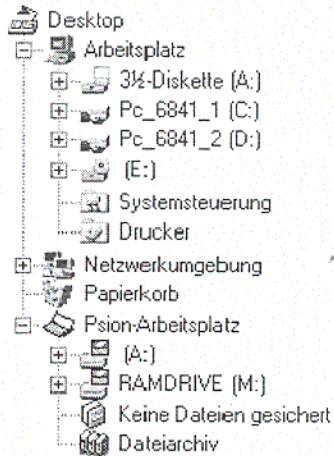


## 6.2.2 Using the PSION File Manager

The PSION file manager is installed in the Windows Explorer of your PC. This provides your Explorer with additional drives. The following figure shows a sample configuration. You will find it very easy to copy data and programs the way you always have with Explorer.



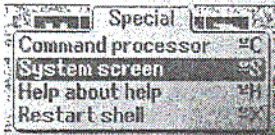
The PSION desktop is set up in Explorer when PsiWin is installed.

You will not be able to open the PSION desktop in Explorer until you connect the PSION with the 3link cable and the wall holder, and enable the interface for communication (i.e., port C).

### How to enable port C:

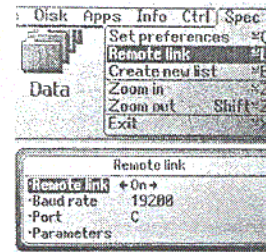


- Exit the STG program with EXIT. The basic PSION menu appears.



- Menu key: Position the cursor on "System screen," and acknowledge with "Enter." A user interface similar to Windows appears.

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JOB # : 183U0  
EXHIBIT # : 5c



- Menu key: Call SPEC/REMOTE LINK. The "Remote link" window appears.
- Make the following settings in this window. Remote link = ON, baud rate = 19200, port = C, parameters = (don't specify anything).
- Before you acknowledge with "Enter," establish a connection to the PC with the 3link cable described in chapter 6.2.1. Otherwise you will receive the message "Device does not exist."

If you made wrong entries during this procedure and are unable to continue, perform a system RESET as described in chapter 6.7.

If the message "keine Verbindung" (i.e., no connection) continues to appear in the PSION desktop directory of Explorer, check the 3link cable between the hand-held terminal and the PC, and the REMOTE setting on the hand-held terminal.

Open the file tree of the hand-held terminal by double-clicking the "RAMDRIVE" drive. There you will find, among others, the "READ\_E/F/I.HEX" file and the files which you stored with the extension ".HEX." Now drag and drop or copy these files from the PSION drive to the PC drive.

The length of the READ or WRITE file is the same as that of the MDS which was read.

- READ\_F.HEX: 5 bytes for MOBY F (after reading an F1xx MDS)  
192 bytes for MOBY F (after reading an F4xx MDS)  
256 bytes for MOBY F (after reading the raw data of an F4xx MDS)
- READ\_E.HEX: 768 bytes for MOBY E (in normal mode)  
1024 bytes for MOBY E (after reading the raw data)  
1024 bytes for MOBY E (in SIM mode)
- READ\_I.HEX:

Setup Setting	No ECC	With ECC
62 bytes	62	42
128 bytes	128	112
2 KB	2045	1778
8 KB	8189	7154
32 KB	32765	28658

The contents of the file can now be indicated and changed with an appropriate editor on your PC.

**When ASCII data were read from the MDS:**

Any editor can be used (e.g., NOTEPAD, WRITE, WORD and so on).

**When binary data were exchanged with the MDS:**

Use a HEX editor. HEX editors are available on the shareware market (e.g., Hedit and so on) or on the professional market (e.g., Codewright).

After concluding your session with PsiWin, the remote-link connection should be disconnected again.

To restart the STG application, see chapter 6.7.

Before starting a new session with PsiWin, the STG application should be exited.

### 6.2.3 Organization of the READ.HEX File

The READ\_x.HEX file only contains the pure data which also exist on the MDS. The length of the file is the same as that of the MDS, specified in bytes.

