

**HERMES®**

# **Remote Data Transfer**

**Version 2.00**

**BHKW-Modul JMS XXX GS**  
**Standard**

**J**

Module no.:  
Engine no.:  
2003-03



***GE Jenbacher***



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## 1. General

**HERMES** is the remote data transfer program for DIA.NE XT / WIN. It provides both customers and GE Jenbacher service engineers with a powerful tool for the remote control and maintenance of GE Jenbacher engines and plants. When developing the program, the main design prerequisite was that HERMES should comply with all functionalities of DIA.NE XT / WIN, the leading engine management system on the gas engine market. Thanks to **HERMES** all on-site functionalities can now also be accessed through remote control. Apart from that, **DIA.NE remote message control (RMC)** enables the automated transmission of messages and data to RDT (Remote Data Transmission) control centres. The concept ensures that the hierarchical information compression approach upon which DIA.NE XT / WIN is based, will be consistently followed in accordance with the "automation pyramid".

**HERMES** therefore consists of:

### 2 applications

- DIA.NE WIN
- DIA.NE RMC (remote message control)

### 3 connection options

- Modem (analogue, ISDN, GSM)
- Network (LAN)
- Internet

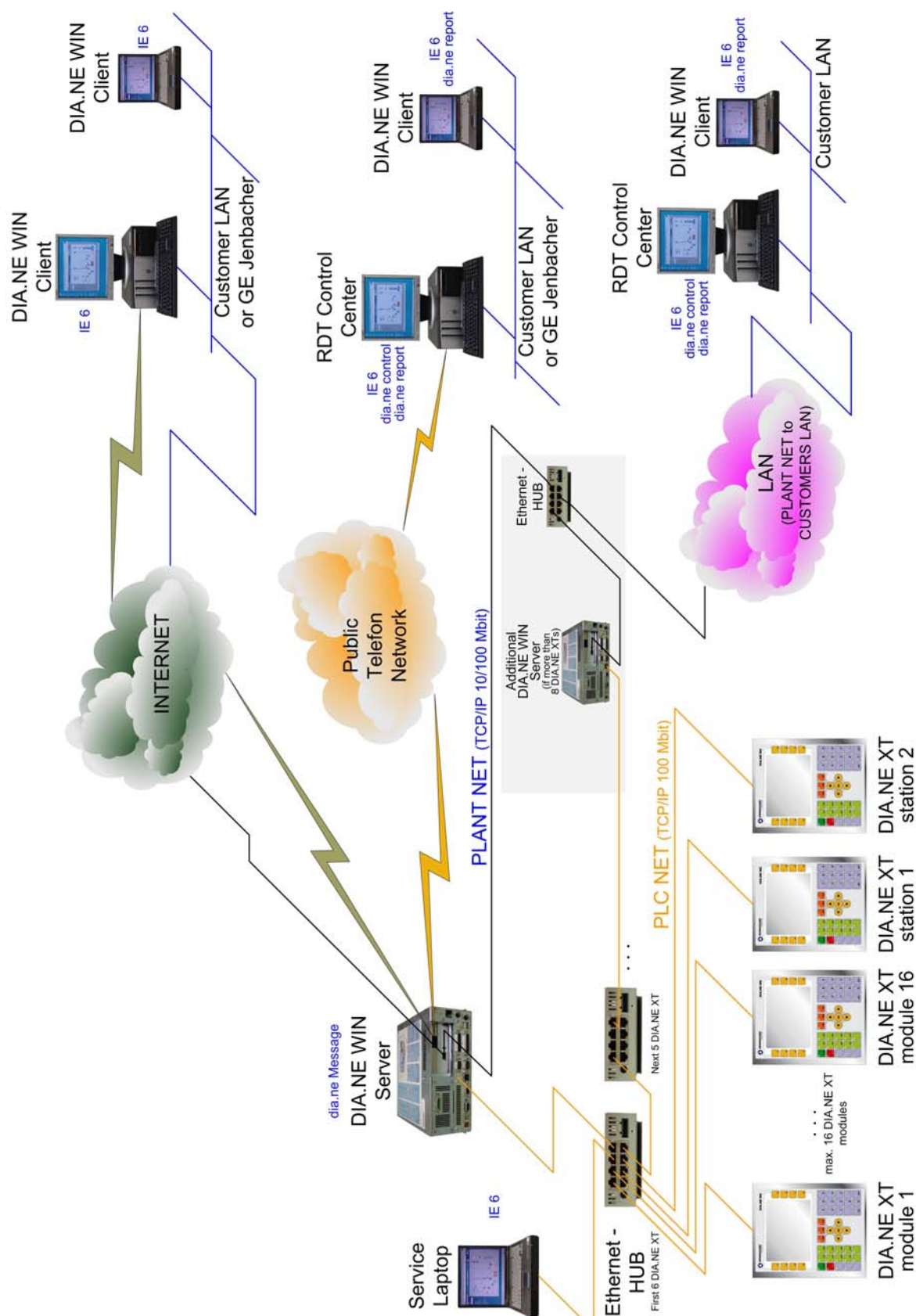
which can be supplied in any combination customers may require.  
However, at least 1 connection option and 1 application must be ordered.

### 1.1 Construction

Each engine (module) is provided with a powerful control and visualisation unit (DIA.NE XT), which is responsible for the direct control of the engine. All modules are linked through a network connection using 100BaseT Ethernet. Up to 16 modules (+A1 through +A16) can be linked to a DIA.NE WIN server (+Z1) via this network. Any number of clients (DIA.NE WIN client, RDT control centre – but only up to a maximum of 5 clients at the same time) can communicate with this computer, which is usually not equipped with a display, via various connections. If required, a station control unit for the entire plant can be integrated into the network.

The following illustration shows the configuration.

The Internet range is shown in simplified form. The exact diagram is at the end of the document. For more detailed information, please contact the GE Jenbacher Competence Centre.



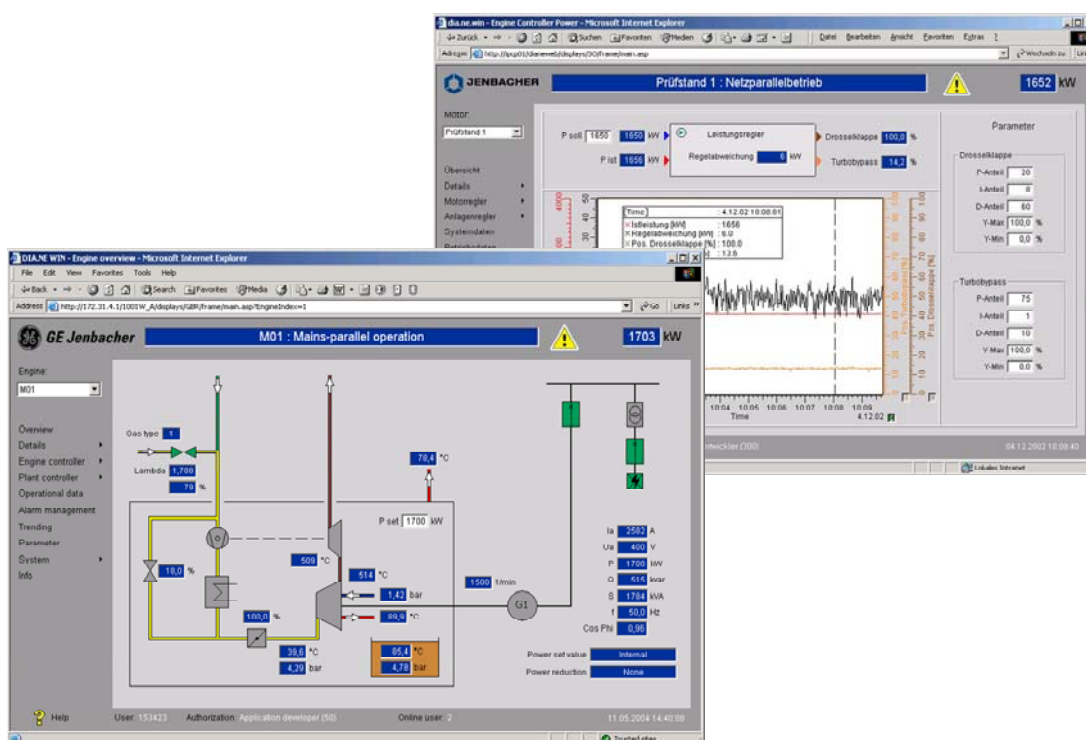
## 2. Applications

### 2.1 Remote control (operating and monitoring) with DIA.NE WIN

The plant is remotely operated by a web-based application (DIA.NE WIN).

A separate set of online documentation has been written for DIA.NE WIN, describing both the operation and the installation of the DIA.NE WIN client.

The configuration of the network connection between the DIA.NE WIN client and the DIA.NE WIN server via the various connection options (modem, LAN, Internet) is described in the section containing the **Installation instructions – Configuration instructions**.



### 2.2 Automatic data and message transmission through DIA.NE remote message control

The **DIA.NE RMC** software package contains an automated facility for transmitting data and messages from DIA.NE WIN servers to RDT control centres and forwards them by fax, e-mail and SMS (via an e-mail SMS gateway). The messages and data stored in a RDT control centre can be randomly accessed for processing by any workstation connected to this unit via a LAN.

In line with the tasks described above, the DIA.NE RMC software package is divided into the following three programs:

#### DIA.NE message

Once classified, the data on the individual modules generated in DIA.NE XT are transmitted to one or more RDT control centres.

**DIA.NE control**

In the RDT control centre all incoming messages are monitored and, after again being classified, they are forwarded to an external communication participant.

**DIA.NE report**

The received data can also be accessed (View, Print) by all users via a network (LAN) connected to the RDT control centre.

In a RDT control centre, standard modem/LAN/Internet-equipped PCs are used to connect to any of the **DIA.NE WIN** servers. The service engineers also have the option of forwarding the data and messages to certain fax numbers and/or, using Internet access, to certain e-mail addresses. Messages can also be forwarded to mobile phones and pagers via an e-mail SMS gateway.

