

- 2) A continuous network layer interface between External Affairs and other like networks. For example, the Government Telecommunications Agency is currently investigating offering a Government of Canada backbone service for government department networks.
 - 3) General dial in / dial out capabilities through the public switched telephone network. For example, External Affairs personnel would be able to "dial in" to the External Affairs network when off site. Commercially available PSTN communications server technology enables dial in/dial out services to be generally available to SIGNET users. An example is access to Dun & Bradstreet data base services. Dial access control may be integrated with External Affairs PBXs or Centrex services.
- b. The security requirements relating to each of the three scenarios:
- 1) The point to point connections to other government departments or service corporations may be considered to operate in the "system high" state. A requirement for encryption/decryption may be applicable on a per link basis.
 - 2) External Affairs should not consider interconnecting SIGNET with other internetworks at this time. In the event that External Affairs requires connectivity to a general service internetwork, GTA offered or otherwise, a secure router function would be required at the interface.
 - 3) Dial In/Out Requirements are:
 - i. The general use of dedicated modems and communications software on per PC basis should not be allowed on SIGNET.
 - ii. For the purpose of access from External Affairs to dial up services, such as Dun & Bradstreet services, the communications servers should be implemented with dial out capability only.
 - iii. For the purpose of general dial in / dial out capabilities, if required, communications servers should be implemented as a shared resource available at various points within SIGNET; the communications servers must employ an authentication mechanism for access. Dial in security would be further backed up with access controls on all networked end systems.