

**Mobile FBUS**

**Delphi Components**

**Version 1.6**

? Software Cave  
February 2001  
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<b>Mobile FBUS</b> .....	<b>1</b>
<b>Delphi Components</b> .....	<b>1</b>
<b>Version 1.6</b> .....	<b>1</b>
<b>FBUS.PAS</b> .....	<b>5</b>
TYPES.....	5
TComPort.....	5
TReset.....	5
TAlarm.....	5
Record.....	5
TPhoneInfo.....	5
TNetworkInfo.....	5
EVENTS.....	6
TConnectedEvent.....	6
TonPlayingTone.....	6
TACDCPower.....	6
TbatteryLevel.....	6
TsignalLevel.....	6
TkeyLock.....	6
TcallInProgress.....	6
TPBEntryError.....	6
TNewSMSMessage.....	6
TSMS_Msg_Error.....	6
TSMSMessageCount.....	6
TSMSDelivMessageCount.....	6
TSMSOutMessageCount.....	6
TRingToneSent.....	6
TIncomingCall.....	7
PUBLIC.....	8
procedure Connect;.....	8
procedure Disconnect;.....	8
procedure SetAlarmTime(value : TDateTime);.....	8
procedure SetTime(Value : TDateTime);.....	8
function GetTime:TDateTime;.....	8
function NetMon(sMode:string):string;.....	8
procedure ResetPhone(ResetType:TReset);.....	8
procedure HangupPhone;.....	8
procedure MakeVoiceCall(sNumber:string);.....	8
procedure SendDTMF(sTones:string);.....	8
procedure PhoneBeep;.....	8
PUBLISHED.....	9
property Comport.....	9
property FBUSStatusBar.....	9
property OnConnected.....	9
property OnPlayingTone.....	9
property OnACDCPower.....	9
property OnBatteryLevel.....	9
property OnSignalLevel.....	9
property OnKeyLock.....	9
property OnCallInProgress.....	9
property OnPBEntryError.....	9
property OnNewSMSMessage.....	9
property OnSMSError.....	9
property OnSMSSendError.....	9
property OnSMSSent.....	9
property OnInboxCount.....	9
property OnOutBoxCount.....	10
property OnDelivaryCount;.....	10
property OnRingToneSent.....	10

Property OnIncommingCal.....	10
<b>LOGOEDITOR.PAS .....</b>	<b>11</b>
TYPES .....	11
TLogoType.....	11
EVENTS .....	11
TDownloadErrorEvent.....	11
TLogoUploaded .....	11
TLogoDownloaded.....	11
TSavedLogo .....	11
TSentViaSMS .....	11
TGridPos.....	11
PUBLIC .....	12
procedure ClearLogo;.....	12
procedure Download(iType :Integer);.....	12
procedure SendLogoToPhone;.....	12
procedure LoadLogoFromFile(sFilename:string);.....	12
procedure LoadBitmapForLogo(sFilename:string);.....	12
procedure SaveLogoToFile(sFileName:string);.....	12
procedure SendLogoViaSMS(sDestination:string);.....	12
function ExportLogoToFile(sFileName,sType:string):Boolean;.....	12
function ResetLogo(iType :Integer):Boolean;.....	12
procedure TextToLogo(img:TImage;iThreshold : Integer = 128; IScreenColor :TColor= \$FF00FF; dx :integer = 0; dy:integer=0);.....	12
procedure SetNewNetCode(Value:String);.....	12
procedure SetStatupText(stext:String);.....	12
Function DistributeLogo(sFileName,sDestination,sNetCode:string; iType:integer):boolean;.....	12
PROPERTIES.....	13
Property LogoType .....	13
Property FBUS .....	13
Property Display.....	13
Property OnLogoUploaded.....	13
Property OnLogoDownloadloaded .....	13
Property OnSavedLogotToFile.....	13
Property OnSentViaSMS .....	13
Property OnGridPos.....	13
<b>SMS.PAS .....</b>	<b>14</b>
TYPES .....	14
TSMSClass.....	14
TSMSError .....	14
TSMSSendError.....	14
TSMSSentOK .....	14
TSMSSMessage .....	14
CONSTANTS .....	14
PUBLIC .....	15
procedure RefreshSMSList;.....	15
Function SMSCount(iType:integer):integer;.....	15
function GetUnreadCount:integer;.....	15
function GetMessageTotal:integer;.....	15
function GetReceivedCount:integer;.....	15
Function MessageRead(iType,imsgIndex:integer):Boolean;.....	15
function SMSMessageData(iType,imsgIndex,iProperty:Integer):String;.....	15
function GetSMSMessageDateTime(itype,iMsgIndex:integer):TDateTime;.....	15
procedure SendSMSMessage(sDestination,sMessage:string;iSet:integer; smsClass :TSMSClass);15	
function RetrieveMessageData(iType,imsgIndex:integer):TSMSSMessage;.....	15
function DeleteSMSMessage(iType:integer;msg:String):boolean;.....	15
PUBLISHED.....	16
property OnSMSError.....	16
property OnSMSSendError .....	16
property OnSMSSent.....	16
<b>PHONEBOOK.PAS .....</b>	<b>17</b>
TYPES .....	17

