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IMPART For Windows

Extending OpenVME systems to the Windows server/desktop

At A Glance

Users requiring access to VME hosts are able to connect to the host over a wide variety of protocols and networks. At any single site, these interconnection options may well change over time as the network on the site evolves. It's therefore important that the client software used for accessing the VME mainframe is designed to work over any of the potential interconnection options to ensure any investment is protected against future network changes. As users will also be accessing VME hosts from a range of Microsoft platforms, it's important that the same facilities are available to the user on each platform.

Our IMPART for Windows client is modular in design to fully meet these requirements. It's available for use on all Microsoft platforms over a wide variety of network connections including:

- direct connection to VME over OSI or RFC 1006
- connection over TCP/IP or NetBEUI through an IMPART Gateway
- connection over TCP/IP through an RFC 1006 gateway



Key Benefits

- Market leading product providing communications between Fujitsu OpenVME systems and Windows systems over the IPA (Information Processing Architecture) protocols
- Maintained to support latest versions of all the Windows client and server platforms
- The Impart IPA Applications are supported over both OSI and RFC1006 transport providers

Features

The following IMPART for Windows client components are available:

Interactive Video (IV)

- Each session occupies an independent window, allowing multiple mainframe sessions to be run simultaneously
- Supports information exchange with other Windows applications
- Configurable toolbar allows quick access to emulator functions and macros
- Powerful macro language to automate functions and assign them to menu items, function keys or tool-bar buttons
- Macro files can be associated with services and automatically loaded
- Field presentations are configurable to the PC's colour or grey scales
- Online style option allows dynamic configuration of fonts, colours and options
- Automatic font scaling when the window is re-sized
- Supports badge data, either with a hardware reader or from a command-line parameter

Direct Print (DP)

- Allows files held on a remote VME system to be sent to a file, printer or the Microsoft Windows spooler on the PC. The transfer is initiated from the VME system
- Facilities are provided for local printer control, including the use of Microsoft Windows printer set-up
- In-conjunction with IMPART*X Suite's PICTOR or PRINT MANAGER, print files can be published on the web for browser access

File Transfer Facility (FTF)

- Can be set up as a client-server application allowing the file transfer engine to be on a different system from the one requesting the transfer. A single server system is

thus able to perform all the VME file transfers for client systems networked to it

- For automatic start-up, the file transfer services are installed as Microsoft Windows services. FTF templates are created using a wizard application. These templates define transfer attributes such as remote service, filenames, username, passwords, time of transfer. Incomplete templates request the missing information (e.g. remote password) when they are actioned
- FTF templates may be actioned using the Microsoft Explorer context menu or shortcuts
- A transfer can be initiated and local files to be transferred can be specified by dragging and dropping the files onto a template or template icon
- The status of a transfer request is dynamically displayed by a file transfer queue monitor facility
- A simple command line interface allows users to interface their own applications into the FTF
- An API implemented as a COM object is available as a separate product

Application Data Interchange (ADI)

- ADI allows a Windows application program to communicate with another program over a communications link using a variety of protocols, for example, OSI, TCP/IP, RFC 1006. ADI is the bridge between the application program and the transport service: it provides a library of routines which must be linked with the application program and are called to establish a connection and to read or write messages
- The mechanism for establishing and terminating the underlying data transfer connections is part of the transport service. The user must implement any additional facilities and handshaking mechanisms, including presentation and session functions, which form either additional requirements or are already part of the programs in the remote systems
- There are three variants of ADI as described in Fujitsu's PSDs 1070 and 2166 known as ADIm (ADI over Transport



Service), ADI (CSE Transfer Service), and ADly (IPA Basic Presentation Service). IMPART ADI corresponds to ADIm (ISAP-00, V2)

- In order to use ADI access to the transport service, support libraries must be set up and the required data transfer paths configured. The actual transfer connection will be performed by the data transfer service selected.
- ADI is released as a C header file, an import library and a dynamic link library. The functions are written in C++ and are intended to be accessible from other languages which allow the inclusion of C/C++ functions.

VT320

- Provides support for colour terminals, typeface and font size selection, auto font scaling, double height and width characters, answer back and save/restore cursor
- Supports 24 or 25 line working 80- or 132-character columns and a VT320 status line
- Local screen prints can be sent to the comms port or the printer
- Selectable fonts and page layouts are available for the spooler output device
- Keyboard mapping includes 20 definable and 20 downloadable function keys
- Copy and paste functions are available for editing and transferring text to other Microsoft Windows applications
- Supports Fujitsu DOC18 emulation
- Supports Fujitsu OfficePower file import and export and daisy chain printing

Dynamic Data Exchange (DDE)

- Integrates with IV and VT320 allowing information to be exchanged between these and other Microsoft Windows applications, using the DDE protocol
- Recognises screen relative positions. Therefore it's able to export data directly from IV or VT320 screen templates to another Microsoft Windows application
- Supports dynamic links between the PC and host fields. Therefore PC based applications can update and automatically recalculate fields to represent the most recent host system information without requiring user intervention

Associated Products

- **IMPART for UNIX** - emulates Fujitsu IPA communications for RSA video terminals, File Transfer Facility and Direct Print
- **IMPART*X** - Fujitsu VME terminal emulation applications for the web browser
- **IMPART OSI UNIX** - OSI transport for UNIX
- **IMPART OSI Windows** - OSI transport for Windows
- **IMPART Gateways** - Server side components for enabling access to Fujitsu VME system
- **IMPART RFC1006** - Transport enabling OSI over TCP/IP

