

1.0 Identifier: - DDESPEC.DOC

2.0 Description: - Dynamic Data Exchange (DDE) defines a method for communication among applications. This communication takes place as applications send messages to each other to initiate conversations, to request and share data, and to terminate conversations. Two applications participating in a dynamic data exchange are engaged in a DDE conversation. The application that initiates the conversation is the *client*. The application responding to the client is the *server*.

Each DDE conversation is uniquely defined by an **Application Name** and a **Topic**. A DDE data **Item** is the actual information related to the conversation topic that is exchanged between the applications.

Once a conversation has begun, the client can establish one or more data links with the server: a **hot link**, a **warm link**, and a **cold link**. In a hot link, the server immediately sends the changed data value to the client. In a warm link, the server notifies the client that the data has changed, but does not actually send the changed data value until the client requests it. A cold link is a one time transfer of information. No update of any form is given when the data changes.

3.0 Specification:- The following are the WinFax PRO 3.0 DDE specifications.

Application Name:

The application name for WinFax PRO 3.0 is :

FAXMNG

Supported Topics

Two supported topics are available :

Transmit

Control

The Transmit Topic

The "Transmit" topic is used to POKE transmit data to WinFax which informs WinFax about the intended recipient.

Three items are supported in the *Transmit* topic :

Fax Number (WinFax 2.0)

Receiver (WinFax 2.0)

Sendfax (New)

The *Fax Number* and *Receiver* items were available in WinFax PRO 2.0 and are still supported. Both of these items allow the user to POKE the name and fax number of the intended recipient prior to performing a print operation to the WinFax driver. This prevents the Send To screen from being displayed. This approach only allows the fax to be sent to a single recipient without any scheduling.

The new WinFax 3.0 item *Sendfax* is more powerful as it defines an operation and associated parameters that can be used to specify multiple recipients as well as the fax resolution. In time this function will contain additional operators that will allow further remote control of the send process.

Item *Sendfax*
Operation WM_DDE_POKE

Specify a Recipient

Syntax recipient(Fax Number, Time, Date, Name, Company, Description, Keywords, Billing Code)

Parameters

- Fax Number - a maximum of 47 characters specifying the full number to be dialed
- Time - The time to send the fax to the recipient HH:MM:SS
- Date - The date to send the fax MM/DD/YY
- Name - The recipients name (31 chars max)
- Company - The recipients company (42 chars max)
- Subject - The subject of the fax (79 chars)
- Keywords - Event keywords (33 chars max)
- Billing Code - Event billing code (26 chars max)

Description

All fields except the "Fax Number" field are optional. If no time or date is provided the fax will be sent immediately.

Example

```
recipient("123121312",,,,"Tony Davis")
recipient("123121312","11:20:32", "8/24/92","Tony Davis")
```

Specify the Resolution

Syntax resolution(Resolution)

Parameters

- Resolution - HIGH or LOW

Description

Sets the resolution to be used for the next transmission.

Example

```
resolution("HIGH")
resolution("LOW")
```

The Control Topic

The control topic includes a number of items that allow another application to control WinFax and request information relating the status of WinFax.

Warm Link Data Requests

A warm link data request is used to instruct WinFax that the application would like to receive information relating to a specific item whenever an event occurs that relates to the specified item. At present only one warm link item can be specified. The item name is "DoneReceivingFax".

Item	DoneReceivingFax
Operation	WM_DDE_ADVISE
Description	Instructs WinFax to send a WM_DDE_DATA message to the application whenever a fax has been successfully received.

Item	DoneReceivingFax
Operation	WM_DDE_DATA
Description	Sent to the calling application from WinFax when a fax has been received

Item	DoneReceivingFax
Operation	WM_DDE_UNADVISE
Description	Instructs WinFax to ignore the previous WM_DDE_ADVISE command

Cold Link Data Requests

A cold link data request is used by an application to query the information from WinFax. The following queries are supported :

Item	NumberFaxesReceived
Operation	WM_DDE_REQUEST
Description	returns the number of faxes that are currently in the event in-basket (i.e. displayed in the event list). It can be used to poll WinFax to determine if a new fax has been received.

Item	TimeUntilNextOutgoing
Operation	WM_DDE_REQUEST
Description	returns the time when the next fax is scheduled to be sent

Item	Status
Operation	WM_DDE_REQUEST

Description returns the status of WinFax. It can be one of "BUSY", "IDLE", "ACTIVE" or "REQUEST_ACTIVE". "BUSY" means that WinFax is currently sending or receiving, "IDLE" means that WinFax is not monitoring the ring (i.e. auto-rx is disabled), "ACTIVE" means that auto-rx is enabled but no fax event is currently in progress. "REQUEST_ACTIVE" is returned after a "GoIdle" (see below) command has been sent to WinFax, however, a scheduled fax is now due to be sent and WinFax is waiting to receive control so as to send the fax.

Commands

The following commands can be used to instruct WinFax to change its state or perform an operation:

Item	GoIdle
Operation	WM_DDE_EXECUTE
Description	This command is sent from an application which requires use of the COM port. WinFax will close the COM port and terminate the auto-rx. Any pending faxes will not be sent until WinFax is activated using the GoActive command

Item	GoActive
Operation	WM_DDE_EXECUTE
Description	Transfers control back to WinFax after a GoIdle command. Auto-rx will be enabled and any pending fax events will be sent.

Item	ReceiveFaxNow
Operation	WM_DDE_EXECUTE
Description	Instructs WinFax to perform a manual receive. An application can use this call if it determines that an incoming call is a FAX call and WinFax should perform the receive operation