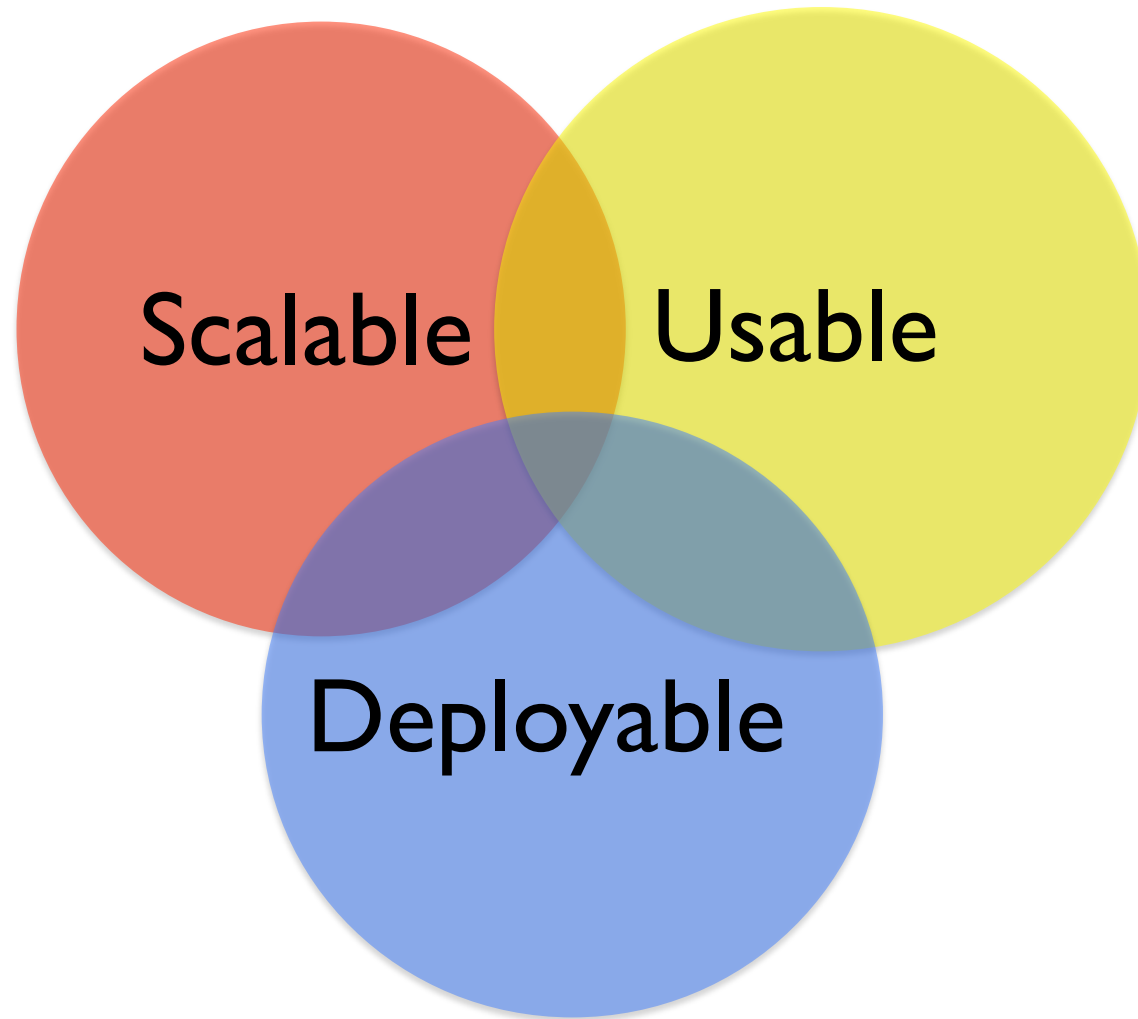


mdnsexr requirements

draft-lynn-mdnsexr-requirements

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mdnsext requirements



Scalable

- Enable DNS-based Service Discovery across lots of links (LoL)
- Suitable for both local (zero-config) and global (little-config) use
- Scalability in terms of:
 - Network traffic
 - CPU and memory requirements on network entities
- Architecture
 - Common terminology/concepts (e.g. many subnets may “map” to a link, many links may “map” to a subnet)
 - Granularity of services available on a server (extend the traditional notion of service?)

Usable

- Zero configuration operation possible but not mandatory. Zero-config is supported by the protocols, but administrative control is also available on networks or in situations where that is desirable (e.g. user opts-in for service to be publicly visible)
- A smooth continuum of operation and experience from local link to site to global, rather than wildly different incompatible modes of operation at different network scales
- User interface (huge flat list is not user friendly)

Deployable

- Incremental deployability (e.g. "islands" of infrastructure-less functionality can be merged)
- Identify what changes to existing network elements will be required, and attempt to minimize those changes (e.g. may be easier to revise the clients)
- Suitable out-of-the box defaults should enable zero-config use on many small- to medium-sized networks, while still allowing for administrative control in networks where that's appropriate

Secure

- Authorization versus authentication (e.g. which services are authorized to advertise?)
- Avoid manual config of every service entry in a directory