Networking
CM30078/CM50123

Russell Bradford

2022/23

### 1. The End

We started with layering models that suggested what a networking standard needs to consider, and where

How does reality match with these suggestions?

### 2. The End

| Action | ISO | Reality |
| --- | --- | --- |
| Error detection | datalink | datalink (Wi-Fi ACK); |
|  |  | network (IP checksum) |
|  |  | transport (UDP/TCP checksum); |
|  |  | application possibly |
| Error recovery | datalink | datalink (Wi-Fi ACK); |
|  |  | transport (TCP only); |
|  |  | application possibly |
| Routing | network | network (IP) |
| Congestion | network | network (possibly IP routing); |
|  |  | transport (TCP) |
| Flow control | network | transport (TCP) |
| Accounting | network | ? |
| Quality of Service | network | network (IP Diffserv) |

### 3. The End

| Action | ISO | Reality |
| --- | --- | --- |
| De/packetisation | transport | transport (UDP/TCP) |
| Reliability | transport | transport (TCP only); |
|  |  | application, if needed |
| Session | session | network (IPv6 flow label); |
|  |  | transport (TCP sequence |
|  |  | numbers); |
|  |  | application, if needed |
| Presentation | presentation | application |
| Application | application | application |

### 4. The End

**Exercise** Read about “Layer 8”

### 5. The End

End of Lectures

Future sessions will be problems classes, and going through past papers