TMemType	17
TPhoneBookEntry.....	17
TBook .....	17
EVENTS .....	17
TPhoneBookEntryError.....	17
PUBLIC .....	18
Function GetEntry(iIndex:integer;MemType:TMemType):TPhoneBookEntry; .....	18
Procedure AddPhoneBookEntry(MemType:TMemType; sName,sNumber,sGroup:string);.....	18
Procedure DeleteEntry(MemType:TMemType;sName,sGroup:string); .....	18
Function FindSpeedDial(iLocation:integer):TPhoneBookEntry; .....	18
Procedure AddSpeedDial(iLocation:integer;sName:String;memytype:TmemType; iPos:integer = 0);	18
Procedure EditSpeedDial(iLocation:integer;sName:String;memytype:TmemType; iPos:integer = 0);	18
PUBLISHED .....	18
Property OnPhoneBookEntryError.....	18
<b>RINGTONE.PAS .....</b>	<b>19</b>
TYPES .....	19
TMIDIOUTCAPS.....	19
TMIDIHDR .....	19
TColFrequencies .....	19
EVENTS .....	19
TPlayingTone.....	19
TRingToneSent.....	19
CONSTANTS .....	20
fbPlayRingtoneSpeaker.....	20
fbPlayRingtoneMidi .....	20
fbPlayRingtonePhone .....	20
PUBLIC .....	20
procedure ReadFile(sFileName :String); .....	20
procedure WriteFile(sFileName :String); .....	20
procedure Upload(bDirect : Boolean = False); .....	20
procedure SendAsSMS(sDestination :String); .....	20
procedure Play(Device : integer = fbPlayRingtoneMidi); .....	20
PUBLISHED.....	20
property OnPlayingTone .....	20
property OnRingToneSent.....	20
<b>Extra Components.....</b>	<b>21</b>
FBUSOPENPICTUREDIALOG.....	21
FBUSSTATUSBAR.....	21
FBUSVUMETER.....	21

# FBUS.PAS

## *Types*

**TComPort = (COM1,COM2,COM3,COM4);**

Used to specify the comport to use

**TReset = (rsSoft,rsHard);**

Used to specify the type of reset the phone will do

**TAlarm =**

**Record**

**AlarmTime : TDateTime;**

**AlarmSet : Boolean;**

**end;**

Record structure of the phone alarm information

**TPhoneInfo =**

**Record**

**IMEI : String;**

**SWVersion : String;**

**HWVersion : String;**

**Model : String;**

**SWDate : String;**

**end;**

Record Structure of the Phone model information

**TNetworkInfo =**

**Record**

**NetworkCode : String;**

**Country : String;**

**SMSCenter : String;**

**CellID : String;**

**LAC : String;**

**end;**

Record Structure of the Phone network settings

## **Events**

**TConnectedEvent = procedure(iResult:integer;msg:String) of object;**

Raises an event when the phone is connected

**TonPlayingTone = procedure(bPlaying : Boolean) of object;**

Raises an event when a ringtone is being played

**TACDCPower = procedure(ACDCPowered:Boolean) of object;**

Raises an event to indicate if the phone is powered by battery or via ACDC power, i.e. a recharger or recharge cradle

**TbatteryLevel = procedure(Level:integer) of object;**

Raises an event to indicate the level of the batteries charge. This is from 0 to 5. 5 being the highest value, i.e. fully charged

**TsignalLevel = procedure(Level:integer) of object;**

Raises an event to indicate the level of the signal. This is from 0 to 5. 5 being the highest value, i.e. an excellent signal

**TkeyLock = procedure(Locked:Boolean) of object;**

Raises an event to indicate if the Phone keyboard is locked. True is locked, false is unlocked

**TcallInProgress = procedure(CallInProgress:boolean) of object;**

Raises an event to indicate if a call is in progress. True means a call is in progress, false means there is no call in progress

**TPBEntryError = procedure(Sender:String) of object;**

Raises an event to indicate that there has been an error adding an entry to the phone's phonebook. Sender is a string explanation of the error

**TNewSMSMessage = procedure of Object;**

Raises an event to indicate that a new SMS message has been received by the phone

**TSMS\_Msg\_Error = procedure(Sender:String) of object;**

Raises an event to indicate an error while sending an SMS Message. Sender is a string explanation of the error

**TSMSMessageCount = procedure(iSMSCount:integer) of object;**

Raises an event to indicate the count of SMS Messages in the Phone's Inbox

**TSMSDelivMessageCount = procedure(iSMSCount:integer) of object;**

Raises an event to indicate the count of SMS Messages in the Phone's Delivered messages box

**TSMSOutMessageCount = procedure(iSMSCount:integer) of object;**

Raises an event to indicate the count of SMS Messages in the Phone's out box

**TRingToneSent = procedure(Sent:Boolean) of Object;**

Raises an event to indicate if a ringtone has been sent via SMS. True means it has been sent successfully, false means there was an error sending it.

**TIncomingCall = procedure(Number:String) of Object;**

Raises an event to indicate that there is an incoming call on the phone. Number is a string containing the name or number of the caller. If the number is in the phones phonebox, it will display the name of the caller, otherwise it will return the number

## **Public**

### **procedure Connect;**

This procedure initiates a connection to the phone

### **procedure Disconnect;**

This procedure will disconnect the connection to the phone.

### **procedure SetAlarmTime(value : TDateTime);**

This procedure will set the alarm on the phone

### **procedure SetTime(Value : TDateTime);**

This procedure will set the date and time on the phone

### **function GetTime:TDateTime;**

This function will get the current time from the phone. By default, they date may not be set on the phone, and the first time you call GetTime the date may be a random date, but one you set the date and time, the date will be set in the phone, and will it will keep the correct date from there.

### **function NetMon(sMode:string):string;**

This function is used to query the different NetMonitor screens on the phone, and each of the screens is returned as a string.

### **procedure ResetPhone(ResetType:TReset);**

This procedure will reset the phone depending on the TReset Type passed

### **procedure HangupPhone;**

This procedure will hang up a phone call in progress

### **procedure MakeVoiceCall(sNumber:string);**

This procedure will make a voice call to the number passed to it

### **procedure SendDTMF(sTones:string);**

This procedure will send DTMF tones to the phone depending on the tone passed to it.  
Valid tones are 0 to 9, # and \*

### **procedure PhoneBeep;**

This will cause the phone to make a beep sound

## ***Published***

**property Comport : TComport read GetComport write SetComPort;**  
Sets the comport to use to connect to the phone'

**property FBUSStatusBar : TMFBUSStatusBar read fFBUSStatusBar write fFBUSStatusBar;**  
This specifies a connection to the FbusStatusbar to use.

