

## European Tool Set DCS Loader Version 3.xx User's Guide

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Siemens Building Technologies  
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DCS-Loader

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# 1 Introduction

## 1.1 About this document

**Where do I find what?**

The main chapters of this document discuss the following topics:

Chapter	Brief description
1	Introduction (dieses Kapitel) <ul style="list-style-type: none"><li>– <i>General information that you need to know</i></li><li>– <i>The concepts underlying the DCS Loader</i></li></ul>
2	Starting the DCS Loader <ul style="list-style-type: none"><li>– <i>How to start the DCS Loader, how to work efficiently and how to get help</i></li></ul>
3	Working with the DCS Loader <ul style="list-style-type: none"><li>– <i>How to load a configuration in the DCS</i></li><li>– <i>How to download a DCS configuration from the server</i></li><li>– <i>How to execute special commands</i></li></ul>
4	Error messages / Troubleshooting <ul style="list-style-type: none"><li>– <i>Error messages output by the DCS Loader and how to process them</i></li></ul>
5	Detailed information for users <ul style="list-style-type: none"><li>– <i>How to connect the PC with the server</i></li><li>– <i>How to install the DCS Loader and listing of the requirements</i></li></ul>
6	Detailed information for Tool managers <ul style="list-style-type: none"><li>– <i>Which files exist and what kind of settings are possible</i></li></ul>

**Additional documents**

- PRVCONF User's Guide (order number: CM2U8375E)
- VISONIK Upload User's Guide (Order No: CM2U8370E)
- New VISOTOOL Editor User's Guide (Order No: CM2B8361E).

## 1.2 Field of application

---

### Why a DCS Loader?

The DCS Loader is a DOS program for the following fields of application:

- Loading a DCS configuration in the VISONIK server
- Download and write to a file the DCS configuration from the VISONIK server
- Execute special commands in the DCS

Two types of files must be distinguished:

- Project-specific data:
  - Technical addresses
  - User addresses
  - Texts (TXI, TXU, TXC)
  - Module types
- Standard data (e.g., standard texts)

### Link to the VISONIK server

The DCS Loader communicates via a V.24 connection or via modem.

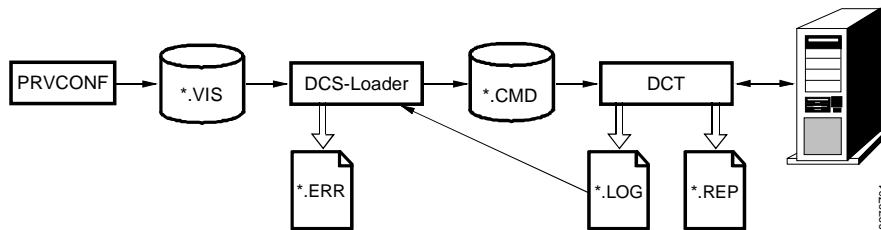
On internal networks at the Divisional Units, the program can also be used via the network (Pipe).



## 1.3 Concept for downloading

**Purpose** Downloading to the DCS a configuration created in ETS.

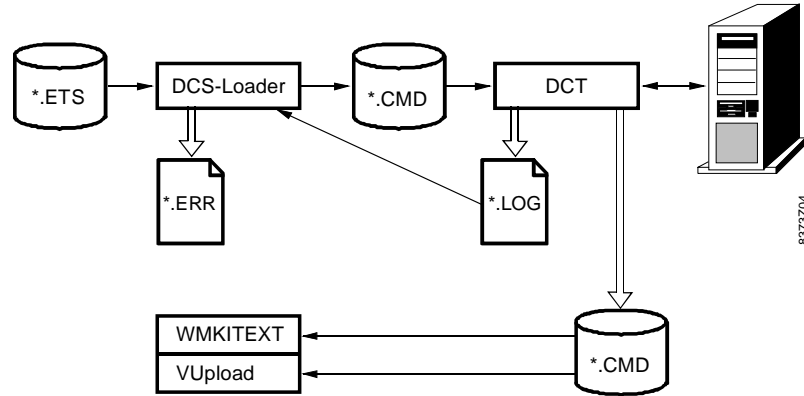
**Functioning** The DCS Loader first creates a \*.CMD file from the \*.VIS file. Then, the DCS Loader opens the Data Communication Tool (DCT) which conducts the actual loading procedure.



## 1.4 Concept for uploading

**Purpose** Writing the DCS configuration to a file that can be processed in ETS.

**Functioning** The DCS Loader first creates a \*.CMD file from the \*.ETS file. Then, the Data Communication Tool (DCT) sends the commands to the DCS where they are executed. The output is then written to a \*.DCS file.



**Note** You can define the output file and the technical address range to be read.

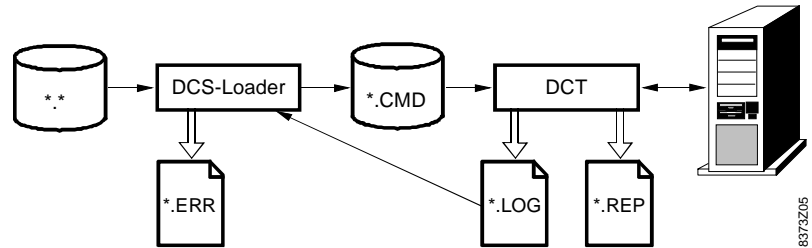
*Example:*

Address range: \$d2' .. \$191'\* → all controllers

## 1.5 Concept for executing commands

**Purpose** Executing commands such as deleting text catalogues in the VISONIK server.

**Functioning** The DCS Loader first creates a \*.CMD file from the command file. Then, the Data Communication Tool (DCT) sends the commands to the DCS where they are executed. The output is then written to an \*.RPT file.





## 2 Starting the DCS Loader

### 2.1 Starting

---

#### In Windows



Double-click the DCS Loader icon.

#### In DOS

Step	Action
1	Change to the DCS Loader directory
2	Enter the following command: DCS_LOAD

## 2.2 Structure of the window

**The DCS Loader window** After starting the DCS Loader, the window contains the following information:

```

File          Select          Option          Help
-----
[ DCS_LOADER V3.00 ]
DOWNLOAD PARAMETERS [Start F2]
VIS input file . . : C:\VISOTOOL.4\DCS_LOAD\MOD_TEST.VIS
Temp. command file : C:\VISOTOOL.4\DCS_LOAD\MOD_TEST.CMD

UPLOAD PARAMETERS [Start F3]
ETS input file . . : C:\VISOTOOL.4\DCS_LOAD\UPV10GER.ETS
Temp. command file : C:\VISOTOOL.4\DCS_LOAD\UPV10GER.CMD
DCS output file . . : C:\VISOTOOL.4\DCS_LOAD\UPV10GER.DCS
TA address range . : $d10'*$.$d30'*

DCI CMD PARAMETERS [Start F4]
DCI CMD input file : C:\VISOTOOL.4\DCS_LOAD\dtxi010g.del
Temp. command file : C:\VISOTOOL.4\DCS_LOAD\dtxi010g.cmd

COMMON PARAMETERS
System name . . . . : QM2-Quasar
Partner number . . : 1          Text catalogue . . : 1 ENGLISH
COM_PORT sequence . :
;com=com1;bd=4800;mk=0.
Partner sequence . . :
;lu=156;mu=0.
Visa . . . . . : DCS          Password . . . . . : *** [Exit ESC]
  
```

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The window contains four ranges

Range	Entries
Downloading	*.VIS *.CMD Input file Temp. command file
Uploading	*.ETS *.CMD *.DCS Input file Temp. command file Output file Range indication
DCS Command	*.* *.CMD Command input file Temp. command file
General	Information on communication

## 2.3 Working efficiently

---

### Help texts

The DCS Loader provides context-sensitive help. Access this help as follows:

Step	Action
1	Highlight entry field or action.
2	Press <F1>

### Function keys

You can easily and quickly carry out various actions in the DCS Loader window by pressing the function keys:

Key	Action
<F1>	Opens context-sensitive help for the highlighted entry field or action.
<F2>	Starts downloading
<F3>	Starts uploading
<F4>	Starts DCS commands
<F5>	Opens a window to select a partner.
<F6>	Opens a text editor with the error file (*.ERR).
<F8>	Opens a window for selecting an *.MSG file (on language selection).
<F9>	Opens the text editor.

