

Telchemy

QoS Management for Voice over IP

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About Telchemy

- **Focus**

- Enable service providers to maintain subscriber satisfaction with minimum use of network resources
- focus on Voice over IP and streaming video

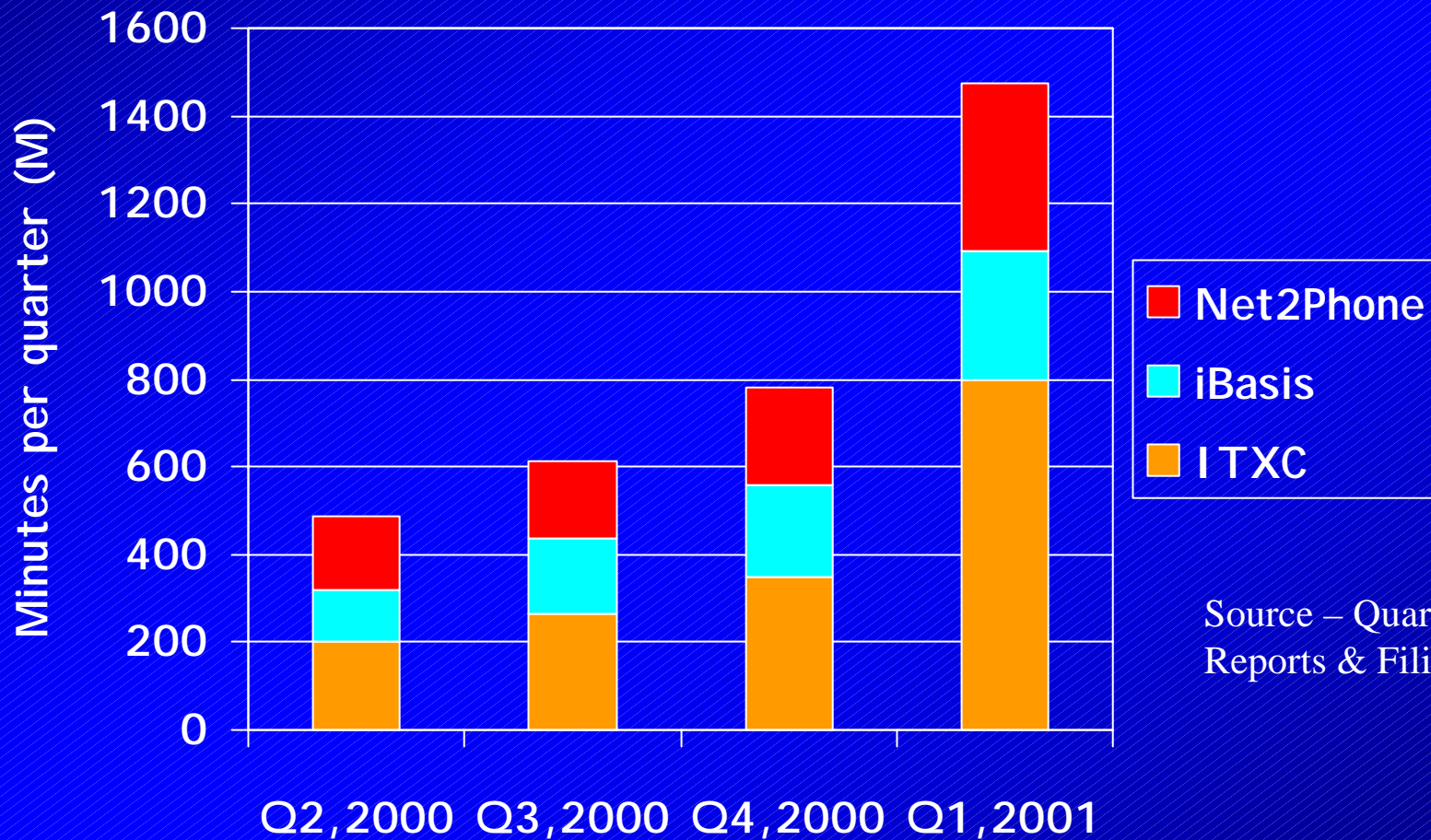
- **Approach**

