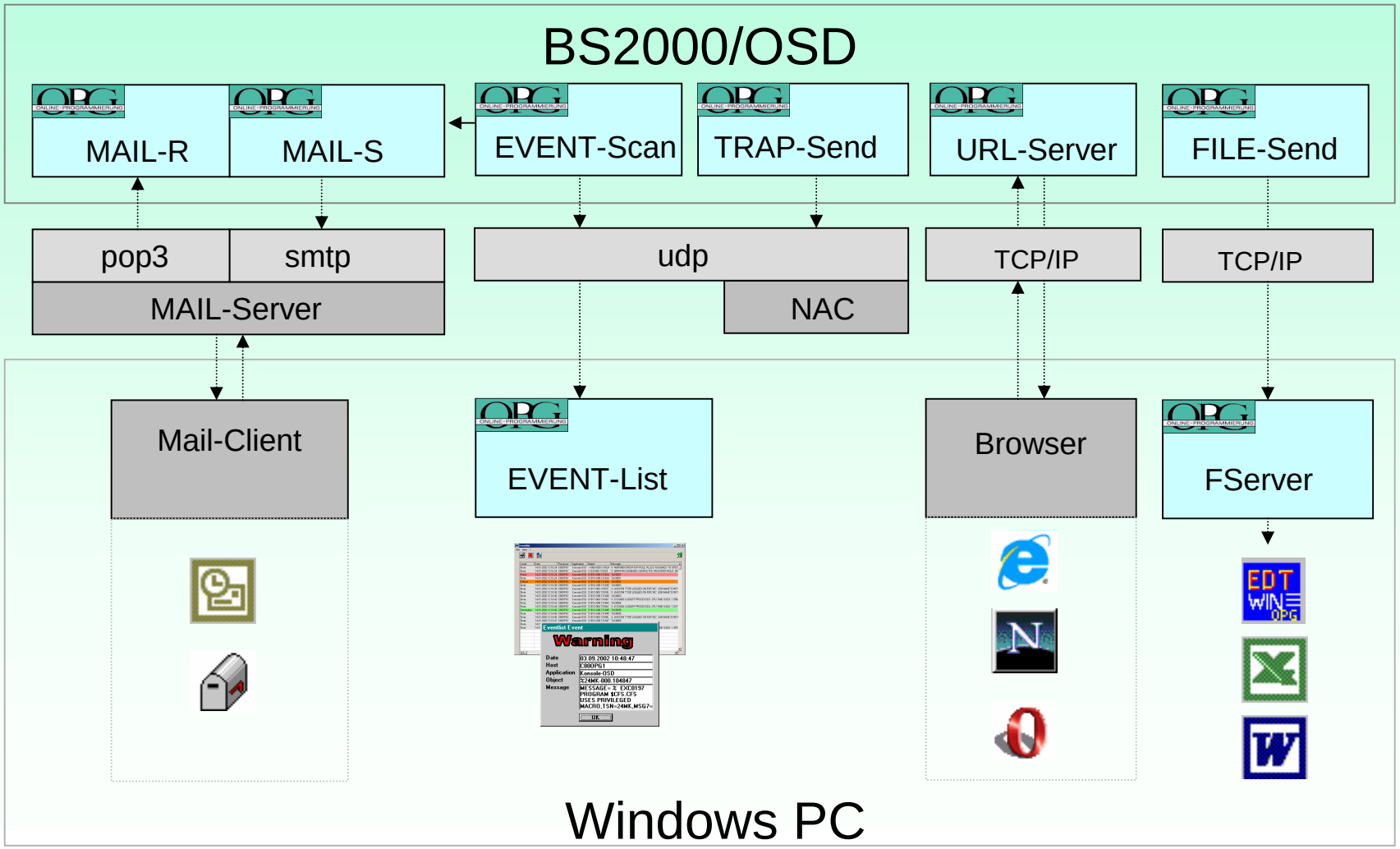
