



Control Systems and Components

Saia NT Technical Document

E-mail on xx7

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Table of Contents

1	E-MAIL ON XX7	4
1.1	General	4
1.1.1	References	4
2	SFB SENDMAIL	5
2.1	General	5
2.2	MTA Configuration	6
2.3	Authentication	6
2.4	Mail Content.....	6

1 E-mail on xx7

1.1 General

Damit die E-mail Funktionalität auf den xx7 Steuerungen benützt werden kann, muss nicht wie bei den Siemens Steuerungen eine spezielle CP443-1IT konfiguriert und projiziert werden.

Es genügt die „normale“ Ethernet Konfiguration für die IP-Parameter.

Der Aufruf der E-mail Funktion wird über spezielle SFB's durchgeführt. Die Parameter des SFBs sind ähnlich wie bei den „classic“ Systemen.

1.1.1 References

[REF 1]: Ethernet Configuration xx7

Field doc tcp_ip on xx7 de.doc

[REF 2]: E-mail on Classic

SFC_IPServices_Classic.pdf

2 SFB SendMail

2.1 General

Damit eine E-mail versendet werden kann, genügt es den SFB SendMail aufzurufen.

Bei einer positiven Flanke am Parameter Act, wird der E-mail send prozess angestoßen.

Über das Done oder Error Flag sowie den Status wird der Anwender Informiert, ob die E-mail erfolgreich abgesetzt werden konnte.

Calling the SendMail Function:

```
CALL „SendMail“, „I DB SendMail“
Act           :=TRUE
MTAConfig    :="MailConfig".MTAConfig
Authentication :="MailConfig".authentication
Priority      := 1
MailContent  :=P#DB3.DBX0.0 BYTE 200
Done         :=M10.0
Error        :=M10.1
Status       :=MD12
```

Status Values

Status Word Values	
0	No error
0x8080	Busy E-mail sending active
0x8181	No E-mail sending active
-1	Unknown, general error
-2	Error when setting up the socket interface
-3	Error when connecting the server
-4	Error when closing the socket interface
-5	Reception/sending on the socket interface time out
-6	Error sending data to the interface
-7	Error receiving data on the interface
-20	Error on sending the request into the mail queue
-21	To many asynchronous requests waiting, queue full
-22	MTA rejected "QUIT" command
-23	MTA rejected "DATA" command
-24	MTA rejected "RCTP TO" command
-25	MTA rejected "MAIL FORM" command
-26	MTA rejected "HELO" command
-27	MTA return code unknown
-28	MTA rejected relaying mail
-29	MTA rejected "AUTH" command
-100	Interpreted parameter was to long
-101	Interpreted MTA address was to long
-102	Interpreted sender addresses to long
-103	Interpreted reception address to long
-104	Interpreted subject to long
-105	Interpreted user name to long
-106	Interpreted password to long

-107	Interpreted file path to long
-108	File open command failed (file already open ?)
-109	File to send exceeds 1 MB

2.2 MTA Configuration

The PCD sends as E-mail Client over SMTP the Message to a E-Mail server (Message Transfer Agent (MTA)). In the MTAConfig the user configures the Ip-Adress, the IP Port and a Timeout time.

MTA	STRUCT		vorläufige Platzhaltervariable
port	DINT	L#25	Port of the message transfer agent, default is port 25
Adresse	STRING[15]	'xxx.xxx.xxx.xxx'	IP adress of the message transfer agent
Timeout	DINT	L#0	Send and receive time out. If the time expires send mail returns with an error.
	END_STRUCT		

2.3 Authentication

In the authentication structure it is possible to configure the password and the User name credentials for the SMTP mail server. With empty fields no authentication is done.

authentication	STRUCT		
UserName	STRING[64]	''	User name credentials for the SMTP mail server. With empty field no authentic
UserPassWord	STRING[64]	''	User password for the SMTP mail server. Not Entry -> no authentication
	END_STRUCT		

2.4 Mail Content

The mail Content consists of several strings.

Adresse	Name	Typ	Anfangsvert
0.0		STRUCT	
+0.0	TO	STRING[40]	'TO:ITUser@IT4Automation.de;'
+42.0	FROM	STRING[40]	'FROM:ITCP@IT4Automation.de;'
+84.0	SUB	STRING[40]	'SUB:Meldung der Demoanlage;'
+126.0	MIME	STRING[10]	'MIME:TEXT;'
+138.0	TEXT	STRING[40]	'TXT:Dies ist eine Testmail !!!'
+180.0	ATTACHMENT	STRING[40]	'FILE:M1_FLASH:/myfile.pdf;'
=222.0		END_STRUCT	

It is mandatory to write the ID of the string exactly as described.

ID	Description	Example
FROM:	E-mail address or account name of the sender (max 63 chars)	
TO:	Email addresses of the recipients separated by “,” (max 127 characters)	
SUB:	Subject of the mail (max 127 characters)	
MIME:	Type of the Mail Format: <ul style="list-style-type: none"> TEXT sends plain text mails (default) HTML sends HTML mails. HTML formatting of the content is allowed 	
TXT:	Text content of the email.	

TXTF:	Filename of a file that contains the content of the email (Plain Text or HTML Text).	
FILE:	Name of a file to be send as attachment.	

The ID 'TXT:' can be used several times in the same E-mail. All the Text contents will be copied to one mail. (Without the ID)

The ID 'FILE:' can be used several times in the same E-mail. Each File will be send as attachments.

Each Text ends with a ';' except the TXT: