

Integrated Notification System (INS)

Version 6.2.4

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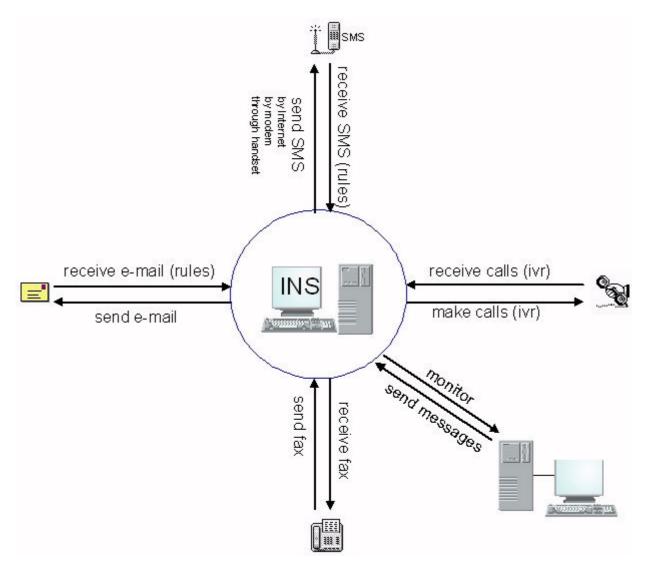
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Main features

The *Integrated Notification System* is a highly configurable communication tool designed to send messages through your computer and lets your computer handle incoming calls.

Best of all you do not have to buy an expensive <u>voice board</u> to access all those features. Any voice-enabled <u>modem</u> can be used.



Using the Integrated Notification System you can

- Send messages to
 - o pagers
 - mobile phones (Through the SMS standard)
 - fax machines
 - voice recipients
 - e-mail recipients
- Send faxes from any print enabled application using the Windows <u>printer</u>
 <u>driver</u>
- Send faxes to distribution groups
- Design interactive voice response (IVR) scripts to answer incoming calls. The caller can navigate through the script by pressing digits on the phone keypad. Scripts like multi-user voice mail boxes, credit card verification or fax-on-demand are set up within minutes. Message Server supports an unlimited number of incoming lines.
- Design interactive scripts to dynamically react on SMS or e-mail messages. Scripts like SMS-to-Email or Email-to-SMS are only some of the possibilities
- Receive faxes
- Scanning external application for values and in the event the criteria is met, send a message to a user. Ideal for SCADA alarming or Network monitoring.

The Integrated Notification System consists of the following applications:



Receiving voice calls

By using the intuitive but powerful graphical script <u>Designer</u> you can create interactive phone applications (Also called Interactive Voice Response IVR Systems), where the caller uses the phone keypad to enter values and navigates through a script. Applications like Credit Card verifications, Fax-On-Demand, SMS-On-Demand or Voice-Mail may be designed within minutes.

All values entered by the caller are available for further processing in the script or can be exchanged with any other application like Excel or Visual Basic.

Receiving SMS/E-mail

By using the intuitive but powerful graphical script Designer you can create scripts that react on incoming messages. The message (SMS or E-mail) is queried for the specified values and format and then you can react on its contents. SMS/Email forwarding, SMS/Email auto reply, SMS on demand, etc, may be designed within minutes. All values received are available for further processing in the script or can be exchanged with any other application like Excel or Visual Basic.

Sending Messages

Using the <u>Message Center</u> utility, you can define a database of <u>contacts</u> to which you may send your messages. Messages can be sent by

- Pager
- Mobile phones (Through the SMS standard)
- Fax
- E-mail
- Voice file
- or as script

When sending a message you can decide to send it using a pre-specified communication link or to let *Message Server* choose the most appropriate link. If you let *Message Server* choose the link, it will automatically <u>adapt</u> the message to suite the selected communication link.

The messages can be sent through the *Message Center* interface or using the command line interface of <u>Send Message</u>.

<u>Check-It</u> allows you even to query other applications for values and send alarm messages if those values exceed the defined limits. This feature makes the suite invaluable for SCADA applications, where you need to monitor factory floor data. Network administrator may set up events to monitor the loss of communication and sent alarm messages to the support group.

Getting Started

How to ...

...set up the application initially

To set up the application initially please use the <u>Tools->Quick Setup</u> option in the MsgCenter utility, found in the main directory. This will lead you through a set of screens which sets up you modem, script and other settings.

To change other parameters of the suite you can use the <u>Tools->Preferences</u> option. This however is not necessary in most cases.

...run a voice script to answer calls or respond to SMS/E-Mail events with a script

Scripts can either be voice scripts (started when a call comes in) or text scripts (started when a new e-mail or SMS is received, or at predefined timer intervals). Once you have set up the suite you may use <u>Designer.exe</u> to edit the selected script file. Designer is a graphical script interface, which allows you to create and modify answering scripts. All voice script files have the extension VSC and all text script files the extension TSC.

The flow of the script is usually from top to bottom, starting at the cell with the red caption until it reaches an end point. The end point should be a HANGUP or EXIT cell.

By double clicking on a cell you may open a pop up screen which allows you configure the behaviour of the cell.

Once you have designed the script you need to select it in the appropriate place.

For voice scripts:

- 1. Define a new line under <u>MsgCenter->Tools->Preferences->Communication</u> as type "VOICE: Incoming Voice/Fax calls"
- 2. Select the script under "Script"
- 3. Make sure that a communication device under "Connected to" is correct.

For Timer activated scripts:

- Define a new line under <u>MsgCenter->Tools->Preferences->Communication</u> as type "Timer"
- 2. Select the script under "Script"
- 3. Set the scan interval to a non zero value

For <u>SMS</u> scripts:

- Define a new line under <u>MsgCenter->Tools->Preferences->Communication</u> as type "SMS: Incoming SMS through Handset"
- 2. Make sure that a communication device under "Connected to" is correct.

 Set the inbox scan interval to a non zero value (The system will download the messages every scan and then execute the script)

For E-mail scripts:

- Define a new line under <u>MsgCenter->Tools->Preferences->Communication</u> as type "E-MAIL: Incoming E-Mail"
- 2. Make sure that a valid e-mail profile is selected under "Connected to".
- 3. Enter the correct POP settings if necessary
- Set the inbox scan interval to a non zero value (The system will download the messages every scan and then execute the script)

Then start the <u>MsgServer</u> application. This application handles all calls from and to your system.

Message Server will go through a start-up routine where all settings are checked. If during the start-up errors are encountered, an error message is displayed for 5 second and the icon on the right side of the taskbar blinks. Clicking on the icon opens a menu, which allows you to open the different logs or to close the application. The SYSTEM LOG reports all events during the current session, so it is a good idea to leave it open at beginning. If there were no errors during start-up and there is a valid script configured, the SYSTEM LOG will display "Running script [scriptname]". Now you are ready to call the line to which your modem is attached to and watch the script running. The SYSTEM LOG will always display the current cell name, the keys entered by the caller and any other event occurring during the call. When a text script (SMS or E-mail) is selected the system will periodically (Scan

time) download the new messages and the run the script on the new messages.

...send a message to a contact

After the initial set up through <u>MsgCenter</u> select the Contacts icon in the explorer window. Select the default MAW entry and right click on the icon. Then select *Duplicate*. Enter your name and change the appropriate settings. If applicable select your SMS services. In the CONTACT TIMES part you may configure during what time which device can be used. If you only wish to receive SMS messages just select SMS as first link and as first preference.

Then choose File->New->Message and select the created contact as *Recipient*. Under *Send Via* you can select if the message will be send by the user defaults (entered in contacts) or through a pre-selected communication link.

The advantage of specifying multiple communication links for a contact is that a message may be send using the most appropriate communication for the time. Then enter a message and press SEND. This will add the message to the outgoing message queue and <u>MsgServer</u> will send it using the appropriate communication device.

Start <u>MsgServer</u> as described above.

Depending on the selected device the message will be <u>adapted</u>. Please search the help file for "Message adaptation" for more information on how <u>MsgServer</u> can adapt your message to suite a particular communication device.

...send a message from a web site

There is a sample on C:\INS\SampleScripts\Text Scripts\SMSFromWeb that shows on how to set up a web site that gets user input and then sends it via e-mail to a predefined e-mail address. With Message Server you can then read this e-mail and from a text script do the required functions to return a desired logo, or other information.

...configure Check-it to scan Excel for values

Start <u>CheckIt.exe</u>. The application will run minimized and only appear as icon on the right side of the task bar. Click on the icon to open the configuration screen. The example event will scan Excel every minute for the value of cell A1 (R1C1). If the value in this cell exceeds 10, an alarm message will be sent to the contact MAW. In order for this example to work Excel needs to be running in the background. Also Check-It needs to be minimized to start scanning the values.

...install MsgServer.exe as a service under Windows

(See on p.20, "Running MsgServer.exe as service under Windows")

...get more information

All applications have on-line help. So please use F1 anywhere in the applications to get context sensitive help.

Order and registration

To order a copy of INS or to check its current price, please go to <u>www.mawnet.com/order.html</u>

After your order has been approved, you will receive from us within 24 hours an email with your serial key that unlocks your evaluation copy into a fully licensed version. This key also entitles you to future upgrades, so please store it in a safe place.

To register the application, please open MsgCenter.exe and enter the provided unlock key on the about form. For this the user needs to have the administrator access rights to be able to write to the registry. Also for the software validation, administrator access is required.

Once registered, any other user may log on and use any other INS application however.

The MsgServer.exe application should always be run under the administrator account.

About

Support

For all support questions please refer to our support forum on <u>www.mawnet.com/support.html</u>

Please note:

- We can not provide phone support for our evaluation copies, please use the forum above
- Always indicate your name and e-mail address whenever you contact us

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General

The Message Server application is the main application of *INS*. It runs continuously in the background of a voice board or voice modem equipped PC and handles all communication requests to and from the outside world.

After startup the application displays an icon in the System Tray (Right part of task bar).

The signification of the icon is as follows:

2	The system runs normally
*	The information queue has a new entry
*	The warning queue has a new entry
	The error queue has a new entry
	(a right-click on the error log window and select "Acknowledge all" will reset all error indications on the taskbar)
5	The system is checking the message queue
. *:	Message Server was suspended because a fax call was detected.
N 3	Message Server was suspended because a data call was detected.
20	<i>Message Server</i> was suspended because <u>Message Center</u> is active and uses the modem for voice playback/recording. <i>Message Server</i> will resume as soon as <i>Message Center</i> quits.
\$ \$ \$ \$	Each incoming line has its own icon on the task bar, labeled from one to the number of incoming lines configured. Those icons are only visible when the associated device (Modem) is enabled and a script is selected for it.
T B B	The Timer channel is represented by a "T", the incoming SMS channel is represented by the "sms" icon while the incoming e-mail icon is represented through the "@" icon. Those icons are only visible when the associated device (SMS/Email/Timer) is enabled and a script is selected for it.

By right clicking on the $\frac{1}{2}$ icon or on any of the $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ icons the following menu is available:

System Log Error Log Outbox Log Sent Log Script Log Run <u>M</u>sgCenter Close

System Log

Displays the system messages in text form. Here you are able to see all events and modem responses. When *Message Server* closes down the log is saved as c:\INS\session.log. You can disable the log in <u>Tools->Preferences->General</u>.

Error Log

Displays a summary of all error messages. You may configure the days the error messages are kept under <u>Tools->Preferences->General</u> in the <u>Message Center</u> utility.

If you wish to acknowledge an error message, right click on it and select "Acknowledge".

If you entered this menu through clicking on an incoming line icon, only the errors for this incoming device will be displayed.

Outbox Log

Displays a summary of all unsent messages.

Sent Log

Displays a summary of all messages sent. . You may configure the days the messages are kept under <u>Tools->Preferences->General</u> in the <u>Message Center</u> utility.

Script Log

Displays a log of all incoming calls and the path taken by the script. You may configure the number of scripts to be displayed under <u>Tools->Preferences->General</u> in the <u>Message Center</u> utility.

If you entered this menu through clicking on an incoming line icon, only the scripts for this incoming device will be displayed.

Run MsgCenter

Runs the <u>Message Center</u> utility.

Quit

Shuts down all channels (modems or voice board channels) and quits the application.

Message handling

Message Server is capable of sending messages using the following communication types:

Type SMS (to pager or mobile phone)	Capacity Alphanumeric messages up to 160 characters Pictures (72 x 28 pixels)* Ring tones* Logos (72 x 14 pixels)*
	*Only with supported mobile phones and a SMS central that supports this feature
Facsimile	Alphanumeric messages with no limits on number of characters, use of cover page
E-mail	Alphanumeric messages with no limits on number of characters, use of cover page and attachments
Voice recipients	Alphanumeric messages, read either character by character or using <u>pre-recorded words</u> , use of cover voice files.
Scripts	Scripts as designed with <u>Designer</u> which will start to execute as soon as the called person answers the phone.
	The only difference between an incoming script and an outgoing script is that the outgoing script can not have a <u>hangup</u> cell at the end. It is a part of an outgoing call so the hangup will be done by the calling voice message. (After <u>confirmation</u> of the script).

Message adaptation

Most of us use different communication tools at different times. It is not uncommon that we receive our messages by e-mail during working hours, but by SMS at home. To make sure that the message finds a way to get to its recipient, you can configure all communication types your contacts are likely to use and define at which times to use what type.

As different communication types have different capacities *Message Server* can "adapt" a message to the individual type. Using the <u>Tools->Preferences</u> menu item in the <u>Message Center</u> utility you can influence how messages are adapted.

IE if you check the ${\tt speak}$ only CAP characters flag in the <u>voice</u> configuration a message sent to a fax with the reading

PV has reached a value > 30

will become

{P}{V} {higher than} {30}

Voice Engine

The Message Server Voice Engine allows you to <u>pre-record</u> characters, words or expressions and accesses them through text messages.

IE if you pre-record the voice files

TEMPERATURE.WAV ALARM.WAV VALUE.WAV

a message string with the contents

TEMPERATURE ALARM TT42 VALUE >23.45

will be read as {TEMPERATURE} {ALARM} {T}{}{2}{} {VALUE} {is higher than} {2}{3}{point}{4}{5}

The file ASSORTED.CFG contains the mapping for each voice file. This allows attributing a voice file to a particular string. All voice files need to be located in the <u>voice file</u> <u>directory</u>.

IE the entry "ALARM"=ALARM plays the voice file ALARM.WAV whenever the string ALARM is found in a message and the entry "*"=STAR plays the voice file STAR.WAV whenever the character * is found. If the message string contains words that are not defined, they are read back on a character-per-character base.

TTS Engine (Text-to-Speech)

If a text to speech engine is installed you may use it to play back written text in the <u>Speak String</u> cell. Currently Message Server can only work with SAPI 4.

For SAPI 4, you will want to download speech synthesis and recognition engines from Microsoft's website at:

http://www.microsoft.com/downloads/release.asp?ReleaseID=26299

The file that you will want to get is SAPI4SDKSuite.exe (the large file). This contains the SAPI COM interfaces as well as speech synthesis and recognition engines.

After installing this package, the Message Server will automatically pick it up and let you use the speech capabilities.

Please note that WindowsXP ships with SAPI5 which will not work with *INS*. You may however additionally install SAPI4 as SAPI4 and SAPI5 can coexist on the same computer.

Sending of Files vs. sending of text

If a message launched to a voice recipient represents a valid voice file path, the voice file is played and not read character by character. So if the message

C:\INS\ALERT.WAV

is send to a voice recipient the file ALERT.WAV is played when the other party responds, not a list of characters.

The same applies for faxes, e-mails and scripts. If the message represents a valid file, the content of the file is sent rather than the file path.

Valid voice file extensions are WAV - Windows Audio File Valid mail file extensions are *.* - (all files) Valid fax file extensions are APF - Fax files BMP - Windows Bitmap DCX - Multi page PCX PCX - PC Paintbrush TIF - Tagged Image File TXT - ASCII text file Valid SMS picture/logo file extensions are GIF - Graphic Interchange Format Valid SMS text/ringtone file extensions are TXT - ASCII text file

Fax printer driver

Message Server is able to send faxes from any print enabled Windows application. To do so the Quick Setup option will add an additional printer to your system. The new printer is called **[INS Fax Printer]**.