## 2.4 Examining/editing files

---

### Introduction

In some cases (e.g. on troubleshooting), examining or editing certain files may be useful.

### Define editor

Before you can examine a file, you must define a text editor.

Step	Action
1	Select "File / Editor Definition".
2	Enter path and file name of the editor or Press <F8> and select the file in the file selection window.

### Examining and editing a file

You can open all files you want to examine or edit directly from the DCS Loader; for example: \*.VIS / \*.CMD / \*.ERR / \*.LOG / \*.REP / \*.TRC / DCT.PRF.

Step	Action
1	Press the respective function key and select the desired file or Highlight the file in the window.
2	Select "File / Edit".
3	Enter the desired changes.
4	Save the file and exit the editor.



## 2.5 Exit

---

Select "File / Exit" or press <Esc>. Confirm the message "Exit DCS\_LOAD program" by "Yes".

*Note*

You cannot exit the program by choosing "Exit" while communicating with the VISONIK server.

To do this, stop communication with the server via <Ctrl + Break> and by confirming with <y> the message prompt that appears after 5 seconds.



# 3 Working with the DCS Loader

## 3.1 General prerequisites

---

In order to properly work with the DCS Loader, the following prerequisites must be met:

- Correct settings in the VISONIK server  
(see chapter 5.1.1)
- Inspect the connection between the PC and the DCS.  
(see chapter 5.2)
- Correct installation of the DCS Loader.  
(see chapter 5.3)
- Complete language entries in the DCS\_L.CAT file.  
(see chapter 6.2)
- Correct partner definition in DCT.PRF.  
(see chapter 6.6)

## 3.2 Downloading

### 3.2.1 Special prerequisites

---

In order to correctly load a configuration to the DCS using the DCS Loader, the following additional prerequisites must be met:

- Correct language setting in the VISONIK.INI file in the European Toolset prior to working with PRVCONF.  
(see chapter 5.1.1)
- Correct settings on compiling in PRVCONF.  
(see chapter 5.1.2)

### 3.2.2 Workflow

#### Load configuration

Proceed as follows to load a configuration:

Step	Action
1	Start DCS_LOAD.
2	Select the *.VIS file
3	Select a partner.
4	Enter your user name and password
5	Start communication.

The Data Communication Tool (DCT) now establishes communication with the DCS. Then, the respective files are loaded the possibly required parameterization is conducted. If set accordingly, you can observe the entire procedure in an information window.

After completing the task, the DCS Loader issues a message on whether it finished the task successfully or not.

#### Note

You can stop the loading procedure at any time by pressing <Ctrl + Break> and by confirming with <y> the message prompt that appears after 5 seconds.

However, stop this procedure only in emergencies, as repeated loading triggers an error message for any previously generated point.

#### If no errors occur

If the DCS Loader does not indicate any errors, close the information window via [ Ok ].  
You can then exit the program.

**If errors occur**

If errors occurred, the DCS Loader issues a message indicating the number of errors in the information window. A second window shows the file with the list of the found error (\*.ERR), or an excerpt thereof.

If this applies, proceed as follows:

<b>Step</b>	<b>Action</b>
1	Close the information window via [Ok].
2	Press <F6> to open the text editor with the error list (*.ERR).
3	Correct the error.



When correcting errors, proceed as described in chapter 4, "Error messages / Troubleshooting".

## 3.3 Uploading

### 3.3.1 Workflow

#### Write a configuration to file

Proceed as follows to write a configuration from the VISONIK server to a file:

Step	Action
1	Start DCS_LOAD.
2	Select the input file (*.ETS)
3	Enter path and name of the file to which you want to write the data.
4	Enter the address range from which you want to copy the data.
5	Select a partner.
6	Enter your user name and password
7	Start communication.

The Data Communication Tool (DCT) now establishes communication with the DCS. The data are written to the indicated \*.DCS file.

After completing the task, the DCS Loader issues a message on whether it finished the task successfully or not.

#### Note

You can stop communication at any time by pressing <Ctrl + Break> and by confirming with <y> the message prompt that appears after 5 seconds.

#### If no errors occur

If the DCS Loader does not indicate any errors, close the information window via [ Ok ].  
You can then exit the program.

**If errors occur**

If errors occurred, the DCS Loader issues a message indicating the number of errors in the information window. A second window shows the file with the list of the found error (\*.ERR), or an excerpt thereof.

If this applies, proceed as follows:

Step	Action
1	Close the information window via [Ok].
2	Press <F6> to open the text editor with the error list (*.ERR).
3	Correct the error.



When correcting errors, proceed as described in chapter 4, "Error messages / Troubleshooting".



## 3.4 Executing commands

### 3.4.1 Workflow

#### Execute command file

Proceed as follows to execute a command file:

Step	Action
1	Start DCS_LOAD.
2	Select the command file.
3	Select a partner.
4	Enter your user name and password
5	Start communication.

The Data Communication Tool (DCT) now establishes communication with the DCS and executes the commands. Any output is written to the indicated file (see chapter 6.10).

After completing the task, the DCS Loader issues a message on whether it finished the task successfully or not.

#### Example

File	Effect
DTXIV14G.TSK	Deletes all texts in the TXIg, TXIm and TXIp text catalogues. As a result, no old texts exist on reloading.

#### Note

You can stop communication at any time by pressing <Ctrl + Break> and by confirming with <y> the message prompt that appears after 5 seconds.

#### If no errors occur

If the DCS Loader does not indicate any errors, close the information window via [ Ok ].  
You can then exit the program.

**If errors occur**

If errors occurred, the DCS Loader issues a message indicating the number of errors in the information window. A second window shows the file with the list of the found error (\*.ERR), or an excerpt thereof.

If this applies, proceed as follows:

<b>Step</b>	<b>Action</b>
<b>1</b>	Close the information window via [Ok].
<b>2</b>	Press <F6> to open the text editor with the error list (*.ERR).
<b>3</b>	Correct the error.



When correcting errors, proceed as described in chapter 4, "Error messages / Troubleshooting".

## 3.5 General settings

### 3.5.1 Workflow

#### Manual entries

Complete the entry fields as follows:

Step	Action
1	Select the partner number to define the communication type (direct, pipe or modem).
2	Enter the system name. (This name must match that in the DCS.)
3	Select the text catalogue language.
4	Enter the interface parameter at "COM_PORT Sequence": com = Interface (com 1...com4) bd = Baud rate (75..9600 bps) mk = Modem class – Default 0 (no modem) Example: ; com=com1 ; bd=9600 ; mk=0 .
5	Enter the partner sequence for the DCS selection (in a linked system): lu = DCS parameter LUS – for V12 and higher: 0 (Default) – for V10: 156 mu = Modem connections – Default 0 (no modem) Example: ; lu=0 ; mu=0 .

**Entry for pre-defined partners**

If the partner has already been defined, proceed as follows:

<b>Step</b>	<b>Action</b>
<b>1</b>	Press <F5>.
<b>2</b>	Select the correct partner in the partner selection window and press <Enter>. This overwrites the following parameters: <ul style="list-style-type: none"><li>– System name</li><li>– Partner number</li><li>– Interface (COM_PORT sequence)</li><li>– Partner sequence</li></ul>
<b>3</b>	Select the text catalogue language.