## 6.3 Functions with the PSION Operating System

You can use the FILE/EXIT menu command to access the operating system level of the hard-held terminal. We will now describe some of the functions which are available with the PSION operating system.

- Simple writing of a batch file to copy MDS data to a memory card (e.g., on drive B:).
- Generation and modification of an AUTOEXEC file to change the time for automatic switch-off or the time for the backlight to save battery power and thus increase operating time for one battery charge. The AUTOEXEC file is located in directory A:\BTF\Autoexec.btf.
- Edit the read MOBY data with the PSION editor. Remember that this editor can only be used when the MDS data are in ASCII format.
- Spread sheet function
- Calculator
- Execution of DOS commands

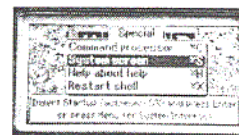
See the manual entitled "PSION Workabout USER GUIDE" for a detailed description of operating system functions and standard programs. This manual can be ordered from PSION. See appendix A.1.

## 6.4 Parallel Execution of Several Applications

Several applications can be processed at the same time on the Windows level of the PSION hand-held terminal.

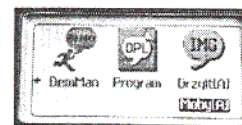
Proceed as shown below.

- Exit the MOBY service and test program. The following basic PSION screen appears.



- Menu -> System screen

You are in the Windows level of the PSION. Several icons appear on the display.



- Move the cursor to the right until the IMG application appears on the display.
- The applications which you can start are shown under the IMG icon.
  - MOBY = MOBY service and test program
  - FILEHAND = MOBY filehandler programm
  - MENU = MOBY program selection menu
  - Other customer applications. These must be stored in the IMG directory. On delivery, no other application is indicated here.
- Select the MOBY application with the cursor keys, and press Enter. The familiar MOBY STG application is started.
- Press the key combination "⌘ + TAB." The basic PSION screen reappears on the display.
- Select the next program to be started on the IMG icon or on the total Windows screen (e.g., the CALC pocket calculator), and start it by pressing Enter. This program now appears on the monitor screen.



This procedure can be used to start applications and PSION operating programs in addition to the normal MOBY application. All programs run simultaneously on the hand-held terminal.

## 6.5 Automatic Power Saver Function

The PSION hand-held terminal has an automatic power saver function. This is activated after no keys have been pressed on the PSION for approximately 5 minutes.

In addition, the STG program has another power saver function. The MDS command being executed is interrupted if no MDS is detected 30 seconds after the start of an MDS command or the MDS being processed is moved out of the field for more than 30 seconds. The following message appears.



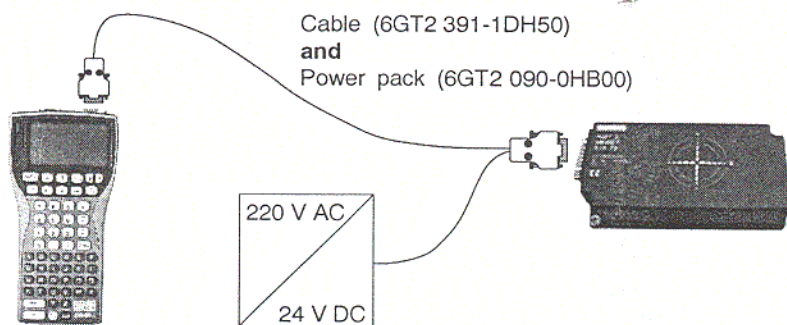
You can now completely terminate the command with ESC or continue with ENTER. If you decide to continue, the interrupted command is continued at the point at which it was interrupted.

## 6.6 Connecting SIM Devices (MOBY E/I/V)

A MOBY E SIM can be connected to the RS 232 interface of the PSION. The following figure shows the connection diagram. Before commissioning, a switch must be made to MOBY E/SIM or ASM 420/I/V with the "EXTRAS/COMMUNICATION/PROTOCOL" function.