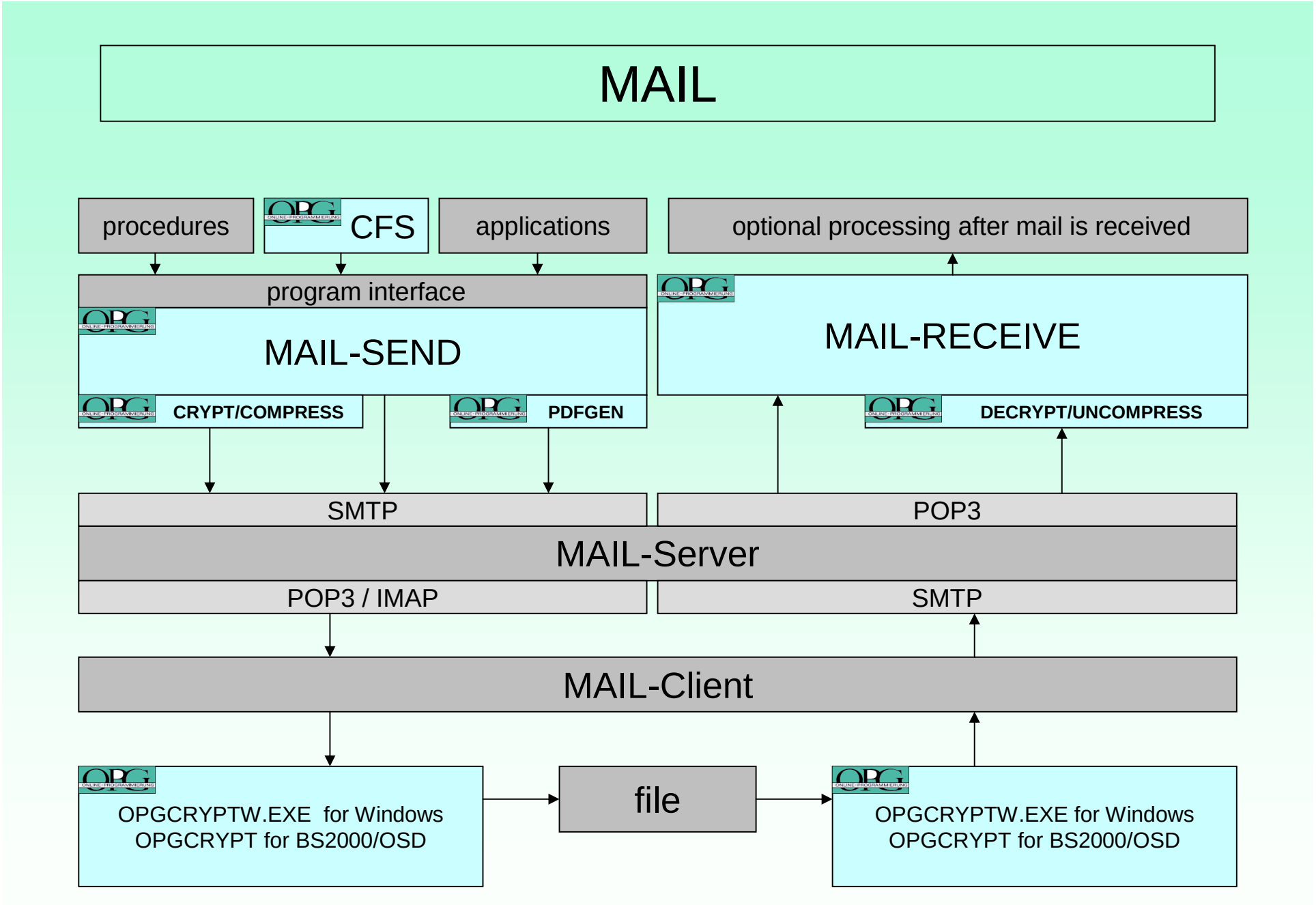
OPGCOM