**2.3 DIA.NE control**

In the RDT control centres, DIA.NE control takes care of receiving and archiving all incoming messages and data. DIA.NE control also forwards messages and reports via fax and e-mail (incl. SMS for mobile phones and pagers) to notify service staff.

The allocation of DIA.NE WIN servers to the RDT control centres is not pre-configured. In principle, any DIA.NE WIN server can send messages and data to any RDT control centre.

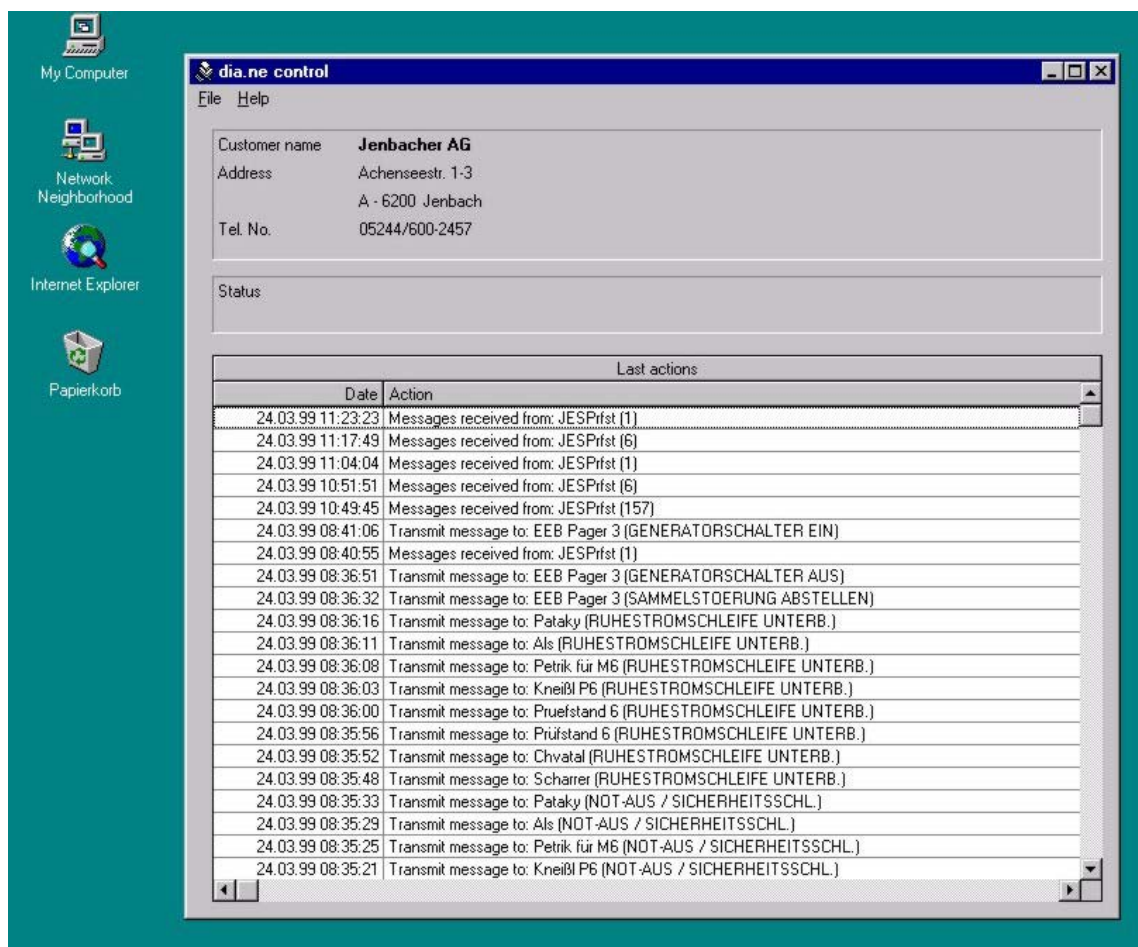
**2.3.1 Receiving messages and data**

**DIA.NE message** places a call to the RDT control centre through a RAS connection object. Using Windows terminology, the RDT control centre represents a Remote Access Server (RAS server). This service is pre-installed in the Windows 2000 and Windows XP operating systems and only has to be configured in accordance with the installation instructions.

**DIA.NE message** thus enters the messages originally generated by DIA.NE XT into a message database on the RDT control centre. This database (MS Access) is used as a basis for data on the functions of the DIA.NE control and DIA.NE report programs.

In addition to the above, DIA.NE control can also receive the trend and logbook files recorded on the DIA.NE WIN server.





### 2.3.2 Notifying participants

In order to make notification as efficient as possible, the messages received from plants are checked on the basis of various criteria before they are forwarded. The following criteria can be set:

- Plant password
- Plant number
- Module
- Message description
- Message number
- Message type
- Time at which message received
- Notification type (e-mail, SMS via e-mail, fax)

The messages are transmitted to the configured participant using the MAPI interface (Microsoft Message Application Program Interface). The communication types available can be configured in the Microsoft mail profile:

- **E-mail:**  
Connection to a mail server or dial-up line to Internet provider
- **Fax :**  
Use of a MAPI-enabled fax server or the Microsoft Fax Service.



- **Voice:**  
Voice participants (and/or pagers) can be notified by selecting the fax function (without transmitting data)
- **SMS:**  
Messages can be forwarded to pagers and mobile phones through the e-mail SMS gateway. Gateway services are provided by various mobile radio telephone suppliers or commercial service providers.

**The messages are generated in two different types:**

- **Short (for SMS):**  
variable amount of message information
- **Long (for e-mail and fax):**  
all message information

### 2.3.3 Main screen

Following the call by DIA.NE control, the main screen is displayed. It shows the configured customer data ("Customer name", "Address" and "Tel. No.") and the current status of the program. In this status field, all actions executed by the program at the time are shown, e.g. reading in transmitted messages, notifying participants etc.

#### Last actions

The *Last actions* table shows the activities of DIA.NE control.

The table items are always arranged in reverse chronological order. The most recent entries can be found at the top of the table. The table is automatically updated.

The *Main screen* contains two menu commands, i.e. *File* to access the other menus and *Help* to access the online help.

### 2.3.4 File menu

#### 2.3.4.1 Caller

This table shows which DIA.NE WIN servers (DIA.NE message) have called this RDT control centre and also displays the connection control status.

When a connection between a new DIA.NE WIN server and the RDT control centre is established for the first time, a new item is entered into this table containing the plant data.

#### Plant

Name of the plant whose DIA.NE WIN server has called.

#### Plant No.

Plant number of the caller.

#### Location

Contents of the DIA.NE message address field.

#### Last call

Date and time of last call during which messages were saved.

**Last message matching**

Date and time of last call during which "Non-Critical Messages" were transmitted (because of manual or automatic database matching by DIA.NE message).

**Last trend file matching**

Date and time of last call during which trend files were transmitted.

**Last report matching**

Date and time of last call during which report files were transmitted.

**Conn. monitoring**

If this check box is enabled, the entire line is displayed in red whenever connection monitoring is selected. This will typically be the case if more than 24 hours have passed between the current date and the "Last call" date.

In that case, the *Connection monitoring* function in DIA.NE message should be enabled for this RDT control centre (see DIA.NE message documentation).

**2.3.4.2 Messages to be transmitted**

This table contains all the messages which have not yet been used to notify participants.

In the table, certain messages can be excluded from notification by enabling the *Already transmitted* check box. The *Delay* check box enables temporary delay of notification for specific messages.

**Delay notification of participants**

Enabling this check box will delay all notification of participants.

**2.3.4.3 Export data**

DIA.NE control continuously receives messages from the DIA.NE WIN servers and stores these in the message database. This will increase the size of the database continuously, thus possibly adversely affecting the access speed in the longer term. If so desired, the user of the RDT control centre can store the increasing amount of data outside the current database.

To relocate the message data, the *Export data* dialogue box should be opened.

**Database**

Refers to current message database file.

**Oldest entry**

Date and time of oldest entry in this database.

**Most recent entry**

Date and time of most recent entry in this database.

**Number of entries**

The total number of entries in the message database.

The following three steps can be taken:

- *Export to database:* The messages are exported to another Microsoft Access database in accordance with the "Export from date" and "Export to date" specified. If the destination database is not yet

available, it will be created after the user has been prompted (in conformity with file path and name in the text field concerned). If the database already exists, the messages to be exported will be added to it.

Exporting the messages will not erase the contents of the message database!

- **Delete:** The messages will be permanently deleted from the message database (for example, following a prior export of data).
- **Compact Database:** Manually compresses the database.  
All database clients (e.g. DIA.NE report) must be closed first.

This action is executed after clicking the OK button and acknowledging the warning.

The Cancel button closes the whole dialogue box again.

#### 2.3.4.4 Message log book

This menu command is used to view and delete the DIA.NE control log book.

This log book contains DIA.NE control system entries.

#### 2.3.4.5 Configuration

The DIA.NE control configuration window contains the following tabs:

##### 2.3.4.5.1 RDT control centre

The customer data ("Customer name", "Address", "Tel. No.") of the RDT control centre are entered in this tab.

##### Message protocols

These settings enable automatic logging of all messages received in the last 24 hours. This will take place daily at the pre-set time (e.g. "16:00") on the pre-selected printer. The text in the *Free text for automatic protocols* field will be printed in the heading of the message protocol. The printout contains all message information. Printout format: A4, landscape.

##### Language\*

This field is used to select the language in which the message is to be printed (D, F, I, GB, etc.). This setting will not affect the communication language setting.

##### Post office profile\*

The profile name should be entered in this field of the Microsoft mail profile which is to be used for communication. The profile name can be found in the *Mail* entry in *Control Panel*.

##### Tip

**If Microsoft Outlook Express is used for sending messages (standard e-mail program), the entry in Post office profile is irrelevant.**

##### 2.3.4.5.2 Standard messages

This tab contains the DIA.NE XT / WIN standard messages.