With this configuration, SIM can be used to work with the "MOBY" program and user applications with the MOBY library. Cf. chapter appendix A.2.

### MOBY E/SIM:



### Note

Since the standard SIM uses cyclic operation, it takes much, much longer to process a read/write command than with the STG read head. The EXTRAS/MOBY E Setup/MODE command can be used to switch the SIM to the faster read mode. This command must be repeated each time SIM is turned on.

### ASM 420/I/V:

This settings permits an ASM 420/RS 232 to be connected to the hand-held terminal. The connection cable must comply with the specifications in the ASM 420 documentation. In ASM 420 mode, the MOBY V driver is always enabled during the STG program. SLG 65 can be used on the ASM 420 with this. Use of MOBY I SLGs is limited.

Assignment of the RS 232 interface on the hand-held terminal:

Pin	Designation
2	TxD
3	RxD
5	Gnd

## 6.7 System RESET

The hand-held terminal executes a system RESET when the device is turned on for the first time after the batteries have been installed. This RESET is the same as a hardware RESET.

A system RESET can also be triggered by hand. To do this, press the  $\surd$  key + Ctrl + Del (Shift + Esc + Del on the PSION with the numerical keyboard) simultaneously.

During the system RESET:

- The MOBY STG application is started again.
- Data stored in flash memory are always retained (drive A: or B:).
- The data in RAM memory (drive "RAMDRIVE:") are retained. However, these data will be lost if all batteries (including lithium cell) of the PSION are removed.

## 7 The "MOBY" Program with the PSION Numeric Model

The MOBY service and test program also functions without restrictions on the PSION Workabout with numeric keyboard. This PSION model is useful for applications in which only simple and identical applications are performed by untrained personnel. This model of the hand-held terminal can be ordered directly from PSION. See appendix A.

The functionality of the 4 function keys can also be put to good use. The following STG functions can be called directly via function key.

F1 = Read MDS

F2 = Write MDS


F3 = Load data from file

F4 = Save data in file

Data can only be entered with the numeric keys.

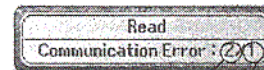
## 8 Error Messages

### What to do when ...

- ... The PSION display goes blank during MOBY read/write.
  - The batteries of the PSION are empty. Insert device in the charging shell, or install new batteries.
  - The battery pack was installed incorrectly in the hand-held terminal. The catch of the battery pack must be on the left side.
- ... The display remains blank after the device is turned on.
  - The batteries are empty.
  - The contrast of the display is not adjusted correctly. To adjust, use the  key in the top row.
- ... Error messages appear but they are not defined anywhere.
  - Remove both batteries from the hand-held terminal. Wait 60 seconds, and replace them again. The device is now in its status on delivery. If the error continues to occur, the device may be defective.

### 8.1 Error Messages with the "MOBY STG" Program

The messages in the following tables can occur during operation. The messages are indicated in a separate window. A message can have the following format.



Type of error  
Exact error designation

The message is coded in several digits, has the format is xx/yy/zz, and is used for precise error analysis. The following tables list the types of errors and the error designations in detail. The information in /zz is included in some messages. "zz" contains additional error information (e.g., the block in which the error occurred).



Type of Error	Description
1 to 2	General errors
3 to 8	MOBY E errors
10 to 15	MOBY F errors
20	Timer errors
30 to 37	MOBY I errors