**property OnConnected : TConnectedEvent read GetConnectedState write SetConnectedState;**  
This is were the event to indicate if the phone is connected is handled

**property OnPlayingTone : TOnPlayingTone read GetOnPlayingTone write SetOnPlayingTone;**  
This is were the event to indicate if a ringtone is being played is handled

**property OnACDCPower : TACDCPower read GetACDCPowerStatus write SetACDCPowerStatus;**  
This is were the event to indicate the power source of the phone is handled

**property OnBatteryLevel : TBatteryLevel read GetBattLevel write SetBatteryLevel;**  
This is were the event to indicate the battery charge level is handled

**property OnSignalLevel : TSignalLevel read GetSignalLevel write SetSignalLevel;**  
This is were the event to indicate the signal level is handled

**property OnKeyLock : TKeyLock read GetKeyLock write SetKeyLock;**  
This is were the event to indicate if the phones keyboard is locked or not is handled

**property OnCallInProgress : TCallInProgress read GetCallInProgress write setCallInProgress;**  
This is were the event to indicate if a call is in progress is handled

**property OnPbEntryError : TPbEntryError read ePbEntryError write SetPbEntryError;**  
This is were the event to indicate if there was an error adding a Phonebook entry is handled

**property OnNewSMSMessage : TNewSMSMessage read eNewSMSMessage write eNewSMSMessage;**  
This is were the event to indicate when a new SMS message has been received by the phone is handled

**property OnSMSError : TSMS\_Msg\_Error Read eSMSError write eSMSError;**  
This is were the event to indicate if there was an error with SMS is handled

**property OnSMSSendError : TSMSSendError read eSMSSendError write eSMSSendError;**  
This is were the event to indicate if there was an error sending an SMS message is handled

**property OnSMSSent : TSMSSentOk read eSMSSent write eSMSSent;**  
This is were the event to indicate if an SMS message was sent successfully or not is handled

**property OnInboxCount : TSMSMessageCount read eSMSMessageCount write eSMSMessageCount;**  
This is were the event to indicate the count of SMS messages in the phones Inbox is handled

**property OnOutBoxCount : TSMSOutMessageCount read eSMSOutMessageCount write eSMSOutMessageCount;**

This is were the event to indicate the count of SMS messages in the phones OutBox is handled

**property OnDelivaryCount : TMSDelivMessageCount read eSMSDelivMessageCount write eSMSDelivMessageCount;**

This is were the event to indicate the count if SMS messages in the Deliverybox is handled

**property OnRingToneSent : TRingToneSent read eRingToneSent write eRingToneSent;**

This is were the event to indicate if a ringtone has been sent via SMS successfully or not is handled

**Property OnIncommingCall : TIncomingCall read eIncomingCall write eIncomingCall;**

This is were the event to indicate if the phone is receiving an incoming call is handled

# LOGOEDITOR.PAS

## *TYPES*

### Type

**TLogoType = (fbNoLogo, fbStartupLogo, fbOperatorLogo, fbCallerLogo)**

## *Events*

**TDownloadErrorEvent = procedure(iError:integer) of object;**

This event handler is raised when an error occurs trying to download a logo from the phone

**TLogoUploaded = procedure(Uploaded:Boolean) of object;**

This event handler is raised when a logo has successfully been sent to the phone

**TLogoDownloaded = procedure(Downloaded:Boolean) of object;**

This event handler is raised when a logo has successfully been downloaded from the phone

**TSavedLogo = Procedure(SavedToFile:Boolean)of object;**

This event handler is raised when a logo has successful been saved to file

**TSentViaSMS = Procedure(Sent:Boolean)of object;**

This event handler is raised when a logo has been successfully sent Via SMS

**TGridPos = Procedure(X,Y:integer) of object;**

This event returns the cell position of the mouse in the logo editor

## ***PUBLIC***

### **procedure ClearLogo;**

This procedure clears the logo editor

### **procedure Download(iType :Integer);**

This procedure downloads a logo of type TLogoType. Use Ord(logotype) to pass the integer value of the logotype, i.e. Ord(fbOperatorLogo)