The entries in the table can be modified.

---

\* Mandatory information!

The data in the table are set-up and maintained by GE Jenbacher. In combination with the *Customer-specific messages* table, DIA.NE control adds a language-dependent text to the message numbers transmitted by the DIA.NE WIN server (DIA.NE message).

**Msg. No.**

Unique four-digit message number

**Language**

Language abbreviation (D, F, I, UK, etc.)

**Msg. Type**

Message type to which this message corresponds

**Description**

Text corresponding to this message number.

**2.3.4.5.3 Customer specific Messages**

The table contains customer-specific deviations from the standard message table. These deviations can arise if certain customers (plants, modules) have allocated an entirely different meaning to a certain message number as its standard meaning (typical cause of backup failures). In addition to the fields "Msg. No.", "Language", "Msg. Type" and "Description" as already contained in the *Standard messages* table, two additional fields are required for unique allocation to a module.

**Plant**

Number of the plant to which the exception applies.

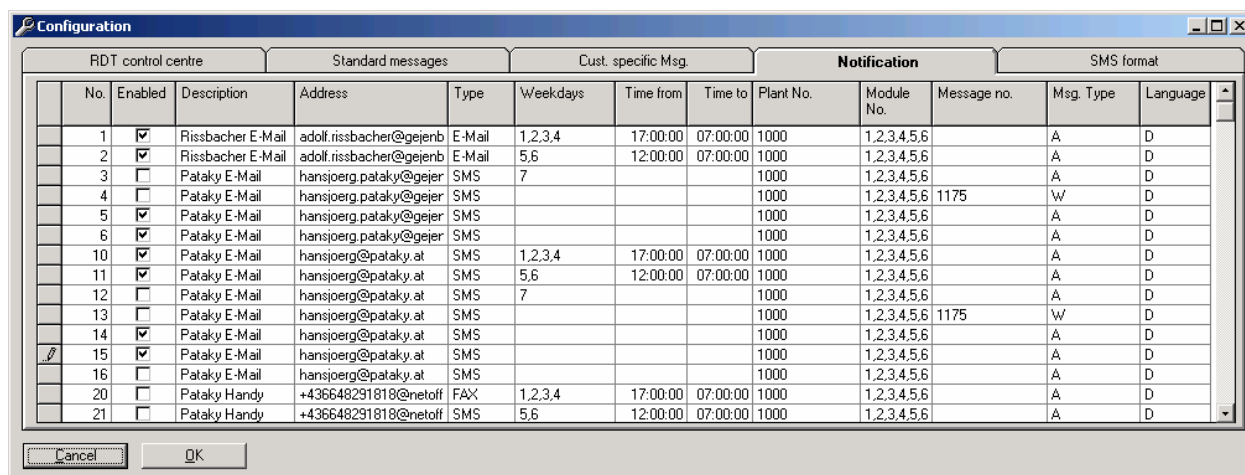
**Module**

Number of the module to which the exception applies.

If the plant or module field is left blank, the exception applies to all plants and/or modules.

**2.3.4.5.4 Notification**

Using **DIA.NE control** it is possible to inform the participants of any messages received. The participants to be notified are configured in this tab.



No.	Enabled	Description	Address	Type	Weekdays	Time from	Time to	Plant No.	Module No.	Message no.	Msg. Type	Language
1	<input checked="" type="checkbox"/>	Rissbacher E-Mail	adolf.rissbacher@gejenb	E-Mail	1,2,3,4	17:00:00	07:00:00	1000	1,2,3,4,5,6		A	D
2	<input checked="" type="checkbox"/>	Rissbacher E-Mail	adolf.rissbacher@gejenb	E-Mail	5,6	12:00:00	07:00:00	1000	1,2,3,4,5,6		A	D
3	<input checked="" type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky@gejer	SMS	7			1000	1,2,3,4,5,6		A	D
4	<input type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky@gejer	SMS				1000	1,2,3,4,5,6	1175	W	D
5	<input checked="" type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky@gejer	SMS				1000	1,2,3,4,5,6		A	D
6	<input checked="" type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky@gejer	SMS				1000	1,2,3,4,5,6		A	D
10	<input checked="" type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky.at	SMS	1,2,3,4	17:00:00	07:00:00	1000	1,2,3,4,5,6		A	D
11	<input checked="" type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky.at	SMS	5,6	12:00:00	07:00:00	1000	1,2,3,4,5,6		A	D
12	<input type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky.at	SMS	7			1000	1,2,3,4,5,6		A	D
13	<input type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky.at	SMS				1000	1,2,3,4,5,6	1175	W	D
14	<input checked="" type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky.at	SMS				1000	1,2,3,4,5,6		A	D
15	<input checked="" type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky.at	SMS				1000	1,2,3,4,5,6		A	D
16	<input type="checkbox"/>	Pataky E-Mail	hansjoerg.pataky.at	SMS				1000	1,2,3,4,5,6		A	D
20	<input type="checkbox"/>	Pataky Handy	+436648291818@netoff	FAX	1,2,3,4	17:00:00	07:00:00	1000	1,2,3,4,5,6		A	D
21	<input type="checkbox"/>	Pataky Handy	+436648291818@netoff	SMS	5,6	12:00:00	07:00:00	1000	1,2,3,4,5,6		A	D

Keyword: **Standard**

Unit no.: **J**

Module no.:

Module type: **JMS XXX GS**

Version:

Engine no.:

Issued: TEE/Brunner, Überegger  
Hermes 2 00\_EN.doc

Checked: **Engineering**  
Index: Version 2.00

Date: **2004-08**  
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**No.\***

Unique, freely selectable identification number.

**Enabled**

Enabled/Disabled communication participant

**Description\***

Freely selectable description of the participant to be notified.

**Address\***

E-mail or fax address of the participant to be notified (e-mail address or name of address book entry).

**Type\***

There are four communication types:

- **SMS** (e-mail to Internet SMS Gateway)  
Format: All message information can be freely configured and does not contain any special characters (see section 3.5.5).
- **E-mail**: All available message information is transmitted. The message is a text file. The lines are followed by CR+LF.
- **FAX**  
Format: All available message information is transmitted. The message is a text file. The lines are followed by CR+LF.
- **Voice**  
Nothing more than a call is placed to the participants. If no contact can be established, no failure message is transmitted!

All other communication criteria are AND coupled (i.e. all conditions must be met). If a field is left blank, no check will be made for this criterion.

**Weekdays**

This field is used to indicate the weekdays on which the participant notification mode should be active (1=Monday, 2=Tuesday etc.). If you want to enter several days (e.g. "1, 2, 7"), these should be separated by commas. If nothing is entered, there is no time limit.

**Time from, Time to**

Used to enter the time range, during which the participant notification mode should be active. If nothing is entered, there is no time limit.

**Plant No.**

If the plant number of the message received matches the plant number configured here, the message is forwarded.

**Module No.**

If the module number of the message received matches the module number configured here, the message is forwarded. If you want to enter several modules (e.g. "1, 3, 5"), these should be separated by commas.

---

\* Mandatory information!

**Message No.**

Used to enter the message number at which this participant should be notified.

**Msg. Type**

If the message type of the message received corresponds to the message type configured here, the message is forwarded. If you want to enter several types (e.g. "A, W"), these should be separated by commas.

**Language\***

Used to enter the language (as country identification code, see section 3.5.1) in which the participant should be notified.

**2.3.4.5.5 SMS format**

This tab is used to configure the SMS format for the communication.

The information to be transmitted may consist of the following database entries:

- Date & time of the message (from AMM)
- Plant
- Module number
- Message type
- Message text
- Plant number
- Module name
- Message number
- Date and time of message (entry in message database)
- Free text

The contents of the "Free text" field consists of the "Subject" of the SMS message concerned.

**2.3.4.6 Password protection**

DIA.NE control is password protected against unauthorised access to its configuration.

**Logon:**

In order to be able to modify the configuration, the user has to log on. During the logon dialogue, the password must be entered.

**Logoff:**

Having modified the configuration, it is recommended that the user log off. This will protect the configuration from unauthorised access by third parties.

Because the procedure for closing DIA.NE control is also password protected, the users have to log on before they can close the program. This is not required when closing Windows.

During the password entry dialogue, the user has the option of changing the password.

**Caution:** Following installation, the default password in the configuration is "6020". This password should be changed immediately when running the program for the first time.

---

\* Mandatory information!

## 2.3.5 Help menu

### 2.3.5.1 Help

If you have any questions about DIA.NE control, you have an extensive Windows-type help function at your disposal in which all program elements are described in detail.

### 2.3.5.2 About DIA.NE control

This dialogue box will give you the copyright information and the program version.

## 2.4 DIA.NE report

DIA.NE report can be used to display and print the messages received in a RDT control centre on any number of processing stations (standard workstations). To that end, the workstations must be connected to the RDT control centre via a LAN. Both the language and the plants selected can be pre-set for the message display.

In order to automate protocolling, all plant-specific messages received can be printed on a daily basis. Using DIA.NE report, manually compiled protocols can be printed at any time.