So whenever you wish to fax a document, just print it to this printer and your fax will be sent by Message Server. (Message Server needs to be running when printing the fax).

When printing from the Windows application the following dialog will appear.

📱 Send Fax to 🛛 🛛 🔀
Direct to FAX #
or
Recipient(s) MAW
Fax Cover
Fax Number
Time to send 28 / 07 / 2005 23 : 17 : 19
Create fax file only
X Close

Just select the recipient from the selection box or enter a new name. The Explorer button next to the recipient will open the detail page for this recipient (As entered under <u>Contacts</u>). You can also send faxes to an entire <u>ContactList</u> by selecting the list either from the selection box or by entering a new list name. (Must start with the ">" character). Pressing on a list will open the detail page for the entered list. When sending faxes to a list the *Fax Cover* and *Fax Number* will be taken from each individual user.

If you wish to send a fax just once directly to a FAX number, without the need to create a new user, then just enter the fax number in the top field under *Direct to FAX*. A temporary user will be created automatically and deleted again when the message is sent.

As long as there is anything written in this field, some of the other fields are hidden. To display them again, just delete the entry in the *Direct to FAX* field.

Creating off-online faxes

You may use the fax printer driver to create off-line files that are not send immediately, but separately at a later stage. To do so enable the *Create fax file only* check box in the <u>Fax Printer Driver</u> and chose the location where you wish the fax file to be created.

📲 Send Fax to	×
Fax File T:\fax.APF	
]
🔽 Create fax file only	
X <u>C</u> lose	Ē <u>≣</u> <u>C</u> reate

FAX reception

Message Server is able to receive faxes either at the start of a voice script or during the recording of a voice file. To set the number of seconds to wait at the beginning of a script for a fax signal see the settings under <u>Incoming Script(s)</u>.

If a fax is detected during the recording of a voice file (in the <u>Record Message</u> cell or the <u>Voice Mail</u> cell) *Message Server* will stop the current script and switch to the fax reception mode. Once the fax transmission has succeeded the fax is available in the inbox of *Message Center*.

Message confirmation

Message Server retries to send a message <u>Number of attempts</u> times. A message is considered as sent if

Туре	Confirmation
SMS	SMS central sent ACK
Facsimile	Internal Fax application: Fax confirmed by remote station External Fax application: Application is started Fax through MsMail: Mail engine reports no error
E-mail	Mail engine reports no error
Voice recipients	User confirms message by pressing the confirm message key
Scripts	User confirms message by pressing <u>the confirm message key</u> BEFORE OR AFTER THE SCRIPT.

Command line parameters

You can start MsgServer.exe with the following command line parameters:

/DEBUG Writes additional messages to the session.log that allows the MAW Support crew to better understand potential problems with your system

/NOFORM Does not display the taskbar icons nor any other form

/SERVICE Indicates that MsgServer rungs as a service under Windows

Please only use those parameters when directed by MAW support to do so.

Running MsgServer.exe as service under Windows

MsgServer.exe can run as a service under WindowsNT (WindowsNT, Windows2000 or WindowsXP). This has the advantage that MsgServer.exe is loaded every time the system starts and you do not need to log on to start MsgServer.

To install the MsgServer service please run the batch file found under c:\INS\utilities\service\InstallAsService.bat.

This utility will install a service called MsgServer which you can edit through the service tab in the Windows control panel.

Once you have installed the service you need to re-boot the computer for the service to load.

To uninstall the service please run c:\INS\utilities\service\UninstallAsService.bat. If the MsgServer service is started and a user logs onto the computer, the tray icons are visible as if the application was started normally. You may completely hide the icons by setting the services settings for the MsgServer to "Do not allow service to interact with desktop". If the icons are visible and the user logs off, the MsgServer service is stopped. This behaviour is by design.

To use the fax printer driver to send faxes the icons need to be visible.



MsgCenter.exe

General

The *Message Center* tool is the main user interface to the *Integrated Notification System*. Here you can

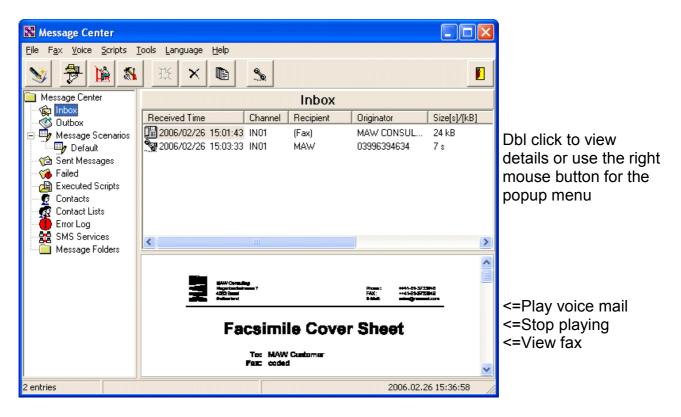
- listen to your voice messages
- view your faxes
- send messages
- <u>record</u> voice files
- <u>configure</u> your <u>communication device</u> and other parameters
- define <u>contacts</u>
- etc.

All settings, messages and logs are kept in a set of databases found in the installation directory.

Main panel

The main pane displays all Message Server log entries. Those logs are updated whenever you receive voice mail or faxes through <u>the voice mail cell</u>, or if a caller executes a script. To delete an entry, simply press or use the pop-up menu.

To get more information about a list item just double click on it.



New Message (File->New->Message)

This screen allows you to create messages and send them. Under **Send via** you can select if the message will be send according to the user defaults (Entered in <u>contacts</u>) or through a pre-selected communication link. The advantage of specifying multiple communication links in contacts is that a message may be send using the most appropriate communication link for the time. It also acts as backup, so that if one link is not available the message will be send through another.

Pressing SEND will add the message to the outgoing message queue and *Message Server* will send it using the appropriate communication device.

Depending on the selected device the message will be <u>adapted</u>.

You can also modify the sending time so that the message is only send at a later moment. If you change any of the parameters associated with a contact those parameters will become the new parameters of this contact.

New Message Time to send 2006 / 02 / 26 15 40 : 30		<=Time to send
Recipient(s) MAW	Send as SMS	<=Message type
SMS Number +41799999999		<=Recipient details
SMS Central (Internet) Clickatell	Send SMS as Text Flash SMS Ring Tone Picture Operator Logo Group Logo WAP Download	<=Text
Eend <u>Send</u>	Add to scenario	<=Send/Clear

Message Scenarios

The option "*Add to scenario*" will add this message to a scenario. Message Scenarios are messages that you can predefine, store in a folder (scenario) and activate as a group at a later stage. To activate a scenario from MsgCenter just right-click on the scenario and select "*Launch scenario*".

You can also activate a scenario through <u>Send Message</u> or inside a <u>Designer</u> script.

Import/Export (File->Import/Export->Contacts)



This option allows you to import and export the internal contacts database to an external CSV (Comma Separated Value File) file.

The format to be followed for importing from a file is the following:

String<30>	ContactName
String<30>	FirstName
String<30>	LastName
String<20>	VoiceNumber
String<150>	VoiceFileBefore
String<150>	VoiceFileAfter
String<150>	ScriptFile
String<20>	SMSNumber
String<30>	SMSService
String<1>	SMSType
String<20>	FaxNumber
String<150>	FaxCover
String<50>	EMail
String<150>	EMailCover
String<100>	Comment

All fields must be enclosed by ".

A sample of an import file would be

"MAW","Marc ","Wanderer","123456789","C:\voice\voice1.wav","C:\voice\voice2.wav","","+41799999999","(Internet) Clickatell","0","+411234567","C:\cover\faxcover.apf","info@mawnet.com","","" "TLEE","Tom","Lee","","","",","+41799999999","(use default from preferences)","0","","","","","","","","","","

It is highly recommended to first export the database, to add the new entries and then to re/import the file. This will ensure that you place the right information into the right column.

Contacts

Contacts										×
Contact Name	MAW									
First Name	Marc	farc Last Name Wanderer								
Voice Number	123456789					·				
Voice file before	C:\voice\voic	:e1.v	vav							
Voice file after	C:\voice\voic	:e2.v	vav							
Script File before										
SMS Number	+4179999999	9	Se	ervice:	()	nternet) Clicka	tell		⊡	
Graphics/Ringtones	Supported			O No	ot s	upported				
Fax Number	+411234567									
Fax Cover	C:\cover\fax	ove	r.apf							
E-Mail	info@mawnel	.con	n							
E-Mail Cover										
Comment										
	Days		From			То		Link		
Contact Times	Everyday	-	00:00:00)	•	23:59:59	•	SMS		•
	Everyday	-	00:00:00)	•	23:59:59	•	Fax		•
	Everyday	-	00:00:00)	Ŧ	23:59:59	•	Voice		•
	Everyday	-	00:00:00)	Ŧ	23:59:59	•	(None)		-
	Everyday	•	00:00:00)	•	23:59:59	•	(None)		-
Contact Preference	1st		Fax		•					
	2nd	ĺ	Voice		•					
	3rd	j	SMS		•					
						<u>0</u> K		<u>C</u> a	ncel	

Specify here all users who need to receive your messages.

You can define whether the person receives a message by SMS, Fax, E-mail or Voice file. Simply define under the *Contact Times* when the contact can receive which communication type.

If the contact does not use a particular communication type, the associated fields may be empty.

If at the same time two communication types are available, the message is send depending on the contact's *Contact Preference*.

If the message can not be send through the device at 1st preference the 2nd will be used etc.

The advantage of specifying multiple communication links for a contact is that a message may be send using the most appropriate communication link for the time.

It also acts as backup, so that if one link is not available the message will be send through another.

Contact List



Allows creating distribution lists of messages by configuring contacts into contact lists. You can add/delete users from a list by dragging the user name to the desired column.

To change the name of the list, type the new name in the text box at the top. By using the and button you can change the priority in which the message is send to the members of the contact list. If you select the Message behavior *Send to all members* the message is send to all members of the list. If you *select Send to members until first acknowledgment* the message is send to the members following the priority list until a member <u>confirms</u> the reception of the message.

SMS Service Detail

For an Interne	t service	For a dial-up s	service	
SMS Service Detail	? 🛛	SMS Service Detail		? 🛛
Name	(Internet) *Infobiiip (FREE)	Name	AUS, Telstra, TAP	
Access ID/Nbr	mawnet	Access ID/Nbr	125107	
Access Password	sms-it	Access Password	mnmail	
		COM Parameters	2400,E,7,1	
		Connect via modem	V	Number of MSGs 1
	 Internet XID/TAP UCP 		C Internet C XIO/TAP C UCP	
Supports	▼ Flash □ Logo □ Ringtone □ Group Logo □ Picture ▼ WAP Download ▼ Sender ID	Supports	Flash Ringtone Picture Sender ID	│ Logo │ Group Logo │ WAP Download
Comment	Thanks to our partner Infobilip.com 1'000 SMS per day are available for free to the users of INS. This offer is limited in time and allocated on	Comment	Text only	
	<u> </u>			<u>OK</u>

Name:

Identifies your SMS center

<u>For Internet SMSC:</u>	Infobiiip.com Thanks to our partner Infobiiip.com 1'000 SMS per day are available for free to the users of INS. This offer is limited in time and allocated on the basis first-come-first-serve, RESTRICTED TO FIVE SMS PER DAY AND IP. We recommend you therefore to open your own account and buy your credits from Infobiiip.com at rates well below those provided by your mobile operators. Please go to http://www.mawnet.com/setupinfobiiip.html for more information about setting up your account with Infobiiip.
Access ID/Nbr:	UserID as communicated to you by the Internet SMSC For Clickatell please also specify the APP_ID. For more information on this please go to <u>http://www.mawnet.com/setupclickatell.html</u>
Access Password:	Password as communicated to you by the Internet SMSC
For dial-up SMSC:	
Access ID/Nbr:	Access phone number of the SMS center
Access Password:	Password of the SMS center
COM Parameter:	Serial parameters Baud, Parity, DB, SB. IE 1200,e,7,1
Protocol:	Protocol to use, either XIO/TAP or UCP Most of the paging services use XIO/TAP while most of the SMS

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	services use UCP. Please contact your local paging company for more information.
#Msg	Maximum number of messages to be transmitted during one session (As imposed by the SMSC). (0 for no limitation)
Connect via modem	Use a modem to connect to SMS service. (Versus using a local server).

Note: Please contact your local SMS service for more information about the settings for their service.

The *Integrated Notification System* is designed to function with any dial-up service provider supporting either the XIO/TAP or the UCP protocol.

Due to the large number of service providers we do not have the capability to test them all regularly. We can therefore not guarantee that all providers implement their services 100% according to the protocol's specification.

If you find one of the providers that is outdated or yours which is not on the list please let us know!

Fax Viewer (Fax->Viewer)

Utility to display faxes.

Fax converter (Fax->Fax converter)

А Гах со	nverter		×
Create Fa	x File		
Input File	T:\GAMMA.TIF		
Fax File	T:\fax.APF		
Options	Double width Half height		
1	🔽 Center image		
	F High resolution	<u>C</u> lose	C <u>o</u> nvert

Fax conversion utility. To create off-line faxes you may also use the <u>fax printer driver</u> and create them <u>off-line</u>.

Voice Recorder (Voice->Voice Recorder)

Voice File Record	ler	_ 🗆 X						
Voice File	***							
Playback Device	MagicMedia 256AV Playback	•						
Recording Device	Recording Device Enregistrement NeoMagic MagicWa							
Recording Format	8000 Hz 16 bit	*						
Play Volume								
	Close							

Voice File:

Selects the file for playback or recording.

Playback Device:

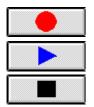
Selects the device to be used for playing voice files.

Recording Device:

Selects the device to be used for recording voice files.

Recording Format:

Selects the format to be used for recording voice files.



Starts the recorder and records to the file selected as voice File

Starts playback of the file selected as Voice File

Stops recording or playback

Voice file formats

Modems using the Unimodem/V Telephony Service Provider (TSP) can only work with PCM 8000 Hz, 16 bit Mono wave files. (PCM 8000 Hz, 16 bit Mono). This format is supported by most of the sound recorders available for the Windows operating system. For the Windows SndRec32 just go to File->Properties to change the format.

If you select a different format *Message Server* will try to convert it internally to the required format, using the installed CODEC. For better sound quality you should however record it in the right format at the beginning.

INS can convert any format for which an associated Windows ACM (Audio Compression Manager) codec is installed on the PC, including PCM, RIFF-MP3, ADPCM, GSM, CCIT A Law and μ Law, True Speech(TM), etc. as long as the

appropriate codec is installed. If you use a voice board and a third party TSP you may use other formats as well.

Tools->Quick Setup

The Quick Setup Wizard leads you through a set of screens, which help you to set up Message Server for the first time. Once set up you can change the settings under the menu item <u>Tools->Preferences</u>.

Tools->Preferences

The Tools->Preferences tab configures all settings for *INS*.

T Preferences		
General Communication Fax (Sending) SMS	Voice	E-mail
MSCS Outside line dial prefix		
Idle time between send attempts (s) 60 Number of attempts 3		
Auto start MsgServer 🔚		
Delete Messages after 5 days Also delete attachments 🗔		
Delete Script Log entries after 5 days		
Delete Error Log entries after 5 days		
Record system log file 🔽 Max log file size 512	kВ	
Designer Image: Comparison of the second s		
Security		
Access password		
Protect access to 🔲 Inbox 👘 Import/Export contacts		
🔽 Outbox 👘 Voice Recorder		
🗖 Failed 🦷 Quick Setup		
Executed Scripts Preferences Contacts Call Simulator		
Contact Lists Mobile Phone		
🗖 Error Log 👘 E-Mail		
SMS Service Start MsgServer Message Folders Session.log		
	<u>0</u> K	<u>C</u> ancel

The following tabs are available for configuration:

General Fax(Sending) Communication Voice E-Mail SMS

General

Idle time between send attempts (s)

Sets the time interval *Message Server* waits before trying to re-send failed messages. When a new message is submitted to the queue, it is send immediately. **NOTE**: Do not set below 60s to allow the destination to become free (IE if busy).

Number of attempts

Number of attempts to send a message. *Message Server* will reschedule the message *Number of attempts* times if it is unable to <u>confirm</u> that the message has been sent.

Outside line dial prefix

Prefix to be added in front of every phone number to get an outside line.