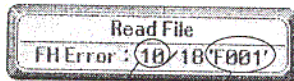
Error Designation	Possible Causes and Their Correction
1, 2	<ul style="list-style-type: none"> <li>Reader device fails to send start protocol.</li> <li>Is read head screwed on?</li> <li>Does the read head match the protocol setting? (See menu: EXTRAS/COMMUNICATION.)</li> <li>Batteries in the reader device are dead. (The batteries may be defective.)</li> <li>Internal program error</li> </ul>
7	Interface defective
10, 11, 12	Reader device doesn't answer at all or sends an incorrect answer (MDS F4xx).
20	<ul style="list-style-type: none"> <li>Reader device doesn't answer.</li> <li>Check parameters in the EXTRAS/COMMUNICATION menu. With SIM mode, "Interface" and "Protocol" must both be set to SIM.</li> <li>Batteries in the reader device are empty. (The batteries may be defective.)</li> </ul>
21	Reader device doesn't answer at all or sends an incorrect answer.
25	<ul style="list-style-type: none"> <li>Reader device sends the wrong answer.</li> <li>MDS is not personalized with the MOBY key.</li> </ul>
32	Illegal request <ul style="list-style-type: none"> <li>Check contact to read head.</li> </ul>
33, 34, 35, 36	Internal program error <ul style="list-style-type: none"> <li>Exit STG program, and start again.</li> </ul>
37	<ul style="list-style-type: none"> <li>Read head gives you an error message.</li> <li>Read head is faulty.</li> <li>CRC error of MDS. Communication error to MDS. MDS is located on the boundary.</li> <li>MDS has a defect.</li> </ul>
38	Several MDSs are in the field.

Error Designation	Possible Causes and Their Correction
40, 41, 42	Reader device doesn't answer at all or sends an incorrect answer (MDS F1xx).
50	Error while reading or writing the MDS data
52, 53, 54, 55, 56, 57	Internal program error on MOBY read head
63	Authentication error. The MDS doesn't have the MOBY key. <ul style="list-style-type: none"> <li>Try setting the "B" key under "EXTRAS/MOBY E Setup."</li> </ul>
65	Interface error. Appears when a SIM is connected. <ul style="list-style-type: none"> <li>Check parameters in the "EXTRAS/COMMUNICATION" menu.</li> <li>Check plug and cable to SIM.</li> </ul>
66	General read/write error on MOBY read head
67	Internal program error on MOBY read head
80	MDS type on reader device is not supported.
103	Error in the connection to the SLG <ul style="list-style-type: none"> <li>Read head hardware has a defect.</li> </ul>
104	Error in MDS memory <ul style="list-style-type: none"> <li>Execute INIT command. Before executing this command, make sure that the memory size of the MDS is set correctly under "EXTRAS/MOBY I Setup."</li> <li>The MDS is defective.</li> </ul>
105	MOBY command cannot be interpreted by the read head. <ul style="list-style-type: none"> <li>Check the memory size under "EXTRAS/MOBY I Setup."</li> </ul>
106	Field interference on read head. External interference.
107	Too many sending errors. The MDS wasn't able to correctly receive the data from the read head. <ul style="list-style-type: none"> <li>The MDS is located in the boundary area of the read head.</li> </ul>
109	CRC error due to field interference while initializing the MDS
110	MDS cannot be initialized and is defective.
111	Timeout during initialization <ul style="list-style-type: none"> <li>The MDS is located in the boundary area of the read head.</li> <li>An MDS 507 is initialized but MDS 507 mode has not been enabled under "EXTRAS/MOBY I Setup."</li> </ul>
112	The MDS memory cannot be written and is defective.

Error Designation	Possible Causes and Their Correction
113	The address area of the MDS was exceeded. <ul style="list-style-type: none"> <li>Check the memory size under "EXTRAS/MOBY I Setup."</li> </ul>
114	ECC error or MDS not initialized in ECC mode <ul style="list-style-type: none"> <li>Enable ECC mode under "EXTRAS/MOBY I Setup," and then execute the INIT command.</li> </ul>
115	Reset message after return of power <ul style="list-style-type: none"> <li>The hand-held terminal has a defect in the power supply to the read head. (Try charging/replacing the batteries.)</li> <li>The hardware of the read head has a defect.</li> </ul>
125	Internal program error. Previous command is active.
130	Internal program error. The telegram layout of the command to the read head is wrong.

## 8.2 Error Messages with the "FILEHANDLER" Program

The following table lists the messages which can occur with the filehandler. A filehandler error message looks like this.