- Software for monitoring and active control of QoS

- **Company**

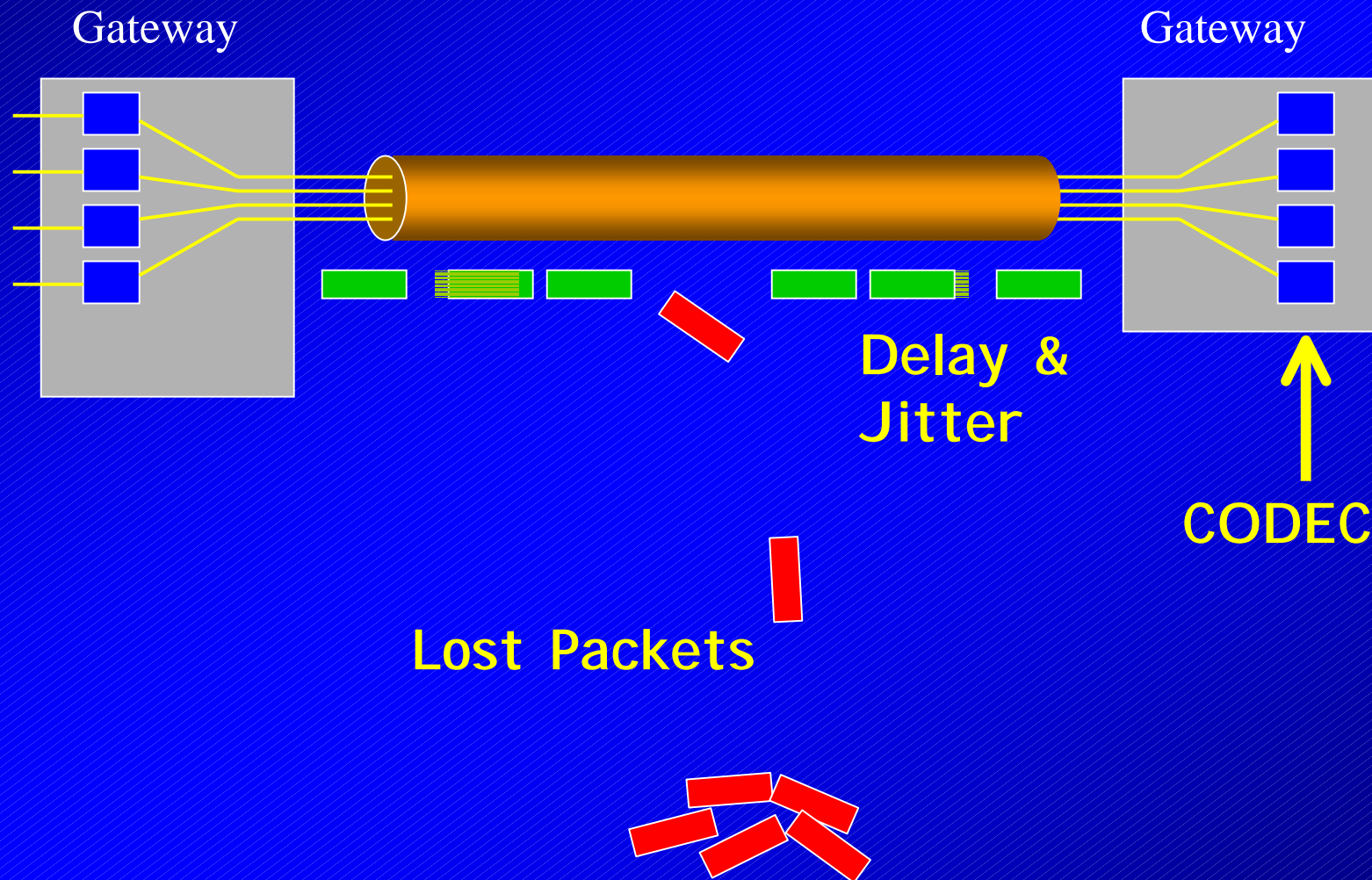
- Based in Atlanta, 11 employees

VoIP is being deployed



Source – Quarterly Reports & Filings

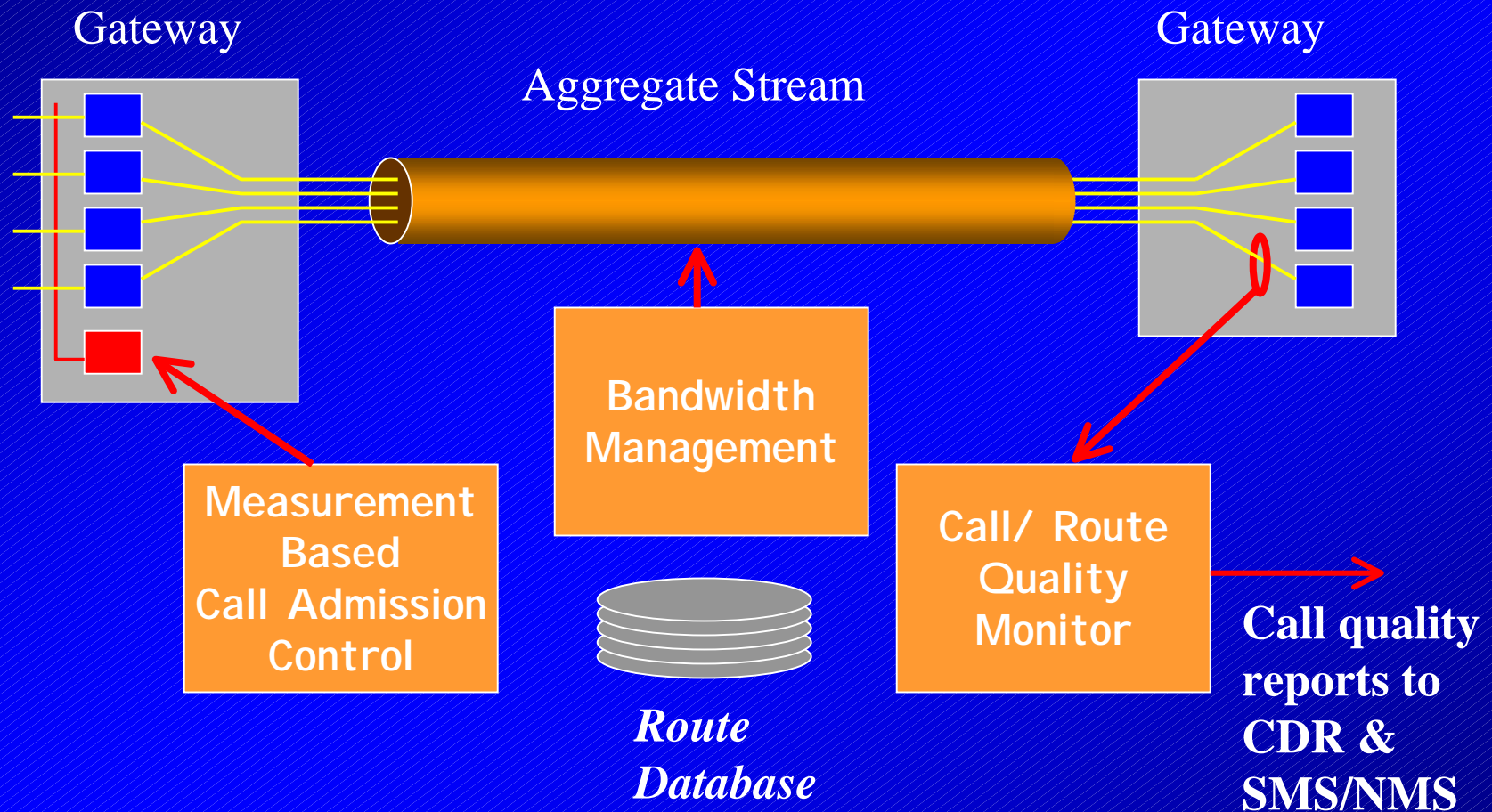
Voice over IP call quality issues



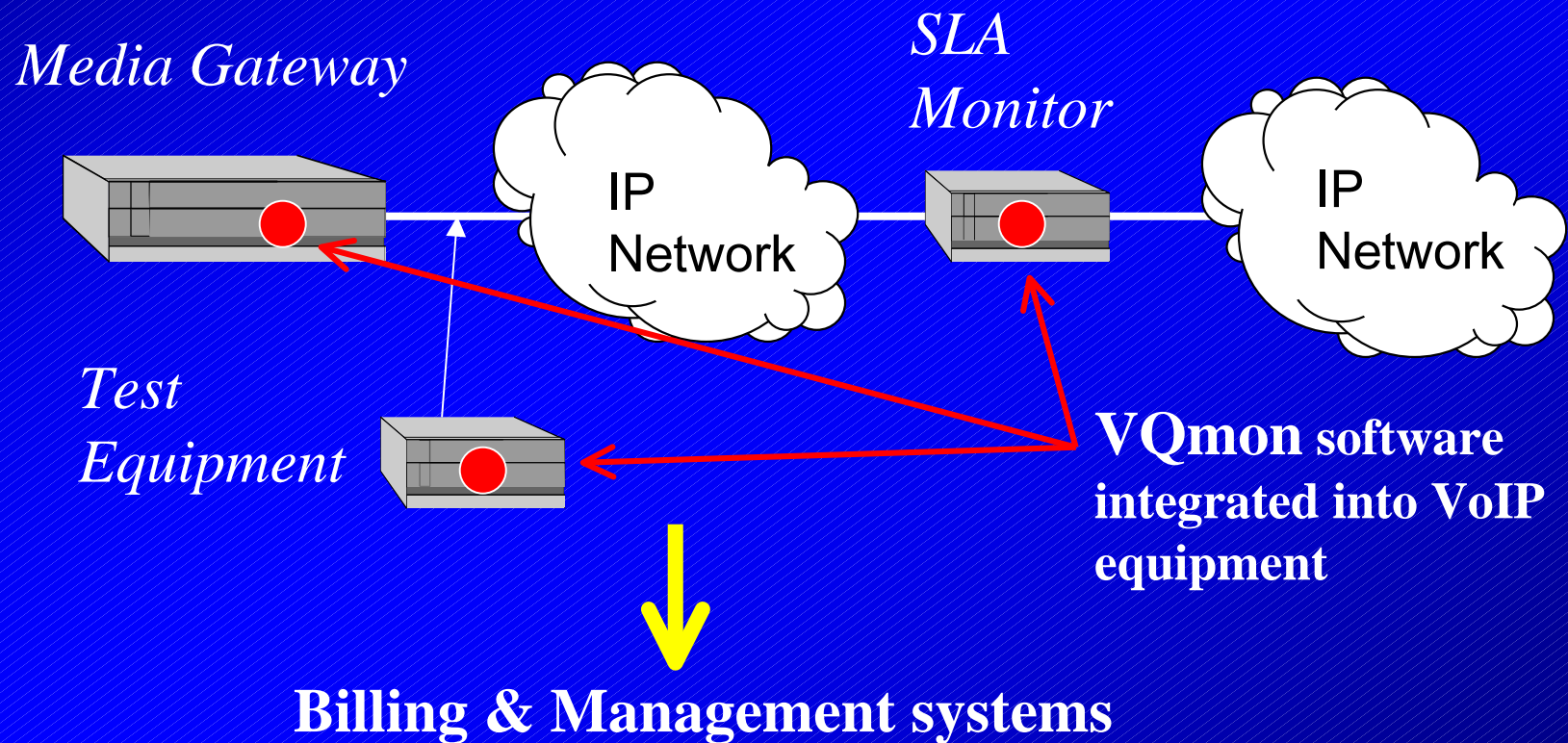
Service Provider Priorities

1. Getting the VoIP Service to work
2. Reaching traditional availability levels
3. Demonstrating availability to customers and measuring to SLAs
4. Supporting mixed usage of network bandwidth (voice, data, video)
5. Support flexible bandwidth allocation
6. Minimizing network operating costs
7. Supporting tiered service levels