### **procedure SendLogoToPhone;**

This procedure will send the currently displayed logo to the phone

### **procedure LoadLogoFromFile(sFilename:string);**

This procedure will load a Logo from file. This can be a NOL, NGG or an NLM

### **procedure LoadBitmapForLogo(sFilename:string);**

This procedure will load a graphic from file . This can be a BMP, GIF, JPG

### **procedure SaveLogoToFile(sFileName:string);**

This procedure will save the currently displayed logo to a Logo file

### **procedure SendLogoViaSMS(sDestination:string);**

This procedure will send a logo via SMS. If you are sending a logo to another phone which has a different provider than yours, and you want them to be able to save the logo, you will have to set the providers information before sending the logo. (see SetNewNetCode)

### **function ExportLogoToFile(sFileName,sType:string):Boolean;**

This function will export the currently displayed logo to a specific file type, i.e. BMP, GIF, JPG

### **function ResetLogo(iType :Integer):Boolean;**

This function will reset a logo on the phone, i.e. the ORD of TLogoType, eg. ORD(fStartupLogo)

### **procedure TextToLogo(img:TImage;iThreshold : Integer = 128; IScreenColor :TColor=\$FF00FF; dx :integer = 0; dy:integer=0);**

This procedure will send Text to the logo editor. (See Demo for an example)

### **procedure SetNewNetCode(Value:String);**

this procedure will set the Netcode of a provider for a Logo to be sent via SMS

### **procedure SetStatupText(stext:String);**

This procedure will set the Startup Text of the phone

### **Function DistributeLogo(sFileName,sDestination,sNetCode:string; iType:integer):boolean;**

This function will send a logo to a destination without previewing the image. If you want to send a logo to multiple recipients, use this function. Sfilename is the logo filename, sDestination is the phone number to send to, sNetcode is the netcode of the recipients provider, and iType is the ORD of the TLogoType.

## ***Properties***

**Property LogoType : TLogoType read GetLogoType write SetLogoType;**

This property will Set the Logo type of the phone, and will resize the logo editor to the right height and width for the logo selected

**Property FBUS : TFBUS read GetFBus write SetFBus;**

This property sets a reference to the main FBUS component. The logo editor will not work correctly WITHOUT a reference to an FBUS component

**Property Display : TImage read fDisplay write SetDisplay;**

This property sets a reference to an Image Control that can be used to display the logo I its actual size. This is not required.

**Property OnLogoUploaded : TLogoUploaded read GetLogoUploaded write SetLogoUploaded;**

This is were the event to indicate when a logo has been uploaded is handled

**Property OnLogoDownloadloaded : TLogoDownloaded read GetLogoDownloaded write SetLogoDownloaded;**

This is were the event to indicate when a logo has been downloaded is handled

**Property OnSavedLogotToFile : TSavedLogo read GetSavedToFile write SetSavedToFile;**

This is were the event to indicate when a logo has been saved to file is handled

**Property OnSentViaSMS : TSentViaSMS read GetSentViaSMS write SetSentViaSMS;**

This is were the event to indicate when a logo has been sent via SMS is handled

**Property OnGridPos : TGridPos read GetGridPos write SetGridPos;**

This is were the event to indicate the cell position of the mouse on the logo editor is handled

# SMS.PAS

## *Types*

**TSMSClass = (fbSMSCClassFlash,fbSMSCClassNormal,fbSMSCClass2,fbSMSCClass3);**

Used to specify the SMSCClass type

**TSMSError = procedure(ErrorMessage : String) of object;**  
Raises an event when an SMS message error has occurred

**TSMSSendError = procedure of object;**  
Raises an event when an error occurred sending an SMS Message

**TSMSSentOK = Procedure of Object;**  
Raises an event when an SMS Message has been successfully sent

**TSMSTMessage =**

**Record**

**msg\_Date : TDateTime;**

**sSender : String;**

**bRead : Boolean;**

**sMessage : String;**

**end;**

Record Structure of an SMS Message

## **Constants**

fbOutgoingMessage = 11;

fbDeliveryReport = 12;

fbIncommingMessage = 13;

## ***Public***

### **procedure RefreshSMSList;**

This procedure will refresh the list of SMS messages

### **Function SMSCount(iType:integer):integer;**

This function will return the Count of messages in the Box Type, specified by one of the box type constants.