Type of error  
(see chap. 8.2)

Exact filehandler error

The filehandler error is shown in the same way as the filehandler on the SIMATIC. The error message has one alpha character followed by a 3-position number. Most of the error codes are identical with the error numbers of all MOBY filehandler interfaces.

Filehandler Error	Description of Error, Its Cause and Correction	Type of Error
A006	Unknown command. Command identifier KK is illegal.	Protocol errors
A011	With 1st command block: DBN not 1 With next block: KK or DBN incorrect	
A015	Checkbyte error while receiving from S5	
A016	Command from other sender is being processed.	
A020	Wrong number of characters in the telegram	
B001	Error in the connection to the SLG Read head defective	SLG errors

Filehandler Error	Description of Error, Its Cause and Correction	Type of Error	
C002	Error on RAM of the MDS. Replace MDS and perform FORMAT.	MDS errors	
C006	Presence error. MDS in boundary area.		
C007	Parameterization error during FORMAT. Command cannot be interpreted.		
C008	Too many sync attempts. Field interference on read head.		
C009	Too many sending errors		
C010	CRC sending error		
C011	FORMAT. CRC error while receiving.		
C012	FORMAT. MDS cannot be initialized.		
C013	FORMAT, timeout. MDS in boundary area.		
C014	FORMAT, not initialized. Check Extras/Parameter.		
C015	CMD address error. Check Extras/Parameter.		
C016	ECC error. Format MDS again. Disable ECC mode.		
C017	General driver error		
D001	Only RESET command permitted		Job-related errors
D005	Illegal parameters for FORMAT, CREATE, WRITE, UPDATE or ATTRIB		
D009	RESET command parameter wrong		
D014	CREATE and WRITE: The user data area of the MDS is completely full.		
D015	Only FORMAT command possible. MDS not identified.		
D018	Start address in the command is outside the data area (i.e., start address > file length).		
D022	Directory and/or FAT. Modifying an MDS protected with COVER is illegal.		
D023	COVER: MDS name wrong		
E001	MDS type is wrong or doesn't match the set mode (ECC).	Directory-related errors	
E002	CREATE command: No more directory entries free		
E003	CREATE command: File already exists in the directory.		
E005	READ or WRITE: A FAT block sequence error was determined. The FAT is defective.	File-related errors	
F001	The addressed file does not exist.		
F005	WRITE/UPDATE/DELETE command for a file which is protected with the appropriate attribute		



Filehandler Error	Description of Error, Its Cause and Correction	Type of Error
H140	Serial interface error	Error messages of the filehandler application
H141	Wrong interface	
H142	Faulty timer	
H143	Interface error	
H144	Start-protocol error	
H145	Reset error, WRITE	
H146	Reset error, READ, no STX	
H147	Reset error, READ, timeout	
H148	Reset error, READ, wrong response	
H149	Start error, WRITE	
H150	Start error, READ, no STX	
H151	Start error, READ, timeout	
H152	Start error, READ, wrong response	
H153	Start error, WRITE, length too long	

## 9 Technical Data

Hardware	
Processor	NEC V30mx, 27.68 MHz, 80C86-compatible
RAM memory	2 Mbytes of which approx. 1.8 Mbytes can be used as desired
ROM memory	2 Mbytes for operating system
User program	256 Kbytes with MOBY service and test program
Monitor screen	Graphic LCD monitor screen with 240 x 100 pixels, gray-stage scale, backlighting can be turned on
Keyboard	Alphanumeric with 57 keys
Sound	Piezo signal encoder
Power supply	NiCd battery pack with 2 type-AA cells (850 mAh) High-speed chargeable, automatic switch-off Operation time: 20 hours (Read head inactive, display not lighted) 4.5 hours (Read head active, display not lighted) 10 hours (Read head inactive, display lighted) Backup battery: 3 V lithium cell (CR 1620)
Interfaces	LIF interface (LIF = Low Insertion Force) for battery charging and communication with PC and printer (3link cable not included) RS 232 and TTL interface for connection of a MOBY read head
Security	Locking mechanism for battery and program memory
Software	
Operating system	EPOC/16 multitasking, graphics support, GUI interface, Interpreter similar to MS-DOS
File management	MS-DOS-compatible
Integrated software	MOBY service and test program, spread sheet calculation, data base, pocket calculator, communication