## 4 Error messages / Troubleshooting

---

### Error message testing procedure

1. The DCS Loader first tests the file. If the test is not successful, the following error message appears:

Error message	Cause, Troubleshooting
Wrong or empty file	On testing the file, the DCS Loader did not find the correct keyword. Select the correct file.

2. Then, the input file is converted to a \*.CMD file. If errors occur, communication is not started.  
⇒ See 4.1, "Conversion errors of the DCS Loader".
3. The DCT first checks the partner and applies additional stop criteria to downloading before starting communication. If the DCT locates errors, communication errors or warning messages appear.  
⇒ See 4.2, "DCT communication errors".

## 4.1 Conversion errors of the DCS Loader

### General

When the DCS Loader issues the error message "Conversion errors/warnings", errors occurred already on conversion of the input file to a \*.CMD file. Communication is not started.

### Contents of the \*.ERR file

The \*.ERR file has the same file name as the corresponding input file.

The \*.ERR file appears as follows:

```
10:22:10 22.02.96 | DCS_LOAD.EXE V2.16 | K:\DCS_LOAD\DCS_L.VIS |
E=12 (IL=66) Error: missing => "=" [BEGIN_GEN]
          TA$o14'000,CTYP=MW,NAME="1'P32'W'000"ZUL"
E=16 (IL=67) Parameter not found ! CTYP [BEGIN_PAR]
          TA=$o14'005,CTYPMW,NAME="1'P32'W'005"ZUL"

====> Conversion errors/warnings= 2/0
```

### Meaning:

E Error number

IL Line number in the \*.VIS file

Errors 12 and 16 were located in lines 66 and 67 of the \*.VIS file. The DCS Loader establishes communication only if no conversion errors exist.

### Correct the error

The document DCS\_L\_GE.TXT contains a list of possible errors.

Proceed as follows for troubleshooting:

Step	Action
1	Exit DCS Loader
2	Open the *.VIS file in the text editor.
3	Correct the error.
4	Save the file.
5	Restart the DCS Loader and communication.

## 4.2 DCT communication errors

---

### General

If the DCS issues the message "Error, communication aborted" or "Communication errors/warnings", problems occurred on connecting the DCT with the partner.

### Contents of the \*.ERR file

The \*.ERR file has the same file name as the corresponding input file.

The \*.ERR file appears as follows:

```
09:42:54 11.03.96 | DCS_LOAD.EXE V2.16 | K:\DCS_LOAD\DCS_L3.VIS |
====> Conversion errors/warnings= 0/0

09:44:29 11.03.96 | DCT.EXE V2.16 | K:\DCS_LOAD\DCS_L3.cmd | 93
E=4 Error, Communication aborted! => DCT.REP
| [PARTNER_2] NEPTUN 11.3.1996 09:44:59 | Connection trouble with partner!

====> Communication errors/warnings= 1/0
```

### Meaning:

E Error number

The DCT attempts to establish a connection to "[PARTNER\_2] NEPTUN" (DCT.PRF file). Communication was interrupted because of the reason as listed under error number 4.

Refer to the chapter below for a list of all communication errors.

### Further help

The DCT always generates a report file (DCT.REP in the ... \DCS\_LOAD folder). Open this file for detailed information on the errors.

Additionally, you can also create a trace file. Refer to chapter 6.12.3, "Trace files" for information on creating trace files.

**Further  
procedure**

Proceed as follows for troubleshooting:

<b>Step</b>	<b>Action</b>
<b>1</b>	Exit DCS Loader
<b>2</b>	Open the input file in the text editor.
<b>3</b>	Correct the error.
<b>4</b>	Save the file.
<b>5</b>	Restart the DCS Loader and communication.



## 4.2.1 List of communication errors and warnings

Error number/Error message	Cause, comment on eliminating the error
W=1 Warning from DCS	The associated command line was executed, but the DCS issues a warning. Refer to the REPORT file DCT.REP for more information (see chapter 6.12.2).
W=6 Skipped command line	The associated command line was skipped without checking because of an error message in the previous line.
E=2 Unknown parameter in the command line	The associated command line contains an unknown parameter.
E=3 No or wrong serial connection cable (V24)	Check the plugs for proper connection and compare the wiring to the drawing in chapter 5.2.
E=3 Incorrect baud rate	Correctly set parameter "bd" at the "COM_PORT Sequence" entry. Permissible values: 75...9600.
E=3 Incorrect communication report at DCS Server	Set parameter COMP for the used DCS interface to "Teletype". Example: \$Ty5,COMP,Teletype
E=3 DCS Server is a Masterplatte	Do not set entry "Masterplatte (boot without rings)" in SYS,PROJ.
E=4 Connection problem with the partner	There are several causes that trigger this error. The most common causes in brief are explained below.
(E=4) Incorrect communication interface	Correctly set parameter "com" at the "COM_PORT Sequence" entry. Permissible values: com1...com4

Error number/Error message	Cause, comment on eliminating the error
(E=4) Incorrect system-specific number	Select the correct communication partner or check its system number (parameter "lu") at entry "PARTNER". Permissible values for "lu": 0...255, decimal
(E=4) DCS does not recognise the DCT_ID	For correct communication, the DCS must recognise the DCT_ID (PARTNER_N section). If this is not true, request a DCS update.
(E=4) DCS is not properly set	Set parameter TYX for the used DCS interface to "ITTY". Example: \$Ty5,TYX=ITTY
(E=4) DCS channel is incorrectly configured	The channel was previously configured for another unit (substation, ECU, etc.). Set parameter LUS in the DCS to value "0". Check (example): Ctrl P - SER,\$Ty5<Enter>. If LUS<>0, i.e., for example LUS=00\$267 Newly set to "0": Ctrl P - \$267'CO,LUS,0<Enter>
(E=4) Incorrect DCS version	The communication program runs only on DCS versions from 8.16, 10.16 and V12. Request a server update.
(E=4) DCS access level is too low	Define a user with function level 7/7 on the DCS for the DCS Loader.
E=7/8 Wrong initials or password	Make sure that the initials and the password match the definition in the DCS.
E=9 Incomplete data	In the DCS Loader window select "Option / DCT SYSTEM Parameter" and set the data timeout to min. 200 seconds. Add the following: dat_t=200;
E=10 Read or write error of the transfer file in the command line	Check the file for write protection or if the file exists (path). If both do not apply, check the hard disk's capacity.
E=11 Disallowed command line	Define a user with function level 7/7 on the DCS for the DCS Loader.

<b>Error number/Error message</b>	<b>Cause, comment on eliminating the error</b>
E=12 Command line cannot be properly interpreted.	Check the associated command line for correctness of information. (There is no error analysis.)
E=13 Incorrect system name	You selected the wrong partner or the system name does not match the name in the DCS.
E=14 The point to be generated already exists.	Existing points are not newly generated and parameterized. If you want to newly generate or parameterize such points, you must first delete them via the terminal.
E=15 The point parameters to be generated do not agree!	Compare the parameters in the command line to the data in the DCS.
E=16 DCT directive has errors.	The DCT_MAN.TXT file describes all possible DCT directives. The syntax must be correct.
E=17 Statement=incorrect!	This is not an error. The error message only indicates that a Boolean expression in the DCT directives has resulted in a "wrong" value.
E=18 Command line without DCS support	The DCS supports most commands with a special, internal code which provides information on the command line's execution. If the command line is not confirmed with this code, an error message appears. However, the commands are executed correctly most of the time. You can check this in the REPORT file DCT.REP.
E=19 DCT "#ABORT" directive	This keyword stops communication with the partner. Check the previous command line for correctness of information. The #IF" directive may be wrong (e.g., address form of the user address). Refer to DCT_MAN.TXT on DCT directives.