Communication between BS2000 host and PC




MAIL
procedures
CFS
applications
optional processing after mail is received
program interface
MAIL-SEND
MAIL-RECEIVE
CRYPT/COMPRESS
PDFGEN
DECRYPT/UNCOMPRESS
SMTP
POP3
MAIL-Server
POP3 / IMAP
SMTP
MAIL-Client
OPGCRYPTW.EXE for Windows
OPGCRYPT for BS2000/OSD
file
OPGCRYPTW.EXE for Windows
OPGCRYPT for BS2000/OSD

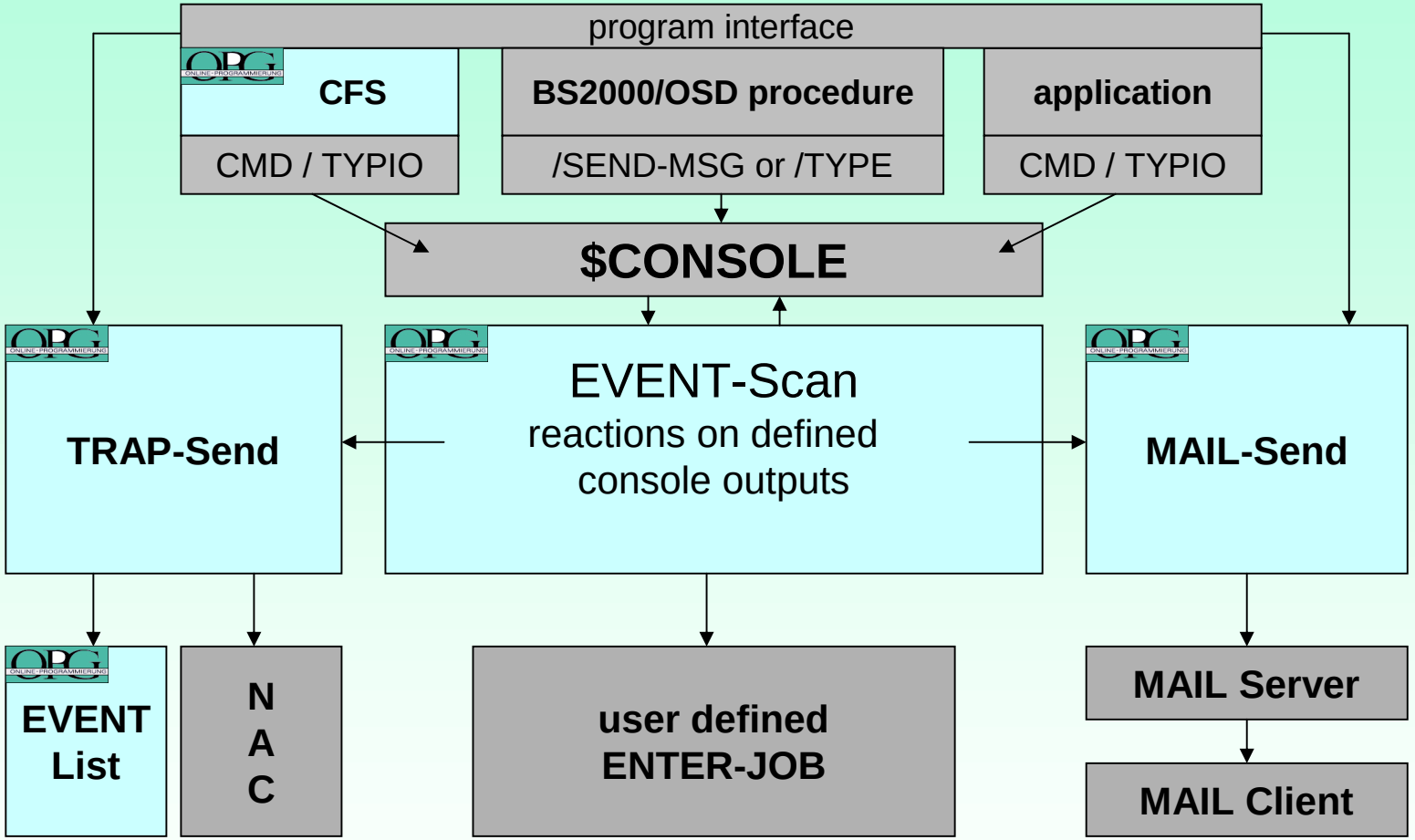
MAIL-SEND

- usage within procedures and by program interface
- individual translation tables, userid specific file restrictions
- optional: compression (OPGCRYPT) for attachments
- optional: encryption (OPGCRYPT) for attachments
- optional: send attachments as elements of a ZIP file (BS2ZIP)
- transfer all kinds of BS2000/OSD files to other BS2000/OSD hosts running MAIL-R without changing file attributes or content
- send HTML formatted mails
- optional: conversion of print files in PDF format
- optional: global logging file
- works without POSIX subsystem

MAIL-RECEIVE

- check multiple mailboxes in a defined cycle
- receive and split mails in files with different content:
  TEXT part, HTML part, ATTACHMENT parts, ...
- start a subject related processing with parameters:
  FROM, SUBJECT, #ATTACHMENTS, used MAILID for files, ...
- individual translation tables
- optional: decompress (OPGCRYPT) of attachments
- optional: decryption (OPGCRYPT) of attachments
- works without POSIX subsystem