Technical Data	Complete Device (incl. Batteries)	Read Head
Dimensions	260 x 90 x 35 [mm]	90 x 64 x 35 [mm]
Weight	Approx. 440 g	Approx. 110 g
Temperature	Operation: -20 °C to +60 °C Storage: -25 °C to +80 °C (without batteries)	
Relative humidity	0% to 90%, no condensation	
Protection rating	IP 54 (protected against splashed water)	
Shock resistance	Max. falling height on concrete: 1 m	
EMC	EN 55022	
Electrostatic, RF, EFT	IEC 801-2; IEC 801-3; IEC 801-4	
<b>RF read/write head</b>		
MOBY E	13.56 MHz (MIFARE) Max. read distance: 30 mm with MDS E611 18 mm with MDS E600 8 mm with MDS E624 4 mm with MDS E623 3 mm with MDS E623, mounted in metal  Certifications: ETS 300 330 reg. no. G100213L FCC ID: KR5MIS	
MOBY F	125 kHz (HITAG) Max. read distance: 80 mm with MDS F125 50 mm with MDS F415 60 mm with MDS F124  Certifications: ETS 300 330 reg. no. G100294L IF	
MOBY I	1.81 MHz (data); 134 kHz (power)	
	MDS Type	Max. Read Distance (in mm)
	302/402/401	6
	114/514/413E/404	20
	403	8
	506	12
	438E/439E	12
	507 with battery	35
	507 without battery	4

## A Appendix

### A.1 Ordering Components for Expanded Functions

The expanded functions of the MOBY STG hand-held terminal require components which are not available from Siemens A&D SE.

If you need these components for your MOBY application, please contact PSION directly or its representative in your country. You will find addresses and order lists from PSION on the Internet under [www.pSION.com/industrial/](http://www.pSION.com/industrial/). The PSION representative in your country is also located under this Internet address.

The following components are required for the STG application as options.

Ordering Designation	Remarks
3link interface for wall and vehicle holder	
Dual AT/XT connection cable for the PC	
PsiWin software (for Win 95/NT)	Also available free of charge under the PSION Internet address
User's guide for PSION Workabout	Ask your PSION representative.
<b>Additional Components required for writing your own applications</b>	
C development package for Workabout (SIBO C SDK)	Standard or professional available, incl. Top Speed C compiler
Manual for C development package	

Ask PSION or its representative directly for information on the following PSION components.

- OVAL programming environment
- Memory expansion
- High-speed charging devices
- PSION Workabout with numeric keyboard

These components are not required for the STG application. They are only of importance if you want to program your own identification application on the hand-held terminal.



## A.2 Developing User Applications

### What Do I Need?

The C development package from PSION (SIBO C SDK incl. Top Speed Compiler) is required for user applications.

For the communication connection, you will also need a 3link interface and the PC cable with a 9-pin sub D and mini DIN plug connector.

**Although, in principle, applications can also be developed with the Basic programming language OVAL, the MOBY library cannot be used.**

### The MOBY Library

A library for MOBY E, MOBY F and MOBY I is available. The library (MOBY E, MOBY F and MOBY I) must be ordered under order number 6GT2 381-1AB00. The C library also includes a description of the interface commands.

The tables below provide a summary of implemented commands.