Auto start Message Server

If selected, this option will start <u>Message Server</u> automatically every time Message Center starts.

Record system log file

If selected *Message Server* will keep a log file of all its activities. This option is very helpful for trouble shooting or for confirmation of actions taken by the system. The log is saved to a file called SYSTEM.LOG in the main program directory.

Max log file size xxx kB

Restricts the size of the SYSTEM.LOG. After exceeding this size the current system log is backed up and a new log is created.

Delete Error Log entries after xxx days

Number of days to wait until deleting the old error log entries If you set this value to 0 no error logs are kept.

Delete Script Log entries after xxx days

Number of days to wait until deleting the old script log entries If you set this value to 0 no script logs are kept.

Delete Messages after xxx days

Number of days to wait until deleting the old messages (incoming and sent/failed) If you set this value to 0 no incoming messages and no failed messages are kept. Messages that are not yet sent will still be visible. If a message is used to send a file and the message is deleted, then the file is also deleted unless you unselect the *Also delete attachments* checkbox.

Show readme.txt when opening designer script

This option makes **Designer** to display the file readme.txt when opening a script.

Security

Here you can protect the access to the critical system functions. If you enter a password under *Access password*, this password must be entered the next time the functions(s) checked are called. This password is case sensitive. If you use this function then make sure to always also set the password for *Preferences*, as otherwise a user can change the password.

As the password is stored on the server, this setting will apply for all clients.

Fax (Sending)

T Preferences				
General Communication	Fax (Sending)	SMS	Voice	E-mail
Fax Station ID MAW Header Line \$D \$T Save outgoing faxes in C:\Msg		e Message Server Comm	unication Suite	
Use internal fax engine	C Use E-mail	C Specified	Fax Application	

Use internal fax engine for faxing (Preferred method)

Station ID: You station identification to be transmitted to the remote station

Header Line: Header line to be used when sending a fax. The following replacement characters may be used:

Tag Description

\$D today's date in MM/DD/YY format, always 8 characters
\$I station ID, variable length
\$N total number of pages, variable length
\$P current page number, variable length
\$T current time in HH:MMpm format, always 7 characters

Save outgoing faxes in

Directory to copy the faxes to once they are sent.

Use E-mail for faxing

Uses MsMail for sending faxes (The MsMail Fax service needs to be installed on the post office).

Use Fax application

Defines an external fax application to be started when sending a fax. This application will be called with a command string in the form

AppName FaxNbr CoverSheet Message

FaxNbr is the fax number for the desired contact as specified in <u>Contacts</u>. CoverSheet is the filename of the specified coversheet and Message is a string containing the actual message.

Communication

(See also communication devices)

T i l I	Preferenc	:es										×
	General	Cor	mmunication	Fax (Sendin	ng)	SMS			Voice	1	E-mail	
	Line 1:	Туре	E-MAIL: Incoming E-	Mail		•	<u></u>					
	(Connected to	(POP/SMTP Mail)			-						
			(Internet) Clickatell						Scan ir	nterval: 30	s	
	Active		pop.mawnet.com	_			Por	t pop3			Test	
	Line 2:		may2345	Passw	ord ******	****	<u>1000000000000000000000000000000000000</u>	Del	ete Mail		Test	
		Туре	TIMER			•						
		Coriot	C:\MsgServer\Samp	JoC orieto\ T.	out Covintel ¹	VDCT			Coon in	nterval: 55		
		Script	C. Misgoerver (oant	Jeachptsvi	ext scripts v	vb51	•		Scanir	iterval. [55	S	
	Active										Test	
	Line 3:		VOICE: Incoming Vo	ice/Fax call	ls	-						
	(U.S. Robotics 56K N			-						
250		Script	C:\MsgServer\Samp	oleScripts₩	'oiceScripts'	Voice	. 🔍					
	:		Answer Phone afte	er 2 ri	ing(s)	Wait 0	s	for FAX	signal			_
	✓ Active Line 4:									N.S.	Test	
	LINE 4.	Туре	SMS: Outgoing SMS	through Int	ternet	-						
		SMS central	(Internet) Clickatell			<u> </u>						
	🔽 Active										Test	
					Detect Lin	es						
									<u>0</u> K		<u>C</u> ancel	

Here you can allocate the communication devices (modems, voice boards) connected to your computer to the different line. Each device can only be used once as they may be needed anytime.

Test

Starts a test sequence to confirm the selected device type and its fitness for the selected application.

Detect Lines

Searches for a suitable device, which can be used by Message Server.

Init String

Initialization string to send to the modem every time the modem needs to be reset. This string will be send after the internal init string ATZ. (Ignored if empty)

SMS communication through handset

Select here the port your mobile phone is attached to, either through a cable or an IR

connection. This setting is used when synchronizing the handset SMS inbox with the *INS* inbox and when sending SMS through a direct link. Choose here the virtual modem driver installed for your mobile phone. *This driver should be installed by Windows as soon as you connect the mobile to the computer. Otherwise choose the option "detect new hardware" in the Windows control panel.* If you do not install a modem driver you may alternatively select a COM port directly. If you set this value to (None) you will be unable to import anything from the mobile or to send a SMS through the mobile phone.

The default speed for most mobile phones is 9600 Bds, but there are some that require 19200 Bds. If your mobile phone does not seem to work with 9600 Bds you may need to change this value.

Scan interval:

Time interval to scan the inbox (SMS or E-mail) for new messages or to trigger the Timer.

E-Mail

Select here the profile to use for sending/receiving e-mails. If you use MS Exchange (IE Outlook) select your profile name from the list. If you use another MAPI compliant application (IE Netscape, Outlook express, etc) select *(MAPI enabled)*. (To use Netscape you need to enable its MAPI setting under Edit->Preferences->Mail&Newgroups).

To retrieve the messages of your POP3 mailbox select (*POP / SMTP Mail*) and enter the appropriate settings.

This setting is used when synchronizing your E-mail box inbox with the *INS* inbox and for sending E-mails.

Script

Pressing the Button will open <u>Designer</u> and allows you to modify the script.

Answer phone after xxx rings

Selects the number of rings before answering the phone. For <u>Caller ID</u> display you should leave this value at least at two as the caller information is transmitted between the first and second ring.

Wait xxx (s) for FAX signal

Sets the number seconds to wait for the detection of a fax signal. The fax signal is defined by 700ms of a high pitch and 3000ms of silence. For *INS* to be able to detect at least one full period before starting the script you need to set this value to around 4-8s.

SMS

SMS	Voice	E-mail
•		

Sender ID

Your own mobile phone number that will be sent as Sender ID (if supported by the SMSC, not used for XIO SMSC)

Mobile phone character set

Character set to use when communication with the mobile phone

Voice

Preferences			
General Communication	Fax (Sending) SMS	Voice	E-mail
Voice			
Allow key ahead 🔽	Play Beep after messages		
Confirm Message Key 🗍	Speak only CAP characters	Γ	
Voice File Directory Assorted			
Silence detection level 90			
Play Volume			
Record Volum	ie /		
Voice recording format 8000 Hz 16 bit		•	
(Do not change this value u	nless advised my MAW Consulting)		

Allow Key Ahead

Enable/Disable keying ahead of DTMF signals (Keys pressed on the phone pad)

Confirm Message Key

When sending a message as voice file the user presses this key to <u>confirm</u> the message.

Silence detection level

Level underneath which the audio level is considered as silence.

Voice File Directory

Directory where all assorted voice files are kept If you do not specify a drive, the path is taken starting from the application directory. IE Assorted\WAV becomes C:\INS\Assorted\WAV

Play Beep after messages

Play a beep after sending a message as voice file

Speak only CAP characters

If the voice file message consist of a chain of characters speak only the uppercase characters

Voice recording format

Allows you to change the recording format of the voice files. *Do not change this value unless advised my MAW Consulting.* (See also Voice file formats)

E-mail

Preferences	
General Communication Fax (Sending) SMS	Voice E-mail
MAPI Export Voice Mail/Fax General	
Mail sending subject Message from MSCS External Mail Reader C:\Program Files\Microsoft Exchange\Exchng32.exe	

Export Voice Mail/ Fax

When this option is selected *Message Server* will copy all incoming messages (Voice mails and faxes) to your MAPI enabled e-mail application (Exchange, Outlook express, Netscape, etc). This allows you to listen to your voice mail from within your e-mail application. The voice mails are stored as attachment in the *Inbox* (for MSMail) or *Draft folder* (for Netscape).

External Mail Reader

External mail reader to use to display e-mail messages. (IE Exchange32, Outlook, Netscape, etc)

Mail sending subject

The subject to use when sending e-mails

Tools->Call Simulator

N Call	and and a second second	r ID to 3733-9		nit:		^
	1	2	3	A	Djel	
	4	5	6	В	Hangup	
	7	8	9	C		
	×	0	#	D	Cancel	
Playb		/ice M			AV Playback Wave Recorder	•
Status:						_
Sending: Sending: Running	RING 2		Server	\SampleS	cripts\VoiceMail\VoiceMail.vsc	A
31						×

The Call Simulator gives you the option to simulate an incoming call. This is very useful if you want to test your voice scripts. When <u>Message Server</u> is running you can click on Dial which will simulate a ring sequence. Once the communication device has answered the call you can listen to the voice prompts and simulate the keys pressed by a caller. When you select Hangup the connection is interrupted, similar as if a caller hangs up.

You can select the line to test by changing the "Testing Line" combo box; here you find all enabled incoming lines listed.

The simulator can only be used to test voice scripts. Text scripts should be tested "on-line"



General

Designer is an easy to use graphical interface, which allows you to create powerful scripts. Those scripts are then executed by the <u>Message Server</u> application. Fax-on-demand, Voice Mail and Automated Information Services are only a few of the possibilities that can be designed.

Designer will create two types of scripts, voice and text.

Voice scripts are used to create interactive phone applications (Also called Interactive Voice Response IVR Systems), where the caller uses the phone keypad to enter values and navigates through a script. Fax-on-demand, Voice Mail and Automated Information Services are only a few of the possibilities that can be designed with voice scripts.

Text scripts are used to create scripts that react on incoming messages or are timer dependent. The message (SMS or E-mail) is queried for the specified values and format and then you can react on its contents. SMS/Email forwarding, SMS/Email autoreply, SMS on demand, etc, may be designed within minutes.

Instruction Flow

When executing a script the first cell is always the Start Cell. This is the only cell with a red caption. From then on the flow of instructions depends on the script. By double clicking on a cell the detail screen opens and the behavior of the cell can be configured. In the Targets section of the cell the Trigger defines the caller action (IE when the caller presses a key on the phone pad) that leads to a next Target, which is the next cell to be executed.

Cells

Double clicking on the cell icon opens a window that highlights the settings for this particular cell. The settings and values depend on the <u>function</u> of the cell.

🐜 Cell 3	×	
Neme	Gel D	<=Cell title, used to identify cell
yox	Go: Number	<=Cell type, defines behaviour of cell
Des újtin	Plays PlsEnter voice file. Then the user has 10 seconds to enter 4 numbers. After the voice file YouEnter the entered rumpers are read back and the user can confirm them	<=Description, free comment
You entered	er <mark>EXMagScrupp/Misinter/H4</mark> C. WixyServer WouFrite, E4 U:WiegServerVislicheret H4 E Beepteller promp Continue round en 4 10	<=Voice file(s) <i>Dbl click to select or enter</i> <u>Result Variable</u> <=Options <=Parameters
l argets: Tiqqar 1 SJCCESS 2 FAL	Torqel iChook D liet ID	<=Targets, next steps Some of the cells have only SUCCESS/FAIL as trigger option, some only NEXT.
0<	Cancel	Double click on trigger or target to change

Functional Cells

The following functional cells are available:

- (1) Used in voice scripts (*.vsc)
- (2) Used in SMS, E-mail or Timer scripts (*.tsc)

(1) <u>Play Message</u>

- (1) <u>Hang-up</u>
- (1) <u>Get Number</u>
- (1) Speak String
- (1)(2) Run Program
- (1) Run Script
- (1)(2) Run VBS code
- (1)(2) HTTP call
- (1)(2) Send DDE Command
- (1) <u>Record Message</u>
- (1)(2) Result Variable Switch
- (1) <u>Transfer Call</u>
- (1)(2) Send Message
- (1) Voice Mail
- (1) Voice Mail Admin
- (1) <u>Fax-On-Demand</u>
- (1) Send DTMF String
- (1)(2) String contains substring
- (1)(2) String left chars
- (1)(2) String right chars
- (1)(2) String left until
- (1)(2) String right from
- (1)(2) String between two strings
- (1)(2) Replace string
- (1)(2) Load from File
- (1)(2) Save to File
- (1)(2) Calculator
- (1)(2) Set System Variables
- (2) <u>Exit</u>

Play Message

-	Cell 1			×	
Na	ime:	Welcome			
Ту	pe:	Play Message			
De	scription:	Plays the welcome message followed by a beep and waits for the 1 key. After 10 seconds the timeout path is taken.			
Void	ce file :	C:\MsgServer\Welcome.R4			
Tai	☑ Beep at end of module				
	Trigger		Target		
1	1		Get ID		
2	TimeOut=10)	End		
3					
4				<u> </u>	
	OK		Car	ncel	

The Play Message cell plays a single voice file and waits for the caller to press a phone key. This trigger is then used to select the next target in the script. The timeout value defines the number of seconds to wait until the *TimeOut* path is taken.

This cell always requires a TimeOut trigger to be defined.

In this example the caller may press the "1" key which leads to the *GetID* cell or wait 10s and go to the *End* cell.

If *Beep at end of module* is selected the caller will hear a beep at the end of the announcement.

Keys allowed : Defined by Trigger

Result Variable :

Key pressed by caller

Hang-up

Name: Type: Description:	End Hang-up Plays the good-bye message, puts the phone off-hook and terminates the script.	Plays a last voice file, puts the phone off-hook and terminates the script. This cell should always be the last cell in a voice script.
Voice file :	C:\MsgServer\GoodBye.R4	If <i>Beep at end of module</i> is selected the caller will hear a beep at the end of the announcement.
<u></u> ОК	Cancel	(No key entry) Result Variable : None

Get Number

4	Cell 3	×				
Na	ime:	Get ID				
Ty	pe:	Get Number				
De	scription:	Plays PIsEnter voice file. Then the user has 10 seconds to enter 4 numbers. After the voice file YouEnter the entered numbers are read back and the user can confirm them.				
You	Pls enter number C:\ <u>MsgServer\PlsEnter.R4</u> You entered C:\MsgServer\YouEnter.R4 is this correct C:\MsgServer\IsCorrect.R4					
		E Beep after prompt Confirm number				
Inp	out limit:	4				
Tin	neout [s]:	10				
Tai	rgets:					
	Trigger	Target				
1	SUCCESS	Check ID				
2	FAIL	Get ID				
	OK	Cancel				

Plays the first voice file. Then the caller has <code>Timeout[s]</code> seconds to enter <code>Input limit</code> numbers. S/he can enter less than the required digits by pressing "#" to end.

If Confirm number is not selected the SUCCESS path is taken immediately after the numbers are entered. If not all numbers are entered within the Timeout[s] seconds the FAIL path is taken.

If Confirm number is selected the second voice file is played and the entered number is read back, followed by the third voice file. The caller can confirm the number by pressing 1 to select the SUCCESS path. If the caller presses 2 the FAIL path is taken. (May be used to re-enter number)

Keys allowed : "1234567890*#" "12" (in confirm number)

<u>Result Variable</u>: Number entered by caller

Speak String

À Cell 4		×
Name:		Speak PW
Туре:		Speak String
Descriptio	n:	Plays the voice file TheInfo. Then it reads back the string created as result variable of the cell Check ID.It does not play the second file or wait for a key but goes straight to the
Voice file b Voice file a		C:\MsgServer\TheInfo.R4
String to s	ay:	● Use internal engine
Targets:		T
Trigge		Target 🔺
2		
3 4		
	OK	Cancel

Plays the *Voice File Before*. Then reads back a given string.

If the words in the string are prerecorded, the actual voice files are played. =>Voice Engine Alternatively you may select to use the Microsoft <u>TTS Engine</u>. The TTS Engine will however require quite some time to convert the text into voice as this is done in one go. Hence you may need to split the text into several parts and use several *Speak String* cells. This will create several small delays instead of one large.

Then it plays the Voice file after.