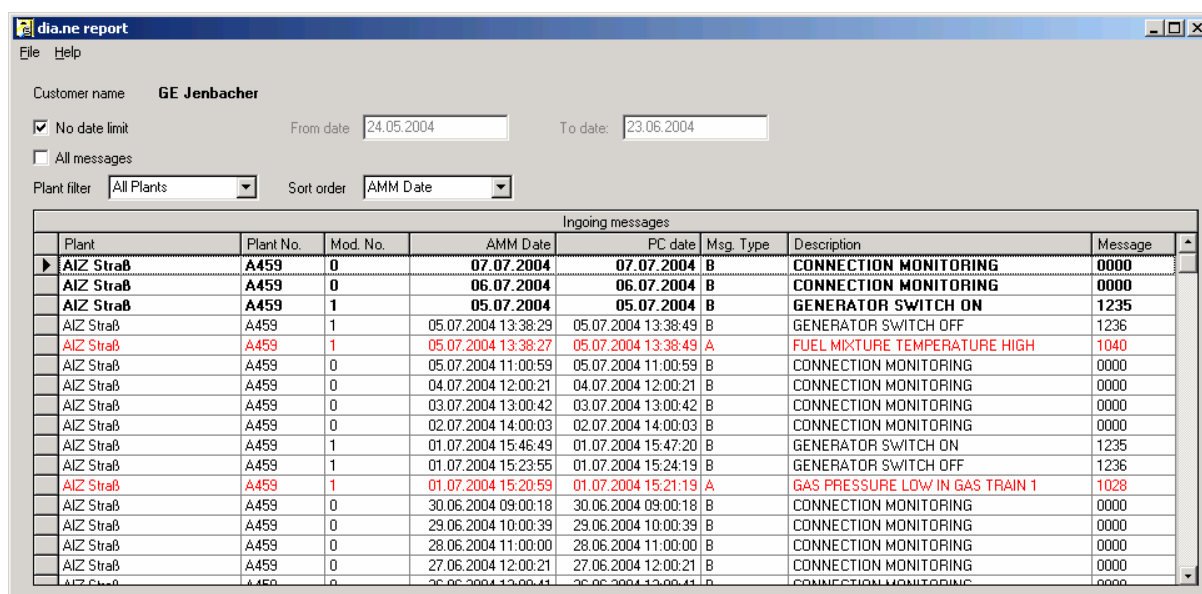
### 2.4.1 Using the multi-user environment

To enable DIA.NE report to be individually configured on several workstations, you should add the hash mark (#) and the workstation number to the DIA.NE report command line.

Example: for station 1: C:\Program Files\diane\DianeReport.exe #1  
 for station 2: C:\Program Files\diane\DianeReport.exe #2  
 for station 3: C:\Program Files\diane\DianeReport.exe #3  
 . . .

### 2.4.2 Main screen

Following the call by DIA.NE report, the main screen is displayed. This screen contains the configured customer data ("Customer name"), filter criteria and table view of the message data.



Plant	Plant No.	Mod. No.	AMM Date	PC date	Msg. Type	Description	Message
AlZ Straß	A459	0	07.07.2004	07.07.2004	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	06.07.2004	06.07.2004	B	CONNECTION MONITORING	0000
AlZ Straß	A459	1	05.07.2004	05.07.2004	B	GENERATOR SWITCH ON	1235
AlZ Straß	A459	1	05.07.2004 13:38:29	05.07.2004 13:38:49	B	GENERATOR SWITCH OFF	1236
AlZ Straß	A459	1	05.07.2004 13:38:27	05.07.2004 13:38:49	A	FUEL MIXTURE TEMPERATURE HIGH	1040
AlZ Straß	A459	0	05.07.2004 11:00:59	05.07.2004 11:00:59	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	04.07.2004 12:00:21	04.07.2004 12:00:21	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	03.07.2004 13:00:42	03.07.2004 13:00:42	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	02.07.2004 14:00:03	02.07.2004 14:00:03	B	CONNECTION MONITORING	0000
AlZ Straß	A459	1	01.07.2004 15:46:49	01.07.2004 15:47:20	B	GENERATOR SWITCH ON	1235
AlZ Straß	A459	1	01.07.2004 15:23:55	01.07.2004 15:24:19	B	GENERATOR SWITCH OFF	1236
AlZ Straß	A459	1	01.07.2004 15:20:59	01.07.2004 15:21:19	A	GAS PRESSURE LOW IN GAS TRAIN 1	1028
AlZ Straß	A459	0	30.06.2004 09:00:18	30.06.2004 09:00:18	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	29.06.2004 10:00:39	29.06.2004 10:00:39	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	28.06.2004 11:00:00	28.06.2004 11:00:00	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	27.06.2004 12:00:21	27.06.2004 12:00:21	B	CONNECTION MONITORING	0000
AlZ Straß	A459	0	26.06.2004 13:00:41	26.06.2004 13:00:41	B	CONNECTION MONITORING	0000



### Received messages

The *Received messages* table shows the messages that have been received from various DIA.NE WIN servers (DIA.NE message) in the RDT control centre's message database.

The table items are arranged in reverse chronological order. The order can be set using the *Sort order* field. The most recent entries can be found at the top of the table. The table is automatically updated and/or can be manually updated by pressing function key "F5" or choosing *Refresh display* from the *File* menu.

### Resetting

New entries are displayed in **bold** type. Double-clicking on a line or pressing the *Enter* key will "quit" this message changing it to non-bold type. At the same time, the *Quit* check box is enabled. Once you have enabled "Quit", you cannot disable it.

### From date / To date

If so desired, the messages displayed can be chronologically filtered using the criteria *From date* and *To date*. This filter uses the AMM date on the message.

### No date limit

Clicking this box will cancel the date limit.

### All messages

DIA.NE report distinguishes between "Critical Messages" which are automatically transmitted to the RDT control centres on the basis of a pre-set condition in DIA.NE message, and "Non-Critical Messages" which are transmitted to the RDT control centre based on automatic or manual database matching.

In general, DIA.NE report only displays "Critical Messages" in the *Received messages* table. If the *All messages* check box is enabled, the "Non-critical messages" are also displayed.

### Plant filter

Selecting a specific plant reduces the message display to the selected plant.

### Sort order

Select this to change the order in which messages are sorted.

AMM Date: Sorting based on the AMM date.

Chronological: Sorting based order in which messages (Nos.) are received.

The *Main screen* contains two menu commands, i.e. *File* to access the other windows and *Help* to access the online help.

## 2.4.3 File menu

### 2.4.3.1 Refresh display

This menu command is used to manually update the main screen display.

### 2.4.3.2 Print

This menu command is used to print all messages displayed on the main screen.

The *Print options* dialogue box contains the following tabs:

### Output

This tab is used to select the output type.

- *Printer:*  
The *Printer ...* item is used to select the desired printer.
- *File:*  
The print output is converted into an ASCII file. The *File ...* item is used to select the desired path and file name.
- *Print lines:*  
This item is used to print the entire contents of the *Received messages* table, all the messages selected or just the current message. The selection is made on the left side of the *Received messages* table.

### *Print to preview window first:*

If this check box is enabled, the item is displayed in the print preview window first before actually being sent to the printer.

### Print options

- *Range:*  
This option makes it possible to limit the number of pages to be printed.
- *Frame:*  
This option makes it possible to adjust the frame settings for the print layout.

### *Row multiple line:*

This option enables a hard return to be entered in the output fields.

### Columns

This tab allows you to select the message information to be used when printing.

### Fonts

This item is used to select the font for headers and footers in order to modify the print layout.

Click the *Print* button to start printing.

If the *Print to preview window first* check box is enabled, a print preview window is opened before printing.

## 2.4.3.3 Caller

This table shows which DIA.NE WIN servers (**DIA.NE message**) have called this RDT control centre and also displays the connection control status.

When a connection between a new **DIA.NE WIN** server and the RDT control centre is established for the first time, a new item is entered into this table containing the plant data.

### Plant

Name of the plant whose DIA.NE WIN server has called.

### Plant No.

Plant number of the caller.

**Location**

Contents of the DIA.NE message address field.

**Last call**

Date and time of last call during which messages were saved.

**Last message matching**

Date and time of last call during which "Non-Critical Messages" were transmitted (because of manual or automatic database matching by DIA.NE message).

**Last trend file matching**

Date and time of last call during which trend files were transmitted.

**Last report matching**

Date and time of last call during which report files were transmitted.

**Conn. Monitoring**

If this check box is enabled, the entire line is displayed in red whenever connection monitoring is selected. This will typically be the case if more than 24 hours have passed between the current date and the "Last call" date.

In that case, the *Connection monitoring* function in DIA.NE message should be activated for this RDT control centre (see DIA.NE message documentation).

**2.4.3.4 Configuration**

Because it is possible that a number of computers will be accessing the same message database using DIA.NE report, the DIA.NE report configurations for every workstation are stored separately. This enables a user-defined DIA.NE report environment for every workstation.

**2.4.3.4.1 General**
**Number of days displayed\***

This field limits the number of messages shown in the *Received messages* table to a maximum number of days.

**UNC path to database\***

If DIA.NE report is to display the contents of a message database, its path (on the RDT control centre) should be entered here.

**Database local to computer:**

"<Drive>:\<DIA.NE RMC program directory >" e.g. C:\Program Files\diane

**Database on network computer:**

„\\<Computer name>\<Share>“ e.g. \\RDTCentre\_1\diane

**Message protocols**

These settings enable automatic logging of all messages received in the last 24 hours. This will take place daily at the pre-set time (e.g. "16:00") on the pre-selected printer. The text in the *Free text for automatic protocols* field will be printed in the heading of the message protocol. The printout contains all message information. Printout format: A4, landscape.

\* Mandatory information!

### Language\*

This field is used to select the language used for displaying or printing a message (D, F, I, GB, etc.).

#### 2.4.3.4.2 Display

##### Plants displayed

This table is used to enter the plants to be displayed. If the table is left empty, no messages will be displayed.

The plants to be displayed can be selected from the *Plant* combo box. This makes all known plants (plants which are actually connected) available.

##### Visible fields

In these fields, the message information to be displayed in the *Received messages* table of the main screen can be selected. Information not visible in the main screen cannot be printed.

#### 2.4.3.5 Help menu

#### 2.4.3.6 Help

If you have any questions about DIA.NE report, you have an extensive Windows-type help function at your disposal in which all program elements are described in detail.

#### 2.4.3.7 About DIA.NE report

This dialogue box gives you the copyright information and the program version.

### 2.5 DIA.NE message

DIA.NE message is installed on the plant's DIA.NE WIN servers. This program transmits messages and data to DIA.NE control in the RDT control centres.

#### 2.5.1 Transmission of messages

All the messages generated by the module are logged by a program on the DIA.NE WIN server (alarm logger). These operational messages (B), warnings (W) and trip messages (A) are written to files and further processed by DIA.NE message.