### The MOBY E library

Function Call	Short Description	Type of Command
CCT_READ_N_BLOCK	Read card data (1 to n data blocks, max. of 96 bytes)	Standard
CCT_WRITE_N_BLOCK	Write card data (1 to n data blocks, max. of 96 bytes)	Standard
CCT_WRITE_SIGNAL	Address digital output, reserved for switching the antenna	Standard
CCT_OFF	Turn off antenna field	Standard
CCT_MODE	Set field mode of the antenna field	Standard
CCT_OPEN	Open logical device	Only for SIM operation via RS 232
CCT_CLOSE	Close logical device	Only for SIM operation via RS 232
CCT_SETKEY	Parameterize read-card/write-card interface	Optional
CCT_SET_KEY_TEMP	Change temporary key	Optional
CCT_GET_FIELD_STATE	Scan current card indices	Optional
CCT_RESET	Reset read head	Optional - general command

Although the commands of the MOBY E library are the same as those of the standard MOBY E library "CCTWAPI," not all commands of "CCTWAPI" are available on the hand-held terminal.

**The MOBY F library**

Function Call	Short Description
proloc_ReadBlock	Reads a block from the MDS (16 bytes)
proloc_ReadPage	Reads a page from the MDS (4 bytes)
proloc_WriteBlock	Writes a block to the MDS (16 bytes)
proloc_WritePage	Writes a page to the MDS (4 bytes)
proloc_GetSnr	Reads the TagID from the MDS
nGetTagType	Determines the type of MDS in the antenna field
nMobyFOpen	Opens a serial interface in PSION
vMobyFClose	Closes the opened interface

**The MOBY I library (normal addressing of MDS)**

Function Call	Short Description
moby_init	Initializes an MDS with a filler character from address 0 to the end address
moby_read	Reads a data block from the MDS
moby_write	Writes a data block to the MDS
moby_reset	Sends a reset command with parameterization to the read head
moby_status	Sends a status command to the read head
nMobyIOpen	Opens the interface and turns on the read head
vMobyIClose	Closes the interface and turns off the read head
nMobyIReadStartProtocol	Reads the startup telegram from the read head

**MOBY I Library (filehandler addressing)**

Function Call	Short Description
wFhRead	Reads a complete file from the MDS
wFhWrite	Writes a file or appends data to a file
wFhMdsStatus	Sends a status command to the MDS
wFhAttrib	Sets a file attribute
wFhDelete	Deletes a file from the MDS
wFhCreate	Sets up a new file on the MDS
wFhFormat	Formats an MDS
wFhDir	Reads a directory from the MDS
wFhCover	Protects the MDS file structure
wFhDirInfo	Writes information from the "DIR" structure to the "DirInfo" structure
nTagTypeFromTable	Returns the MDS type from a table
lTagLenFromTable	Returns the MDS size from a table
Fhreset	Resets the filehandler
nFhOpenCom	Opens the interface and turns on the read head
vFhCloseCom	Closes the interface and turns off the read head



A.3 ASCII Table

dec.	hex.	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12	+13	+14	+15
		+00	+01	+02	+03	+04	+05	+06	+07	+08	+09	+0A	+0B	+0C	+0D	+0E	+0F
0	0x00		*	>	*	0	1	2	3	4	5	6	7	8	9	:	;
16	0x10	+	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
32	0x20		!	!	!	!	!	!	!	!	!	!	!	!	!	!	!
48	0x30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	0x40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
80	0x50	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	^	_	~
96	0x60	'	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
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240	0xF0	-															

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- |   |   |
|---|---|
| <input type="checkbox"/> Automotive industry        | <input type="checkbox"/> Pharmaceuticals industry |
| <input type="checkbox"/> Chemical industry          | <input type="checkbox"/> Plastics processing      |
| <input type="checkbox"/> Electrical industry        | <input type="checkbox"/> Paper industry           |
| <input type="checkbox"/> Foodstuffs                 | <input type="checkbox"/> Textiles industry        |
| <input type="checkbox"/> Process control technology | <input type="checkbox"/> Transportation industry  |
| <input type="checkbox"/> Mechanical engineering     | <input type="checkbox"/> Other _____              |
| <input type="checkbox"/> Petrochemistry             |   |

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