<b>Error number/Error message</b>	<b>Cause, comment on eliminating the error</b>
E=21 Incorrect DCS version	The communication program runs only on DCS versions from 8.16, 10.16 and V12. Request a server update.
E=22 The command line in CMD file is too long!	The max. length of a line is 250 characters. Delete all unnecessary blanks and tab stops. If the line is still too long, generate two command lines. Splitting command lines by means of a carriage return is not allowed.
E=23 The transfer file cannot be completely transmitted.	Check the size of the transfer file. It may be too big for the DCS.
E=37 ADDP Information: CTS missing	Parameter "mk" at "COM.PORT Sequence" is not entered.
E103 "Dialog time-out error"	Aborted communication or DCS with insufficient patch stand
E=117 SIO Frame error! (Baud rate=???)	The baud rate is missing or is faulty. Define the correct baud rate in "COM.PORT Sequence".

## 4.3 No errors

---

**Contents of the \*.ERR file** An \*.ERR file is generated even if no errors have occurred.  
This file has the same name as the corresponding input file.  
The \*.ERR file appears as follows:

```
10:16:31 11.03.96 | DCS_LOAD.EXE V2.16 | K:\DCS_LOAD\DCS_L3.VIS
```

```
====> Conversion errors/warnings= 0/0
```

```
10:17:47 11.03.96 | DCT.EXE V2.16 | K:\DCS_LOAD\DCS_L3.cmd | 93
```

```
10:17:51 C=0 | Login Sys=NEPTUN | Vers=12.02.092 | o.k.
```

```
====> Communication errors/warnings= 0/0
```

## 4.4 Activating the Trace function

---

### Introduction

In order to better and faster find a communications error, DCT provides a trace recording. The trace lists every individual step in a file and, if required, on-screen.

### Workflow

The two entries TRACE and TRACE\_LEV in the DCT.PRF file ([INITIALIZE section]) define if the Trace function is active and the level for the single step recording.

Refer to 6.7 “The DCT.PRF file” for information on these entries.

However, you can temporarily disable these settings during a DCS Loader session:

Step	Action
1	Start DCS Loader
2	Select “Options / DCT SYSTEM Parameter”.
3	Enter the desired information in the input field. (See below)
4	Confirm with <Enter>.

### Entries

Activate or deactivate the individual step recording on-screen:

```
trc=1;    or    trc=0;
```

Define the level of the individual step recording:

```
tlv=51;    (Example)
```

Refer to chapter 6.7 “The DCT.PRF file” for more information on recording levels.

## 4.5 Setting the number of report files

---

### Introduction

You can define if the DCS should save only one single report file to save hard disk space or all of the 100 report files.

### Workflow

Make this setting via the REPORT\_NR entry in the DCT.PRF ([INITIALIZE]section) file.

Refer to chapter 6.7 "The DCT.PRF file" for information on this entry.

You can of course make this change without DCS Loader by opening the file in any text editor.

Proceed as follows if you have already started the DCS Loader:

Step	Action
1	Press <F9>.
2	Load DCT.PRF.
3	Make the changes.
4	Save the file.
5	Exit the text editor.

## 4.6 Additional settings

---

### Introduction

Changing further settings in the DCT may be especially meaningful on localising errors. To do this, there are two options:

- Change the settings in the DCT.PRF file. These settings are valid if they are not deactivated temporarily during a session.
- Temporary change of settings during a DCS Loader session.  
These settings disable the corresponding entry in the DCT.PRF file for the current session. However, they expire after the session.

### Detailed information

Refer to chapter to 6.7 “The DCT.PRF file” for detailed information on the impact of your entries for both cases.

### Change DCT.PRF

You can of course make these changes without DCS Loader by opening the file in any text editor.

Proceed as follows if you have already started the DCS Loader:

Step	Action
1	Press <F9>.
2	Load DCT.PRF.
3	Make the changes.
4	Save the file.
5	Exit the text editor.



**Temporarily  
change the  
settings**

Proceed as follows to temporarily change the settings:

Step	Action
1	Start DCS Loader
2	Select "Options / DCT SYSTEM Parameter".
3	Press < F1 > to examine the list of the settings that can be changed.
4	Press <Esc>.
5	Enter the desired information in the input field.
6	Confirm with <Enter>.

**Important**

Each entry must be completed by entering " ; " .

Example:

```
err=1;com_t=600;
```



# 5 Detailed information for users

## 5.1 Preparations

### 5.1.1 Settings in the VISONIK server

#### VISONIK server settings

Before you can load data on the DCS using the DCS Loader, make the following settings in the server.

Step	Action
1	Set parameter TYX for the used interface: "ITTY".
2	Set parameter COMP for the used interface: "TELETYPE".
3	Define a user address structure that matches that of the project in PRVCONF.
4	Specify user initials and password.
5	Assign function level 7/7 to this user.



Do not set entry "Masterplatte (boot without rings)" in SYS,PROJ.

## 5.1.2 Preparations in PRVCONF

---

### **Prerequisites for compiling**

In order to generate a correct \*.VIS file for a project in PRVCONF, consider the following two aspects:

1. Select the "Configuration" option in "Compile/Options".
2. Enter the correct address structure (by matching the DCS structure) via "Compile/Text + Address Options".

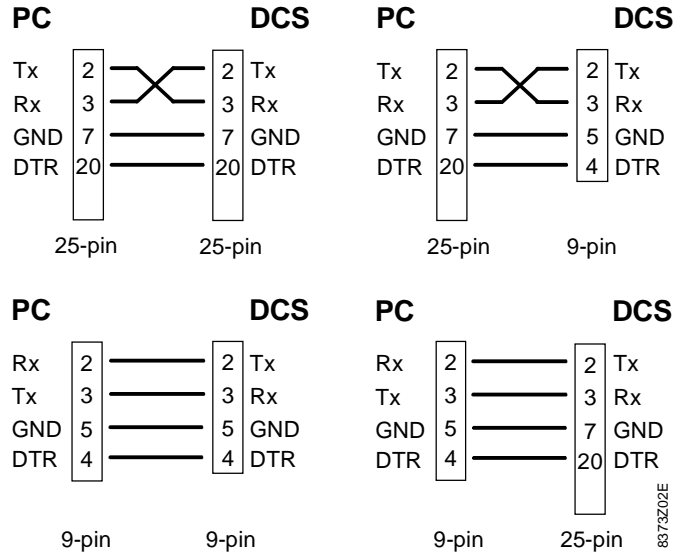
## 5.2 Connecting the PC

### Direct or indirect connection?

The cables required to connect the PC depend on whether you want to establish a connection directly via the DCS (V.24) or via modem.

### Direct connections

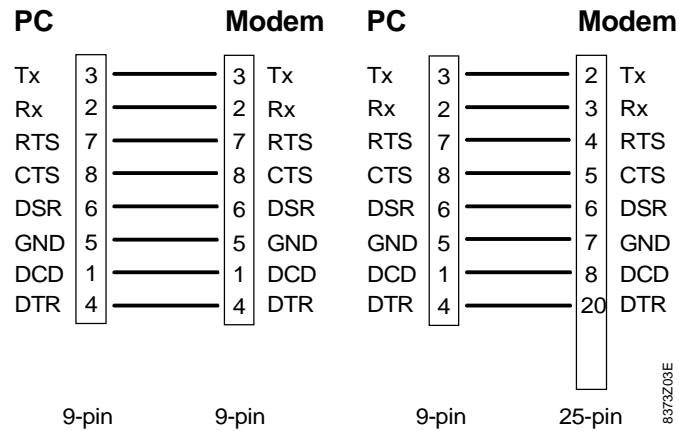
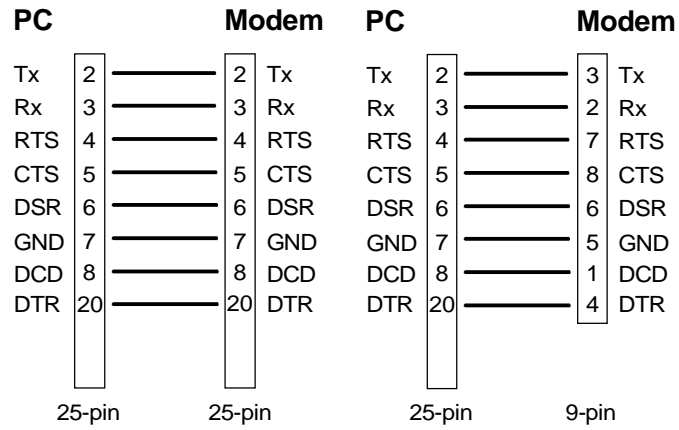
When directly connecting the PC to the DCS, the connecting cables must have the following connections:



8373202E

**Modem connection**

When using the modem to establish a connection, the connecting cable must have the following connections:



8373203E

**Check connection**

Check by using e.g. VISOTOOL Editor. Refer to the New VISOTOOL Editor User's Guide (Order no.: CM2B8361E) for details.