In order to transmit the messages more efficiently, the messages on the modules are checked first against various criteria before being transmitted.

The following criteria can be set:

- Module No. / Module name
- Message No. / Description
- Message type
- Weekdays
- Time of appearance

If a message is classified as being a "Critical message", the plant name, plant number, module identification and module number are added to it, after which the message is automatically transmitted to the RDT control centres configured.

**TIP**

**Changing date and time on the modules and the DIA.NE WIN server can result in duplicated transmissions or 'gaps' in the database of DIA.NE control.**

**2.5.2 Failed connection to modules**

If the messages logged by DIA.NE message cannot be loaded, DIA.NE message generates a special warning message.

The warning message contains the following items:

- Description: Module inaccessible
- Message No.: 0001
- Message type: W

**2.5.3 File transmission**

Historical measurement data and logbook data are cyclically logged and stored in files on the DIA.NE WIN servers.

The files stored on the modules can be transmitted both manually and automatically to any RDT control centre by DIA.NE message.

**2.5.4 Main screen**

Date	Action
07.07.2004 13:46:14	Automatic Messages to RDT control centre failed: JAG VSC Establishing RAS
07.07.2004 13:46:08	Operating message 0000 registered.
06.06.2003 12:45:37	New messages read. (49) JES_02
06.06.2003 12:44:43	Operating message 0000 registered.
06.06.2003 12:43:44	Automatic Messages to RDT control centre failed: JAG VSC RAS profile con
05.06.2003 08:07:31	New messages read. (27) JES_02
05.06.2003 08:05:27	Operating message 0000 registered.
05.06.2003 08:04:40	Automatic Messages to RDT control centre failed: JAG VSC Closing RAS-Co
30.05.2003 11:35:55	Operating message 0000 registered.

When DIA.NE message starts up, the main screen is displayed. It shows the configured plant data ("Customer name", "Address", "Tel. No.", "Plant" and "Plant number") and the current status of the program. In this status field, all actions executed by the program at the time are shown, e.g. checking the log files, transmitting messages etc.

### **Last actions**

The *Last actions* table shows the activities of DIA.NE message.

The table items are arranged in reverse chronological order. The most recent entries can be found at the top of the table. The table is automatically updated.

The *Main screen* contains two menu commands, i.e. *File* to access the other windows and *Help* to access the online help.

## **2.5.5 File menu**

### **2.5.5.1 Database matching with RDT control centre**

Database matching with RDT control centres is used to transmit all messages which have not been configured for auto alarm activation ("Non-critical messages"). It can also be used to transmit trend and logbook files. Besides manual data matching, it is also possible to configure automatic data matching.

A combo box will appear from which the desired RDT control centre must be selected. Data matching can be limited by using the *From date* and *To date* text box.

Click the *Select* button to initiate the transfer.

#### **Transmission to the following RDT control centre:**

From the list of all configured RDT control centres, one specific centre can be selected. RDT control centres are defined using the identification and the RAS profile name.

#### **From date / To date:**

The date range for messages yet to be transmitted is automatically entered in these text boxes. If the date range is extended, **DIA.NE message** will read out the required messages from the modules.

Following successful completion of this procedure, data transmission to the RDT control centre is started.

### **2.5.5.2 Message log book**

This menu command is used to view and delete the DIA.NE message log book. This log book contains DIA.NE control system entries.

### **2.5.5.3 Configuration**

The DIA.NE message configuration window contains the following tabs:

#### **2.5.5.4 Plant data**

This item is used to enter the plant data ("Customer name", "Address", "Tel. No.", "Plant" and "Plant number") of the DIA.NE WIN server ("Customer name" and "Plant number" are mandatory!).

#### **Ring buffer capacity**

This value indicates the length of time that "Non-critical messages" are to remain stored in the DIA.NE message database.

**Scan interval for modules**

The scan interval is used to determine the frequency with which DIA.NE message searches for new messages. Zero means as quickly as possible.

**Number of messages displayed**

The value entered indicates the number of items in the *Last actions* table. A maximum of 200 items can be displayed. If the pre-set number is exceeded, the oldest item is overwritten again.

**Language**

This field is used to select the language in which message text is displayed (D, F, I, GB, etc.).

**Closing Interval**
**Tip**

***This function only applies to modem servers with DIA.NE plants and must not be activated on DIA.NE WIN servers!!!***

Activating this field and indicating a time shuts down the program in a controlled manner. Together with the *Power off* program installed on the modem server, this achieves a controlled re-boot of the modem server.

In the *Days* field, the shutdown procedure can be limited to specific days (1=Monday, 2=Tuesday, etc.). If you want to enter several days (e.g. "1, 2, 7"), these should be separated by commas. If no specific day has been entered, there is no limitation (= every day).

**2.5.5.5 Modules**

This item is used to enter the plant modules. The following fields can be filled for each of the modules:

**Scan\***

Clicking on this field will activate or deactivate the search for new messages per module.

**Description\***

The engines are identified as follows:

Module M01 = JES\_01

Module M02 = JES\_02

etc.

**Module\***

The module number corresponds to the engine number.

**UNC path\***

The UNC path indicates the directory structure through which DIA.NE message can reach the log files

e.g. DIA.NE WIN server for DIA.NE XT / WIN plants: "C:\log\M01"

Modem server for DIA.NE plants: \\jes\_01\c-drive\log

**2.5.5.6 RDT control centres**

This tab is used to enter all RDT control centres to be notified by DIA.NE message.

---

\* Mandatory information!



**No.**

The program will issue a running number.

**Row**

This item is used to indicate the sequence in which the RDT control centres are to be notified.

**Backup only**

If one of the RDT control centres cannot be reached, another RDT control centre (backup) to be notified can be defined here.

**Description\***

Free description of the RDT control centre.

**Enabled\***

If one of the RDT control centres cannot be reached temporarily, this item is used to deactivate the release. All messages received in the meantime will be held back and will be transmitted after the release is reactivated.

**RAS profile**

Name of the RAS connection object through which the connection to the RDT control centre should be established (Control Panel - Settings - Network and Dial-up connections). If the RDT control centre is directly coupled to the DIA.NE WIN server via a LAN (LAN connection option), this field must be left blank.

**Conn. Monitoring**

If the connection control is activated, a special operational message is transmitted to the RDT control centre (watchdog). This message is transmitted when no message has been transmitted for the last 23 hours.

The operational message contains the following items:

- Description: Connection Monitoring
- Message No.: 0000
- Message type: B
- Module number: 0

**UNC path\***

Path on the RDT control centre where the message database is stored.

This setting must match the setting on the RDT control centre.

Default: "\\<Workstation name>\<Share>" e.g. \\Computer\_1\diane

**Last status**

Last status of the DIA.NE WIN server (communication with RDT control centre successful or unsuccessful). The status is automatically updated when the window is opened.

**Weekdays**

Used to indicate the weekdays on which messages should be transmitted to a RDT control centre (1=Monday, 2=Tuesday etc.). If nothing is entered, there is no time limit. If you want to enter several days (e.g. "1, 2, 7"), these should be separated by commas.

**Time from, Time to**

Time within which the messages received should be transmitted to a RDT control centre. If nothing is entered, there is no time limit. In order to activate a transmission, both a weekday and a time from/to should be entered

**Backup 1**

If it is not possible to transmit any messages, you can specify a backup centre here which is to be notified. The figure indicated under **Number** should be entered (see first column). This backup centre will not be used during manual or automatic data matching.

**Backup 2**

If messages cannot be transmitted to the first backup centre either, a second backup centre can be defined here.

**Data matching - Time**

This field is used to enter the exact time at which the automated data matching with the RDT control centres should be carried out.

**Data matching - Days**

The data matching operation defined under Time can be limited to certain weekdays (1=Monday, 2=Tuesday, etc.). If you want to enter several days (e.g. "1, 2, 7"), these should be separated by commas.

**2.5.5.7 Transmitted message**

This tab is used to enter the criteria for those messages which are to be classified by DIA.NE message as messages to be transmitted ("Critical Messages").

For a functional configuration, at least one module reference ("Description" or "Module number") or one message reference ("Message text", "Message number" or "Message type") must be entered!

**Module No.**

A combo box is used to enter information. Click the drop-down button to select the configured modules from a list (see 3.3.2). If the module number of the received message matches the number entered here, the message is classified as a message to be transmitted ("Critical Message"). If the box is left blank, no check will be made for this criterion (meaning that for all plant modules the corresponding message will be transmitted if the message type and message number match). When the drop-down button is used to make a selection, the module name will be entered into the *Module* field automatically.

**Mod. name**

Name of the module selected in the *Module No.* field.

**Description**

A combo box is used to enter information. Click the drop-down button to select a specific message from the list. The list is in sorted alphabetically. Selecting a text will automatically cause the "Msg. No." and "Msg. Type" to be entered into the corresponding lines.

**Msg. No.**

If the message number matches the number indicated here, the message is classified as a message to be forwarded ("Critical Message"). If the field is left blank, no check will be made for this criterion. A combo box is used to enter information. Click the drop-down button to retrieve a specific message from

the list. The list is sorted numerically. Selecting a text will automatically cause the "Description" and "Msg. Type" to be entered automatically in the corresponding cells.

### Msg. Type

If the message type corresponds to the letters entered here (e.g. A = trip, W = warning, B = operational message), the message is classified as a message to be forwarded ("Critical Message"). If the field is left blank, no check will be made for this criterion. If only the message type is entered without the message number, this means that all messages of this type will be classified as messages to be forwarded. Multiple input in the "A, W" format is valid.

### Weekdays

The message is checked for a weekday. The numbers 1 through 7, representing Monday through Sunday respectively, can be entered (e.g. 1=Monday, 2=Tuesday, etc.) in this field. If the field is left blank, no check will be made for this criterion. If you want to enter several weekdays (e.g. "1, 2, 7"), these should be separated by commas. In order to have the message forwarded, the weekday requirement must be fulfilled.