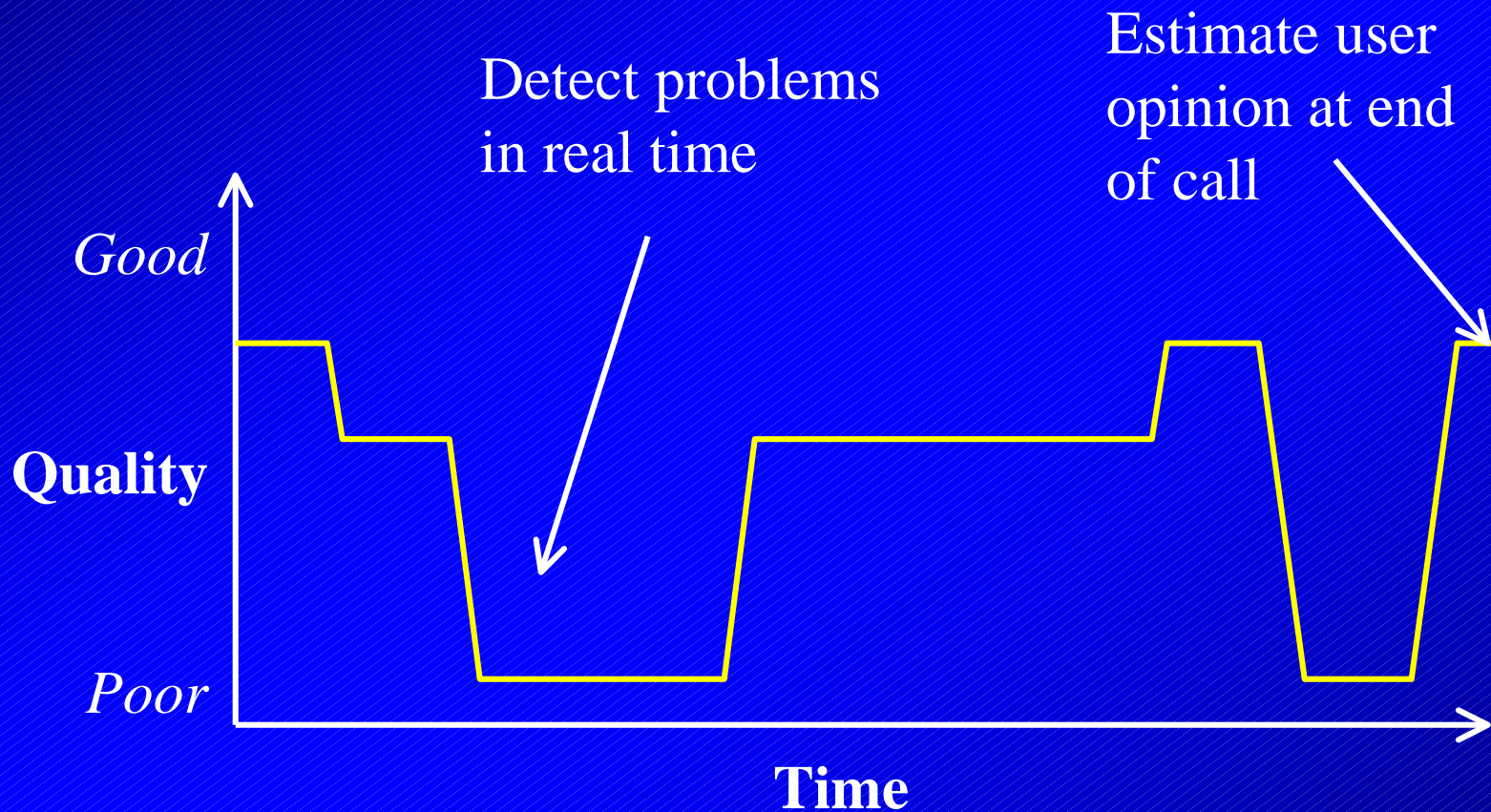
Telchemy QoS Architecture



Call Quality Monitoring



First to monitor time varying QoS



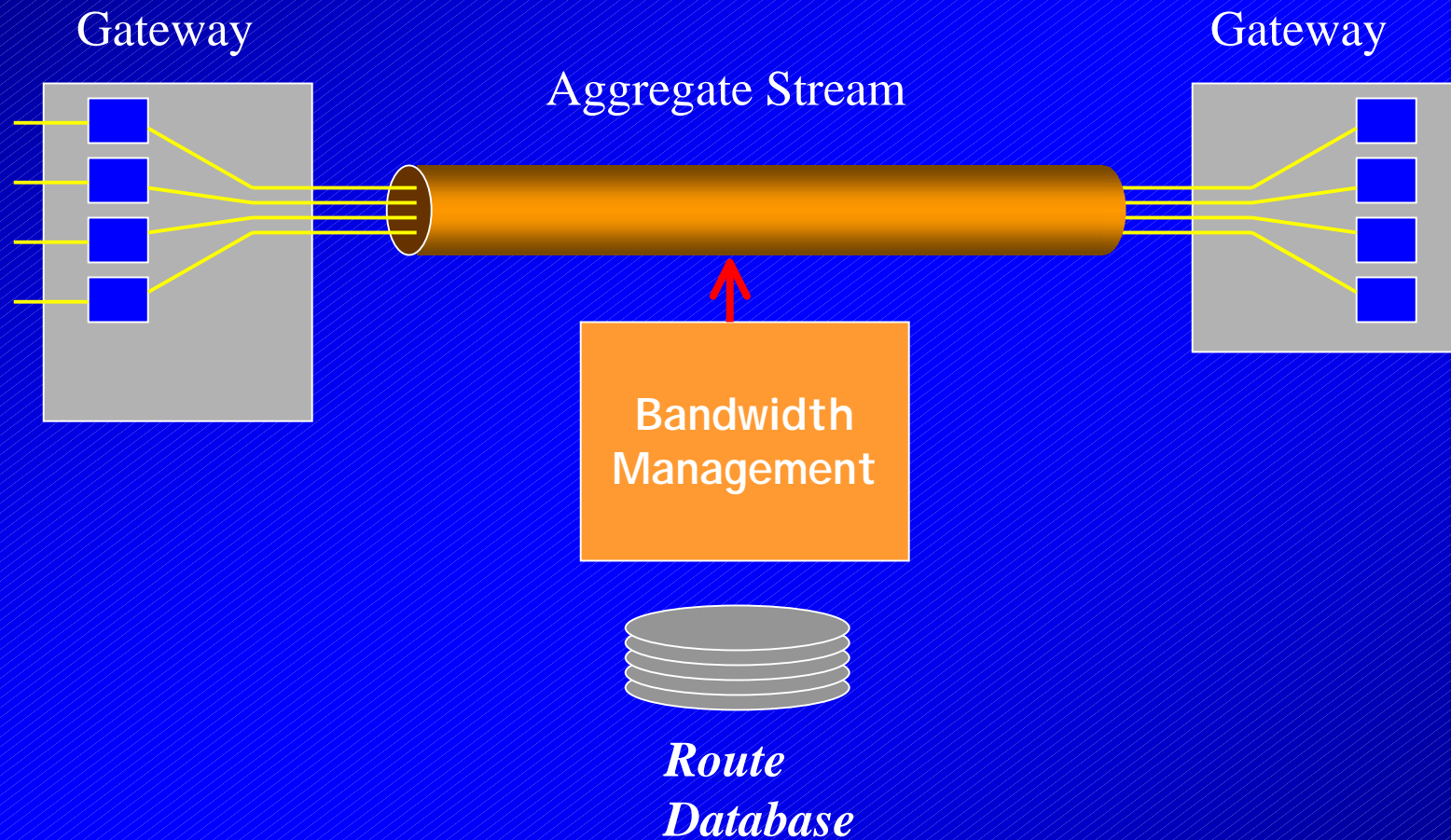
VQmon scorecard

