

Workstations

Technology Components

Client Platform Architecture encompasses the user interface, and in some cases, an operating system associated with that interface. Examples of platforms that may consist of just the interface, or the interface plus an operating system are 3270 terminals, voice response units, barcode readers, automated teller machines, hand-held devices such as PDAs, smart cards, and personal computers. Examples of operating systems that may be associated with some of these interfaces, are Windows 95, MVS, Java Virtual Machine, and smart card operating systems.

3270 Terminals

3270, or "dumb," terminals have no local processing power and are reliant on the operating system and applications on a host computer. Dumb terminals are being replaced with personal or network computers over time. These computers will provide 3270 emulation when access to host systems are required.

Voice Response Units (VRUs)

Voice Response Units are telephone interface system.

Bar Code Readers

Bar codes and Bar code readers are data capture devices. Bar codes include single dimension bar codes such as UPC codes found on supermarket items and 2-dimensional bar codes that can be mini-databases.

Magnetic Stripe Cards

Magnetic stripe cards are plastic cards that store information on a magnetic stripe placed on a specific location on the backside of a card. Magnetic stripe cards include credit cards, identification badges, stored value cards and others.

Voice Interface

Not all users have access to computers or find it convenient to use computers for some interactions with the state. More widely available interfaces are telephones and televisions. Since most people have access to a telephone it will continue to be widely used for certain applications.

Network Appliances or Devices

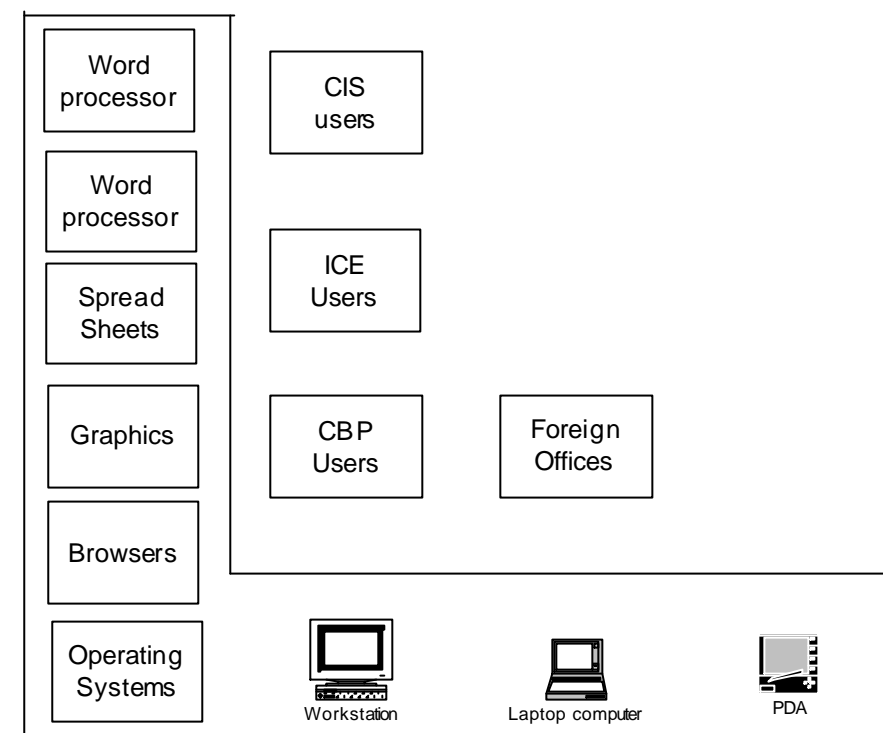
Network appliances are devices that can or do reside on a network and can be used as an application interface or platform. For example a television accessing the web or a cellular phone that can access Internet services are both network appliance and potential application interfaces.

Smart Cards

A smart card is a tamper-resistant computer embedded in a credit card sized card. The embedded integrated circuit implements a CPU, application data storage and RAM used by the CPU.

Hand-Held Devices

Hand-held devices include Personal Digital Assistants (PDAs), pen computers and other mobile devices. Hand-held devices will be covered in a later release of this chapter.



Standards

Standard 1: For non-editable documents, the standard file format is PDF. Typical application software using this file format includes word processing, imaging systems, and World Wide Web publishing.

Rationale

- PDF is widely deployed for non-editable content exchange.
- The reader is available at no cost.