In this example it reads back the string created as <u>Result Variable</u> of the cell Check ID.

Setting the TimeOut value to zero allows continuing straight to the *End* cell without waiting for the caller to press a key.

Keys allowed : Defined by Trigger

Result Variable : Key pressed by caller

Run Program

ሕ Cell 5		×
Name:	Check ID	
Туре:	Run Program	
Description:	Executes the external application TestID and passes the result variable from the cell G et ID as parameter. If successful Speak PW is the next cell, if not End is selecter	d. 💌
	☑ Wait until completed	
Application:	C:\MsgServer\TestID.EXE \$RV[Get ID]	6
· · · · · · · · · · · · · · · · · · ·		
Targets:		
Targets:	Target	
Targets:		

Executes an external application.

In this example it calls the external application TestID and passes the result variable from the cell Get ID as parameter. If successful *Speak PW* is the next cell, if not the *End* cell is selected.

FAIL/SUCCESS is decided like follows:

The external application needs to create a two line text file RESULTX.TXT (*x* for the incoming line ID. IE for the first incoming line RESULT1.TXT, for the second incoming line RESULT2.TXT, etc), where the first line is either the string FAIL or SUCCESS, indicating failure or success. The second line can contain a string, which is used as result variable for this cell. The file needs to be created in the MsgServer directory. For text scripts (SMS/E-

mail/Timer) the name of the file is simply RESULT. TXT.

Keys allowed : (No key entry)

Result Variable :

2nd line returned by RESULTX.TXT

Note:

Message Server does NOT delete the result file. If the *Wait Until completed* option is unchecked *Message Server* will not wait for the application to complete (and update the result file), but read the previously created file (if existing). If there is no result file, the script will execute the FAIL path.

Run Script

Rame: Type: Description:	Call Script Run Script Exits the existing script, loads a new script and starts executing it at the Start cell. Warning: All result variables of the old script are lost	×	Terminates the existing voice script, loads a new voice script and starts executing it at the cell specified in the <i>Next Module</i> parameter. Warning : All result variables of the old script are lost. The left example would call a new
Run Script: Next Module:	C:\MsgServer\script2.vsc Start	D	script Script2 and start it at cell Start.
			Keys allowed : (No key entry)
OK	Cancel		<u>Result Variable</u> : None

Run VBS code

🎦 Cell1			? ×
Name	SaveInfo		
Туре	Run VBS code		•
Description	Uses VBS to call	a message box	
	Vait until com	pleted	
Visual Basic Code	RV		
if "\$RV[@DATE] MsgBox "Hap end if	"="2002-12- py" & chr(1	-16" then 13) & "Birthday"	×
<u> </u>			Þ
Targets			
Value		Target	
1 SUCCESS		Exit	
2 FAIL		Error	
Cancel			OK

This cell launches a specified VBS (Visual Basic Script) code. The code entered in this cell is saved in a file into the same directory as the script, in the form VBSx.txt (x is the sequential number of the cell). Once this file is created by Designer you may also edit it with a standard text editor and make the desired changes. During a script, before the code is started, all Result Variables are evaluated and replaced by their current values, then the file is saved as ~VBSx y.vbs (y for the incoming line ID, for text scripts the name of the file is *simply* ~*VBSx.vbs*) and the Windows script engine (wscript.exe) is called.

You may use the final vbs code for debugging purpose, but must remember that it will be overwritten the next time the script runs.

If you exit your VBS code with the instruction

WScript.Quit (*param*) you may return a value back to the script. All negative values returned will take the FAIL path, zero and all positive values (or no value) will take the SUCCESS path. If the "Wait until competed" check box is not set the SUCCESS path will be taken and the value returned is "0".

Keys allowed : (No key entry)

Result Variable :

Parameter returned by WScript.Quit(param) if any.

HTTP Call

10 C-114			This cell allows you to
😫 Cell1			GET the contents of a
Name	GetSharePrice		web page or to POST
Туре	HTTP Call	-	data to a web site.
Description	Retrieves current share price for MSFT from the g	yahoo web site.	If the web site does not exist or another error occurs, the FAIL path is
			taken, otherwise the SUCCESS path becomes active.
URL	Get Data Post Data RV finance.yahoo.com/q?s=msft&d=e		The web page returned is the raw HTML data.
Targets			The URL does not need the leading http:// . Just directly enter the address of the web page, IE
Value	Target		www.mawnet.com/order.h
1 SUCCESS 2 FAIL	VerifyPrice FailPrice		tml
			Keys allowed : (No key entry)
Cancel		OK	Result Variable :
			Contents (raw HTML text) of the web site returned

Send DDE command

🗞 Cell 6 👘		×	
Name:	Get DDE Value Send DDE Command		
Туре:			
Description:	Establishes a DDE connection with Excel and reads R1C1. This value becomes the result variable of this cell. If successful the next cell is Speak Value, otherwise Error DDE		
	C Execute Command C Send Data C Get Data		
Topic:	← Execute Command ← Send Data ← Get Data Excel Sheet1		
Topic: Item:			
	Excel Sheet1		
ltem:	Excel Sheet1		
ltem:	Excel Sheet1		
ltem: Fargets:	Excel Sheet1 R1C1 Target		

Establishes a <u>DDE</u> connection with an external application.

In the left example the script starts a DDE session with Excel and reads R1C1 (=A1). This value becomes the result variable of this cell. If the DDE transaction is successful the next cell becomes *Speak Value*, otherwise *Error DDE*.

Note: The external application (IE Excel or MsAccess) needs to be running during the execution of the script.

Keys allowed : (No key entry)

Result Variable :

If action is Get Data the value received by the DDE server, otherwise none.

Record Message

	Name Record Mag		
	Type Record Mess	age	
	unti the caller	file and then starts repurcing. The repu presses a key or the message length of value of the key (if any) is returned as	exceed: the
	Voice file <mark>Li \MsgServe</mark>	nPlsSpeak.wav	
	 	id of module	برجي .
	 ⊟ Beaµa.er Fecoided Fie C\MsgServer		<u>رو</u>
any 1	Fecoided Fie C \MsgServer gets Tricger 0123453783#*	VRecurded_\$RV[ID].wAV Target End	
1	Fecoided Fie CMSyServer gets Tricqer	VRecurded_\$RV[ID].wAY	
1	Fecoided Fie C \MsgServer gets Tricger 0123453783#*	VRecurded_\$RV[ID].wAV Target End	<u>و</u>

Plays a voice file and then records to a file. The recording continues until the caller presses a key defined as trigger. Depending on the key pressed the *Trigger* selects the next *Target*. If a *Timeout* value is defined the recording will also stop at the end of this period and the *Timeout Target* is selected.

In this example the filename of the recorded file is made up of a string "C:\INS\Recorded_" and a <u>result</u> <u>variable</u>, followed again by a string ".WAV" So if the <u>result variable</u> is "123" the resulting filename would become

"C:\INS\Recorded 123.WAV"

Keys allowed : Defined by Trigger

Result Variable : Key pressed by caller

Result Variable Switch

😭 Cell1	Name Check CID Type Result Variable Switc Description Check the Caller ID to not proceed to the ar	o see if the Caller is one of the VI	× ▼ 4B owners. If	Selects a route depending on the <u>Result Variable</u> . If the result variable does not correspond to any of the triggers the timeout value is taken.
Res	ult Variable <u>RV</u> \$RV[@CID]			In this example the cell checks the Caler ID of the current caller and chooses the next cell accordingly. See below for notes on <u>Conditions</u> .
Targets	:			
Ca	and Value	Target	<u>^</u>	
1 =	0401963457	USER1_VMB		Keys allowed :
2 =	0401945307	USER2_VMB		(No key entry)
3 =	0411943410	USER3_VMB		(NO Key entry)
4 =	Timeout=0	Announcement	-	
C	ancel		ок	Result Variable : None

Conditions

The condition field decides how the comparison between the Result Variable and the Value is done. The conditions are tested in sequence until the first matching value. **All comparisons are string comparisons, therefore a<b, 100 <20 and 100>020**.

The following condition can be selected:

== EQUAL = PART OF <> NOT EQUAL > GREATER >= GREATER OR EQUAL < SMALLER <= SMALLER OR EQUAL

Note

- == (EQUAL) is a strict comparison
- PART OF) is also valid if the Result Variable is a sub string of the Value.
 IE if the Result Variable = "1" the condition would be true for value = "1234"

Transfer Call

Ce		Back To Operator	This cell allows a call to be transferred to another number	er.
		Transfer Call Transfers call back to operator	For this option you need a TA compliant phone system, star modems do not support this	
	Phone Number	RV 9	(For transferring calls on mod please refer to <u>Send DTMF S</u>	
	gets Value SUCCESS	Target	Keys allowed : (No key entry)	
2	FAIL	Error	OK Result Variable : Phone Number	

Send Message

	Name Se	nd Logo			
	Type Se	nd Message			
	Description Se	nds the selecte	d logo to the caller.		
		\$RV[@Script]			1
				1	
	Send Type RV Operator	Operator Logo		1	
arg	Send Type RV	Operator Logo	o SMS 👱]]	
arg	Send Type RV Operator gets Value	Operator Logo	o SMS 👱]	
ar <u>c</u>	Send Type RV Operator gets	Operator Logo	o SMS 👱]	
ar <u>c</u>	Send Type RV Operator gets Value	Operator Logo	o SMS 👱 💌 Swisscom NATEL 💌		
ar <u>c</u>	Send Type RV Operator gets Value	Operator Logo	o SMS 👱 💌 Swisscom NATEL 💌		

Sends a message to a user. The recipient needs to be defined in the *Message Center* database as <u>contact</u>, or the number needs to be preceded with a valid keyword. See <u>under direct sending</u>.

If you select (User default) as Send Type, depending on the capacity of the communication device specified for the contact the message will be <u>adapted</u>, IE a valid voice file path may be send as voice file to a phone rather than character by character. (See Voice and Fax/E-mail messages)

Keys allowed : (No key entry)

Result Variable : None

Voice Mail

Cell1		_	
Narre	VoiceMail		
Туре	Vhice Mail		•
Description	Plays a voice file a the caller presses voice file is played	and waits for the caller to leave a message. If a key or the Max Hecord lime elapses the seo d.	ord
	L:\MsqServer\Pls	Speak.r4	F
Thank you		li l	简
	1	-	<u></u>
Admin ID	User\$RV[GetID]		-
Mak record lime[s]	30		-
argets			
Tricger		Target	
1 Next		End	
1	1		
Cancel		OK.	

Allows setting up a voice mailbox. Plays the first voice file, then waits for the caller to leave a message. The recording continues until the caller presses a key or the message length exceeds the *Max Record Time[s]* value. Then the second voice file is played.

In the left example the ID of the owner of the VMB is made up of a string "User" and a <u>result variable</u>. So if the result variable is "123" the resulting Admin ID is "User123".

The Admin ID is used to identify the owner of the mailbox in the cell <u>Voice Mail Admin</u>.

Keys allowed : (No key entry)

Result Variable :

Filename of recorded voice message

Voice Mail Admin

4	Cell 6	×
N	ame:	Admin Voice Mail
Ts	vpe:	Voice Mail Admin 💌
D	escription:	If the owner of this VMB has mail the second voice file with the instructions is played, followed by the recorded voice messages. If there is no mail the first file is played.
Pre	mail ess 1 for ank you	C:\MsgServer\NoMail.R4 C:\MsgServer\Instruction.R4 C:\MsgServer\ThankYou.R4
A	dmin ID:	User\$RV[Get ID]
Ta	rgets:	
	Trigger	Target
1	Next	End
_	ок	Cancel

Accesses voicemail left by a caller in a <u>Voice Mail</u> cell.

If the owner of the VMB (Admin ID) has mail, the second voice file with the instructions is played, followed by the recorded voice messages. If all files were accessed the third file is played. If there is no mail the first file is played.

In this example the ID of the owner of the VMB is made up of a string "User" and a result variable. So if the result variable is "123" the resulting Admin ID is "User123".

The instructions are as follows:

- 1 Listen to next message
- 4 Delete current message 6 Re-listen current message
- 6 Re-listen 9 Exit

Keys allowed : "1469"

Result Variable : None

You can also use <u>Message Center</u> to access your voice mail

Fax-On-Demand

iế Co	ell2				X
	Name	Dccurrent1			
	Туре	Fax-Or-Demand		<u>-</u>]
	Description	Sends the 1s: cocumer	n: (lf selected)		-
	You en:eied.	\$ <mark>FV'@ScrptDir]\Enter</mark> \$FV'@ScrptDir]\YouE \$FV'@ScrptDir]\\sDor	ntered.wav		
		Beep after prompt C:\DOCUMENT1.APF	⊽ Corfim	numper	
Tai	gets		- .		
1	Trigger Next		Target Hancup		

This cell asks the caller to enter a fax number, followed by the # key. The caller then has 60s to enter his/her fax number.

If Confirm number is selected the second voice file is played and the entered number is read back, followed by the third voice file. The caller can confirm the number by pressing 1 or press 2 to re-enter the number.

Then the facsimile message specified in *Fax file to send* is queued to be sent to the entered fax number as soon as the script ends.

Valid fax files are: APF - Fax files BMP - Windows Bitmap DCX - Multi page PCX PCX - PC Paintbrush TIF - Tagged Image File TXT - ASCII text file

Keys allowed : "1234567890#*"

Result Variable : Number entered

Send DTMF String

	113		×	This ce
	Name SendSour	nd		back to
	Type Send DTM	٨F	•	
	Description Plays bac	k a DTMF string to the caller		
	DTMF String RV 1234	567890°#		
	_			
ar	gets			
an	gets Value	Target		Keys a
an	gets			Keys a (No key

The Generate Digits method is intended for end-to-end signaling over an established call, it may be used to navigate through automated call center menus etc., but may also be used to transfer an existing call (of course the telephone switch must support call transfer by this method). e.g. Call Send DTMF String with the DTMF parameter set to "!101" to flash the hookswitch and dial extension 101, then call the HangUp cell to effect the transfer.

Valid characters for the Digits parameter are '0' through '9', 'A', 'B', 'C', 'D', '*', '#', ';' and ',' (comma). A comma injects an extra delay between the signaling of the previous and next digits it separates. The duration of this pause is configuration defined, the telephony device settings dictate what this duration is. Multiple commas may be used to inject longer pauses. The exclamation character '!' is a valid character in the string causing a "hookflash" operation, that is, one-half second on hook, followed by one-half second off-hook before continuing. Other dial modifiers may also be accepted (W @ etc), consult the telephony device documentation for details.

This cell plays a DTMF string back to the caller.