### **function GetUnreadCount:integer;**

This function returns the count of unread messages in the inbox

### **function GetMessageTotal:integer;**

This function returns the total messages in the inbox

### **function GetReceivedCount:integer;**

This function returns the count of received messages. When a new message has been received by the phone, you can use this function to find out how many new messages were received

### **Function MessageRead(iType,msgIndex:integer):Boolean;**

This function indicates if a message specified by its index and the box it is in, has been read yet or not

### **function SMSMessageData(iType,msgIndex,iProperty:Integer):String;**

This function returns an SMS Message and its information based on its index and its box type

### **function GetSMSMessageDateTime(itype,iMsgIndex:integer):TDateTime;**

This function returns the date and time of an SMS Message based on its index and box type

### **procedure SendSMSMessage(sDestination,sMessage:string;iSet:integer; smsClass :TSMSClass);**

This procedure sends an SMS Message

### **function RetrieveMessageData(iType,msgIndex:integer):TSMSCMessage;**

This function returns the message data based on its index and box type

### **function DeleteSMSMessage(iType:integer;msg:String):boolean;**

This function will delete an SMS message based on its box type.

## ***Published***

**property OnSMSError : TSMSError read GetSMSError write SetSMSError;**

This is were the event to indicate if there has been an SMS error is handled

**property OnSMSSendError : TSMSSendError read getSMSSendError write SetSMSSendError;**

This is were the event to indicate if an SMS Message had an error when sending is handled

**property OnSMSSent : TSMSSentOk read GetSMSSentOk write SetSMSSentOk;**

This is were the event to indicate if an SMS Message has been sent successfully is handled

# PHONEBOOK.PAS

## *Types*

```
TMemType = ( fbPhoneMemory,fbSimMemory,fbFixedDialMemory,fbOwnNumberMemory,  
              fbEmergencyNumberMemory,fbDialedNumberMemory,  
              fbReceivedNumberMemory,fbMissedNumberMemory,fbLastDialedMemory,  
              fbCombinedPhonebookMemory);
```

Used to specify the Phonebook memory type

```
TPhoneBookEntry =  
  record  
    Location : integer;  
    MemType  : TMemType;  
    Name     : string;  
    Number   : String;  
    Group    : integer;  
  end;
```

Record Structure of a phonebook entry

```
TBook =  
  record  
    Name : string;  
  end;
```

Record structure of a phonebook book

## *Events*

```
TPhoneBookEntryError = Procedure(msg:String) of Object;
```

Raises an error when there has been a phonebook entry error

## ***Public***

**Function GetEntry(iIndex:integer;MemType:TMemType):TPhoneBookEntry;**

This function returns a Phonebook entry based on an index to read, and the memory type to read

**Procedure AddPhoneBookEntry(MemType:TMemType; sName,sNumber,sGroup:string);**

This procedure adds a phonebook entry based on an index to write to, and the memory type to write to, and the group number

**Procedure DeleteEntry(MemType:TMemType;sName,sGroup:string);**

This procedure deletes a phonebook entry based on an index of the entry, and the memory type and the group number

**Function FindSpeedDial(iLocation:integer):TPhoneBookEntry;**

This function returns a phonebook entry based on the speeddial location index

**Procedure AddSpeedDial(iLocation:integer;sName:String;memtype:TmemType;  
iPos:integer = 0);**

This procedure adds a speeddial based on the speeddial location index, the phonebook entry name, and the memory type