## 5.3 Installation

### 5.3.1 Requirements

---

#### Hardware requirements

To guarantee correct operation of the DCS Loader, the following hardware requirements must be met:

- Computer:  
IBM or IBM compatible
- Processor:  
Min. 386
- Hard disk:  
Min. 1MB incl. data for one project
- Interfaces:  
Min. one free serial interface  
(COM1 ... COM4)

#### Where do I find the files?

The INSTALL.BAT installation file and the zipped program files for the DCS Loader (inc. Data Communication Tool) are located on the following ETS diskette for Tool managers:

**VISOTOOL.4 with DCS Loader**

### 5.3.2 Installing the program

---

#### Installing the DCS Loader

Proceed as follows to install the DCS Loader (incl. Data Communication Tool):

Step	Action
1	Switch to DOS or open a DOS window.
2	Enter the following command: (For disk drive A:) A:\INSTALL target path A:
3	Press <Enter>.
4	Confirm the question if you want to install the DCS Loader.

#### Example for entry in step 2

The entry in step 2, for example, could be as follows if the VISOTOOL diskette is inserted in drive A:

**A:\INSTALL C:\VISOTOOL.4 A:**

In this case, the installation program automatically creates the VISOTOOL folder and its subfolder \DCS\_LOAD in drive C:. This folder contains all files required by the DCS Loader.



### 5.3.3 Installing a DCS Loader language

---

#### Introduction

The DCS Loader can be operated in any of three languages to which you change during operation. On initial use of the DCS Loader, assign the languages to the associated \*.MSG files.

#### Workflow

Proceed as follows if the language files exist:

Step	Action
1	Start DCS Loader
2	Select "Option/User Language".
3	Highlight a language and press <F8>.
4	Select the associated *.MSG file. (e.g., DCS_L_EN.MSG)

## 5.4 Important files

---

### Where are the files?

When working with the DCS Loader, various files are important. These files are located in three different folders:

- In the DCS Loader folder (see 5.3, "Installation")  
Example: C:\VISOTOOL.4\DCS\_LOAD
- In the project folder containing the data for the project whose configuration you want to load in the DCS.  
Example: C:\ETS\_DATA\PROJ\_XY
- In the European Toolset folders:  
C:\ETS\_LIB\TEXTLIB\VIS\_Vnn.\*

**Files in the DCS  
Loader folder**

This folder contains the following files:

<b>File</b>	<b>Task or contents</b>
DCS_LOAD.EXE	DCS Loader program file.
DCT.PRF	Configuration data for the Data Communication Tool (DCT).
DCS_L.CAT	Language-dependent commands for the DCS.
DCS_L_xx.MSG	Program texts for the DCS Loader
DCS_L_xx.TXT	Help texts for the DCS Loader
DCT.MSG	Program texts for the DCT
DCT_MAN.TXT	Description of the Data Communication Tool (DCT).
*.REP	Listing of the DCT containing all loading events.
*.LOG	Communication confirmation signal DCT.
*.TRC	Information recorded via Trace.
*.ETS	Input files containing the commands and data for uploading.
*.DEL	Input files containing the commands for deleting the text catalogues.
DCS_LOAD.VIS	Example for a *.VIS file
DCT_CMD.TSK	Example for a DCT CMD file.

*Note*

The letters "xx" in the above \*.MSG and \*.TXT files represent placeholders for the language description such as "GE" for German.

**Files in the project folder**

This folder can be an ETS project folder or a temporary folder generated by the DCS Loader on the PC for a project to be loaded.

In this folder, the following files are important with regard to the DCS Loader:

File	Task or contents
*.VIS	File generated in PRVCONF by using the DCS configurations.
*.CMD	Project data generated by the DCS Loader from the input files which are further processed by the DCT.
*.ERR	Listing of all errors during the loading procedure.

**Files in the ...\\VIS\_Vnn.\* folders**

The European Toolset folders among other files contain the following:

- **VISONIK.INI**  
Important information on language administration in the PRVCONF program. Tool managers should correctly complete these entries.
- **STDRDXTX.VIS**  
This file contains standard texts to be loaded separately. These texts are not part of the project-specific \*.VIS files.

# 6 Detailed information for Tool managers

## 6.1 Setup settings in ETS

### Introduction

Specify in the VISONIK.INI file which text catalogue you want the server to use. The VISONIK.INI file for version 12, for example, is located in the following European Toolset folder:

**...ETS\_LIB\TEXTLIB\VIS\_V12.GER**

### Line to change

Make the setting in the second line of the following two lines:

```
; Select Visonik text catalogue language  
xx=0
```

Enter xx=0, xx=1 or xx=2 depending on the catalogue.

### Workflow

Make the settings **prior** to editing the project in PRVCONF!

Step	Action
1	Open the VISONIK.INI file in the text editor.
2	Enter the correct text catalogue.
3	Save the file.

**Comment**

Change only the above listed line.

Do not change the following entries:

language=GER

(after command line "Set program user language")

This line is used for automatic setting of the DCS Loader program language. (This function is not yet available).

comlang=0

(after command line "Select Visonik communication language")

This line is used for automatic setting of the DCS language. A change from 1 to 2 is not meaningful as this function is not yet available.

## 6.2 Translating the VISONIK commands in DCS\_L.CAT

---

### Introduction

The DCS\_L.CAT file is located in the DCS Loader folder such as:

**...VISOTOOL.4\DCS\_LOAD**

This is where issue the VISONIK commands the DCS Loader must use to load foreign-language texts.

### Lines to insert

For each language that exists in the DCT.PRF file, a complete section, analogous to the one below, must exist.

An example for English shows which lines to insert (the commands must correspond to the relative language catalogue):

**[ ENGLISH ]**

**TXIp** = TXIU , Ip , CHNG

**TXIg** = TXSY , Ig , CHNG

**TXIm** = TXSY , Im , CHNG

**TXIV10** = TXIZ , I , CHNG

**TXUp** = TXIU , Ip , CHNG

**TXUg** = TXSY , Ig , CHNG

**TXUm** = TXSY , Im , CHNG

**TXUV10** = TXIZ , Z , CHNG

**TXC** = TXCM , C , CHNG

**TXCV10** = TXCM , C , CHNG

### Important

The language designations in brackets must be an exact match to those in the DCT.PRF file in sections [PARTNER\_N] ("DCS\_LANGUAGE = " entries).

**Workflow**

Make the above entries before starting the DCS Loader for the first time in the respective language.

<b>Step</b>	<b>Action</b>
1	Open the DCS_L.CAT file in the text editor.
2	Enter the information.
3	Save the file.



## 6.3 Translating the DCS Loader system texts

---

### Introduction

The DCS Loader system texts are located in the files named **DCS\_L\_xx.MSG**.