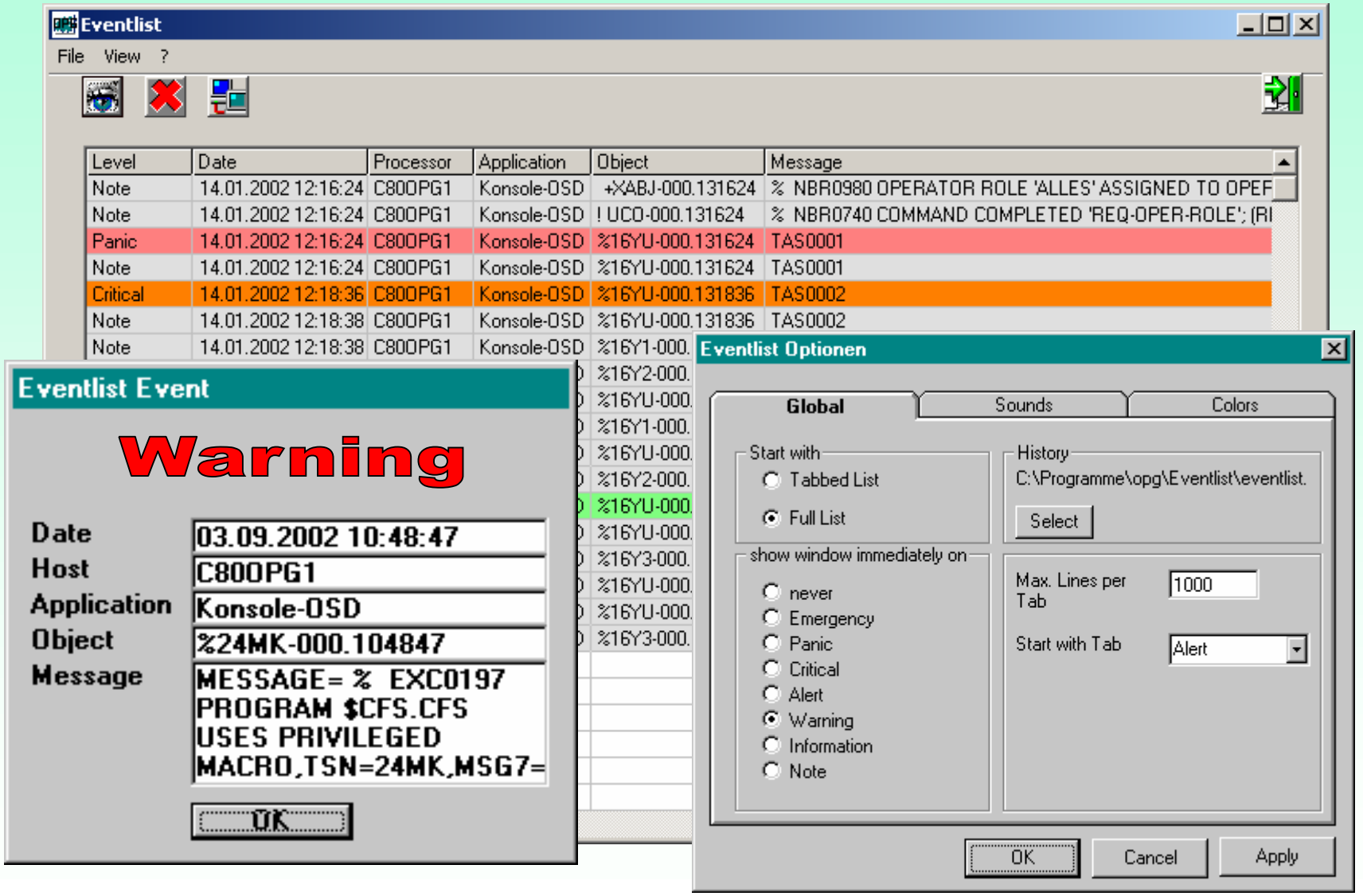
EVENT-SCAN


program interface
CFS
CMD / TYPIO
BS2000/OSD procedure
/SEND-MSG or /TYPE
application
CMD / TYPIO
$CONSOLE
TRAP-Send
EVENT-Scan
reactions on defined
console outputs
MAIL-Send
EVENT
List
N
A
C
user defined
ENTER-JOB
MAIL Server
MAIL Client

EVENT-SCAN

- central definition file containing:
  - messages, message levels and actions
  - evaluation periods for special actions
  - $CONSOLE access data
  - group definitions for multiple PCs or mail addresses
- scan all console messages and process the related actions:
  - send a TRAP to a PC running EVENT-LIST
  - send a TRAP to a Net Administration Center
  - send a MAIL
  - start a BS2000/OSD enter job
- simple access by /SEND-MSG or /TYPE commands