1. Getting the VoIP Service to work ✓
2. Reaching traditional availability levels ✓
3. Demonstrating availability to customers and measuring to SLAs ✓

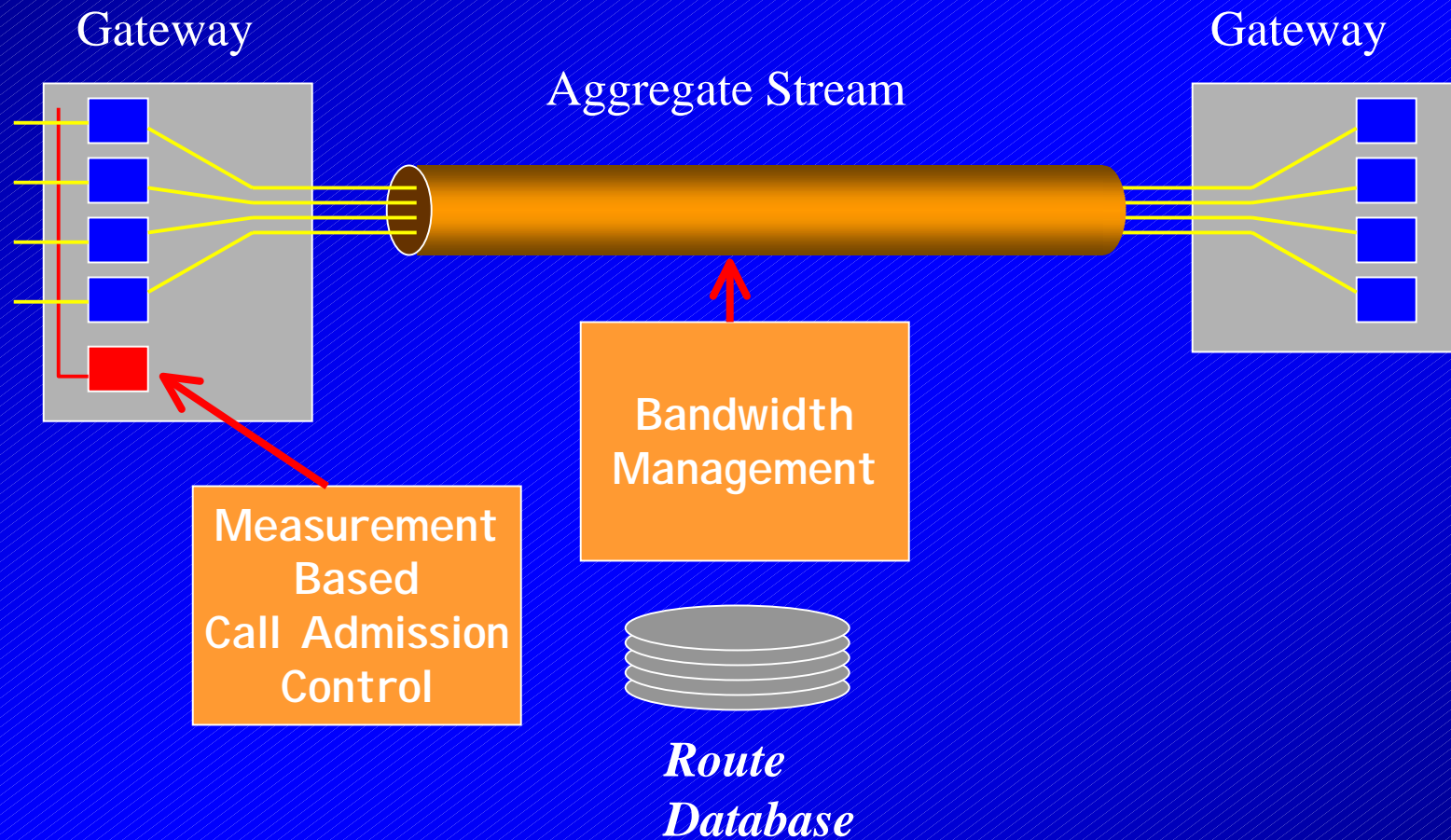
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- **Accurate** - models time varying impairments
- **Fast** - can be added to VoIP Gateways
- **Versatile** – end-point and SLA monitoring
- **Patent** applications pending
- **Standard**