Keys allowed : (No key entry)

Result Variable : DTMF String

String contains substring

📓 Ce	ell'1		E	This cell searches for the
	Name	Test Originator		presence of one string within
	Туре	String contains substring	1	another.
	Description	Searches for the presence of	one string within another.	IE Text = MAW Consulting Substring = maw Return = SUCCESS
Tar		RV \$RV[@ORIGINATOR] RV MAW		
E	Value	Target		
1	SUCCESS			
2	FAIL	Exit		
	Cancel]	ОК	<u>Result Variable</u> : None

String left chars

Market Cell1		Returns a string containing	а
Name	Get ID	specified number of charac	
Туре	String left chars	from the left side of a string	
Description	Returns a string containing a specified number of char left side of a string	IE Text = MAW Consulting Nbr of chars = 3 Return = MAW	
Text Nbr of chars	RV \$RV[@ORIGINATOR] RV 12		
Targets			
Value 1 Next	Target Line 1		
Cancel		Result Variable : String found	

String right chars

😭 Cell1		×	Returns a string containing a
Name	Get ID		specified number of characters
Туре	String right chars	×	from the left side of a string.
Description	Returns a string containing a specified numbe right side of a string	r of characters from the	IE Text = MAW Consulting Nbr of chars = 3 Return = ing
Text Nbr of chars	RV \$RV[@ORIGINATOR] RV 12		
Targets			
Value 1 Next	Target Line 1		
Cancel]	ОК	Result Variable : String found

String left until

Marcell1		×	Returns a string from the left side of
Name	Get ID		a string until the first occurrence of
Туре	String left until	•	another string/character.
Description	Returns a string from the left side of a string until the first occurrence of another string/character.	100	IE Text = MAW Consulting
			Until string = \$RV[@SPACE] Return = MAW
Text	RV \$RV[Line]		
Until string	RV \$RV[@CR]		
Targets			
Value	Target]	
1 Next	Line 1		
			Result Variable :
Cancel	ОК		String found

String right from

Market Cell1		×	Returns a string from the right side
Name	Get ID		of a string from the first
Туре	String left until	٠	occurrence of another string/character on.
Description	Returns a string from the left side of a string until the first occurren of another string/character.	ice	IE Text = MAW Consulting From string = \$RV[@SPACE]
			Return = Consulting
Text	RV \$RV[Line]	1	
Until string	RV \$RV[@CR]		
	—		
Targets			
Value	Target	7	
1 Next	Line 1		
Cancel	ОК		Result Variable :
		_	String found

String between two strings

😭 Cell1		×	Returns a string located between
Name	Get ID		two other strings/characters.
Туре	String between two strings	•	
Description	Returns a string located between two other strings/characters.		IE Text = MAW Consulting From string = \$RV[@SPACE] Until string = ing Return = Consult
	RV \$RV[Line]		
	RV COMMAND=	_	
Until string	RV \$RV(@CR)		
Targets			
Value	Target		
1 Next	Line 1		
			Result Variable :
Cancel	OK		String found

Replace string

🔓 Cell2		Replaces all occurrences of a
Name	Filter CR	substring inside a text, with
Туре	Replace string	another string.
Description	Replaces all end of line characters with a s	IE Text = The dog barks Replace string = dog
		by string = cat Return = The cat barks
Text	RV \$RV[@MESSAGE]	
Replace string	RV \$RV[@CR]	
with string	RV \$RV[@SPACE]	This function is quite useful for
Targets		filtering characters that disturb
Value	Target	and replace them. IE filtering ", etc
1 Next	Filter LF	
Cancel		οκ Result Variable : Filtered string

Load From File

Cell1		X	
Name Load Result			contents into the Result
Type Load from fi	ie::	×	Variable
Description Loads the re	ssult file		
4 1 =			
File to load RVC Res	ultid	6	1
Targets			
Value	Taraet		
1 SUCCESS	Treat Result		
2 FAIL	Error		
10			Result Variable :

Save To File

Ce Ce	ell1		×	Creates a text file and writes to it. If
	Name Save Res	ult		the file is successfully written the
	Type Save to fil	e	•	SUCCESS path is taken and the
	Description Writes the	result file		Result Variable holds the filename. If the file cannot be written the FAIL path is taken and the Result Variable holds an empty string.
	File to save RV C:\Re Text RV OK 12	esult.txt 23	<u></u>	
Tai	gels			
	Value	Target		
1	SUCCESS	Line 1		
2	FAIL	Exit		
	Cancel		OK	Result Variable : Filename or empty string

Calculator

Cell1		×	Calculates the value of an
Name	Calc		expression and returns the result
Туре	Calculator	×	as Result Variable.
Description	Calculates the value of the expression and sa Variable.	ves it in its Result	Valid functions are
			+ - * / ^
Expression	RV sin(1)*cos(1) - 2*3.14		ABS, ACOS, ASIN, ATAN, COSH, COS, EXP, LOG10, LOG, POW10, ROUND, SINH, SIN, SQRT, SQR, TANH, TAN, TRUNC
Targets			You can also use () to combine multiple operations. IE
Value	Target		cos(sin(1))
1 Next	GetNext		
Cancel	1	ок 1	Result Variable
Cancel		10	Result of the calculation

Set System Variable

😫 Cell3		? X	FOR INTERNAL USE ONLY.
Name	SetSystem		
Туре	Set System Value	•	This allows the MAW engineers to change some of the system
Description	Sets value of SMS originator		variables through the script.
	J		Please do not use directly.
System value	RV SMSORIG		
Set to value	RV 079777777		
	_		
_			
Targets			
Value	Target		
1 SUCCESS	Reply		
2 FAIL	Reply		
Cancel		ОК	

Exit

😭 Cell1		×	Terminates a text script
Name	End		
Туре	Exit	×	
Description	Terminates the script.		
Cancel		0K	<u>Result Variable</u> : None

Result Variables

Result variables are a powerful tool of Designer. Each cell stores a result variable that then can be accessed by other cells. To access a result variable use the format \$RV[*CellName*].

IE if a caller presses "1" in the <u>Play Message</u> cell "Welcome" this value can be referenced through \$RV[Welcome]. You can even append result variables to strings. A reference to User\$RV[Welcome]VMB would be treated as User1VMB. Similar for the text script cells.

If you evaluate a text string with the *String left chars* cell "TestPW", you can reference the result of the evaluation through \$RV[TestPW].

Predefined result variables are

(1) Available in voice scripts (*.vsc)

(2) Available in SMS scripts (*.tsc)

(3) Available in E-mail scripts (*.tsc)

(4) Available in Timer activated scripts (*.tsc)

(1)(2)(3)(4) (1)(2)(3)(4)	\$RV[@CID] \$RV[@CIDNAME] \$RV[@LID] \$RV[@DATE] \$RV[@DATE] \$RV[@DAYOFWEEK] \$RV[@SCRIPTTIME]	Caller ID number string (if supported) Caller ID name string (if supported) Incoming line ID Current Date in format "yyyy-mm-dd" IE 2003-12-24 Current Time in format " <i>hhhmmmsss</i> " IE 23h55m21s Day of the week, IE "MONDAY"
(1)(2)(3)(4)(1)(2)(3)(4)(1)(2)(3)(4)(2)(3)(2)(3)(3)	<pre>\$RV[@AppDir] \$RV[@CR] \$RV[@CR] \$RV[@LF] \$RV[@MESSAGE] \$RV[@ORIGINATOR] \$RV[@ORIGINATOR] \$RV[@RECIPIENT] \$RV[@SPACE] (3) \$RV[@SUBJECT]</pre>	Time in seconds elapsed since start of script (Three zero-padded characters, IE 023 means 23 seconds elapsed) Application Directory, IE C:\INS Current Script Directory, IE C:\INS\SampleScripts Carriage Return (end of line sign ASCII 13) Line feed (new line sign ASCII 10) Message body (Email or SMS text) SMS ID (+41798888) or E-Mail originator (info@aol.com) Email recipient of message SPACE " "sign (ASCII 32) Email subject

The use of \$RV[@ScriptDir] is recommended as path statement for all voice file names as it allows to copy the script to any other directory without the need for redefining the voice file location.

IE \$RV[@ScriptDir]\welcome.wav

If you select a voice file in the same directory than the script file, it's path is automatically replaced with \$RV[@ScriptDir].



SendMsg.exe

General

The Send Message utility is a simple command line application that allows submitting messages to <u>Message Server</u> without using <u>Message Center</u>.

Command Line Parameter

The format is

SendMsg TimeToSend[yyyymmddhhnnss] Type[E-MAIL¦FAX¦VOICE¦PALPHA¦PNUM¦PTO¦SMST¦SMSF¦SMSR¦SMSP|SMSOL¦SMSGL|SMSW|SCENAR IO¦DEFAULT] Recipient {SMSOL:Operator} Message¦File

IΕ

SendMsg.exe 20000101000000 VOICE MAW "Happy New Year"

will send a message on January 1st, 2000 at 0:00:00 h by Voice to the contact MAW with the contents "Happy New Year". (See also <u>file sending</u>)

Messages to <u>Contact lists</u> can be sent by adding a ">" in front of the list name.

IE
SendMsg.exe 19991609231000 DEFAULT >EMLIST "Fire in CR"

will send a message on September 16th, 1999 at 23:10:00 to all contacts on list EMLIST with the contents "Fire in CR2".

To send a message immediately without indicating the date/time, use NOW as TimeToSend value:

IE
SendMsg.exe NOW DEFAULT MAW "Hello world"

Depending on the available communication channels configured for each contact, the messages will be <u>adapted</u>.

Text in files

You can send texts that are located in a file by specifying the filename as message.

IΕ

SendMsg.exe NOW SMST [SMS:0123456789] "ForJohn.txt"

In this example ForJohn.txt would be a text file containing the message to be send. It is your responsibility to make sure, that the message is not longer than 160 characters, otherwise it will not be accepted by the SMS central.

SMS Ringtones

Ringtones can be sent directly as text

```
IE
SendMsg.exe NOW SMSR [SMS:0123456789] "
StarTrek:d=4,o=5,b=80:8g,16c6,f6,16e6,16c6,16a,16d6,8g6"
```

or in a file

IE
SendMsg.exe NOW SMSR [SMS:0123456789] "StarTrek.txt"

In this example *StarTrek.txt* would be a file containing the ringtone codes.

SMS Logos

The *Operator* parameter is only used when sending a message as SMS Operator Logo (SMSOL), here you need to specify the name of the operator of which you want to change the logo.

Valid operator names (IE "Switzerland - Swisscom NATEL") can be found in MsgCenter, when sending a message using the SMS link.

ΙE

```
SendMsg.exe 20010101000000 SMSOL [SMS:0123456789] "Switzerland - Swisscom
NATEL" "c:\logo.gif"
```

Types

The different link types are defined as follows:

E-MAIL	E-Mail
FAX	Fax
VOICE	Voice
SMST	Text SMS
SMSF	Flash SMS
SMSR	Ringtone SMS
SMSP	Picture SMS
SMSOL	Operator Logo SMS
SMSGL	Group Logo SMS
SMSW	WAP push
SCENARIO	Message Scenario
DEFAULT	User default

Direct sending

Instead of specifying a <u>contact</u> you can send a message directly to a number. To do so, use the following syntax instead of the contact name:

[E-MAIL:info@mawnet.com] [FAX:0123456789] [VOICE:0123456789] [SMS:0123456789]

When sending directly to a number the cover pages are omitted. For SMS messages the central used is the one specified as default central in the preferences.



General

Check-It is a utility that scans through <u>DDE</u> values in other applications. If you use *INS* as alarm server you may not always be able to define alarms in the application that actually measures the values. (IE SCADA applications). In this case you may define alarm conditions in Check-It and let it read the values from your data server.

Similar to the <u>Message Server</u> application Check-It displays an icon in the System Tray (Right part of task bar) after startup. This means that Check-It is ready to read values from the other applications. If you click on the icon and double click on an entry the following configuration screen opens:

DDE	Topic	Item	Enabled	User To Call	Scan Time	Cond.	Limit	Last
	Excel[Sheet1	R1C1	YES	MAW	00:01:00	>	100	NO DA
\$	\\ComputerNam	R1C1	YES	MAW	00:01:00	=	1	NO DA
*****	View[Tagname	WaterValve	NO	>LIST1	00:01:00	-	1	NO DA
\$	Citect[Variable	WaterValve	NO	>LIST1	00:01:00	=	1	NO DA
			Ev	ent Detail				
				DDE Topic	Excel/Sheet1			
				Item	R1C1			
				Condition	Heigher			1
				Limit	100			
	—/		_	Hysteresis	5			
4	Entries			Last value	0			
11 6	New Co	ipy De	elete	Scan Time	00:01:00			
			_	User(s) To Call	MAW			
				Message	Error in RT3			
				Enable/Disable	👸 Event	Enabled		
				Cancel				

DDE Topic Parameter for the DDE call, usually APPLICATION|TOPICNAME

Item Subject of DDE conversation

Condition Condition to compare value

- Limit Limit to compare value with
- Hysteresis Absolute value to exceed until event is re-enabled after sending an alarm message. IE if the Hysteresis is 1.5, the Limit is >11.5 and the actual value exceeds this limit an alarm will be send. Then this event is disabled until the value falls below 11.5-1.5=10, then the event will be re-enabled.
- Scan time Scan time to read values. Format hh:mm:ss.

User to call <u>Contacts(s)</u> which will receive the alarm message

Message Actual alarm message to send (See also <u>file sending</u>)

Enable/Disable Enables or disables scanning of value

Note(s):

- While the configuration screen is open the actual scanning of the values is paused. It resumes when you press the minimize (X) button.
- Check-It needs <u>Message Server</u> running in order to send the alarm messages.
- To be able to read values from an application through DDE the application needs to be running.
- To scan a remote computer on a network use the NetDDE format as topic. IE <u>\\ComputerName\Application|Topic</u>
- When using Excel please note that the Topic and Item is language dependent. This means that for instance in German a call to cell A1 in Excel becomes Excel|Tabelle1 and Z1S1

Command line parameters for CheckIt

You can start CheckIt.exe with the following command line parameters:

/NOFORM Does not display the taskbar icon nor any other form

Please only use this parameter when directed by MAW support to do so.

Dynamic Data Exchange (DDE)

DDE has three parts: the name of the application; the file name or topic; and the cell range, value, field, or data that's referred to. The following illustration shows the parts of a remote reference formula and the required separator characters.

Topic: Excel|Sheet1 Item: R1C1

You can either get data form a DDE server, send data to the DDE server or execute a macro on the DDE server.

The program that contains the data you want to link must support Dynamic Data Exchange (DDE). To determine whether your program supports DDE or to learn the DDE name and topic information for the program, contact the software vendor of the program.



(INSClient only ships with the Enterprise Edition of INS. Please contact <u>MAW</u> <u>Consulting</u> for more information).

General

The client application allows to use *INS* as Client-Server Fax Server, to which several clients can submit their faxes.

Faxes are created through the *INS Fax Printer*. By simply printing to this driver from any Windows application, a Fax file is created. You can then submit this Fax to be send by <u>Message Server</u>. As both applications MsgServer.exe and INSClient.exe try to connect to the MAW Fax printer, they can not run both on the same machine. The INSClient installation does not install the INSClient.exe on the local computer, but creates a link to the Server application.

When you start the INSClient.exe application you will see a small icon on the taskbar



Through a right-click the following menu is available:



Outbox

d Outbox Log				
Time to send	R	Recipient	Message	
📓 2005/05/19 22:15:15	0	MAW	E:\MAW\Projects\MsgServe	
📓 2005/05/19 22:15:31	0	MAW	E:\MAW\Projects\MsgServe	
📓 2005/05/19 22:15:34	0	MAW	E:\MAW\Projects\MsgServe	
3 entries				<u></u> lose

The Outbox displays the currently submitted messages. Once a message has been sent by <u>Message Server</u> it disappears from this list.

Settings

INS Client Settings	?×
Install Fax Driver on this clien	t
	<u>0</u> K

Through the *Install Fax Driver on this Server* button you can add a new virtual printer, to which you can print your faxes from any windows application.



IMPORTANT

The faxes are created on the Server under the FAXQueue directory .

As the fax files are submitted with the full path

(IE M:\INS\FAXQueue\FAX0001.apf)

you must on the server also map the same drive (IE M:) to the INS directory. Like this Client and the server refer to the file with the same path.

If during the installation of the fax printer driver the system requests the file RASDD.dl_ then those required system files are not yet installed on your PC. Just

cancel the current installation and copy the files under C:\INS\Utilities\RASDD into the directory C:\INS. Then retry the installation.

Exit

Leaves the application INSClient. Faxes printed to the MAW Fax printer will not be sent anymore.

Communication devices

Message Server supports any TAPI compliant voice modem or voice boards to be used for its voice features.

Voice Devices

What is a Windows voice modem?

A voice modem is a modem that is capable of playing and recording audio over a telephone line. While almost all modems are capable of doing data and fax, a growing number have voice capabilities. Modern voice modems are powerful telephony devices capable of advanced features like voice interaction, call transfers, and outbound dialing. For most users, a high quality voice modem and advanced telephony software like *Message Server* will allow them to create a professional communications solution. Common brands include US Robotics, 3Com, ZOOM, ModemBlaster, EigerMedia, and others.

In order for a voice modem to work with Windows TAPI, the modem must have voice drivers and sound devices. The voice drivers are interfaced with Windows 95/98/2000 through UniModem/V (95/98) or UniModem/5 (2000), Windows' universal modem voice drivers. Sound devices (or Wave Devices) for the voice modem are usually provided by the manufacturer. Unfortunately, Windows NT4 does not support UniModem/V or UniModem/5, so voice modems cannot be used with *Message Server* under NT4.