### Time from, Time to

If the time stamp of the message received falls within the pre-set "Time from / Time to" range, the message is classified as a message to be forwarded ("Critical Message"). If a field is left blank, no check will be made for this criterion. In order to have the message forwarded, the "Time from/Time to" requirement must be fulfilled.

#### 2.5.5.8 Data matching

This tab is used to establish which files are to be transferred in the course of the automatic data matching process.

The following data can be transferred.

- **Messages:** These are all messages which have not yet been transmitted ("Non-Critical Messages").
- **Trends:** These are files that contain historical measurement data. The file name may be freely selected and can contain wildcards (\*, ?) (e.g. \*.mdb).  
The files are stored at the RDT control centre in the directory ..\<Plant number>\<Module no>\LOG.
- **Reports:** These are files that contain log book data. The file name may be freely selected and can contain wildcards (\*, ?) (e.g. \*.xml).  
The files are stored at the RDT control centre in the directory ..\<Plant number>\<Module no>\REP.

RDT Centre No.

If you enter a RDT control centre in this field, the configuration line will be restricted to the specified RDT control centre.

#### 2.5.5.9 Messages registered

This table contains all the messages received from the modules which still have to be transmitted to DIA.NE control.

#### Delay transmission of messages to RDT control centres

Activating this option will stop transmission of all messages to the RDT control centres. All messages received in the meantime will be stored and will be forwarded after the transmission is reactivated.

#### 2.5.5.9.1 Password protection

**DIA.NE control** is password protected to prevent unauthorised access to its configuration.

**Logon:**

In order to be able to modify the configuration, the user has to log on. During the logon dialogue, the password must be entered.

**Logoff:**

Having modified the configuration, it is recommended that the user log off. This will protect the configuration from unauthorised access by third parties.

Because the procedure for closing DIA.NE control is also password protected, the users have to log on before they can close the program. This is not required when closing Windows.

During the password entry dialogue, the user has the option of changing the password.

**Caution:** Following installation, the default password in the configuration is "6020". This password should be changed immediately when running the program for the first time.

## **2.5.6 Help menu**

### **2.5.6.1 Help**

If you have any questions about DIA.NE message, you have an extensive Windows-type help function at your disposal in which all program elements are described in detail.

### **2.5.6.2 About DIA.NE message**

This dialogue box will give you the copyright information and the program version.

## **2.6 Installation instructions – configuration instructions**

This section describes how to configure the network connection between the DIA.NE WIN client and the DIA.NE WIN server to access the DIA.NE WIN application.

It also describes how to install and configure the DIA.NE RMC application on the server and client.

### **2.6.1 Configuring a RDT network connection between a DIA.NE WIN client and server (modem option only)**

A RDT network connection is used to establish a TCP/IP network connection between the DIA.NE WIN client and DIA.NE WIN server through which data are transferred to the DIA.NE WIN application.

**TIP**

**To complete the following steps, users must have LOCAL ADMINISTRATOR RIGHTS!**

**Windows 2000**

- Open the *Network and Dial-up Connections* folder in *Control Panel*
- Select *Make New Connection* and use the wizard to create a new connection
- After the welcome message select *Dial-up to private network* in the *Network Connection Type* dialogue box.

- In the next dialogue box, select the desired modem for incoming calls.
- In the *Phone Number to Dial* dialogue box, type in the telephone number of the desired DIA.NE WIN server.
- In the next dialogue box you can choose whether to allow all users of this computer or only the current user to use the RDT connection.
- In the last dialogue box you can assign a name to the connection.
- Once the connection object has been created, double-click the object to open it.
- In the dialogue box that now appears, click the *Properties* button to go to the properties side of the connection.
- Select the *Options* dialogue box and, in the *Idle time before hanging up* field, set the time after which the RDT connection itself hangs up and no more data should be transported.
- Go to the *Networking* dialogue box and select the *Internet Protocol (TCP/IP)* component.
- Click the *Properties* button to go to the properties side and click the *Advanced...* button to open the advanced settings.
- Uncheck the *Use default gateway on remote network* check box.
- Close all dialogue boxes by clicking *OK*.

### Windows XP

- Open the *Network Connections* folder in *Control Panel*
- Select *Create a new connection* and use the wizard to create a new connection
- After the welcome message select *Connect to the network at my workplace* in the *Network Connection Type* dialogue box.
- In the next dialogue box, select *Dial-up connection* and continue with the wizard.
- Type in the desired name for the connection under *Connection Name*.
- In the *Phone Number to Dial* dialogue box, type in the telephone number of the desired DIA.NE WIN server and click *Finish* in the wizard.
- Once the connection object has been created, double-click the object to open it.
- In the dialogue box that now appears, click the *Properties* button to go to the properties side of the connection.
- Select the *Options* dialogue box and, in the *Idle time before hanging up* field, set the time after which the RDT connection itself hangs up and no more data should be transported.
- Go to the *Networking* dialogue box and select the *Internet Protocol (TCP/IP)* component.
- Click the *Properties* button to go to the properties side and click the *Advanced...* button to open the advanced settings.
- Uncheck the *Use default gateway on remote network* check box.
- Close all dialogue boxes by clicking *OK*.

When you have established the RDT network connection, start the DIA.NE WIN client in accordance with DIA.NE WIN Online Documentation.

When you have finished working on the DIA.NE WIN application, you should disconnect the RDT network connection as soon as possible for cost reasons.

If you have any queries or problems, please contact the GE Jenbacher Competence Centre!

### 2.6.2 Configuring a network connection between a DIA.NE WIN client and server (LAN option only)

A GE Jenbacher service engineer will configure the network connection between the DIA.NE WIN client and the DIA.NE WIN server when the plant is being commissioned.

Information required from the customer (desired configuration):

- IP address of the DIA.NE WIN server (default: 172.31.200.100)
- Subnet mask of the network (default: 255.255.0.0)
- Default Gateway of the network (default: 172.31.1.1)
- IP address of the customer's computer (suggestion: 172.31.1.1 / 255.255.0.0 / 172.31.200.100)

### **2.6.3 Configuring an Internet connection between a DIA.NE WIN client and server (Internet option only)**

If the plant is to have an Internet connection, the DIA.NE WIN client computer must likewise have an Internet connection. This can be either a dial-up or broadband connection (DSL) to the Internet service provider (ISP) or a central Internet access point in any company network.

The Internet access point must provide at least the following services (protocols):

- **http** (web access)
- **HTTPS** (encrypted web access)

The actual configuration of the Internet access must be performed by the customer and cannot be supported by GE Jenbacher because of the wide variety of provider and network configurations.

The GE Jenbacher Competence Centre will be pleased to assist with any general questions on Internet access.

### **2.6.4 Configuring the DIA.NE WIN server**

DIA.NE message is pre-installed as standard on every DIA.NE WIN server.

The program can be configured either by the GE Jenbacher Competence Centre or by the customer.

In order to carry out the configuration at the DIA.NE WIN server, the DIA.NE WIN server must be controlled remotely by remote maintenance software.

#### **2.6.4.1 Remote maintenance of the DIA.NE WIN server**

To configure the DIA.NE WIN server, a network connection (TCP/IP) must be established with the DIA.NE WIN server (via modem, LAN or the Internet).

A VNC Remote Control Session, which is used for the remote control of the DIA.NE WIN server, can be established through this connection.

The VNC program (i.e. the VNC viewer) can be obtained from the manufacturer's website

<http://www.realvnc.org> or from the GE Jenbacher web server

<http://www.jenbacher.com/dianewin/download.htm>.

The VNC software is covered by the GNU General Public Licence and is therefore free of charge.

When the software starts, type in the IP address of the DIA.NE WIN server as the destination and a password. The address will depend on the connection type selected and its configuration.

Default: via modem: 10.200.200.200  
via LAN: 172.31.200.100

The password for the VNC connection must be requested from the GE Jenbacher Competence Centre.

If you have any queries or problems, please contact the GE Jenbacher Competence Centre!

#### 2.6.4.2 Configuring DIA.NE message

- Open the *Configuration* dialogue box
- The *Plant Data* form is displayed.
- Type in the data for the first form (minimum information: Plant, Plant number)
- Go to the *Modules* form
- Activate the desired modules by enabling the *Scan* check box and verify the UNC paths
- Go to the *RDT control centres* form
- Configure the RDT control centres (minimum information: "Row", "Description", "RAS profile" (modem connection only, the field remains blank for network connection!), "UNC path", "User name", "Password", "Enabled" and "Conn. Monitoring")
- Go to the *Transmitted message* form
- Configure the desired messages to be transmitted (minimum information: "Msg. No." or "Msg. Type")
- *Optional:* Go to the *Data matching* form
- *Optional:* Configure the desired data for database matching
- Click the *OK* button to exit the configuration dialogue box
- *If using the modem connection option:* Configure the RDT network (see next point). The connection object must have the same name as specified in the "RAS profile" field in the *RDT control centres* configuration dialogue box.

If you have any queries or problems, please contact the GE Jenbacher Competence Centre!

#### 2.6.4.3 Configuring the RDT network (modem option only)

A RDT network gives a computer access to enabled resources (drives) on a workstation (RDT control centre with DIA.NE control database), even if it is not on the same network. In this case, the workstation you select must be equipped with a modem and configured as a RAS server.

##### Set-up procedure

- Open the *Network and Dial-up Connections* folder in *Control Panel*
  - Select "Dummy" and make a copy of the connection using *Create Copy* in the *File* menu
  - Rename the new object using *Rename* in the *File* menu.
- TIP! The name of the connection object must be identical to the name of the "RAS profile" in the DIA.NE message configuration!**
- To change the connection object to the desired RDT control centre, double-click the object to open it.
  - In the dialogue box that now appears, click the *Properties* button to go to the properties side of the connection.
  - Change the telephone number to the RDT control centre you want to select (*Phone number* field), and if necessary select the modem to be used from the *Connect using* field. (ISDN, GSM, etc.)
  - Confirm the configuration dialogue and click *Cancel* to close the connection object.

