

RMDCN Migration at ECMWF

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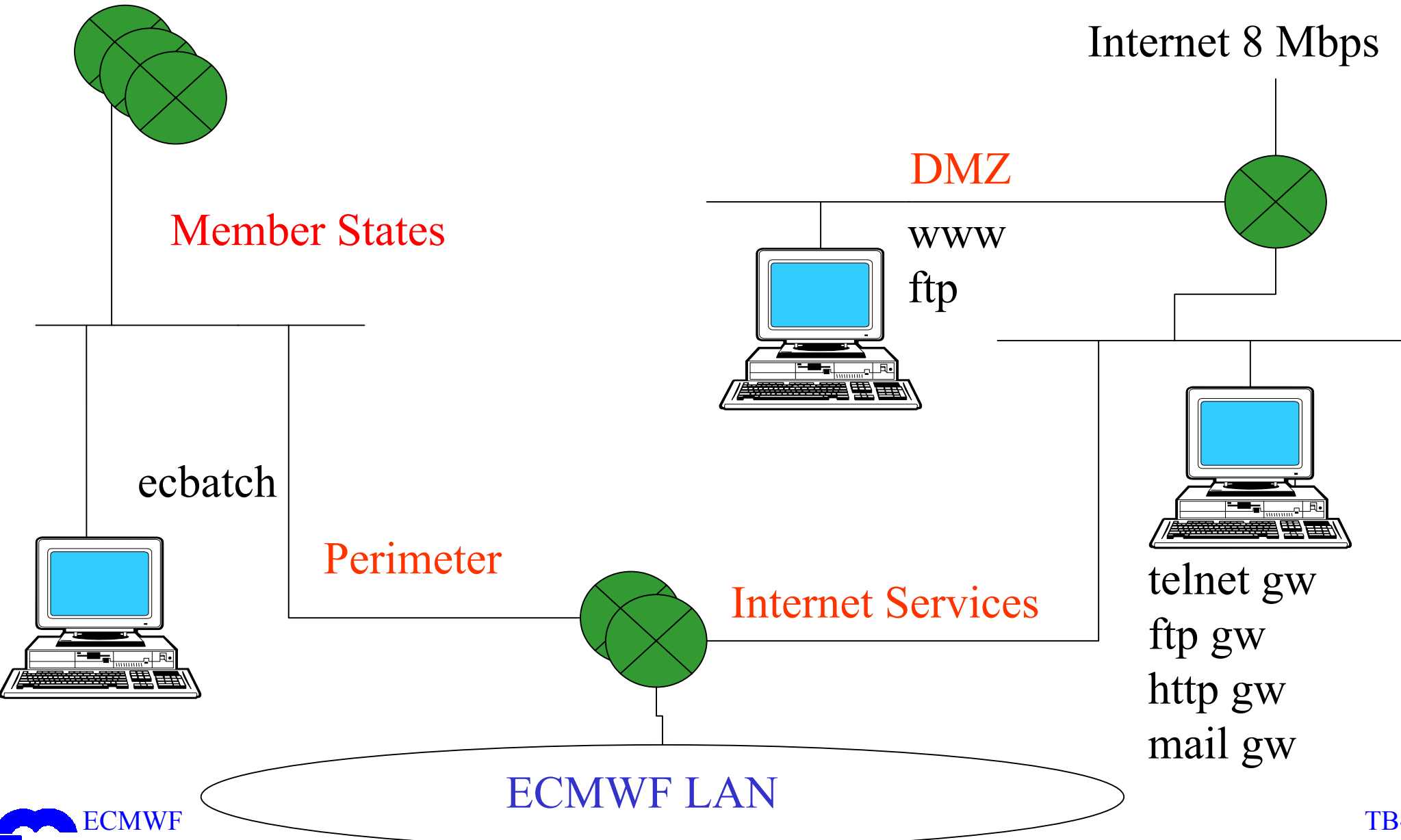
Network and Security Section

