

Proposed X29/TS29 module for ESCSVAX

The attached diagram (Figure 1) shows the position of ESCSVAX in the Regional Network once it has been attached to the X25 switch.

I would like to draw attention to two points.

1) ESCSVAX uses the RCO Interactive Terminal Protocol (RTP) for all interactive traffic. This means that all such traffic to and from non-RTP machines must undergo a protocol translation at XGATE or PSSE and must thus pass through a PSSE-type gateway at least twice. These machines are not high throughput devices and are bound to be a bottleneck in any route using them (The software structure of XGATE is reproduced in Figure 2 to demonstrate just how horrendous this route will be). There will also be a loss of functionality as the functions implemented will be the overlap of the functions supported by RTP and the foreign protocol (typically the protocols X3/X28/X29, known as triple-X or XXX).

Machines affected	Machines not affected
EEVAX	2972-EMAS
ERCVAX	2988-EMAS
CS-UNIX	X25 TCPs
JNT PADs	? MRC VAX
All JANET Hosts	
All PSS/IPSS/ARPANet Hosts	

2) It is not currently possible to pass Transport Service addresses over the ring between the two PSSE-type gateways. This means that file transfers will have to go via the Rutherford (RAL) gateway and the ERCC GEC Gateway.

A list of addresses of machines on the X25 network is appended for information. Note that such machines may be called from the outside world by one of two mechanisms..

- 1) Call PSSE (PSS address 2342-313-54354 or JANET mnemonic EDXB, address 7001002)  
Supply a username and password  
CALL XGATE  
CALL ESCVAX
- 2) Call JANET mnemonic EDXD, address 00000700100404  
supply the network address of XGATE (15000007)  
CALL LOOP  
CALL ESCVAX