#### 2.6.4.4 Configuring the network connection for the RDT control centre (LAN option only)

The configuration of the network connection from the DIA.NE WIN server to the customer's computer (RDT control centre or DIA.NE WIN client) must be carried out by a GE Jenbacher service engineer. This configuration is identical to setting up the network connection to use the DIA.NE WIN client as described in the section on **Configuring a network connection between a DIA.NE WIN client and server (LAN option only)**

Information required from the customer (desired configuration):

- IP address of the DIA.NE WIN server (default: 172.31.200.100)
- Subnet mask of the network (default: 255.255.0.0)
- Default Gateway of the network (default: 172.31.1.1)





- IP address of the customer's computer (suggestion: 172.31.1.1 / 255.255.0.0 / 172.31.200.100)
- **TIP! The IP address of the customer's computer is derived from the UNC path in the DIA.NE message configuration for this RDT control centre: \\<IP Address>\<Share> (e.g. \\172.31.1.1\diane)**

### 2.6.5 Installing/configuring the RDT control centre

**TIP**

**The software can only be installed if the user has LOCAL ADMINISTRATOR RIGHTS.**

**The user must also be familiar with the operation and maintenance of Windows 2000/XP and with the installation of software packages.**

The customer must prepare the computer as follows for the installation of the RDT control centre (DIA.NE control plus DIA.NE report):

- Windows 2000 Workstation or Windows XP Professional must be installed
- The most recent service packs including all the most recent patches must be installed

If, to divide the load, several modems are to be set up to answer incoming calls, Windows 2000 Server or Windows Server 2003 will be required!

If this is the case, please contact the GE Jenbacher Competence Centre!

If using the **modem** connection option:

- install the modem, including the connection to the telephone line

If using the **LAN** connection option:

- install the network card and configure the TCP/IP networks between the DIA.NE WIN server and the DIA.NE WIN client

**Optional:**

- Install an additional network for the shared use of DIA.NE report
- Set up an e-mail account to forward messages by e-mail/SMS

The customer must prepare the computer as follows for the installation of a **separate computer for DIA.NE report**:

- Windows NT 4.0, Windows 2000 Workstation or Windows XP must be installed
- The most recent service packs including all the most recent patches must be installed
- Network access to the RDT control centre must be provided (by installing the network card and configuring the network)

The software installation can be broken down into the following steps:

- Installing the software
- Configuring the software:
- Creating the dial-in user
- If using the modem connection option: Configuring the dial-up services (Remote Access Services, RAS)
- Enabling the drive resource

### 2.6.5.1 Installing the DIA.NE control and DIA.NE report software

**TIP**

**To complete the following steps, users must have LOCAL ADMINISTRATOR RIGHTS!**

The software is installed using the installation CD-ROM supplied. Insert the CD-ROM into the drive and run the "Setup.exe" program.

Alternatively, all the installation software can be downloaded from the GE Jenbacher web server. Information on the links to be used can be obtained from the GE Jenbacher Competence Centre.

The installation procedure is interactive.

The installation option *RDT Control Centre* installs the DIA.NE control and DIA.NE report programs. Choose the installation option *Custom* to install a separate computer for DIA.NE report. This installs the DIA.NE report program only.

You can cancel the installation at any time. You can also remove the software you have installed by uninstalling the relevant program with the *Add/Remove Programs* function in *Control Panel*.

Please note that, following dia.ne control installation, the password is initialised using '6020'.

### 2.6.5.2 Configuring DIA.NE control

- Run *DIA.NE control*
- Choose *Login* from the *File* menu to complete the login procedure.  
Default password: **6020**  
(Otherwise, it is not permitted to edit the configuration!)
- Choose *Configuration* from the *File* menu to adjust any settings. Choose *Notification* to configure automatic message forwarding by e-mail/SMS via e-mail/fax.

If you have any queries or problems, please contact the GE Jenbacher Competence Centre!

### 2.6.5.3 Configuring DIA.NE report

- Run *DIA.NE report*
- As soon as the program starts, a text box appears in which you have to type the path to the DIA.NE control database.
  - Database on local computer (RDT control centre):  
<LW>:\<Installation directory>                      e.g. C:\Program Files\diane
  - Database on remote computer  
\\<Workstation name>\<Release name>                      e.g. \\computer-1\diane
- Choose *Configuration* from the *File* menu to adjust any settings. Choose *Display* to select the plants which are to be displayed.

If you have any queries or problems, please contact the GE Jenbacher Competence Centre!

### 2.6.5.4 Creating the dial-up user

A special user must be created to allow the DIA.NE WIN server (DIA.NE message) to access the RDT control centre.

**TIP**

**To complete the following steps, users must have LOCAL ADMINISTRATOR RIGHTS!**

**Windows 2000**

- Open the *Users and Passwords* dialogue box in Control Panel
- Click the *Add...* button and use the wizard to add a new user.  
**User name:** hermesrmc  
**Full Name:** <any>  
**Description:** <any>  
**Password:** 041097  
**Access Level:** Standard User (Power User)
- In the *Users and Passwords* dialogue box, go to the *Advanced* form and click the *Advanced* button in the *Advanced User Management* section.
- Select *Users* and double-click the new user "hermesrmc" to open it.
- Set the user properties as follows:  
**User must change password at next login:** DISABLED  
**User cannot change password:** ENABLED  
**Password never expires:** ENABLED  
**Account is disabled:** DISABLED  
**Account is locked out:** DISABLED
- Confirm the dialogue and close all the dialogue boxes.

**Windows XP**

- Open the *User Accounts* dialogue box in Control Panel
- Click the *Create a new account* button and use the wizard to add a new user.  
**Account name:** hermesrmc  
**Account Type:** Limited
- Select the new user to create the password.
- Choose the *Create a password* menu command and specify the following password: 041097
- Confirm the dialogue and close all the dialogue boxes.
- Open the *Performance and Maintenance* dialogue box in Control Panel
- Open *Administrative Tools*
- Open *Computer Management*
- Select the *Users* subgroup in *Local Users and Groups* and double-click the new user "hermesrmc" to open it.
- Go to the *Member Of* configuration dialogue box.
- Click the *Add...* button to add the user to the *Power Users* group (*Add... – Advanced – Find now*).
- Confirm the dialogue and close all the dialogue boxes.

**Tip**

***User names and passwords may only be changed in close consultation with GE Jenbacher, as any unannounced change will result in data connection problems!***

**2.6.5.5 Configuring the Remote Access Service (RAS)  
(modem option only)**

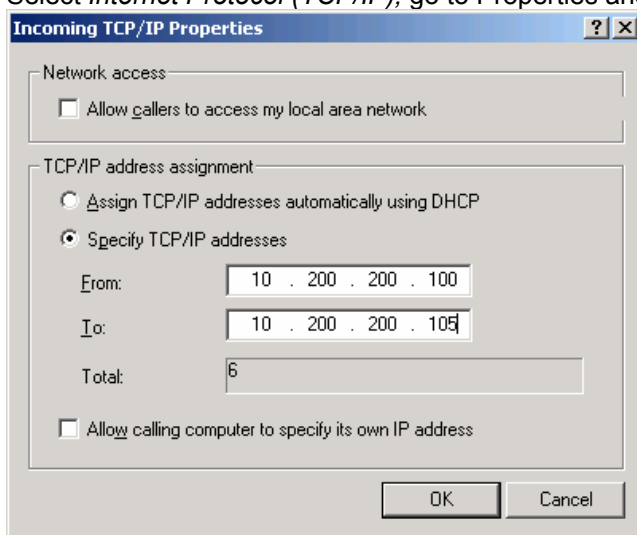
By configuring a RAS server you allow remote computers (DIA.NE WIN servers) to access resources ( file releases; DIA.NE control database) in the local computer.

**TIP**

***To complete the following steps, users must have  
LOCAL ADMINISTRATOR RIGHTS!***

### Windows 2000

- Open the *Network and Dial-up Connections* folder in *Control Panel*
- Select *Make New Connection* and use the wizard to create a new connection
- After the welcome message, select *Accept incoming connections* in the *Network Connection Type* dialogue box.
- In the next dialogue box, select the desired modem for incoming calls.
- In the *Incoming Virtual Private Connection* dialogue box, leave the *Do not allow virtual private connections* option unchanged.
- Select the user "hermesrnc" in the next dialogue box, *Allowed Users*.  
**If this user does not appear in the selection, cancel the wizard and perform the previous step "Creating the dial-up user"!**
- In the next dialogue box, "Networking Components", the following components must be enabled:
  - Internet Protocol (TCP/IP)
  - File and Printer Sharing for Microsoft Networks
  - Client for Microsoft Networks
- Select *Internet Protocol (TCP/IP)*, go to Properties and enable the following setting:

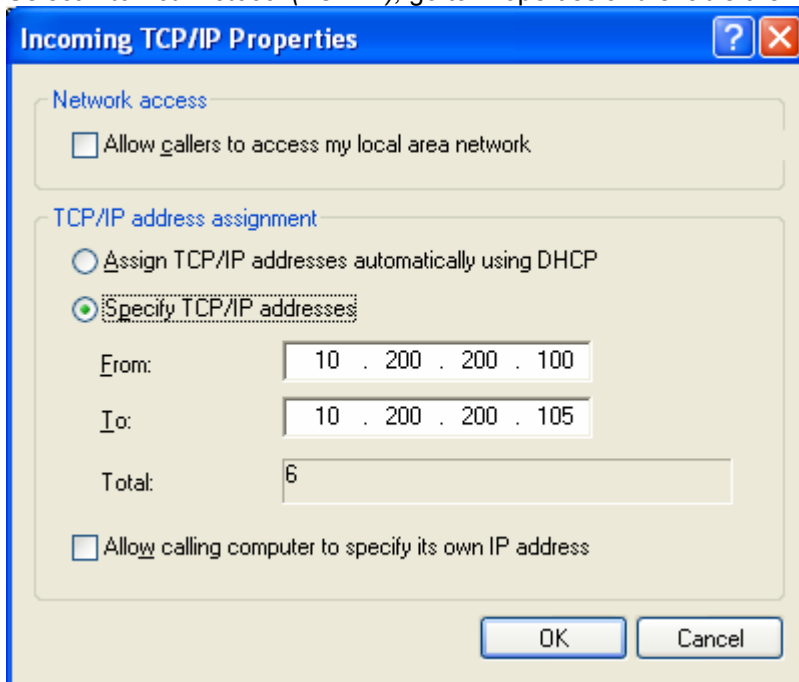


- In the last dialogue box you can assign a name to the connection.