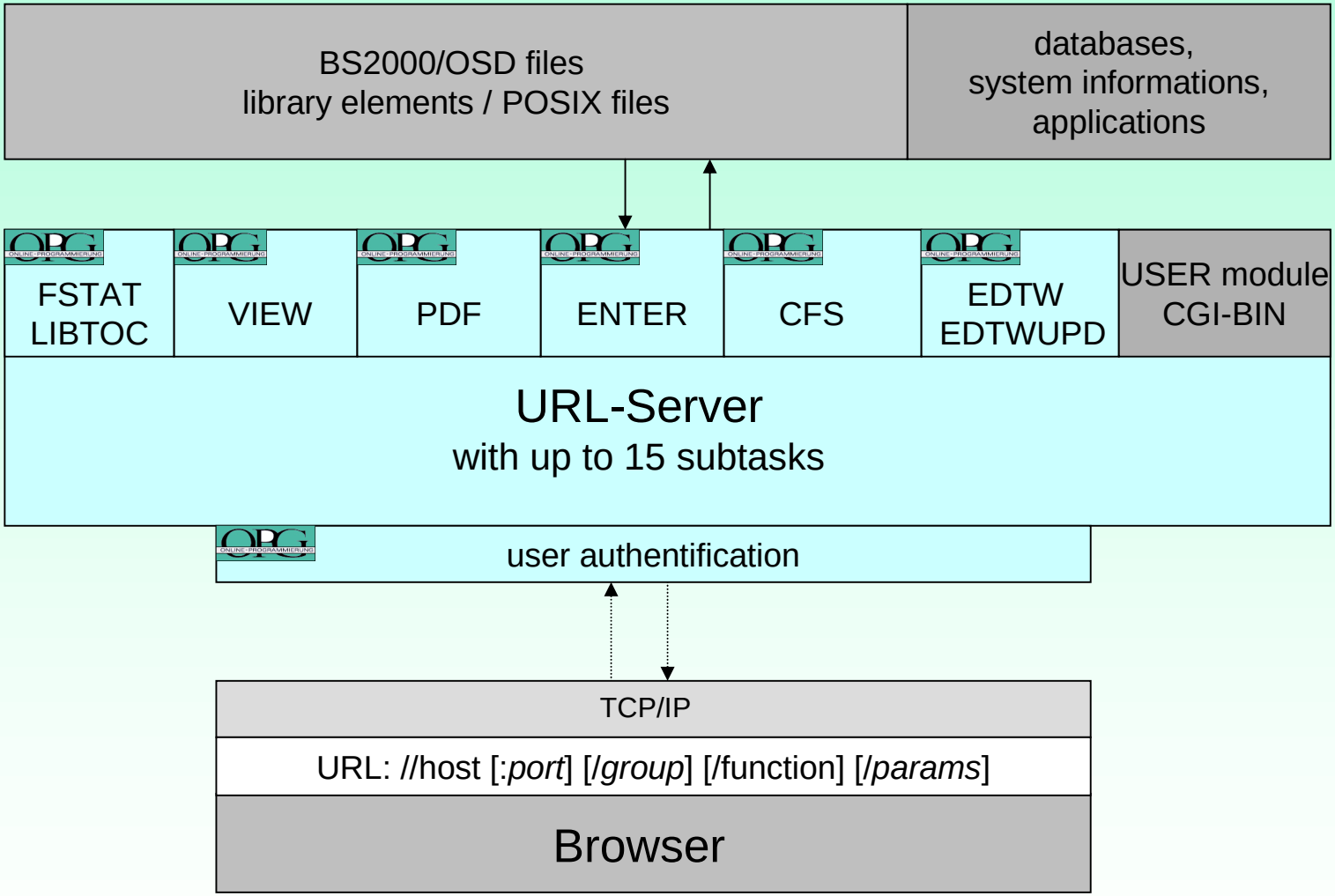
EVENT-LIST


Eventlist
File View ?
Level Date Processor Application Object Message
Note 14.01.2002 12:16:24 C800PG1 Konsole-OSD +XABJ-000.131624 % NBR0980 OPERATOR ROLE 'ALLES' ASSIGNED TO OPEF
Note 14.01.2002 12:16:24 C800PG1 Konsole-OSD ! UCO-000.131624 % NBR0740 COMMAND COMPLETED 'REQ-OPER-ROLE'; (RI
Panic 14.01.2002 12:16:24 C800PG1 Konsole-OSD %16YU-000.131624 TAS0001
Note 14.01.2002 12:16:24 C800PG1 Konsole-OSD %16YU-000.131624 TAS0001
Critical 14.01.2002 12:18:36 C800PG1 Konsole-OSD %16YU-000.131836 TAS0002
Note 14.01.2002 12:18:38 C800PG1 Konsole-OSD %16YU-000.131836 TAS0002
Note 14.01.2002 12:18:38 C800PG1 Konsole-OSD %16Y1-000.
%16Y2-000.
%16YU-000.
%16Y1-000.
%16YU-000.
%16Y2-000.
%16YU-000.
%16YU-000.
%16Y3-000.
%16YU-000.
%16YU-000.
%16Y3-000.
Eventlist Event
Warning
Date 03.09.2002 10:48:47
Host C800PG1
Application Konsole-OSD
Object %24MK-000.104847
Message MESSAGE= % EXC0197
PROGRAM $CFS.CFS
USES PRIVILEGED
MACRO,TSN=24MK,MSG7=
OK
Eventlist Optionen
Global Sounds Colors
Start with
Tabbed List
Full List
History
C:\Programme\opg\Eventlist\eventlist.
Select
show window immediately on
never
Emergency
Panic
Critical
Alert
Warning
Information
Note
Max. Lines per Tab 1000
Start with Tab Alert
OK Cancel Apply

EVENT-LIST

- receive and display the messages sent by EVENT-SCAN and TRAP-SEND
- different message levels: note, info, warning, panic, alert, ...
- automatic window popup for messages with important levels
- individual color and sound settings
- send messages to other PCs running EVENT-LIST

URL-SERVER


BS2000/OSD files
library elements / POSIX files
databases,
system informations,
applications
FSTAT
LIBTOC
VIEW
PDF
ENTER
CFS
EDTW
EDTWUPD
USER module
CGI-BIN
URL-Server
with up to 15 subtasks
user authentification
TCP/IP
URL: //host [:*port*] [/*group*] [/function] [/*params*]
Browser

URL-SERVER

- direct access to BS2000/OSD or POSIX files without emulation
- standard functions:

FSTAT	get list of files
LIBTOC	get list of library elements
LS	get list of posix files and directories
VIEW	show the content of a file in HTML format
EDTW	get file contents for editing with EDT for windows
PDF	convert file in PDF format and display
ENTER	start a job and show the created output
CFS	start a CFS command procedure creating dynamic output

- program interface to create own user modules for special functions
- restrictions for available files, module functions and procedures
  user authentification for special informations
- optional: individual USERLINKs for files in FSTAT/LIBTOC/LS lists
- works without POSIX subsystem