ECMWF

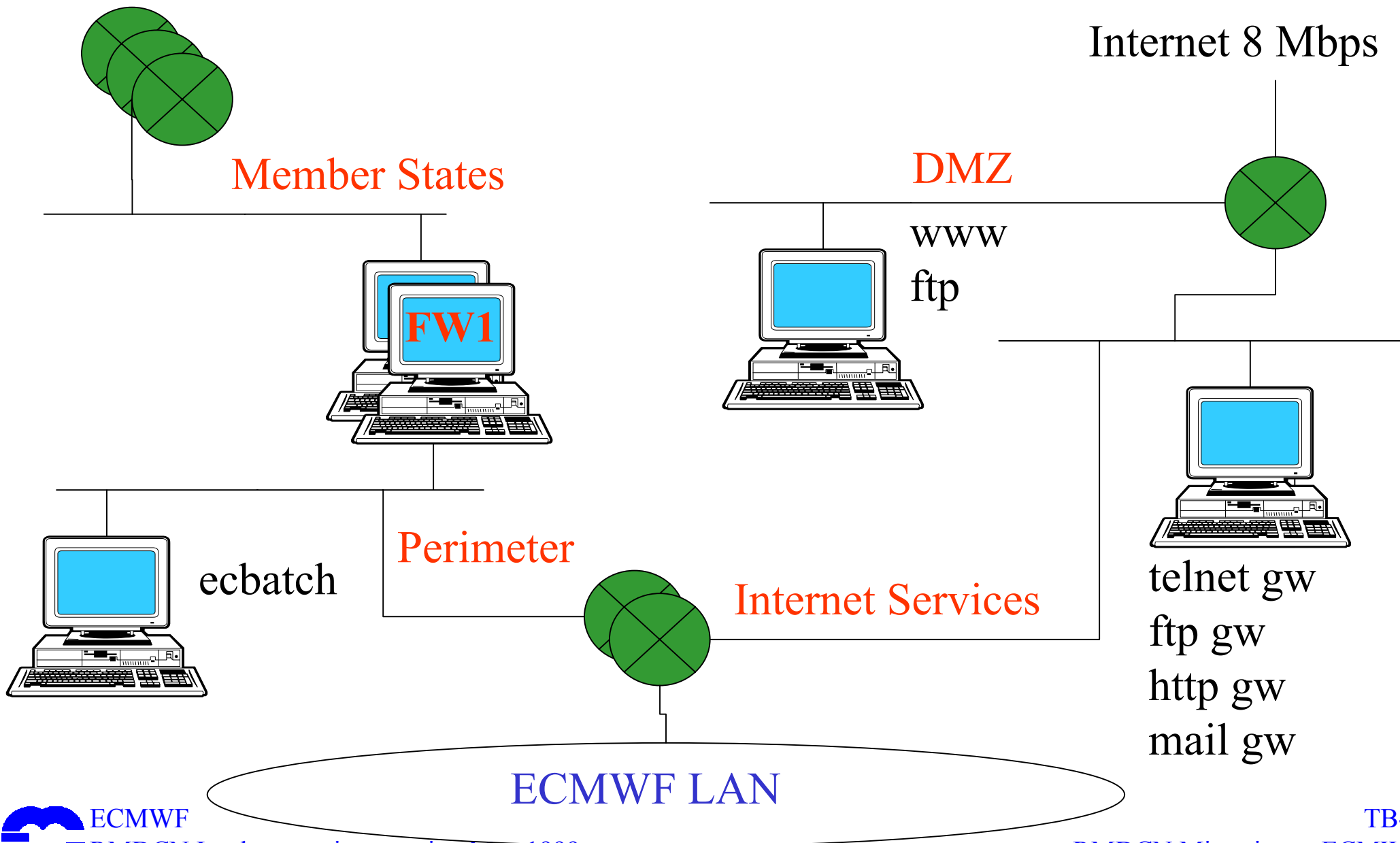
Overview

- Physical connection
- IP connectivity
- Parallel run / Fallback

ECMWF Firewall - January 1999

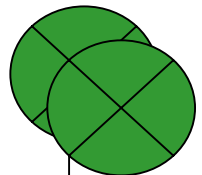


ECMWF Firewall - May 1999

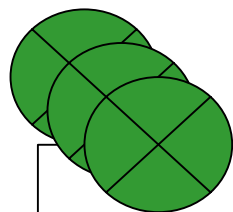


ECMWF Firewall - June 1999

RMDCN



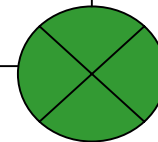
Member States
links



Internet 8 Mbps

DMZ

www
ftp

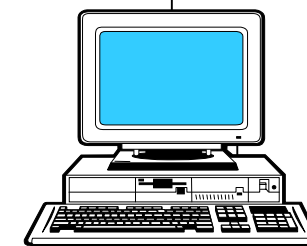


Perimeter

ecbatch



Internet Services



telnet gw
ftp gw
http gw
mail gw

ECMWF LAN

Old Leased Lines

- ECMWF will keep the existing Member State leased lines for up to 3 months after RMDCN Network Acceptance
- Scheduled for 1 November 1999
- Can be done earlier if Member States agrees.

Routing Issues

- ECMWF uses RIP on exiting routers
- EQUANT routers will initially use RIP
- FW1 is central point for routing between ECMWF LAN and the 'outside'
- Use static routes on FW1 to point to either EQUANT router or ECMWF router on an individual basis. Requires co-operation at 'other end'

Proposed Test Phases

- 1 Host routes at ECMWF and at Member State for specific application tests
- 2 During office hours route full IP networks via RMDCN
At night fallback to Leased Lines
- 3 Complete operational network via RMDCN
Use Leased Line as fallback for emergencies

Application example

- New Dissemination System will be tested in RMDCN environment with France
- Need to define static host routes on FW1
- Source host at ECMWF will be different (HP-Cluster)
- Destination host need to be different as well
- France need to set up static host routes