\*.MSG texts assign a specific language to the DCS Loader MMI.

The files are located in the DCS Loader folder, for example: ...\\VISOTOOL\DCS\_LOAD.

Create one file for each language, e.g., DCS\_L\_en.MSG for English, DCS\_L\_it.MSG for Italian, etc.

When operating the DCS Loader, you can quickly change between the three languages. Define the language descriptions to be used in the program in the [LANGUAGE] section.

### Comments

Two slashes (//) introduce the comment text. This text always ends at the end of a line. The program does not process comment texts which can thus be fully edited.

### Sections

Do not change the titles of the sections and their sequence.

Examples:

[ MESSAGE ]

[ WARNING ]

[ ERROR ]

**Entries  
available for  
editing**

All entries between quotation marks (messages, window titles, menus, actions) are available for full editing (exceptions: see below). Please note that the length is restricted due to text layout on screen.

Exceptions:

- Do not change the sequence within a section and the lead numbers with commas.
- Do not change the function keys (e.g. F2, F8, etc.), as they are encoded in the program's code.
- On selecting the hot keys in menus and commands, make sure that the same letter has not been assigned twice within the same context.

**Workflow**

Create the corresponding \*.MSG file before changing the DCS Loader language.

<b>Step</b>	<b>Action</b>
1	Open an output file such as DCS_L_en.MSG in the text editor.
2	Save the file under a new name.
3	Translate the texts.
4	Save the file.

## 6.4 Translating the DCS Loader help texts

---

<b>Introduction</b>	<p>The DCS Loader help texts are located in files named <b>DCS_L_xx.TXT</b>.</p> <p>*.TXT texts assign a specific language to the DCS Loader help texts.</p> <p>The files are located in the DCS Loader folder, for example: ...\\VISOTOOL.4\DCS_LOAD.</p> <p>Create one file for each language, e.g., DCS_L_en.TXT for English, DCS_L_it.TXT for Italian, etc.</p> <p>When operating the DCS Loader, you can quickly change between the three languages. Specify the designations for the corresponding system text file (*.MSG) in the [LANGUAGE] section.</p>
<b>Comments</b>	<p>Two slashes (//) introduce the comment text. This text always ends at the end of the respective line. The program does not process comment texts which can thus be fully edited.</p>
<b>Texts for help windows</b>	<p>Each text for a help window is preceded by a line which consists of a number and the @ character. Do not change these characters and their sequence.</p>
<b>Entries available for editing</b>	<p>You can edit the entire text between two window characters.</p>

**Workflow**

Create the corresponding \*.TXT file before changing the DCS Loader language.

<b>Step</b>	<b>Action</b>
1	Open an output file such as DCS_L_en.TXT in the text editor.
2	Save the file under a new name.
3	Translate the texts.
4	Save the file.

## 6.5 Translating DCT message texts

---

### Introduction

The message texts for the Data Communication Tool (DCT) are located in the **DCT.MSG** file.

DCT-MSG texts assign a specific language to the DCT's messages.

The file is located in the DCS Loader folder, for example: ...\\VISOTOOL\\DCS\_LOAD.

Because the DCT uses only this file, changeover during operation is not possible. In order to install a different language, you must rename the corresponding language file to DCT.MSG.

### Comments

Two slashes ( // ) introduce the comment text. This text always ends at the end of the respective line. The program does not process comment texts which can thus be fully edited.

### Entries available for editing

You can edit the entire text between quotation marks. However, the length may not exceed 80 characters or the length of a line.

Do not change the text numbers (incl. Comma) and the sequence of the texts.

### Workflow

Proceed as follows if you want to change the language of the DCT messages:

Step	Action
1	Create a backup copy of the DCT.MSG file (e.g. DCT.ENG).
2	Open DCT.MSG in the text editor.
3	Translate the texts.
4	Save the file.

## 6.6 Preparing communication partners

---

### Introduction

The DCS.PRF file is located in the DCS Loader folder such as:

**...\\VISOTOOL.4\\DCS\_LOAD**

This is where you must enter for the DCS Loader various information on each DCS you want to address. You can define 20 different DCSs at this location.

### Required information

Refer to chapter 6.7 “The DCT.PRF file” for more information on the various entries.

Enter the information on a partner in one of the [PARTNER\_N] sections. The following entries in the sections are required:

- NAME (system name of the partner)
- LANGUAGE (communications language; must be set to 0)
- LINK\_SYS\_NBR (0 or the partner substation number in a linked system)
- DCS\_LANGUAGE (max. three language descriptions for text catalogues in the partner)
- PARTNER (identification sequence of the partner)
- COM\_PORT (definition of the PC interface)

### Workflow

Make the above entries before starting the DCS Loader for the first time for a new DCS.

Step	Action
1	Open the DCS.PRF file in the text editor.
2	Enter the information.
3	Save the file.

### Recommendation

We recommend creating a partner for:

- Direct connections
- Modem connections
- Pipe connections

## 6.7 The DCT.PRF file

---

A description of all parameters is available in the DCT\_MAN.TXT file (e.g., additional parameters for connection via a Terminal Server).

### 6.7.1 INITIALIZE section

---

#### Introduction

The settings in the [INITIALIZE] section are initialisation values. These values in part are default values that are assumed when the corresponding values are not defined in the other sections.

#### APP\_WINDOW

Default:

APP\_WINDOW = no

Meaning:

"yes" activates a DCT window. This window contains the messages of the Data Communication Tools.

Enter the necessary information in the APP\_WINDOW section (see DCT\_MAN.TXT).

#### ERROR

Default:

ERROR = yes

Meaning:

"yes" lists all errors (configuration, ranges, communication, etc.) on-screen.

#### WARNING

Default:

WARNING = no

Meaning:

"yes" lists all warnings (configuration, ranges, time correction, etc.) on-screen.

**CLR\_SCREEN**

Default:  
CLR\_SCREEN = no

Meaning:  
"yes" deletes the screen on starting the Data Communication Tool.

**REPORT\_NR**

Default:  
REPORT\_NR = 0

Meaning:  
During communication, the DCT generates a report file named DCT\_n.REP, with continuous numbers from 0 to 99 and back to 0.  
This is where you can manually set the continuous number.  
If the report REPORT\_NR is missing, the DCT generates one file only: DCT\_0.REP.

**SIGN\_OF\_LIFE**

Default:  
SIGN\_OF\_LIFE = yes

Meaning:  
"yes" displays the following information in the upper right corner of the screen during communication:

- Communication status
- Communication time
- Data timeout

Example:  
RECEIVE            48/0

**COM\_TIMEOUT**

Default:  
COM\_TIMEOUT = 120

If communication to a partner is interrupted (step ASX dialog), the Data Communication Tool aborts connection after a specified time (in seconds).



**DATA\_TIMEOUT**      Default:  
DATA\_TIMEOUT = 60

Meaning:  
If not data are received on a request for data after the specified time (in seconds) or if communication to the DCS is interrupted, the DCT stops processing the current command line and jumps to the next line.

**LANGUAGE**            Default:  
LANGUAGE = 0

Meaning:  
Use this entry to communicate to the VISONIK server the language that is to be used for communication (0, 1 or 2).  
“-1” means that no language setting occurs.

**STDOUT**                Default:  
STDOUT = no

Meaning:  
“yes” lists all requested data on-screen.

**MESSAGE**             Default:  
MESSAGE = no

Meaning:  
“yes” outputs the current status of communication (connection phase, command line, etc.) on-screen.

**REQUEST**

Default:

REQUEST = no

Meaning:

On "no", the Data Communication Tool sends "abort" as a response to all input prompts.

(Exceptions: <Ctrl C>, <Ctrl Break>)

Caution:

If on "yes" an entry does not receive a reply for longer than the defined timeout COM\_TIMEOUT, the DCT also aborts an entries (e.g. during diskette access).

