

- Transmission of information to a central data base for immediate checking of security related issues (e.g. PCL, Master Index, Guarantor lists, etc.)
- Transmission of passport data and image information to a remote site for preparation of emergency replacement documents.
- Transmission of passport data and image information to a local or remote site for preparation of renewal documents and return of updated image and data to the central data base.
- Transmission of application information to a central system for archiving.

Future developments in the field of communications are being driven by the bandwidth requirements and the connectivity requirements of distributed processing, imaging, and LAN interconnection. "Image processing is already very or moderately important to over 50 percent of the enterprises surveyed" according to one source.<sup>6</sup>

- FDDI (Fibre-optic Distributed Data Interchange) utilizing fibre optic cables and transmission speeds of 100 Mega bits per second will become common for interconnecting multiple LANs within a single building or adjacent buildings, and for higher speed transmission within a single LAN
- ISDN (Integrated Services Digital Network) services will allow integration of voice, data, and video communications over wide areas. ISDN services are now being installed by many North American and European telephone companies, and interconnections between them will be common.

---

<sup>6</sup> "Private Network Challenges and Opportunities for the 90s", Timothy Zerbic, *Telecommunications*, North American edition, January 1991