If you wish to use your modem under TAPI you need to make sure that you have

- a voice capable modem (IE a modem which is able to play voice files through the phone line or speaker)
- the most updated driver for your modem/board (<u>http://ww.mawnet.com/links.html#ModemDrivers</u>)
- make sure that you configure your modem with the latest modem driver. Unfortunately modem suppliers still seem to sell their modems with outdated drivers, which often do not support Voice & CallerID. The only way to be sure that you have the right driver is to download the newest driver from the Internet. You may even need to experiment with different drivers. IE the 3COM U.S.Robotics 56K Message Modem does not support Caller ID with its own driver (U.S.Robotics 56K Message) but detects CallerID with the U.S.Robotics 56K Voice EXT driver.

What is a TAPI voice board?

A voice borad is a device designed specifically for doing voice processing over telephone lines. Telephony cards provide much better quality audio output than voice modems and may support multiple phone lines on a single card. A TAPI telephony card is one that works with Windows Telephony API. Common brands include Dialogic, Brooktrout and MediaPhonics PhoneRider.

In order for a telephony card to work with *Message Server*, it must provide support for playback and recording of wave format audio. Technically, that means the device must provide TAPI "wave/in" and "wave/out" devices.

Voice boards

For best results, we recommend Dialogic telephony cards be used with INS.

Dialogic cards

☑Can be used with normal analog phone lines and T1 and E1 lines



Telephony cards are a much better solution then voice modems, offering better quality sound playback/recording and better detection of DTMF and busy tones.

Dialogic cards listed below can be used with INS.

D/4PCIU	D/4PCIUF	D/4PCIU4S	D/4PCI	D/41JCT
ProLine/2V	D/41E	D/41ESC	D/160SC-LS	D/120JCT
D/21H	D/41H	D/41EPCI	D/42NE2	D/82JCT
D/240, D/480	D/300, D/600	DMV cards		
D/21D	D/41D	Dialog/4	VFX/40 series	

Good entry-level cards are the 4 port D/4PCIUF and D/4PCIU4S, they costs around US\$600.

Dialogic cards can be purchased from:

US: www.pcnation.com www.pagecomputers.com www.epinions.com Used cards: Ebay (www.ebay.com) and www.thetelecomlink.com

A driver CD should be shipped with the cards. Complimentary SR5.1.1 drivers can also be downloaded from:

http://resource.intel.com/telecom/support/releases/winnt/Sr511/index.htm (300MB)

D/4PCIU & D/4PCIUF cards require either the SR5.1.1 Feature Pack 1 drivers, or the SR5.1.1 + SR5.1.1 SP1 + D4PCIU support patch.

Newest DMV cards require SR6.0 drivers.

The freely available SR5.1.1 + SR5.1.1 SP1 drivers are sufficient for all other cards (even on WinXP systems).

Other System Release updates can be downloaded from here.

Please also see: Installing on Dialogic Systems.

CAPI Cards

DCan be used with BRI ISDN lines and T1/E1 ISDN lines



INS can be used with any ISDN BRI (2 channel 128Kbs) and ISDN PRI (24 channel T1 or 30 channel E1) cards that supports CAPI. This includes cards from:

Eicon (BRI-2M, 4BRI-8M, etc)
 AVM (Fritz!Card, B1, C2, C4, T1, Fritz!GSM, etc)
 BT Speedway (UK version of the AVM Fritz!Card)
 PrimuX cards from Gerdes AG

and many more, see here.

The most cost effective card at the time of writing is the AVM Fritz!Card. We recommend this card when using INS with BRI (128Kbps) ISDN lines.

Please also see: Installing on CAPI / ISDN Systems.

Other Telephony Cards

DCan be used with normal analog phone lines



CallUrl Voice 2/4 LV+ 2- and 4-Port Analog Interface Voice Board The Voice 2/4LV+ provides two/four telephone line interface circuits for direct connection to analog loop start lines. Up to 4 Voice boards can be installed in a single PC chassis enabling port expansion up to 16 ports per system.



CallUrl Voice 8LV 8-Port Analog Interface Voice Board The Voice 4/8LV provides four/eight telephone line interface circuits for direct connection to analog loop start lines. Multiple Voice boards can be installed in a single PC chassis enabling port expansion up to 80 ports per system.

🔁 Data Sheet

🗖 Data Sheet



Brooktrout/Rhetorex still provides TAPI drivers for their cards (unsupported).

The following cards are supported: Brooktrout Vantage 4 line & 8 line PCI, DSP9432i, RDSP432 (ISA) and some of the older models: TR114+I2L, TR114+P2L, TR114+I2C/D, TR114+I4L, TR114+P4L, TR114+I4C/D, TR114+I2P/V, TR114+I4P/V, TR114+I8P/V, TR114+I8S, TR114+I12V, TR114+I16V, TR114+I8V-T1, TR114+I24T, TR114+ P24T

Please Click Here to obtain TAPI drivers for Brooktrout cards.

Other manufactures : Ai-Logix (formerly Music Telecom) and Natural Micro Systems no longer provide TAPI drivers for their products, hence cards from those manufacturers cannot be used with INS.

Telephony Devices

DCan be used with normal analog phone lines only

Mediaphonics Phonerider USB



This one line device has high quality playback and recording, together with good DTMF tone detection. The Mediaphonics company has now closed down but there are still a number of distributors holding stock of this device. One place to get them from is www.televox.com (priced at around US\$200).

➡ Way2Call's Hi-Phone DeskTop



This one line device has high quality playback and recording, together with good DTMF tone detection (priced at around US\$200). Note: Some users have reported some problems with setting up this device's drivers under Win2000. (please see here)

Modems (Voice capable)

DCan be used with normal analog phone lines only



In general external modems work a lot better then the internal modems, and internal 'Soft' modems have a number of issues. We do not recommend using internal modems in general.

As the modem models on the market change frequently we cannot provide a definitive list of current 'best' modems. We have found that the quality of sound playback and recording can vary between different releases of the same modem. When selecting your voice modem we recommend trying a few modems if possible and choosing the best one. For help on choosing the current best

modem its probably best to ask for some help at a large computer shop in your local area. They will be able to advise which modems can correctly recognize your local telephone company's CallerID signaling, and which have a good reputation for sound quality. A discussion thread on which modems other users have found satisfactory is running on the INS Support Forum.

Many voice modems have one or more of the following problems:

- ▶ Poor sound quality/volume.
- ▶ Unreliable DTMF tone detection.
- ▷ Cannot do call transfers as hookflash length is too long or too short.
- ▶ Mistakenly detect a disconnect tone while playing or recording messages and hangup a call halfway through playing/recording of sound file.
- Unable to interrupt the playing of a sound file halfway through.

For reasons above many people find voice modems unsuitable and choose to use a telephony card instead (Dialogic).

For a feedback from users about the different modems <u>click here</u>.

For a detailed list of modems we tested with INS please <u>click here</u>.

For a detailed list of modem drivers under Windows 2000/XP please <u>click here</u>.

Installing Voice Modems

When using a voice modem the first thing that should be checked is whether it's Wave drivers have been correctly installed. Without it's wave drivers the modem will not be able to play and record sound files. To check that the wave drivers are installed you will need to view the Windows Device Driver Manager.

Windows 9x/Me

- 1. Open the Windows Control Panel
- 2. Double click on the System Icon
- 3. Click the Device Manager TAB
- 4. Click the + next to Sound, video and game controllers.

Check if the "Wave Device for Voice Modem" driver appears. Windows 2000/XP

- 1. Open the Windows Control Panel
- 2. Double click on the System Icon
- 3. Click the Hardware TAB and Device Manager button
- 4. Click the + next to Sound, video and game controllers.

Check if the "UniModem Half-Duplex Audio Device" driver appears.

If the wave drivers have not been installed for your voice modem then you should update or reinstall your modem drivers. You should also double check if the modem does in fact support voice (note: many 'speakerphone' modems do not support 'voice').

If its hard to find a Voice modem in your local area you can try buying them online from these

places:

US: www.pcmall.com www.accessmicro.com

Note: WinNT does not support Voice modems - if using NT you will need to use a telephony cards (eg: Dialogic) or upgrade to Win2000/XP.

Note: Modems using the UnimodemV TelephonyService Provider (TSP) can only work with PCM 8000 Hz, 16 bit Mono wavefiles. Other more sophisticated telephony devices can play other formats that allow for greater compression. In essence TAPI has nothing to do with the Wave files, the Windows Media Control Interface is used to play and record to/from the media device which just so happens to be part of the modem. If you are looking for an inexpensive program to work and convert wave files look at Cool Edit, http://www.syntrillium.com.

Other Miscellaneous Add-Ons

Instead of plugging analog telephone lines into the Dialogic card (or voice modem) you can just attach the IPS Fixed Cellular Terminal device and receive & make calls over the GSM mobile network. Very useful solution in situations where:

- May take some time for the lines to be installed,
- ⇒ Need to move the IVR system frequently,
- Need to change the phone numbers used by the IVR frequently (just purchase different prepaid SIM cards),
- Need to place many calls to mobile phone numbers (mobile-to-mobile calls are usually cheaper then landline-to-mobile calls),

Installing on Dialogic Systems

Dialogic cards supported

The following Dialogic cards have been tested to work with INS:

D/4PCI, D/4PCIU, D/4PCIUF, D/41E, D/41EPCI, D/41JCT, D/41ESC, D/41H, D/42 series, D/120JCT, D/160S, D/21H, ProLine/2V, D/21D, D/41D, Dialog/2, Dialog/4, all digital T1/E1 cards: D/240, D/480, D/300, D/600, and all DMV-series cards.

The D4PCI card is about US\$500 brand new from a number of large online retailers (please see the <u>Communication Devices</u> page), and many cards can be purchased second-hand on Ebay for as little as \$200 – just search for "Dialogic" on <u>www.ebay.com</u>

Installing Dialogic Software

Dialogic's System Release 5.1.1 SP1 (or later) software should be used with INS.

Dialogic System Release software can be downloaded for free from: <u>http://resource.intel.com/telecom/support/releases/complimentary/index.htm</u>

When installing SR5.1.1 the "Custom Installation" option should be chosen and then the "Global API" option must be selected.

SR5.1.1 Service Pack 1 should be installed after SR5.1.1 is installed.

D/4PCIU & D/4PCIUF cards require either the SR5.1.1 Feature Pack 1 drivers, or the SR5.1.1 + SR5.1.1 SP1 + D4PCIU support patch. Newest DMV cards require SR6.0 drivers. The freely available SR5.1.1 + SR5.1.1 SP1 drivers are sufficient for all other cards (even

The freely available SR5.1.1 + SR5.1.1 SP1 drivers are sufficient for all other cards (even on WinXP systems).

Please always refer to the Dialogic's Release Notes and/or Installation Notes to determine what Operating System may be used.

If using Windows NT then Internet Explorer 5 or greater should also be installed. Please read the Dialogic cards release notes and help files to ensure correct installation and configuration of your Dialogic card - these will cover how to set up your card to correctly detect busy and engaged tones, and perform call transfers correctly.

Sometimes you will need to specify a particular "Parameter File" in the Dialogic's Configuration Manager to ensure the card is set up to work correctly with phone lines in your country. Please consult your local Dialogic representative regarding any questions relating to configuration of your Dialogic card.

Installing PCI Dialogic Card

Dialogic PCI voice cards have a small rotary switch (on the circuit card), which sets the board number. If this is the first Dialogic voice card in the PC, set the board number to 1. Plug the Dialogic voice card into any available PCI slot on the PC mother board.

- 1. After fitting the Dialogic PCI voice card, re-start the PC. The "Found New Hardware Wizard" will be displayed. Press Next.
- 2. Select the "Search for a suitable driver" option.
- 3. Select only the "Specify a location" option.
- 4. Browse to the Dialogic installation directory's \DRVR\ subdirectory.
- 5. Press Next.
- 6. The correct Dialogic card name should be displayed. Press Finish.
- 7. Start the Dialogic Configuration Manager: From the Start menu, select Programs, then Dialogic System Software, then Dialogic Configuration Manager.
- 8. Connect to the local computer, auto card detection will begin.
- 9. Check if the voice card has been auto-detected.
- 10. Double click on the voice card icon and set the country parameter to the correct value.
- 11. Select Start-Service from the Service menu. The service will take up to 30 seconds to start.
- 12. From the Service menu, select Startup-Mode, then Automatic.

If the card is not detected, or the model is displayed as ????, do the following:

- 1. Reboot the PC
- 2. Enter the system BIOS
- 3. Disable "Plug & Play" and/or disable ACPI
- 4. Repeat steps 7 to 9 above

Installing ISA Dialogic Card

Dialogic ISA voice cards have jumper switches for setting the hardware interrupt level (IRQ) and base memory address segment. When fitting these Dialogic voice cards, it is essential to choose a hardware interrupt level and base memory address segment that do not conflict with existing equipment installed in your PC.

How to check for un-allocated IRQ and memory on **Windows NT**: From the Start menu, select Programs, then Administrative Tools, then Windows NT Diagnostics.

Press the Resources tab.

Press the IRQ button to view currently allocated IRQs.

Press the Memory button to view currently allocated segments.

How to check for un-allocated IRQ and memory on **Windows 2000/XP**: From the Start menu, select Programs, then Accessories, then System Tools, then System Information. Expand the Hardware Resources folder. Press the IRQs folder to view currently allocated IRQs.

Press the Memory folder to view currently allocated segments.

Having identified suitable free IRQ and memory address, configure the card by setting the jumpers and switches located on the card. IRQ 5 is usually a good choice, the base memory address can usually be left at the default D000.

- 1. After fitting the Dialogic ISA voice card, re-start the PC.
- 2. Start the Dialogic Configuration Manager: From the Start menu, select Programs, then Dialogic System Software, then Dialogic Configuration Manager.
- 3. Connect to the local computer.
- 4. Auto card detection will begin.
- 5. The ISA card will not be auto detected. Select Add-Device from the Action Menu.
- 6. Select the voice card model.
- 7. Give the voice card a name or number.
- 8. Setup the correct IRQ and memory values. (May need to double-click on the displayed voice card icon first)
- 9. Set the country parameter to the correct value.
- 10. Select Start-Service from the Service menu. The service will take up to 30 seconds to start.
- 11. From the Service menu, select Startup-Mode, then Automatic.

Installing the TAPI driver

Please carry out the installation of Dialogic's TAPI and Wave drivers as per the instructions below and then test your system using Dialogic's TALKER32 application as outlined in the last part of this chapter.

When installing the Dialogic software select 'Custom Installation' option and ensure that the TAPI Drivers and the Global Call option is selected. Global Call needs to be installed in order for the TAPI Driver to be loaded.

Full instructions on installing the TAPI and Wave drivers can be found in the Dialogic help file "d41mt.hlp" located in Windows' System32 directory.

After installing the Dialogic software you will need to configure the TAPI Driver and the Wave Driver.

After installing the Dialogic TAPI and Wave drivers you can test the system using the Dialogic demonstration application TALKER32. TALKER32 uses the TAPI/Wave interface to control the Dialogic card, which is the same control interface used by INS.

Boards D/21D, D/41D, Dialog/2, Dialog/4 and VFX/40 can only support Mu-Law WAV files under TAPI/Wave. You will need to download this set of INS system sound files if you intend to use INS with those boards.

Installing Dialogic TAPI driver

Run Setup from the 'Dialogic System Software and SDK' CD. You will need to ensure that the TAPI drivers are installed as well.

1. Run the Telephony applet in the Control Panel:

- i. Click Start.
- ii. Point to Settings.
- iii. Click Control Panel.
- iv. Double-click Phone and Modem icon (or Telephony icon).

2. Click the Advanced tab (or Telephony Drivers tab).

3. If the Dialogic Service Provider for NT does not appear in the Telephony Drivers tab, do the following to add it:

- i. Click Add to display the Add Driver dialog.
- ii. Click the Dialogic Generation 2 Service Provider for NT to select it (if it is not shown, restart your PC and try again).
- iii. Click Add. The Dialogic TAPI driver (TSP) Configuration dialog is displayed.

4. Click Detect Boards to update the list of Dialogic board channels (dxxxB1C1 is board 1 channel 1). The list is updated to match the configuration that was most recently started. You can click Help to access on-line help for the TSP configuration.

5. Click OK to close the Dialogic TSP Configuration dialog. The Dialogic TSP should now appear in the Telephony Drivers tab. Note that the Configure button can be used to redisplay the Dialogic TSP Configuration dialog.