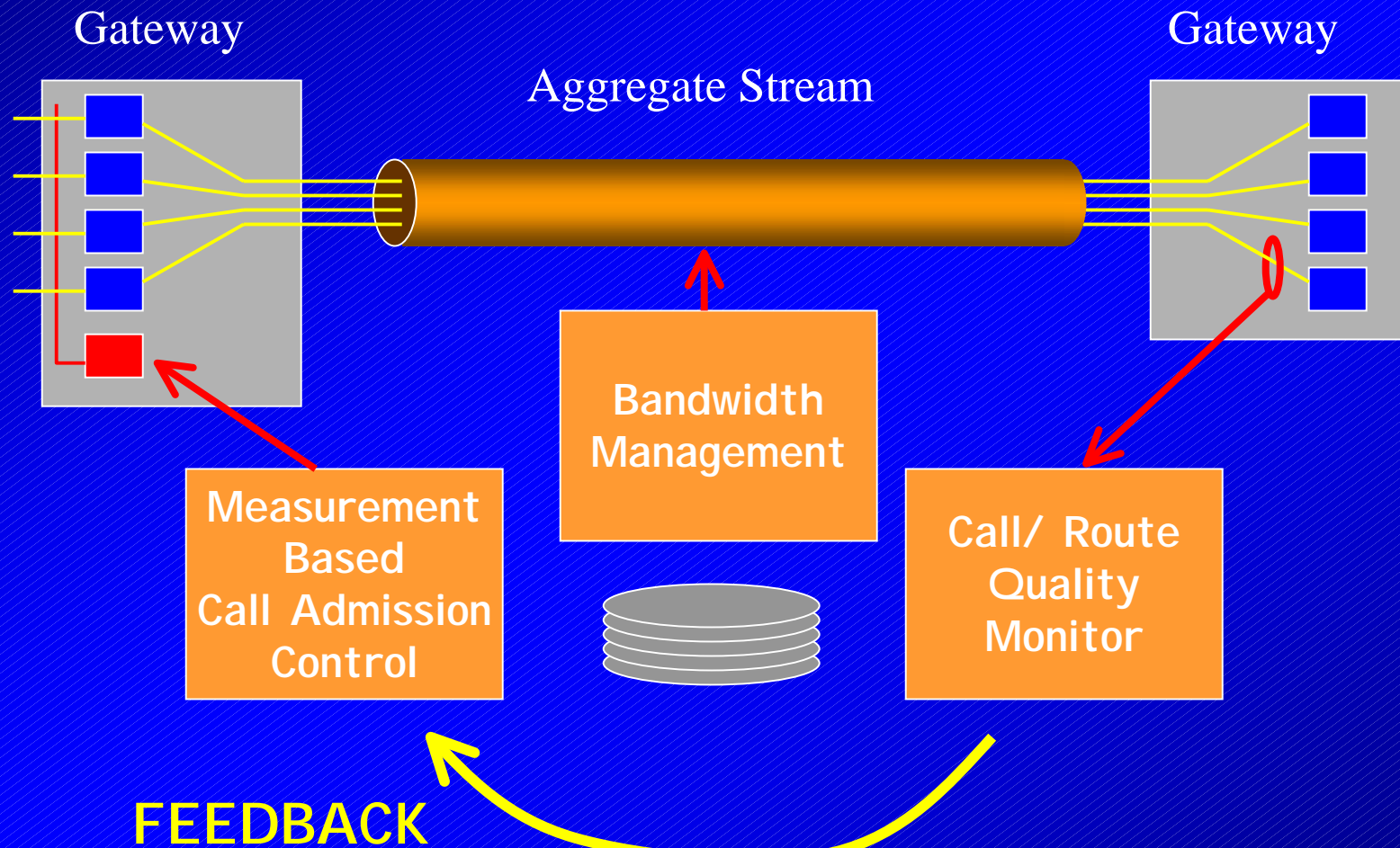
Telchemy QoS Server



Telchemy QoS Server



Telchemy QoS Server



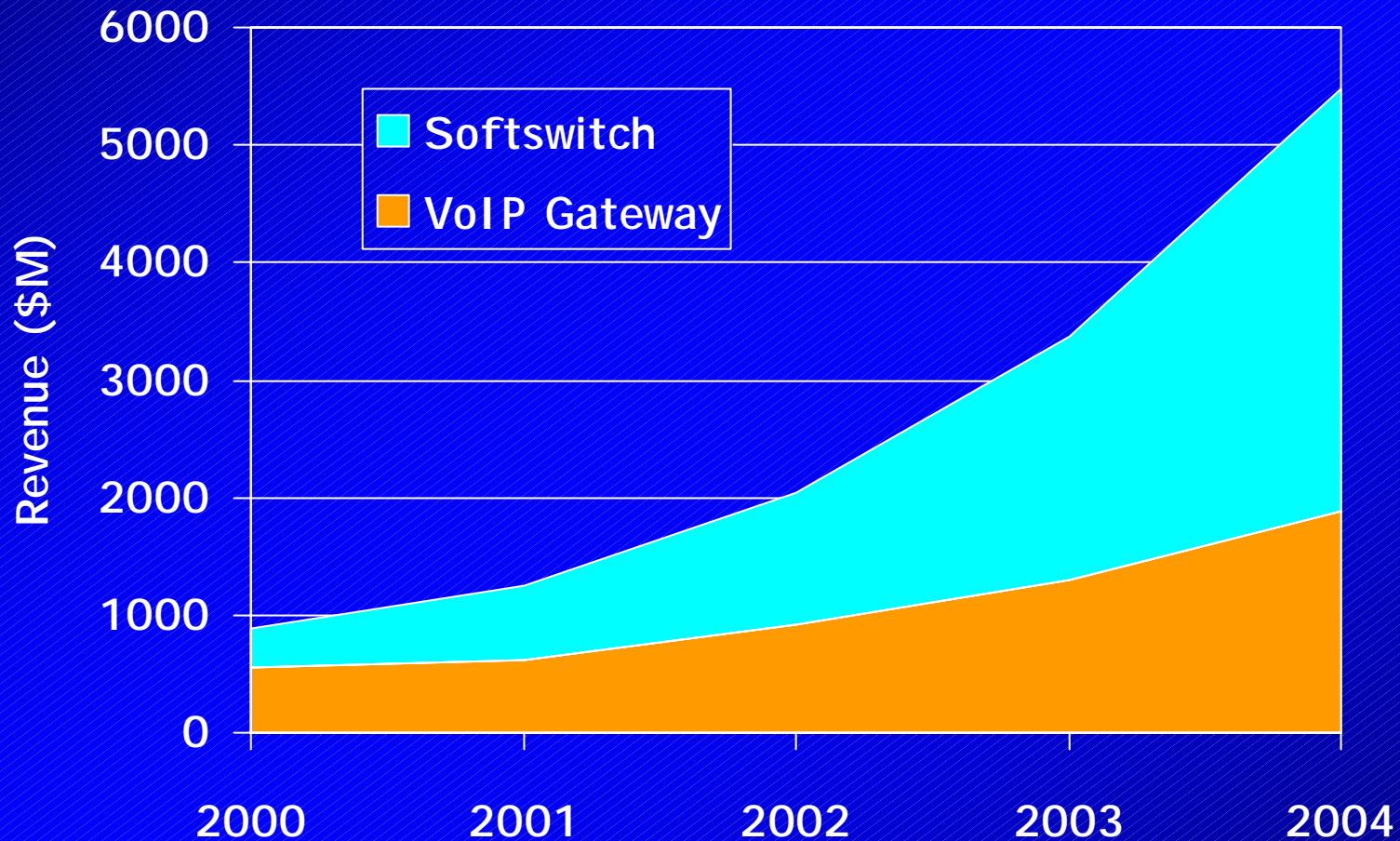
QoS Server Scorecard

1. Getting the VoIP Service to work ✓
2. Reaching traditional availability levels ✓
3. Demonstrating availability to customers and measuring to SLAs ✓
4. Supporting mixed usage of network bandwidth (voice, data, video) ✓
5. Support flexible bandwidth allocation ✓
6. Minimizing network operating costs ✓
7. Supporting tiered service levels ✓

Business Model

- VQmon is currently being licensed to
 - Test Equipment/ SLA monitor vendors
 - VoIP Gateway/ IP Phone vendors
 - VoIP CODEC and module vendors
- QoS Server will be sold as a server based product to
 - Service providers
 - Fortune 1000
 - OEMs – Softswitch vendors

Carrier VoIP Equipment



Source Pioneer Consulting 2001

Robinson Humphrey Software & Technology Conf 2001

Telchemy

Telchemy

- Technology leader in Voice over IP QoS monitoring and management
- Focused on Service Provider problems and priorities
- Technology being deployed by SLA monitoring, test equipment and VoIP Gateway vendors
- Emerging market leader