### Windows XP

- Open the *Network Connections* folder in *Control Panel*
- Select *Create a new connection* and use the wizard to create a new connection
- After the welcome message, select *Set up an advanced connection* in the *Network Connection Type* dialogue box.
- In the *Advanced Connection Options* dialogue box, select *Accept incoming connections*.
- In the next dialogue box, select the desired modem for incoming calls.
- In the *Incoming Virtual Private Network (VPN) Connection* dialogue box, leave the *Do not allow virtual private connections* option unchanged.
- Select the user "hermesrnc" in the next dialogue box, *User Permissions*.  
**If this user does not appear in the selection, cancel the wizard and perform the previous step "Creating the dial-up user"!**
- In the next dialogue box, *Networking Software*, the following components must be enabled:
  - Internet Protocol (TCP/IP)
  - File and Printer Sharing for Microsoft Networks
  - Client for Microsoft Networks

- Select *Internet Protocol (TCP/IP)*, go to *Properties* and enable the following setting:



- Close the wizard.

As soon as the connection is created, the RAS service is active and accepts incoming modem connections.

#### 2.6.5.6 Enabling the drive resource

To be able to access the drives of a workstation which is configured as a RAS server, you must enable the relevant drive or directory.

#### **TIP**

**To complete the following steps, users must have LOCAL ADMINISTRATOR RIGHTS!**

#### **Windows 2000**

- Open Explorer and go to the folder containing the **DIA.NE control** program directory (default: „diane“) (e.g. “C:\Program Files“)
- Select the program folder and choose *Sharing ...* from the *File* menu.
- Select *Share this folder* in the dialogue box.
- Click the *Permissions* button to set the access rights.
- In the dialogue box that now appears, click the *Remove* button to remove the group “Everyone“.
- Click the *Add...* button to add the DIA.NE dial-up user “hermesmc“.
- In *Permissions*, give the user the right to “Change“.
- Confirm and close all dialogue boxes.

#### **Windows XP**

- Open Explorer
- Choose *Folder Options...* from the *Tools* menu.
- Go to the *View* configuration dialogue box and disable the *Use simple file sharing (Recommended)* option in *Advanced Settings*.



- Close the dialogue box.
- Go to the folder containing the DIA.NE control program directory (default: „diane“) (e.g. “C:\Program Files“)
- Select the program folder and choose *Sharing and Security ...* from the *File* menu.
- Select *Share this folder* in the dialogue box.
- Click the *Permissions* button to set the access rights.
- In the dialogue box that now appears, click the *Remove* button to remove the group *Everyone*.
- Click the *Add...* button to add the DIA.NE dial-up user “hermesmc“. (*Add... – Advanced – Find now*)
- In *Permissions*, give the user the right to “Change“.
- Confirm and close all dialogue boxes.

After you re-boot the PC, the DIA.NE WIN server (DIA.NE message) is authorised to access the DIA.NE control database.

#### **2.6.5.7 Automatic start-up of DIA.NE control**

To enable DIA.NE control to automatically start up when re-booting or logging off/on, there must be a shortcut to DIA.NE control in the *All Programs - Startup* folder.

#### **2.6.5.8 Automatic login to the RDT control centre when re-booting**

Follow the steps below to ensure you can log in automatically after the RDT control centre has been re-booted.

##### **TIP**

**To complete the following steps, users must have LOCAL ADMINISTRATOR RIGHTS!**

##### **Windows 2000**

- Open the *Users and Passwords* folder in Control Panel
- Select the desired auto-login user from the user list.  
(To do this, the check box *Users must enter a user name and password to use this computer* must be enabled.)
- Disable the check box *Users must enter a user name and password to use this computer*.
- Click the *OK* button to close the dialogue box. Confirm the next password request by typing the password in twice.

##### **Windows XP**

- Open the *Users and Passwords* folder in Control Panel
- Select the desired auto-login user from the user list.  
(To do this, the check box *Users must enter a user name and password to use this computer* must be enabled.)
- Disable the check box *Users must enter a user name and password to use this computer*.
- Click the *OK* button to close the dialogue box. Confirm the next password request by typing the password in twice.

### 3. Connections

#### 3.1 Modem

A telephone line via the public telephone system is used as the medium for connecting the plant to the customer.

The connection from the customer (client) to the DIA.NE WIN server (server) is established for the “remote control” application. This is reversed for the “automatic data and message transmission” application.

By default, an analogue modem to the internationally approved V90/V92 standard is used in the plant. Customers can use any commercially available analogue modem.

**Maximum attainable connection speed:** 56 KBit/s

An alternative option would be to fit the plant with an ISDN adapter or a GSM modem (dual band 900/1800).

#### 3.2 Network (LAN)

An Ethernet network connection is used as the connection medium between the plant and the customer.

**Cabling:** Twisted-Pair (TP) cables (at least CAT 5)

**Maximum cable length:** 100 m (extension by means of additional on-site network components (repeater, hub, etc.) is possible)

**Network protocol:** TCP/IP

**Maximum attainable connection speed:** 100 KBit/s

#### 3.3 Internet

A permanent Internet connection is used as the connection medium between the plant and the customer.

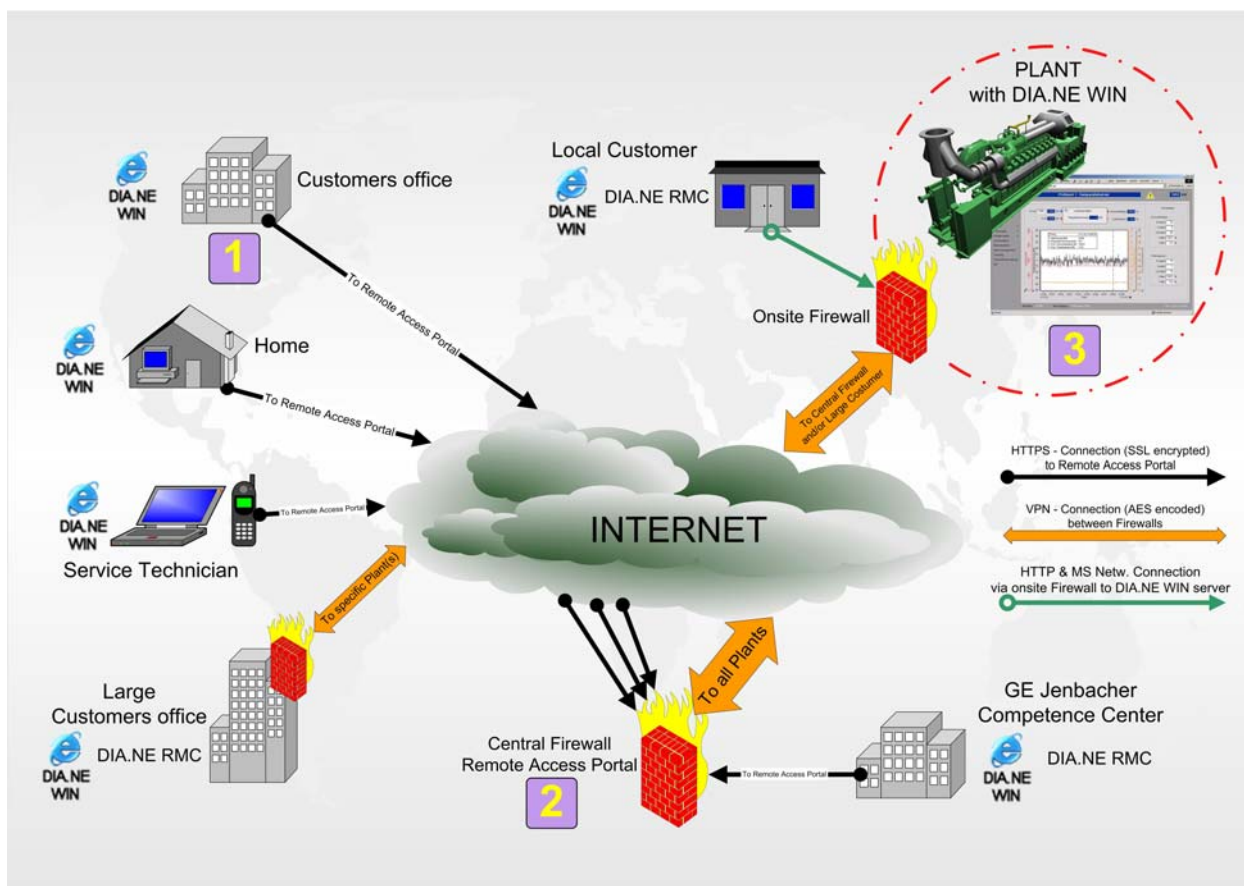
Because of the high risks involved in connecting the plant to the Internet, a security plan has been drawn up which satisfies the most stringent security criteria in the IT sector.

**Tip!**

***Because of the high security risk (economic criminals, hackers, etc.) connecting the plant directly to the Internet is not permitted under any circumstances and will result in the loss of guarantee and warranty rights!***



### 3.3.1 Construction



### 3.3.2 Preconditions

This connection option requires a permanent Internet access point in the plant and additional security devices.

Descriptions of the exact scope of supply and the exact on-site services are available from the GE Jenbacher Sales Department or the GE Jenbacher Competence Centre.

### 3.3.3 Access to the plant

A general description of possible options for accessing the plant via the Internet (via Remote Access Portal, direct, etc.) is in preparation.

If you have any questions, please contact the GE Jenbacher Competence Centre.