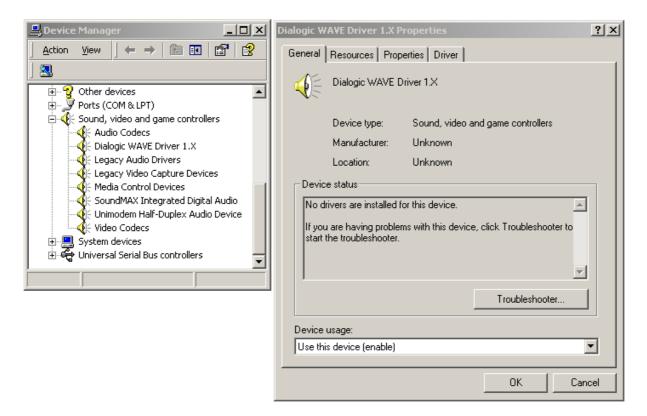
6. Click OK (or Close) button to exit the Telephony applet.

After installation use the Dialogic Configuration Manager to configure and start the board.

Installing Dialogic Wave driver - Windows XP/2000/2003 :

- 1. Go to the Start Menu->Settings->Control Panel->Add/Remove Hardware to start the Add/Remove Hardware Wizard
- 2. Click Next.
- 3. Select Add/Troubleshoot a Device and click Next.
- 4. Windows will attempt to find any new plug and play devices. It should find none. Select "Add a new device" and click Next.
- 5. Select "No, I want to select the hardware from a list" and click Next
- 6. Select "Sound, video and game controllers" and click Next
- 7. Click "Have Disk" and browse to the "Program Files\Dialogic\LIB" directory.
- 8. Select the "oemsetup" file and click open. Then click OK on the next screen.
- 9. Select the "Dialogic WAVE driver 1.X" and click Next.
- $10. \mbox{ Click Next. You will receive a warning that a digital signature is not found. Click Yes to continue the installation.$
- 11. If asked for path to "dlgwave.dll" it should be found in Windows' "System32" directory, else it is also available in the "Program Files\Dialogic\LIB" directory.
- 12. Restart the computer for the changes to take affect

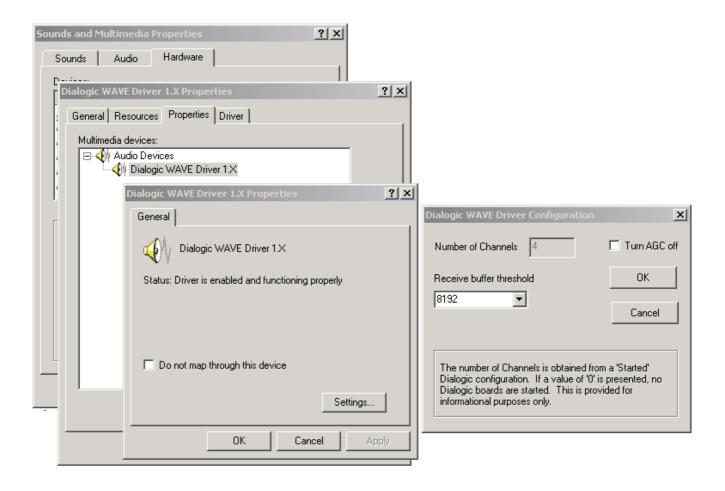
The "Dialogic WAVE driver 1.X" should now be seen in the Device Manager (Control Panel -> System -> Hardware Tab -> Device Manager).



The "No drivers are installed for this device" message in the "Device Status" box is normal. Once "Dialogic WAVE Driver" is listed in Device Managers "Sound, video and game controllers" section then this indicates that the Wave drivers are working.

If the "Dialogic WAVE Driver" entry has an exclamation mark next to it then this indicates that the Wave drivers are not correctly installed and that they should be uninstalled and re-installed again.

The remainder of the recommended configuration for the Wave drivers is shown below:

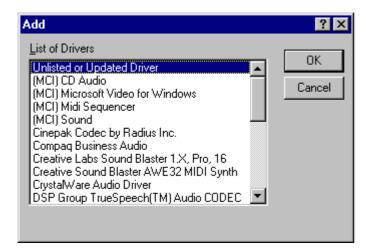


Installing Dialogic Wave driver - Windows NT :

To check if the Dialogic driver has been installed open the Control Panel and run the Multimedia applet. Click on the Devices tab. You should see something like this:

Multimedia Properties ? 🗙			
Audio Video MIDI CD Music Devices			
Multimedia <u>d</u> evices:			
🏡 Multimedia Drivers			
🔁 🍕 Audio Devices			
Audio for Dialogic WAVE Driver 1.X			
MIDI Devices and Instruments			
Mixer Devices			
Eine Input Devices Media Control Devices			
Video Compression Codecs			
Microsoft ADPCM Audio CODEC			
Microsoft GSM 6.10 Audio CODEC			
DSP Group TrueSpeech(TM) Audio CODEC			
Microsoft CCITT G.711 Audio CODEC			
Microsoft PCM Converter			
Add <u>R</u> emove <u>P</u> roperties			
OK Cancel Apply			

In the example above the Dialogic wave driver has already been installed. If the driver is missing, click on 'Add...'. You should now see the Add window.



Select the 'Unlisted or Updated Driver' option and click OK. you should now see the 'Install Driver' window.

Install Driver	×
Insert the disk with the unlisted, updated, or vendor-provided driver in:	OK I
	Cancel
C:\Program Files\DIALOGIC\LIB	Browse
	<u>H</u> elp

The wave driver is located in the 'Lib' directory of your Dialogic installation. Specify the path to the 'Lib' directory and click OK. You will need to restart the computer before the changes take effect.

Wave driver problem solving (reinstallation)

Sometimes installing 3rd party Sound Recording software or other changes to wave driver configuration results in the Dialogic (or voice modem) wave drivers being remapped incorrectly, resulting in the sound files from the running script being played through the computer's speakers, or "WAVERR_BADFORMAT" errors returned when trying to play sound files (even when the preferred format sound files are used: for Dialogic: **PCM 11025Hz, 8bit, Mono** fand for Voice modem: **PCM 8000Hz, 16bit, Mono**).

In these situations the Dialogic (or voice modem) wave drivers should be uninstalled and the re-installed again in order to have them play the sound files correctly. The computer must be rebooted after the driver uninstall and then again rebooted after driver reinstall. It is a good idea to uninstall all wave drivers and install just the Dialogic/Modem wave driver first. If that works then other Wave drivers (sound card etc) may be added.

To uninstall the wave driver:

- 1. Run the Control Panel Sounds and Multimedia applet.
- 2. Click the Hardware tab.
- 3. Select Audio for Dialogic WAVE Driver (or the "Unimodem Half-Duplex Audio Device" if using voice modem).
- 4. Click Properties.
- 5. Select "Driver" tab.
- 6. Click Uninstall.
- 7. Reboot computer before re-installing driver.

Test using Dialogic's TALKER32

Once the TAPI and Wave drivers have been installed and the Dialogic service is running you can test the Dialogic card using Dialogic's own TALKER32 Demo/Testing Application. TALKER32 can be found by following:

Start -> Programs -> Dialogic System Software -> Dialogic Sample Programs -> TAPI

When you start TALKER32 it will find all TAPI devices on the system – amongst them the Dialogic lines should be listed. You can find out which are the Dialogic lines by pressing the "Info" button and looking at the description on the Line Information dialog – for Dialogic lines it will say "Line type: Dialogic Gen 2"

talker32:11 lines start	ing from O		
1 2 3			
4 5 6	U Call Info 10 1 ● Open Info		
7 8 9	2 Call Info	Line #8 information	×
# 0 *	3 Call Info	Line Info	
Clear Dial	4 O Call Info	Total calls = 2, dwNumOpens = 1,	
Help Close	5 \star Open Info	dw0penMediaModes = 12, dwNumActiveCalls = 0 GetDevStatus	
	6 🕒 Call Info	dwNumOnHoldCalls = 0,	
	7 Call Info	Configuration Device-specific Options	
		ConfigDialog lineDevSpecific Auto Answer	
	9 Call Info	GetDevConfig Default Route Auto Play	
		SetDevConfig	
		Wave file options	
		Today playing: c:\\play.wav Select file to play	
		Select file to play Select format	
		Help	e

Find all the Dialogic lines and select the "Auto Answer" and "Auto Play" check boxes, and also for each Dialogic line click the "Select file to play" and indicate the sound file "play.wav" from the TALKER32's directory (\Program Files\Dialogic\Samples\Talker32\play.wav) should be used.

When you now call into the system TALKER32 will answer the call and play "Welcome to Dialogic..."

If the caller has heard that sound file being played then the system is now ready to be used with INS.

Configure Dialogic TSP

Dialogic TSP (Telephony Service Provider) can be accessed using:

Win98/NT: Open Control Panel's Telephony applet, select the Telephony Drivers tab, select the Dialogic Service Provider and the press Configure.

Win2000/XP: Open Control Panel's "Phone and Modem Options" applet, select the Advanced tab, select the Dialogic Service Provider and then click Configure:

Phone And Modem Options
Dialing Rules Modems Advanced
The following telephony providers are installed on this computer: Dialogic TSP Configuration Channel Channel Channel Channel Properties OK dxxxB1C2 dxxxB1C3 Channel Datact React Datact React
Name Advanced Analog Line About
Configuration Service
Board Parameters Call Parameters Disc tone 1 Disc tone 2 Fax tone 1 Beep tone PBX strings Configuration
Minimal LCOFF 50 Wait for answer (rings) 10
Min time ring detect 3 Report incoming call 0
Min time end ring 5 Max wait between rings 80
Ringback Timeout 100 Call progress DX_PAMDENABLE(7) 💌
Enable Perfect Call Description Number of rings after which an incoming call is reported by the service provider (default = 2) Apply
Reset
OK Cancel Save as text

Dialogic TSP Configuration allows setting of the the number of rings after which the call should be reported, definition of disconnect/busy tones which are used by your telephone network, and the commands used by the PBX to transfer calls correctly.

Found New Hardware Wizard on Win2000

If the Found New Hardware Wizard keeps popping up every time you start Windows, and you are unable to stop it by pressing Cancel please read:

http://resource.intel.com/telecom/support/tnotes/tnbyos/winnt/tn383.htm

Installing Dialogic Wave Driver - Windows 2000/XP

The step-by-step approach to installing the Dialogic Wave driver on Win2000/XP systems is:

- 1. Go to the Start Menu->Settings->Control Panel->Add/Remove Hardware to start the Add/Remove Hardware Wizard
- 2. Click Next.
- 3. Select Add/Troubleshoot a Device and click Next.
- 4. Windows will attempt to find any new plug and play devices. It should find none. Select "Add a new device" and click Next.
- 5. Select "No, I want to select the hardware from a list" and click Next
- 6. Select "Sound, video and game controllers" and click Next
- 7. Click "Have Disk" and browse to the "Program Files\Dialogic\LIB" directory.
- 8. Select the "oemsetup" file and click open. Then click OK on the next screen.
- 9. Select the "Dialogic WAVE driver 1.X" and click Next.
- $10. \ {\rm Click} \ {\rm Next.} \ {\rm You} \ {\rm will} \ {\rm receive} \ {\rm a} \ {\rm warning} \ {\rm that} \ {\rm a} \ {\rm digital} \ {\rm signature} \ {\rm is} \ {\rm not} \ {\rm found}. \ {\rm Click} \ {\rm Yes} \ {\rm to} \ {\rm continue} \ {\rm the} \ {\rm installation}.$
- 11. If asked for path to "dlgwave.dll" it should be found in Windows' "System32" directory, else it is also available in the "Program Files\Dialogic\LIB" directory.
- 12. Restart the computer for the changes to take affect

Once again, with screenshots that Windows displays at each step (There are some minor differences between 2000 and XP).

1. Go to the Start Menu->Settings->Control Panel->Add/Remove Hardware to start the Add/Remove Hardware Wizard



2. Click Next.

Add Hardware Wizard	
The following hardware is already installed on your computer	E
From the list below, select an installed hardware device, then click Next to check properties or troubleshoot a problem you might be having. To add hardware not shown in the list, click "Add a new hardware device."	
Installed hardware: Standard Universal PCI to USB Host Controller USB Root Hub USB Root Hub USB Root Hub USB Root Hub Add a new hardware device	
< Back Next > Ca	ancel

3. Select Add/Troubleshoot a Device and click Next.

4. Windows will attempt to find any new plug and play devices. It should find none. Select "Add a new device" and click Next.

Add Hardware Wizard
The wizard can help you install other hardware
The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.
What do you want the wizard to do? Search for and install the hardware automatically (Recommended) Install the hardware that I manually select from a list (Advanced)
< Back Next > Cancel

5. Select "No, I want to select the hardware from a list" and click Next

Add Hardware Wizard	
From the list below, select the type of h	ardware you are installing
If you do not see the hardware category yo Common hardware types:	u want, click Show All Devices.
 PCMCIA adapters PCMCIA and Flash memory devices Ports (COM & LPT) Printers SCSI and RAID controllers Sound, video and game controllers System devices Tape drives 	
	< Back Next > Cancel

6. Select "Sound, video and game controllers" and click Next

Add Hardware Wizard				
Select the device driver you want to install for this hardware.				
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.				
(Standard system devices) Aztech Systems CH Products Game Ports Creative Technology Ltd.	Audio Codecs Aureal Vortex Game Port Legacy Audio Drivers Legacy Video Capture Devices			
This driver is digitally signed. Have Disk Tell me why driver signing is important				
	<pre></pre>			

7. Click "Have Disk" and browse to the "Program Files\Dialogic\LIB" directory.

Install F	rom Disk	
I	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
	Copy manufacturer's files from: C:\Program Files\Dialogic\LIB	Browse

8. Select the "oemsetup" file and click open. Then click OK on the next screen.

9. Select the "Dialogic WAVE driver 1.X" and click Next.

Add Hardware Wizard		
Select the device driver you want to install for this hardware.		
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.		
Model Dialogic WAVE Driver 1.X		
This driver is not digitally signed! Have Disk Tell me why driver signing is important Have Disk		
< Back Next > Cancel		

10. Click Next. You will receive a warning that a digital signature is not found. Click Yes to continue the installation.

11. If asked for path to "dlgwave.dll" it should be found in Windows' "System32" directory, else it is also available in the "Program Files\Dialogic\LIB" directory.

Add Hardware Wizard
The wizard is ready to install your hardware
Hardware to install:
Dialogic WAVE Driver 1.X
To start installing your new hardware, click Next.
< Back Next > Cancel

Dialogic WAVE Driver Configuration	n 🛛
Number of Channels	Turn AGC off
Receive buffer threshold	OK
	Cancel
The number of Channels is obtained from Dialogic configuration. If a value of '0' is p Dialogic boards are started. This is provid informational purposes only.	presented, no



12. Restart the computer for the changes to take affect

Installing on CAPI Systems

INS can be used with any Basic Rate ISDN (2 channel 128Kbs) and Primary Rate ISDN (24 channel 1.5Mbps or 30 channel 2Mbps) hardware that supports CAPI. This includes hardware from:

AVM (Fritz!Card, B1, C2, C4, T1, Fritz!GSM, etc)

<u>Eicon</u> (BRI-2M, 4BRI-8M, etc)

<u>BT Speedway</u> (UK version of the AVM Fritz!Card)

and many more....

Complete list of CAPI devices with which INS can be used can be found at: http://www.capi.org/pages/hardware.php

The most cost effective card at the time of writing is the AVM Fritz!Card. We recommend this card when using INS with BRI (128Kbps) ISDN lines.

Install order

1. Install the CAPI hardware.

2. Download and Install the ComISDN TSP from http://www.comisdn.org/, and configure it to control the CAPI hardware. (After using ComISDN for more then 30 days you will need to pay a registration fee for it to ComISDN, please see http://www.comisdn.org/order.htm).