CFS and URL-SERVER

send HTTP header and set Content-type

RUN (URLOUT) HTTP *[,type]

example: ****RUN (URLOUT) HTTP,text/html***
****RUN (URLOUT) HTTP,text/plain***

send partial data

***RUN (URLOUT) DATA, {*text* | *&V1 [,&V2] [,&V3] [,&V...]* }**

example: ****&PART1='<html><head><title>here comes my information</title></head> '***
****&PART2='<body bgcolor=blue>
<HR>'***
****&PART3='my info from host ' .&HOST. ' at '.&TIME***
****RUN (URLOUT) DATA,&PART1,&PART2,&PART3***

send content of a file

***RUN (URLOUT) DATAFILE, { file | *&VAR* }**

example: ****&FILENAME= ' PROT.OUTPUT '***
****RUN (URLOUT) DATAFILE,&FILENAME***

send new location

***RUN (URLOUT) HREF, { url | *&VAR* }**

example: ****RUN (URLOUT) HREF,../PDF/LISTE.OUTPUT***

CFS and URL-SERVER

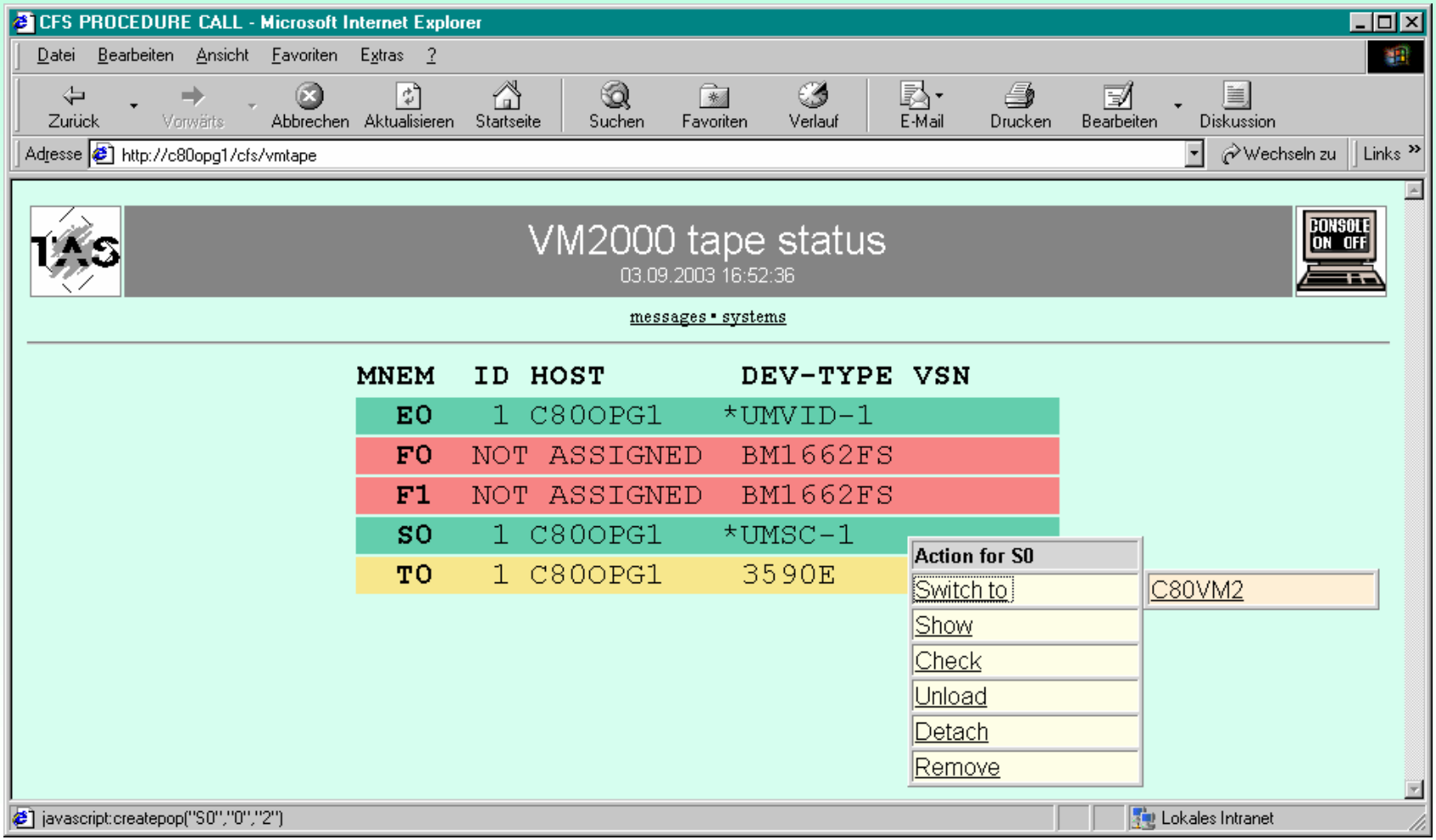
http://opghost:4444/cfs/test.proc,info,par2=y

BIND CFSUP from specified CFSLIB
call CFSUP and process a CFS command: DO <*cgilib*>(TEST.PROC),INFO,PAR2=Y