**TRACE**

Default:

TRACE = no

Meaning:

On "yes", the DCT lists on-screen each additional step.

You can define the level by entering TRC\_LEVEL.

## TRC\_LEVEL

Default:

TRC\_LEVEL = 0

Meaning:

This entry defines the individual step recording. Any bit combination is possible. A trace file is generated for all values of TRC\_LEVEL > 0. The trace file is named after the associated \*.CMD file with file extension \*.TRC.

Value	Bit	Recording
0	None	No recording
1	0	Low level Rx input
2	1	Low level Tx output
4	2	Text input
8	3	Text output
16	4	ASX input
32	5	ASX output
64	6	Timeframe 400 input
128	7	Other telegram formats

Examples:

TRC\_LEVEL = 3:

Low level Rx input and Low level Tx output

TRC\_LEVEL = 60:

ASX and text input and output

Caution:

Trace files quickly exceed 1MB and should therefore be generated only if really necessary.

## DIAGNOSTIC

Default:

DIAGNOSTIC = 0

Meaning:

On "1", the Data Communication Tool copies the \*.CMD file with extension \*.DIA and inserts, beginning at 1, an ascending number.

**STOP\_ON\_EXIT**

Default:

STOP\_ON\_EXIT = no

Meaning:

“yes” stops the Data Communication Tool at the end of communication. This allows you to view that last messages on screen. Pressing any key returns control to the DCT.

## 6.7.2 PARTNER\_N section

---

<b>Introduction</b>	The [PARTNER_N] section allows you to define all information required to identify a specific partner and communicate with that partner. The DCT replaces missing entries in the [INITIALIZE] section by a default value.
<b>Max. number of partners</b>	You can define max. 20 partners.
<b>NAME</b>	<p>Default: Name = " * "</p> <p>Meaning: For unambiguous identification, define the name of the VISONIK system at this location. When the DCT does not determine a match on communication start, an error message appears and communication is aborted.</p> <p>Possible inputs: The name must have at least three and no more than 32 characters. If no name check is conducted on communication start-up, character "*" must be entered before the system name. (e.g. *NEPTUN)</p>
<b>TIME_DIF</b>	<p>Default: TIME_DIF = 0</p> <p>Meaning: This is where the DCT saves the time difference between DCT and VISONIK. Do not change this entry.</p>

**LINK\_SYS\_NBR**

Default:

LINK\_SYS\_NBR = 0 (no linked system)

Meaning:

LINK\_SYS\_NBR determines the number of the linked system number in a linked system. The DCT attempts to establish communication to the associated system. If this attempt fails within 10 seconds, an error message appears.

Value range:

0 (individual DCS, not in the linked system)

1 ... 999, decimal

**SIO\_HW\_INT**

Default:

SIO\_HW\_INT = yes

Meaning:

(Serial I/O hardware signal interrupt)

On "yes", the following hardware signals trigger a modem status interrupt:

DCD Data Carrier Detect

CTS Clear to Send

DSR Data Set Ready

RI Ring Indicator (not used)

Modem connection:

Each modem connection requires these signals.

V.24 connection:

These signals are not required on direct connections. If communication problems occur, they can be suppressed by SIO\_HW\_INT = no.

**SIO\_HW\_INT**

Default:

SIO\_SW\_INT = no

Meaning:

(Serial I/O software signal interrupt)

On "yes", the following signals trigger a line status interrupt:

OE Overrun Error

PE Parity Error

FE Frame Error

BI Break Interrupt

Comment:

DCT uses ADDP protocol and ASX transport. This ensures optimum data security at high performance. Activate SIO\_SW\_INT only for testing purposes.

**VERSION**

Default:

VERSION = 0

Meaning:

On each communication pass with the DCS, the DCT checks the recorded system version against that of the DCS. If the two version do not match, the DCT asks if the number should be updated following communication.

If no version check is conducted on communication start-up, character "\*" must be entered before the version number.  
(e.g. \*12.2.92)

**PARTNER**

## Meaning:

This entry represents the partner identification sequence. It contains several parameters for communicating with the DCT. Refer to 6.7.3 "PARTNER parameters" for information on the individual parameters.

## Important:

The character string must begin or end with the following characters:

Beginning: ';' (inverted command and semi-colon)

End: '.' (period and inverted comma)

Separate the individual parameters by a semi-colon.

**COM\_PORT**

## Meaning:

This entry defines the interface of the PC used for the DCS Loader.

Refer to 6.7.4 "COM\_PORT parameters" for information on the individual parameters.

## Important:

The character string must begin or end with the following characters:

Beginning: ';' (inverted command and semi-colon)

End: '.' (period and inverted comma)

Separate the individual parameters by a semi-colon.

**DUS\_ALLOWED**

## Default:

DUS\_ALLOWED = no

## Meaning:

"yes" allows for temporary change of a system in a linked system. Enter the associated commands for change (e.g. DUS,NEP) and return by entering the regular DCS syntax in the \*.CMD file.

**DATE\_TIME**

## Meaning:

DATE\_TIME is used only for information and contains the date and time of the last communication.



**DCT\_ID**

Default:

DCT\_ID = 51

Meaning:

DCT\_ID serves to identify the VISONIK data server's partner.  
DCT can correctly function only if it has been set to 51.

**DCS\_LANGUAGE**

Meaning:

Enter for the text catalogues maximum three languages that  
you want to make available in the DCS Loader.

Examples:

Use of three languages (0, 1, and 2):

DCS\_LANGUAGE = German,English,Italian

Use of the two languages 0 and 2:

DCS\_LANGUAGE = German,,French

Note:

Use the same language designation for all partners!

### 6.7.3 PARTNER parameters

#### Introduction

The PARTNER parameters are used to identify and communicate with the individual partners. In fact, they define the partners' interfaces. If a parameter is missing, the DCT uses the internal default value.

All parameters defined in the [PARTNER\_N] section apply only to that partner.

#### Meaning of parameters

Note: Separate the various parameters by a semi-colon.

Par.	Meaning	Default
lu	Connection substation number (0: no linked system)	0
mu	Modem substation number	0
ink	Connection number in linked system (0: no linked system)	0
c2	Telephone number of partner (several numbers are possible)	
br	Duration of a break signal in seconds (0: no break)	0
rp	Maximum number of redial attempts (modem)	0
tm	Minimum waiting time for redialing in seconds	60
	For special cases only:	
c1	Prefix for modem calling sequence	ATDP
c3	Postfix for modem calling sequence	no Postfix
in	Modem initialisation sequence	AT
td	Modem reset sequence	ATZ
wc	Waiting time for connect timeout in seconds	45

## Examples

The following examples apply to a minimum configuration.

Direct V.24 connection:

```
PARTNER = `;lu=0;mu=0.'
```

Modem connection:

```
PARTNER = `;lu=0;mu=168;c2=042 24 48 60;  
c2=042 24 48 62.'
```

V.24 connection with linked system:

```
PARTNER = `;lu=0;mu=0;lnk=248.'
```

## 6.7.4 COM\_PORT parameters

### Introduction

"COM\_PORT parameters" are used to define the PC interface. If a parameter is missing, the DCT uses the internal default value.

All parameters defined in the [PARTNER\_N] section apply only to that partner.

### Meaning of parameters

Note: Separate the various parameters by a semi-colon.

Par.	Meaning	Default
com	Interface (com1...com4)	com1
bd	Baud rate (75..9600 bps)	1200
mk	Modem class (0 = V.24 direct connection >0 = Modem connection)	2
tc	Parameter for command phase (interface ↔ modem)	8N1
br	Duration of a break signal in seconds (modem, 0: no break)	0
c1	Prefix for modem calling sequence	ATDP
c3	Postfix for modem calling sequence	no Postfix
fb	Fixed baud rate (interface ↔ modem)	0
fi	Terminator for modem commands	<CR>
in	Modem initialisation sequence	AT
rs	Modem reset sequence	ATZ
wc	Waiting time for connect timeout in seconds	45
	<b>For special cases only:</b>	
rp	Maximum number of redial attempts (modem)	0

## Examples

The following examples apply to a minimum configuration.