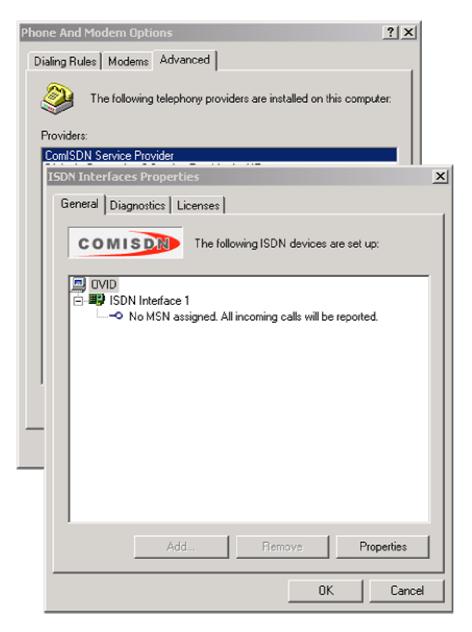
3. Install INS,

Configuring ComISDN

The ComISDN TSP can be configuration window is accessed using:

Open Start -> Settings -> Control Panel then click Phone and Modem Options or Telephony, and then under Advanced or Telephony Drivers, select ComISDN Service Provider and click Configure.

The ISDN Interface Properties window will appear:



The main setting that needs to be confirmed as having been correctly set is the **Network audio protocol**. If not set correctly the sound played and recorded will sound very distorted.

To set the Network Audio Protocol select the Computer (root) and then click **Properties**.

Phone And Modem Options	Interfaces Properties	X
Dialing Rules Modems Advanced	General Fax Driver	
The following telephony providers are installe	Default Interfaces Settings	
Providers: ComISDN Service Provider	Total number of supported B-channels : 2	
ISDN Interfaces Properties	TAPI model	
General Diagnostics Licenses	Interface: One Line per Interfaces B-channel	
COMISON The following ISDN de		
	Network audio protocol You can specify the audio protocol to use with your network.	
E ISDN Interface 1 └─── No MSN assigned. All incoming calls	Protocol: CCITT G.711 u-law	
	Automatic alerting usage:	
_	Enabled on fax calls only (Compatibility with Fax Services)	
	DK Cancel	
Add Remove	Properties	
	OK Cancel	

By default, ComISDN will use "u-Law" if it detected that the version of Windows installed is a US, Canadian or Japan one. For all other countries, it will use "A-Law".

If Windows has not been configured with the correct country setting then it is possible that this setting is incorrect and will need to be set manually. please ensure that it is set to "u-Law" if you are located in US, Canada or Japan, and set it to "A-Law" if you are located in other countries. It may also want to confirm with the telephone company or PBX supplier which protocol should be used - or just try them both and see which one sounds better.

Wav file format

All sound files should be in format: PCM 8kHZ, 16 bit, Mono. Other file formats will not play.

SMS (Overview)

The *Integrated Notification System* (*INS*) allows you to send a short message (SMS = Short Message Service) to a mobile phone using your computer. It supports Picture messages, Caller Group Graphic, Operator Logo, Ringtones and Flash SMS. The messages can be sent through an attached modem, through an Internet connection or directly through an attached mobile phone. If a mobile phone is attached to the computer (IE through the IR port), the contents of the inbox can be downloaded and stored in folders. The phonebook can also be downloaded and synchronized with *INS*.

Sending Picture messages, Caller Group Graphics, Operator Logos and Ringtones only work for Nokia phones. Most new phones can however now receive FlashSMS.

Downloading and synchronizing the address book is possible on most mobile phones that can connect to a computer (either through the IR port or a cable link).

How can SMS be sent?

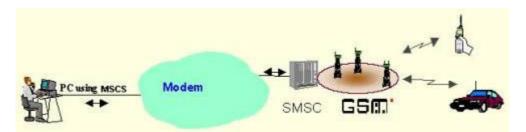
SMS can be sent either

- · Through a modem, using a dial-up SMS center
- Through the Internet, using an Internet SMS center
- Through a mobile phone attached to the computer (IE attached to the IR port)

What protocols are supported?

INS supports a wide range of protocols (XIO/TAP, UCP, INET, PDU) hence can be used for most of the SMS services.

How does it work?



INS accesses through your modem, the Internet or the mobile phone a SMSC (Short Message Service Center) and submits the message you wish to send. Then the SMSC transmits this message to the desired mobile phone.

Sending through the mobile phone

When you send the message through your mobile phone (attached to the computer), *INS* will use the parameters (Sender ID, SMS center, etc) of your phone to send the message.

Sending will work the same as when sending messages from your phone, except that you type the message on your computer. Not all phone manufactures implement however a link to the computer (IR port or serial cable link).

You can send text, pictures and ringtones.

Having the mobile phone connected to the computer has the additional advantage that you can transfer data from your phone to the computer and back. IE you can synchronize your phone book and archive received SMS on your computer.

Sending through the modem

Sending the message through a modem will connect to a SMSC (SMS center) that relays your message to its destination. There are several mobile phone providers that offer this modem dial-up. The connection is to a local server (not to the Internet), hence you need to choose a SMSC that is within your region. Alternatively you may select to dial a server abroad, but the communication cost will be expensive. When dialing abroad you need also to change the access number of the SMSC, to include the international dial codes

There are two different protocols supported by the SMSC, either XIO/TAP or UCP. XIO/TAP is an older protocol initially designed for pager messages. SMSCs that support this protocol will not be able to process pictures or ringtones. They can only process text messages and can not send the SenderID.

SMSCs that support the UCP protocol can send text, pictures and ringtones and support sending of the SenderID.

Sending through the Internet

There are several web sites that allow you to send SMS through their web interface. Those free sites only offer you to send text messages and require you to send the SMS through their web site, so that you are exposed to their ads. Often they add also a little commercial statement at the end of your message.

INS can not send SMS through those web sites. *INS* can however send messages through a number of commercial gateways (IE www.clickatell.com). Those sites allow you to set up an account and buy blocks of SMS. You can then send the messages

either through their web site or through our *INS*. For more details on how to open an account please go to <u>http://www.mawnet.com/inetsmsc.html</u>. Once you have received your userID and password go to <u>SMS services</u> and enter those details in the corresponding fields. You can send text, pictures and ringtones.

<u>Cost</u>

The cost per SMS for all three options is more or less the same. With the mobile phone link and the modem link you pay on a per usage, while with the Internet gateway you prepay blocks of messages.

Supported mobile phones

INS will work with all mobile phones that come with a modem driver.

What do I need to know about

...Flash Messages?

Flash SMS is just like normal SMS. The difference lies in the way it appears on the receiver handset. The receiver of Flash SMS would see the message without the need to press any button on the handset. It would appear on screen upon arrival. The downside is that this message will be overwritten by the next flash SMS, if it is not saved.

Almost all of the newer phones support Flash SMS.

Note: The message size is limited to 160 characters

...Ring tones?

Ringtones are supported in the RTTTL format.

RTTTL (Ringing Tones text transfer language) is a language used for publishing ringing tones on web pages. You will find hundreds of web pages with ringtones in RTTTL format. If you do a +ringtone +nokia search in for example Alta Vista, you will find hundreds of links to pages with ringtones in RTTTL format.

You may also download a selection from our website on http://www.mawnet.com/download/tones.zip

Note: The limitation to 160 characters does not apply to ringtones. Depending on the SMSC it may however reject large messages, IE over 300 characters.

...Pictures?

- File format supported is: gif
- The pictures must be in 2 colors only (black and white) and in the format: 72x28 pixels.
- You will find a lot of ready-made pictures on the net if you do a search. But you can also make them yourself with a paint program like Paint Shop Pro or Windows Paint.

You may also download a selection from our website on http://www.mawnet.com/download/pictures.zip

Note: Because of the size of pictures *INS* will need to dial three times to get the picture across to the SMSC.

... Operator Logos?

- File format supported is: gif
- The pictures must be in 2 colors only (black and white) and in the format: 72x14 pixels.
- You will find a lot of ready-made pictures on the net if you do a search. But you can also make them yourself with a paint program like Paint Shop Pro or Windows Paint.

You may also download a selection from our website on http://www.mawnet.com/download/logos.zip

• Choose YOUR Operator/Network from the Operator list.

...How can I get my original Logo back?

Send a logo, it doesn't matter which, and choose "Clear logo" from the Operator list. When you save that logo, it will not show up, instead you get your original logo back.

...Caller Group Logos?

- File format supported is: gif
- The pictures must be in 2 colors only (black and white) and in the format: 72x14 pixels.
- You will find a lot of ready-made pictures on the net if you do a search. But you can also make them yourself with a paint program like Paint Shop Pro or Windows Paint.

You may also download a selection from our website on http://www.mawnet.com/download/logos.zip

...download WAP content from the web

• Check the **WAP Download option** and enter the local path of the desired content. The file will then be uploaded to our web site and you will receive a SMS indicating you from where you can download the file to your handset. Your handset must support the WML (WAP Markup Language) standard to read the cover file.

You must also make sure, that your handset is able to play/display the file format you send to it. Normally handsets can only display correctly JPG or GIF files and play RM or MID sound files.

Please note that the file will be automatically deleted again from our web site after 24 hours, hence you must download it before that.

🐭 New Message	
Time to send 2007 / 06 / 18 17 : 03 : 56	
Recipient(s) MAW	Send as SMS 💌
SMS Number +41799999999	
SMS center (Internet) *Infobiiip (FREE)	
24 Characters Select file to send C:\INS\SamplePicture.gif	Send SMS as Text Flash SMS Ring Tone Picture Operator Logo Group Logo WAP Download
Elear	📑 🛃 🚽 🔤

Direct link to GSM device

Your modem needs to support a connection to a PC (IE through IR). If you have troubles with the IR port or need to know which virtual COM port is assigned to the IR port please check in the windows control panel the IR settings for your computer. Make sure that the IR-Transmission is activated.

NOTE: Windows 2000 (until SP2) does not support mapping virtual COM ports to Infrared Ports (Q252795)

See the microsoft support forum under

http://support.microsoft.com/default.aspx?scid=kb;EN-US;q252795 or search for Q252795

To download the patch and to enable the virtual COM port, please go to http://www.microsoft.com/windows2000/downloads/security/q252795/default.asp

To install the MS patch just restart your computer with the mobile phone in front of the IR port. Win2000 will detect the new device and install a new modem driver for it.

Alternatively you can download a smaller (73kB) third party patch from <u>http://www.mawnet.com/download/IrCOMM2k-eng.zip</u>

Trouble Shooting

No device(s) found

Make sure that your modem/voice board is connected, switched on and no other application (IE Internet dialup connection) is using it.

Fax driver Installation requests RASDD files

If during the installation of the fax printer driver the system requests the file RASDD.dl_ then those required system files are not yet installed on your PC. Just cancel the current installation and copy the files under C:\INS\Utilities\RASDD into the directory C:\INS. Then retry the installation.

TAPI modem not accepted

If the AutoDetect function returns FAIL for your TAPI modem check the following:

-If you are running Windows95/98/ME or Windows2000/XP

WindowsNT 4.0 can not be used for TAPI as it does not support voice.

-If your modem is correctly installed under Settings->Control Panel->Modem The modem has to be installed using the configuration files (INF) provided by your modem manufacturer.

-If the WAV driver is correctly installed

Check under Settings->Control Panel->Multimedia->Devices->Audio Devices and make sure that there is an entry similar to

"Manufacturer Voice Modem Serial Wave Device"

If not re-install your modem so that Windows can detect the Wave device.

How to Configure MODEM Wave Drivers for use with Message Server

One key component, for any voice MODEM, is the different system settings that effect the ability to play and record sound files over the telephone line.

For most modems this requires that windows have a driver installed that can play and record WAV files over the telephone line. If the wrong driver is installed, then the voice quality will sound very scratchy or just sound like static.

In most cases, when the MODEM was initially installed, this driver will be automatically installed.

To check if your system has a MODEM WAVE driver installed, follow these steps:

- 1. Open the Windows Control Panel
- 2. Double click on the Multimedia Icon
- 3. Select the Advanced TAB
- 4. Click on the + next to Audio Devices

If no MODEM Wave drivers are listed, then use the following procedure to add this driver:

(NOTE: You should visit your MODEM vendors web site and download the latest set of installation files and drivers available for the device before proceeding.)

To install the WAV driver for your MODEM, do the following:

- 1. Go to Control Panel
- 2. Select the Add New Hardware icon
- 3. Press the Next button
- 4. Select the No option (do not want windows to search) and press Next
- 5. Select Sound, video and game controllers option and press Next
- 6. If using a USR MODEM, select the USR Manufacturer

7. If using a different MODEM, select Microsoft and then select your MODEM driver type (multiple types will be listed). When in doubt, select the Rockwell Voice Modem Serial WAVE Device, Diamond 56k modems may use the Rockwell ACF Voice Serial Wave Device. Find the best choice available for your modem.

8. If you have downloaded a new set of drivers from your modem vender, you may chose the "Have Disk Option to browse to the location you have the files stored.

- 9. Press the Next button, then Finish
- 10. Reboot your system

This operation will install a serial WAV driver for your MODEM. This driver will take standard Windows WAV files and play and record them over the telephone line.

Caller ID

To use MsgServer with Caller ID you need two things:

- Caller ID Service from your local telephone company
- A MODEM or hardware device that supports Caller ID

The first is required as only your local telephone company can supply this data. The second is required so that the data sent by the Telephone Company can be passed to software programs for processing.

Many current MODEMs offer support for Caller ID. The key question is always what setup string to use to enable Caller ID (virtually every MODEM disables Caller ID as the default).

For most MODEMs, the string AT#CID=1 will enable Caller ID. On some voice based MODEMs the string is AT#CLS=8#CID=1. Look in the user's manual for your MODEM to see if any setup string is referenced or mentioned.

Other common setup strings are:

- * AT#CID=2
- * AT%CCID=1
- * AT%CCID=2
- * AT+VCID=1
- * AT#CC1
- * AT*ID1

The best way to test is to use a terminal data program. In Windows 95 the HyperTerminal program can be used.

To use HyperTerminal do the following:

1) Select "HyperTerminal" by navigating through the Start button to "Programs," then "Accessories," then "HyperTerminal"

2) Double click on "hyperterm" or "hyperterm.exe"

3) Name the new connection "test," and select OK

4) Change the "connect using" to Direct to COM X, were X is the COM port used by the Caller ID device

5) Click on OK on the screen for port settings

To test your MODEM, do the following:

1. Type the string ATZ, (OK should appear on the screen)

2. Enter the Caller ID string to be tested, (AT#CID=1 for most modems)

3. If OK results, continue; If ERROR results the modem may not support Caller ID; try a different setup string

4. Have someone call you and watch the terminal screen

5. If Caller ID is working, you will see the word RING, followed by one or more additional data lines. The word RING will then continue to appear for each incoming ring.

6. If Caller ID is not working, you will only see the word RING for each incoming ring. If this is the case try another setup string and go back to step two.

The most common result, when Caller ID data works, is the following:

RING DATE = xxxxx TIME = xxxx NMBR = xxxxxxxxx NAME = xxxxxxxx RING RING ...

There are other formats as well. The key point is that other data generally appears between the first and second rings.

Some telephone companies, especially in Canada, ship Caller ID data in different formats. If you see a format different from the above, send us the data and information via E-Mail at support@mawnet.com. We see a new format about once a month, and can usually make a minor software adjustment to handle the new case.

How to Configure an ISDN "modem" with MsgServer

MsgServer can also work with ISDN modems as long as they have a TAPI interface.

Some of the ISDN modems are not TAPI compliant, but CAPI (Common ISDN API) compliant. This is not the same and they will not function under MsgServer.

If your ISDN modem driver has setup options, be sure the following choices are enabled:

- Incoming calls are tracked using Dial-Up-Networking
- Voice over data is enabled

Using this setup, most ISDN modems will work correctly. Calls on both channels will be reported on line 1 (as if they came in on channel A).

Outbound DialOut calls will generally go out on channel B.

For example, the US Robotics 128K internal ISDN device will work with these settings and provide Caller ID number information (no name) for each incoming call on either channel.

DDE error

When you receive a DDE error during the execution of a script that uses DDE to access an external application (IE Excel or MsAccess), you may have forgotten to start the external application and leave it open.

MAPI32 error

If you receive an error similar to "MAPI32.DLL not found or corrupt", then there is a version incompatibility between the currently installed MAPI mail engine. Please go to the command prompt and run the file Fixmapi.exe.

The Fixmapi.exe tool is included with Internet Explorer 5 to detect and aid in resolving conflicts with Messaging Application Programming Interface (MAPI) files that may affect your ability to send and receive mail and faxes from other programs. For more information about Fixmapi.exe please refer to the Microsoft knowledge base at article http://support.microsoft.com/default.aspx?scid=KB;en-us;q228457