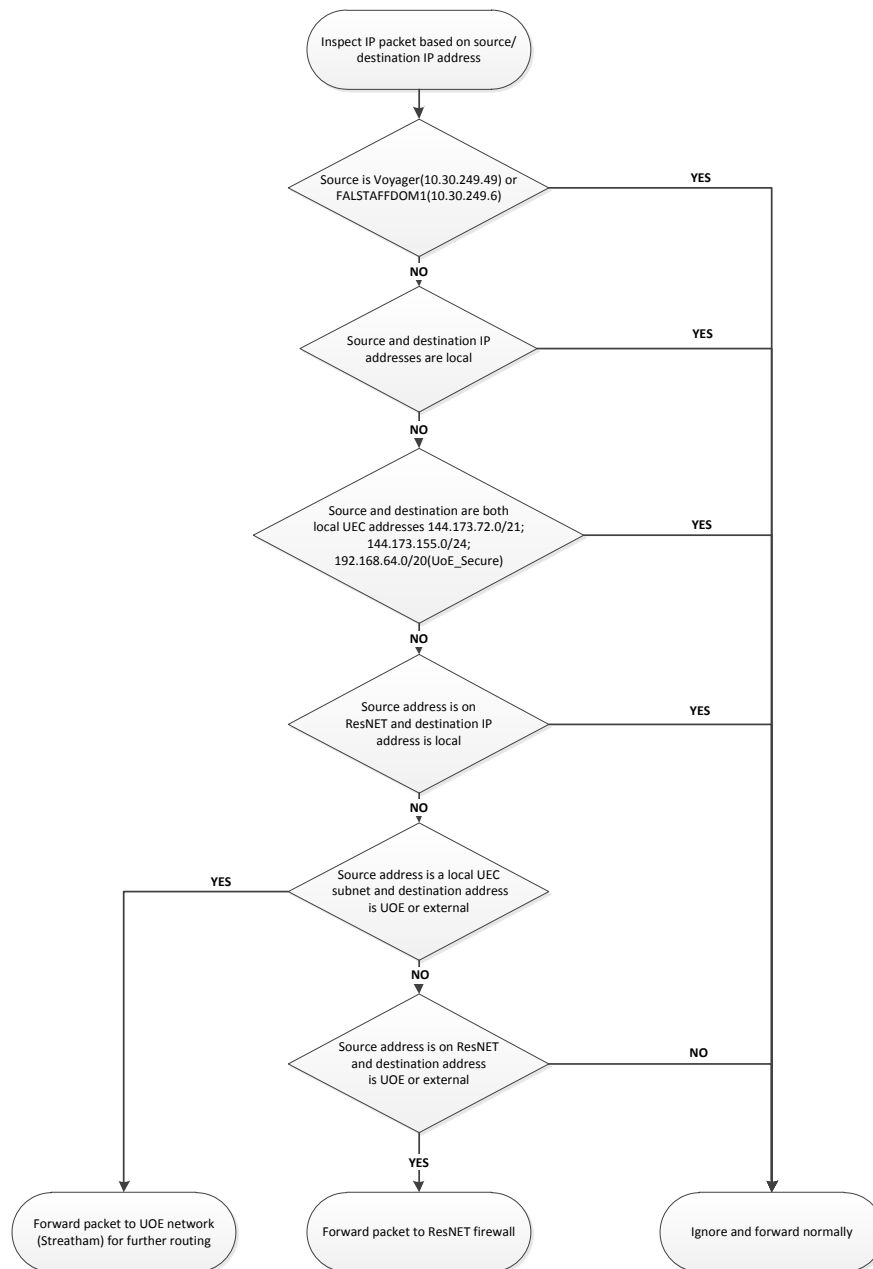
2 Universities with 5 campuses

timetabling



Software licencing

Microsoft Campus,
Oracle.
Adobe,
Willey Databases.
IP based services



Questions?