**Procedure EditSpeedDial(iLocation:integer;sName:String;memtype:TmemType;  
iPos:integer = 0);**

This procedure edits a speeddial based on the speeddial location index, the phonebook entry name, and the memory type

## ***published***

**Property OnPhoneBookEntryError : TPhoneBookEntryError read**

**GetPhoneBookEntryError write SetPhoneBookEntryError;**

This is where the event to indicate if a Phonebook entry error occurred is handled

# RINGTONE.PAS

## *Types*

**TMIDIOUTCAPS =**

```
Record
  wMid      : Integer;
  wPid      : Integer;
  vDriverVersion : dword;
  szPname   : String[32];
  wTechnology : Integer;
  wVoices   : Integer;
  wNotes    : Integer;
  wChannelMask : Integer;
  dwSupport  : dword;
end;
```

Record Structure for MIDI Output

**TMIDIHDR =**

```
Record
  lpData      : String;
  dwBufferLength : dword;
  dwBytesRecorded : dword;
  dwUser      : dword;
  dwFlags     : dword;
  lpNext     : dword;
  Reserved    : dword;
End ;
```

Record Structure for MIDI Header

**TColFrequencies =**

```
Record
  Value : Double;
  Freq  : String;
end;
```

Record Structure for Frequences

## ***EVENTS***

**TPlayingTone = procedure(bPlaying : Boolean) of object;**

Raises an event when the phone is playing a Ringtone

**TRingToneSent = procedure(Sent : boolean) of object;**

Raises an event when the ringtone has been sent via SMS

## ***Constants***

**fbPlayRingtoneSpeaker = 0;**

**fbPlayRingtoneMidi = 1;**

**fbPlayRingtonePhone = 2;**

Specifies the device to use when playing a ringtone

## ***Public***

**procedure ReadFile(sFileName :String);**

This procedure reads a ringtone file into memory

**procedure WriteFile(sFileName :String);**

This procedure writes a ringtone to a ringtone file

**procedure Upload(bDirect : Boolean = False);**

This procedure Uploads a new ringtone to a phone

(note: Nokia 51xx phones can not upload new ringtones)

**procedure SendAsSMS(sDestination :String);**

This procedure sends a ringtone as an SMS message to another cellphone

**procedure Play(Device : integer = fbPlayRingtoneMidi);**

This procedure will play a ringtone to the specified device.

(Note: the speaker playback only works under Winnt 4 and Win2K, but even though the 51xx phones cant save a ringtone to memory, you can still preview the ringtone through the phone)

## ***Published***

**property OnPlayingTone : TPlayingTone read GetPlayingTone write SetPlayingTone;**

This is were the event to indicate when a ringtone is being played is handled

**property OnRingToneSent : TRingToneSent read eRingToneSent write eRingToneSent;**

This is were the event to indicate if the ringtone was send via SMS successfully is handled

## Extra Components

### ***FBUSOpenPictureDialog***

The FBUSOpenPictureDialog is a specially altered OpenDialog that will display a preview of not only BMP, and JPG images, but also GIF images, as well as Nokia Logo files, NOL. NGG and NLM.

It is used only by the LogoEditor, and is opened by calling **FBUSOpenPictureDialog1.execute**. It returns a modal result, and a filename just like other dialogs.

### ***FBUSStatusBar***

The FBUSStatusBar has been specially written to work with the FBUS component and will automatically indicate events like, if the phone is connected, if the keyboard is locked, if the alarm is set, if a call is in progress, the power source of the phone, and the battery and signal levels. It is designed to just drop on a form, and a property set in the FBUS component properties, and the source code does the rest. Automatically updating each item as its event changes.

### ***FBUSVUMeter***

The FBUSVUMeter is designed to work with the FBUSStatusBar, but it can be used on its own. It's a meter that shows levels like the Battery and signal levels, with a color representation of the level value, i.e. Green being good – excellent, Red being low – bad.

It is recommended that the demo be consulted for ideas on how to use all of the functions, procedures, and events in all the above Components and Classes.