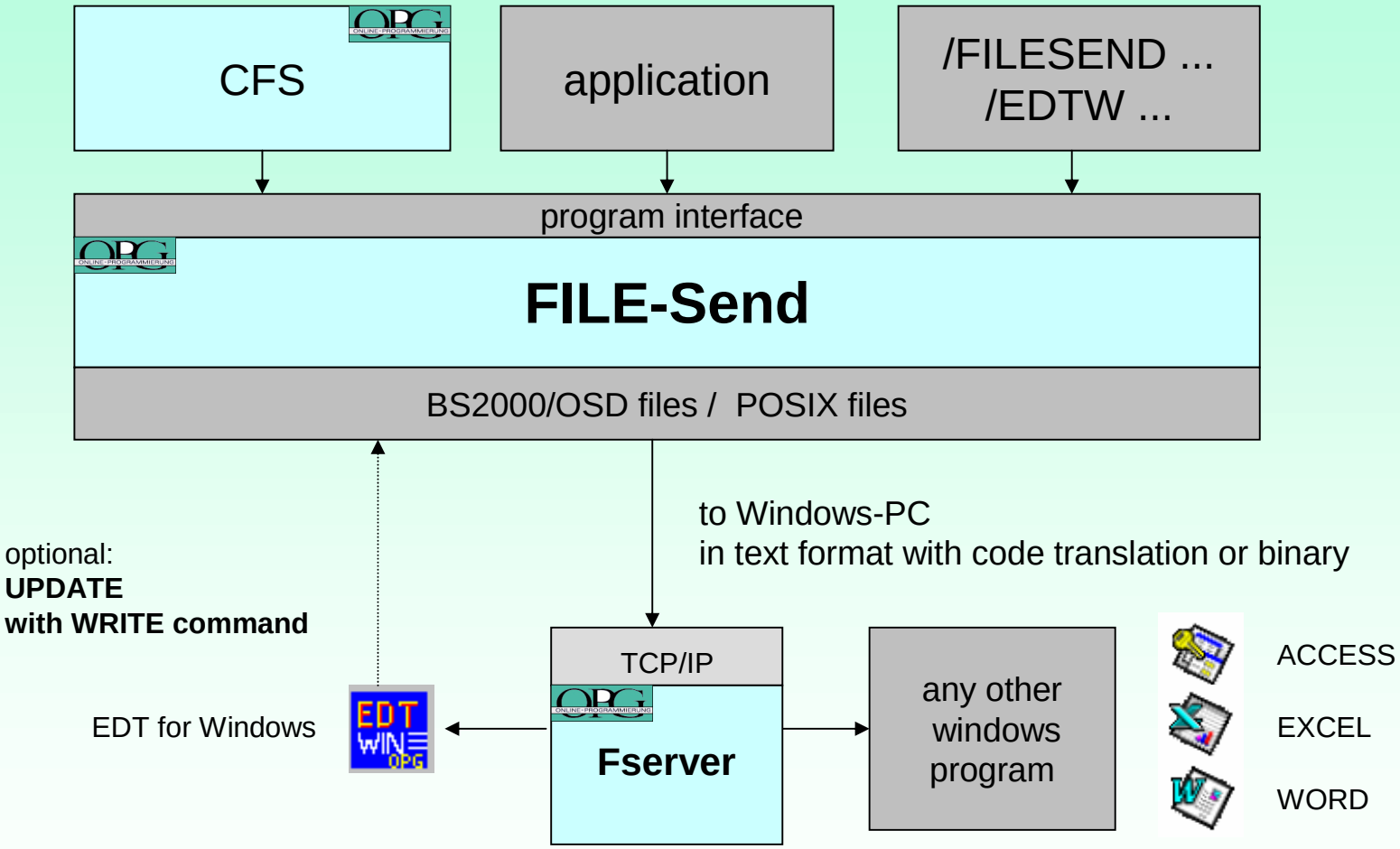
```
*PROC N,(&PAR1,&PAR2=N)
*C
*C    within the procedure all CFS functions are available:
*C    e.g.  open connections to UTM applications, start TACs,
*C          take informations from any output screen, edit files,
*C          search in files, get system informations, ...
*C
*C    output to the browser will be processed with *RUN (URLOUT)
*C
*RUN (URLOUT) HTTP,text/html
*RUN (URLOUT) DATA,<html><head><title>OPG cfs-urlserver test</title></head>
*RUN (URLOUT) DATA,<body bgcolor=„#d6ffed“>
*RUN (URLOUT) DATA,<BR>information found:<BR>
*RUN (URLOUT) DATA,&INFO1,&INFO2,&INFO3
*RUN (URLOUT) DATA,</body></html>
*EXIT
```

CFS and URL-SERVER

http://c80opg1/cfs/vmtape



FILE-SEND


CFS
application
/FILESEND ...
/EDTW ...
program interface
FILE-Send
BS2000/OSD files / POSIX files
to Windows-PC
in text format with code translation or binary
optional:
UPDATE
with WRITE command
EDT for Windows
TCP/IP
Fserver
any other windows program
ACCESS
EXCEL
WORD

FILE-SEND

- send BS2000/OSD or POSIX files to a PC running FSERVER.exe
- send files in TEXT or BINARY mode
- specify extension to start the related program on the PC
- usage within CFS procedures and by program interface
- internal support from CFS: Action Code EDTW
- send files to EDTW with UPDATE option (synchron or asynchron)

- FServer: INI file to specify allowed extensions and partner hosts

FILE-SEND

COMMAND : EDTW

OPERANDS:FILENAME=?,PC=*DEFAULT,CODE=*DEFAULT,
UPDATE=*YES,ENTER=*NO

FILENAME=
text_1..256_with-lower-case
Name of the file to be sent: FILENAME or LIBRARY(TYP, ELEMENT)
or *POSIX:posix-filename or *ZIP:ZIPFILE(ELEMENT)

