FAX/Voice C++

Make your Fax and Voice applications hardware independent.

Hardware independence is the key to success for any software product. As history shows, only hardware independent software succeed (remember the Wang Word Processor?). Black Ice Software, Inc. is the only company that provides hardware independent tools for the fax and voice market.

Fax C++
New Features and Improvements

All of Fax C++ DLL's and Hardware Vendor specific DLL's are dynamically loaded. This allows third party developers to restrict the number of DLL's shipped with their applications.

The Fax C++ and Fax OCX is now compatible with the BICOM Sonic board.

The Fax C++ and Fax OCX are now compatible with the Commetrex MultiFax board. Fax C++ is integrated with Brooktrout API 4.0 for ISA and PCI Brooktrout cards under Windows NT 4.0 and Win 95. Fax C++ is integrated with GammaLink 3.0 API for NT.

The TSSessionParameters structure now has a new member "FaxPort". This member lets you identify the fax channel and the fax board type at run time.

T.30 Password PWD HDLC frame in now implemented for Class 1 modems.

The Sub Address field is extended to 64 characters for E-mail applications. This is a new critical addition to the Fax C++ that allows users to build Fax to E-mail applications. The Sub Address field is not restricted to digits only. One can enter alphanumeric values too. Brooktrout and Dialogic boards with sub-address capability will truncate the sub-address field to 20 characters.

The Fax Manager has a new function, SetDialogMode(). This function hides the Fax Manager dialo g box or makes it visible. Added DisablePort(). This function disables or enables a fax port. When a fax port is d isabled, the Fax Manager will not use the port for faxing. The Status member of the TSPortStatus structure has a new bit CST_DISABLED. This bit is set while the port is disabled with the DisablePort function.

Voice C++

The Voice C++ now includes new functionality to develop applications to get On Ramp to the Internet or Intranet.

The Voice C++ and Voice OCX is now compatible with Dialogic Voice boards.

NT 4.0 Color Printer

We have just released the Color Generic Printer Driver for NT 4.0 that enables developers to rapidly build new applications including: color faxing, raster image capturing , medical imaging and color document management applications.

On Ramp to the Internet or Intranet

Introduction

The purpose of the On Ramp to the Internet or Intranet allows users to send paper documents over the Internet or through Intranet. It will use the existing Fax/Voice C++ communication mechanism to transport the fax, however the user will be able to submit the fax from any standard fax machine. No special dialers or other hardware will be required beyond a standard Fax/Voice compatible modem.

Basic Operation

The system will allow for a standard fax machine to be connected directly to a modem in the fax server. When the user takes the fax machine "Off Hook", they will hear a dial tone. Then the user will dial the number in the normal manner. The fax server will listen for the digits dialed by the user and then receive the fax.
A fax server will require at least two fax modems. One is connected directly to thestandard fax machine and the other is connected to the PSTN to make outgoing calls.

When a user picks up the headset on the fax machine he will hear a dial tone. As the userdials the number, the voice/fax modem will record the dialed number and listen for the CED tone generated by the fax machine. When the user presses the "Send Button", the modem will then initiate the fax transmission cycle and receive the fax into the server.

Hardware Requirement

A fax modem capable of performing the four simultaneous functions.
1. Capable of generating 48 volts to connect a fax machine to it without a switch.
2. Generate a frequency to simulate dial tone.
3. Detect DTMF tone.
4. Detect CED tone and switch from voice mode to fax mode.

The amazing part of this is that all of the above can be done at the same time in a single session without dropping the line.

VOICE Broadcasting

One of the new application areas for the Voice C++ is voice broadcasting similar to fax
broadcasting. Fax broadcasting delivers messages for a targeted audience at targeted times, the
same way as voice-broadcasting delivers a voice message at a targeted audience at a targeted time.
One of the fundamental questions is how to tell if the message has been delivered. Once the message
has been delivered, ask the user to confirm the reception by pressing any number on the phone's
keypad.

Some of the business applications are:
   Hair dressers and doctors can remind clients for appointments.
   Political organizations can mobilizes their supporters.
   Send a voice message to a friend or business at a specific time. Remember, not everybody has an
answering machine and even those who have one may not listen for the messages.
   Telemarketers can expand their annoying business.

Cover Page

We have improved the cover page editor. The Template Editor has a new toolbar, zoom in and out of template,
template can be "Fit to Width", and "Fit To Window".

Contraire to Cover Page from Microsoft or WinFax Pro with Black Ice Software's Cover Page you can zoom in and out when you're editing.

New NT 4.0 Color Printer Driver

The Color Driver outputs up to 24-bit TIFF or JPEG format. It utilizes a device independent color space, L*a*b Color Space Format. The Color Driver is capable of writing in many file forma ts including JPEG, TIFF, PCX, DCX, Microsoft DIB and TIFF CCITT Group 3. Over 42 different page sizes are supported including user definable variable page sizes. Every GDI drawing func tion is supported, as well as Adobe and TrueType fonts. Included with the driver is a variable NT Resource Kit, consisting of tools to speed up the process of integrating the NT driv er with customapplications. The NT 4.0 Color Driver is compatible with BICOM, Brooktrout, Commetrex, GammaLink and Natural MicroSystems fax boards.

Tame Your Fax Machine

One of the most uncontrollable devices in any office is the plain old faxmachine. Anyone can send a fax. The fax number may be recorded and printed out but the sender isn't. To tame this device make everyone accountable with Subaddressing. Subaddressing has been a part of the T.30 specifications for a long time and most desktop fax machines can send subaddress frames.

Architecture and Requirement
A Windows 95, Windows 98, or Windows NT 4.0 operating system is required along with a TCP/IP network, a fax machine with Subaddressing capability, PBX, E-mail and a fax server.

Basic Operation
On the desktop fax machine enter "4112s3798*555-5555". The "4112" is the fax server extension number on the PBX, the "3798" is a personal code AND THE "555 - 5555" is the destination fax number. The user sends the fax into a fax server at extension "4112", the fax server verifies the user's ID of "3798" and adjust the account. It sends the fax to destination number "555-5555". The user is notified by E-mail about a success or failure of the fax transmission. With this simple mechanism the fax machine is under management control.

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