Aggregation
Challenges & Feedback
Aggregator Feedback…

• "Airline profiles have not widely used yet."

• "Response time to large scale queries from multi-airline sources - 2 difficulties:
  – Aggregator's own computing efficiency
  – Response time of actual airline APIs"

• "The identification of agents and the credential of aggregator and agents are different from airline to airline."

• "There are huge variances in the datasets returned by each airline, which makes it hard to normalise responses across airlines."
...Aggregator Feedback

• "Slowness and restrictions (rate limiting) around some of the APIs."

• "Architectural differences
  – SOAP wrapping / plain XML
  – Multiple authentication methods"

• "Variety of NDC versions
  – 17.2, 18.1, 18.2, 19.1
  – Hybrid implementations (e.g. some messages 16.1 and some 17.2)
  – NDC and non-NDC (?)"

• "NDC workflow interpretations."
Mitigating Bottlenecks

- Linear Scalability
  - Load Balancing
  - Elastic Server Expansion
  - Network Topology
- Caching
- Throttling
- Compression
- Proxy Filtering / Educating API consumers

- SLAs! - How many 9s?