

## ABSTRACT

### Implementation of a Facsimile Service on a VAX Minicomputer

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With the increasing trend towards the integration of data communications services and information manipulation, many present telecommunication services are being implemented through computer network interfaces. Since it is desirable that access also be provided to the existing communications services, a requirement can be seen for gateways between the traditional services and the more recent computer networks. The aim of this project was to design and implement such a gateway to enable communication between a VAX 11/750 minicomputer and standard (Group III) facsimile apparatus.

This was achieved by first conducting a study of current facsimile systems, and then applying data communications and software engineering techniques to replicate similar systems via software in the VAX environment.

Several modules were implemented, and these were integrated to function as a system suitable for basic Group III communication. This modular approach resulted in a system which can be expanded on to implement all the features associated with a sophisticated facsimile unit.