Direct V.24 connection:

```
COM_PORT = ` ; com=com1 ; bd=9600 ; mk=0 . '
```

Modem connection:

```
COM_PORT =
```

```
` ; com=com2 ; bd=1200 ; mk=2 ; in="AT&C1&D2s0=1" . '
```

V.24 connection with linked system:

```
COM_PORT = ` ; com=com3 ; bd=4800 ; mk=0 . '
```

## 6.7.5 Minimum DCT.PRF configuration

---

### Introduction

The following example with partner shows the entries that you cannot change behind the comment marker (//).

### Example

```
[ INITIALIZE ]
REPORT_NR      = 0           // do not change!
DCT_ID         = 51          // do not change!
COM_TIMEOUT    = 120
DATA_TIMEOUT   = 90
SIGN_OF_LIFE   = yes
APP_WINDOW     = no
STDOUT         = no
ERROR          = yes
MESSAGE        = yes
WARNING        = yes
REQUEST        = yes
TRACE          = no
TRC_LEVEL      = 0
CLR_SCREEN     = no

[ PARTNER_1 ]
NAME           = "Partner System-1"
TIME_DIF       = -7482       // do not change!
PARTNER        = ';lu=132;mu=0.'
COM_PORT       = ';com=com1;bd=9600;mk=0.'
```

## 6.8 \*.VIS files

---

### Introduction

Project-specific \*.VIS files are generated on compilation in PRVCONF. These files contain the DCS configuration with technical addresses, user addresses, texts, etc.

\*.VIS files consist of several sections as shown below.

Each section is introduced by a character string [BEGIN\_SECTION] and completed by a character string [END\_SECTION].

### [BEGIN\_INI] [END\_INI]

The INI section contains data that are checked prior to communication. If part of this information does not match the DCS configuration, communication is aborted.

```
[ BEGIN_INI ]
SYSVER>=12
DATVER==2.0
LEVEL>=7/7
LANGUAGE=GER
XX=0
ADRFORM=="AAA1 ' AA1 ' 1AAA ' AAA ' A11 "
[ END_INI ]
```

### [BEGIN\_GEN] [END\_GEN]

The GEN section contains data required for generating the points. In a first step, the points with the technical address and the user address are created.

```
[ BEGIN_GEN ]
TA=$d10'020,CTYP=ML,NAME="ANL1 ' SR5 ' 3.OG' Lft ' M01" ;
TA=$d10'021,CTYP=ML,NAME="ANL1 ' SR5 ' 3.OG' Lft ' M02" ;
[ END_GEN ]
```

**[BEGIN\_PAR]** The PAR section contains data required for parameterizing the  
**[END\_PAR]** points. After point generation, the points are selected in from  
this section and parameterized.

```
[ BEGIN_PAR ]  
TA=$d10'020 , TXI=m523 , TXI2=p502 , TXU=g37 ;  
TA=$d10'000 , TXI=m515 , TXI2=p502 , TXU=g130 ;  
[ END_PAR ]
```

**[BEGIN\_TXI]** The TXI section contains the project-specific TXI catalogue.  
**[END\_TXI]** The TXIm catalogue is located on the DCS as a master  
catalogue. It matches the text catalogue from PRVCONF.  
This catalogue can be loaded through file STDRDXTX.VIS.

```
[ BEGIN_TXI ]  
p502="ANL1 LFT SR5 " ;  
p503="ANL1 LFT SR6 " ;  
[ END_TXI ]
```

**[BEGIN\_TXU]** The TXU section contains the project-specific TXU catalogue.  
**[END\_TXU]** The TXUm catalogue is located on the DCS as a master  
catalogue. It matches the text catalogue from PRVCONF.  
This catalogue can be loaded through file STDRDXTX.VIS.

```
[ BEGIN_TXU ]  
p402="Normal " ;  
p403="Übergel. " ;  
p404="#####" ;  
[ END_TXU ]
```

**[BEGIN\_FREE]** The FREE section can contain any command line, e.g., for  
**[END\_FREE]** loading the process image from the DCS to the controller:

```
[ BEGINN_FREE ]  
PKT , $d2'PS , OP , LOPA  
[ END_FREE ]
```



## 6.9 ETS input file for uploading

---

<b>Keywords</b>	The ETS input file contains commands with the following keywords: !TARGET! !TA!
<b>Entering the DCS output file</b>	The DCS Loader replaces the !TARGET! entry by the input in the "DCS Output" field.
<b>Entering the address range</b>	The DCS Loader replaces the !TA! entry by the input in the "TA Address Range" field.

## 6.10 DCT command file

---

<b>Contents</b>	The contents of the DCT command file are as follows:  1. Line: Keyword //CMD-FILE  Command lines with output: Output file; Command line;  Command lines without output: ;Command line;
-----------------	---

## 6.11 File tests

---

### Introduction

The DCS Loader conducts a file test prior to converting the input file into a \*.CMD file. During the test, the Loader is searching for a specific keyword in the 1<sup>st</sup> line. If the DCS Loader cannot find the keyword, conversion is not started and an error message appears.

### Keywords

The following keywords are tested:

Input file	Keyword
Download (*.VIS file)	[BEGIN_INI]
Upload (ETS file)	UPLOAD
Command file	CMD_FILE

## 6.12 Information files

### 6.12.1 Error files

### Meaning

\*.ERR files contain a list of all error messages issued during communication.

## 6.12.2 Report files

---

<b>Meaning</b>	<p>The REPORT file DCT.REP lists all events according to their occurrence. Accordingly, this file contains important information for service:</p> <ul style="list-style-type: none"><li>• All communication steps with a partner.</li><li>• All error messages, warnings, etc.</li><li>• All DCS information not saved in a data file.</li><li>• All command lines and the associated splitting.</li></ul>
<b>Structure</b>	<p>REPORT files are not structured files. Instead, they are ASCII files that can be viewed in any editor.</p>
<b>Saving 100 REPORT files</b>	<p>Condition: The DCT.PRF file contains entry REPORT_NR.</p> <p>In this case, the Data Communication Tool generates REPORT files with the following designations from the last 100 communication events: DCT_n.REP.</p> <p>The REPORT_NR entry defines number n for the initial file.</p>
<b>Saving a single REPORT file</b>	<p>Condition: The DCT.PRF file does not have a REPORT_NR entry. We recommend this option to save memory on the hard disk.</p> <p>In this case, the DCT overwrites the REPORT file named DCT_0.REP on each communication event.</p>

### 6.12.3 Trace files

---

<b>Meaning</b>	In order to better and faster find a communications error, DCT provides a trace recording. The trace lists every individual step in a file and, if required, on-screen.
<b>Structure</b>	TRC files are ASCII files that can be viewed in any editor.
<b>Generating trace files</b>	Define the trace level via the TRC_LEVEL entry in the DCT.PRF file ([INITIALIZE] section). Each trace level greater than 0 results in generation of a *.TRC file.
<b>File name</b>	The file name of a trace file consists of the name of the *.CMD file and the file extension *.TRC.
<b>Trace output on screen</b>	When you also want to display a trace recording on screen, set the TRACE entry to "yes" in the trace file in the [INITIALIZE] section.
<b>Important</b>	<p>Normally, the trace function should be inactive (TRC_LEVEL = 0) as it requires a lot of hard disk space and slows down communication.</p> <p>Because "ADDP" does not support "Xon/Xoff", you can neither stop communication via &lt;Ctrl S&gt; nor start it via &lt;Ctrl Q&gt;.</p>

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DCS-Loader

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