Standard 2: For monochrome documents or drawing, the standard file format is TIFF using CCITT/ITU Group IV compression.

Rationale

- Typical application software using this file format includes word processing, archive and retrieving, workflow, multimedia, medical systems, digital publishing, pattern recognition, and geographic information systems.

Standard 3: For color documents, drawings, or photographs, the standard file formats are GIF and JPEG.

Rationale

- Typical application software using this file format includes multimedia, word processing, medical systems, digital publishing, and geographic information systems.

Standard 4: For facsimile documents, the standard file format is TIFF using CCITT/ITU Group III compression.

Rationale

- Typical application software using this file format includes word processing, archival and retrieval, and workflow.

Standard 5: For vector or geometric data, the standard file formats are DGN and DWG

Rationale

- Typical application software using this file format includes CADD and geographic information systems.

Standard 6: For multimedia images, the standard file format is MPEG-1.

Rationale

- Typical application software using this file format is multimedia.

Products

Enterprise workstation configurations

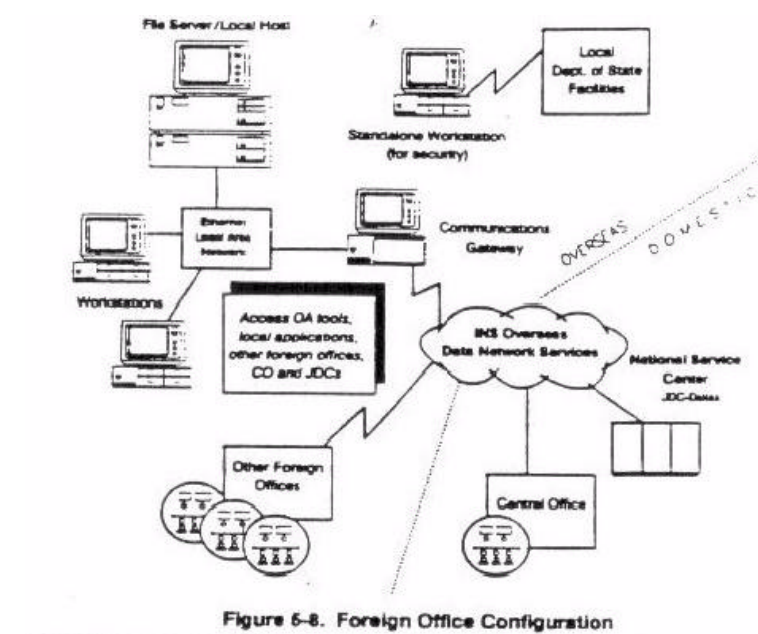
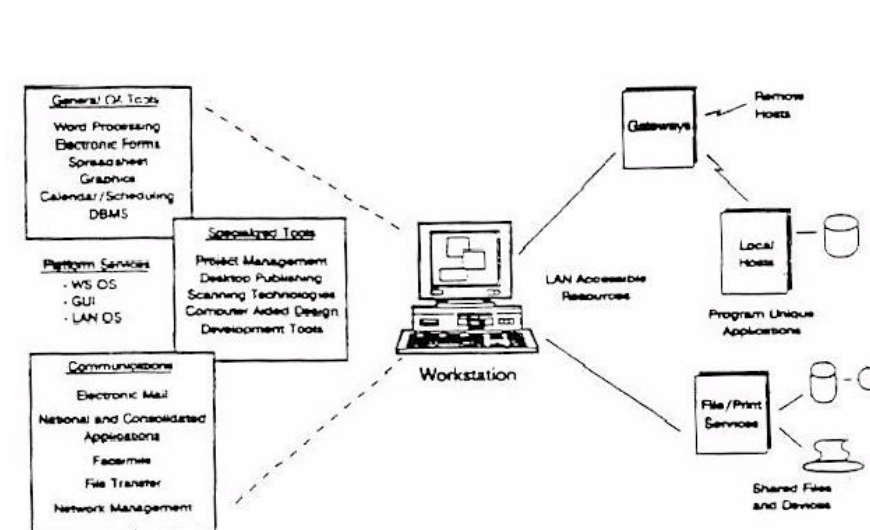


Figure 6-8. Foreign Office Configuration

Enterprise Service Architecture	Technology Architecture			
	Workstations			
	S/E	FSCM NO	DWGNO	REV
	John Wu			S/E T