







Internet-based Infrastructure Components in the Internet: open model Leverage proxy and cluster architectures Independent components: Can be independently and incrementally deployed

Design Principles

Separation of functionality

- Separation → independent and reusable components
- Reuse → easy extensibility
- Shared network services → Economy of scale
- Network and device independence
- Needed for extensibility to new devices
- Push control towards callee
- In current communication networks, caller has controlCallee needs to have control for flexible handling of
- canee needs to have control for flexible has incoming communication





























Calculation of Scaling

- On average
 - 2.8 calls/hour/user
 - Average duration of calls (path) is 2.6 minutes
- · Using these
 - 571 users can be supported by a two-node APC service
 - Telephone network uses expensive TRAU at the Inter-Working Function for these transformations





Extensibility

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- Made easy by the separation and reuse of functionality