

5. INTERNETWORK SCALABILITY

5.1 General

- a. SIGNET is required to provide services to sites ranging in size from several hundred to less than 100.
- b. The internetwork scalability requirement is segregated into a local subnetwork technology scalability requirement and a routing technology scalability requirement.

5.1.1 Local Subnetwork Technology Scalability

- 1) The technology utilized to provide the local subnetwork service must be capable of supporting numbers of connections ranging from less than 10 through to greater than 100.
- 2) A logical limitation may exist on the maximum size of a local subnetwork if the subnetwork design is tailored to personnel logical function. A natural limitation exists at on the order of 100 to 150 connections per subnetwork for operations purposes.

5.1.2 Routing Technology Scalability

- 1) The technology utilized to support the routing service is required to support both the large number of small to medium sized mission sites, medium to large sites, and (most likely) concentration sites (possibly co-exist with major MITNet nodes (ie. London , Paris , Washington etc.)