PC **=** *DEFAULT
text_1..15
PROCESSOR-NAME or IP-ADDRESS of Windows-PC

CODE **=** *DEFAULT
text_1..8_with-lower-case
*DEFAULT or DE or INT or CODEPAGE for EDTW

UPDATE **=** *YES
text_1..256_with-lower-case
*NO or *YES or FILENAME or LIBRARY(TYP,ELEMENT)
or *POSIX:posix-filename

ENTER **=** *NO
*NO or *YES

FILE-SEND

COMMAND : FILESEND

OPERANDS : FILENAME=?,PC=*DEFAULT,MODE=*TXT

FILENAME=

text_1..256_with-lower-case
Name of the file to be sent: FILENAME or LIBRARY(TYP, ELEMENT)
or *POSIX:posix-filename or *ZIP:ZIPFILE(ELEMENT)

PC **=** *DEFAULT
text_1..15
PROCESSOR-NAME or IP-ADDRESS of Windows-PC

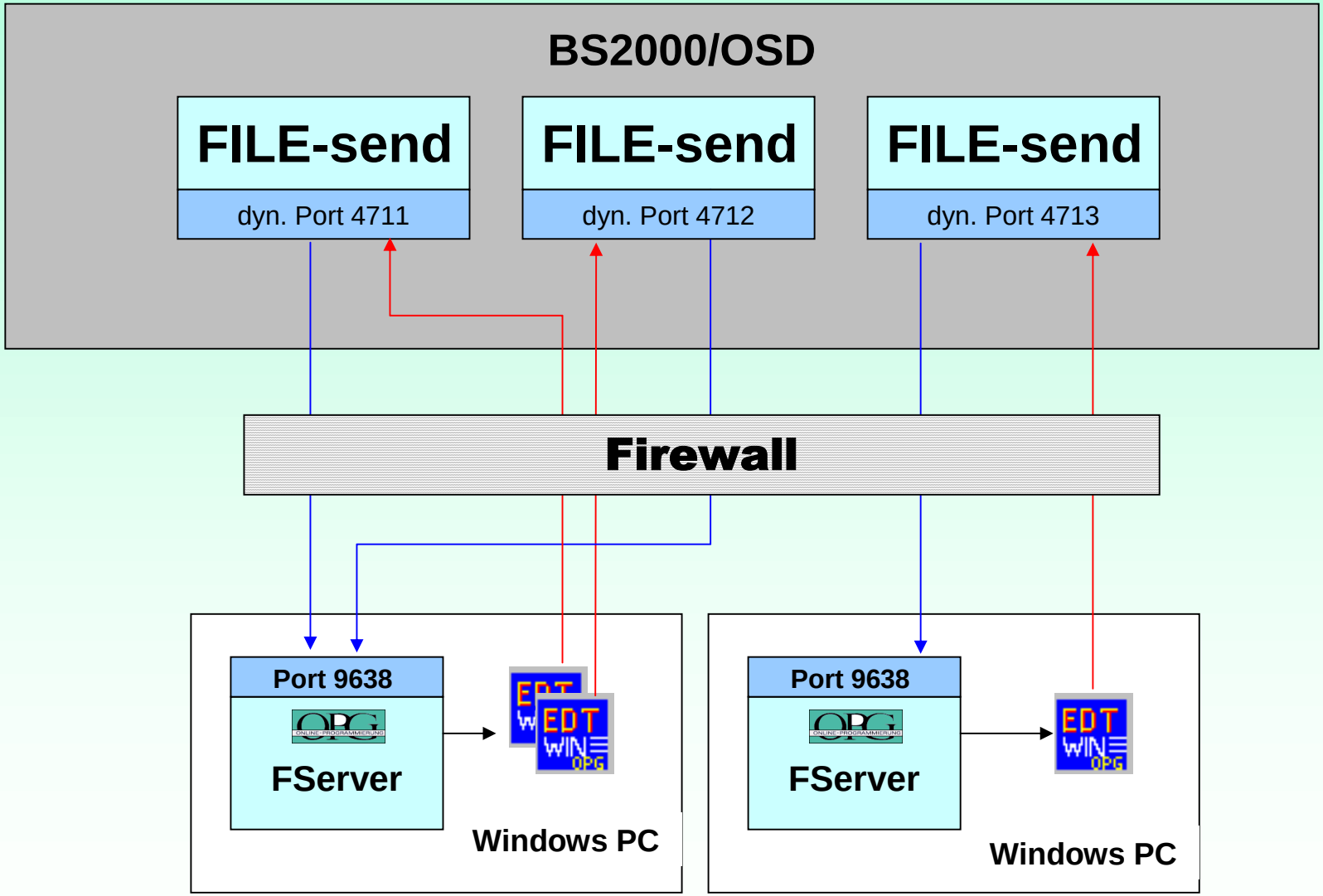
MODE **=** *TXT
*TXT or *TXTD or *BIN or *EDTW(CODE=*DEFAULT)
Transfer MODE for file

EXT **=** .TXT
text_0..1800_with-lower-case
File Extension on PC

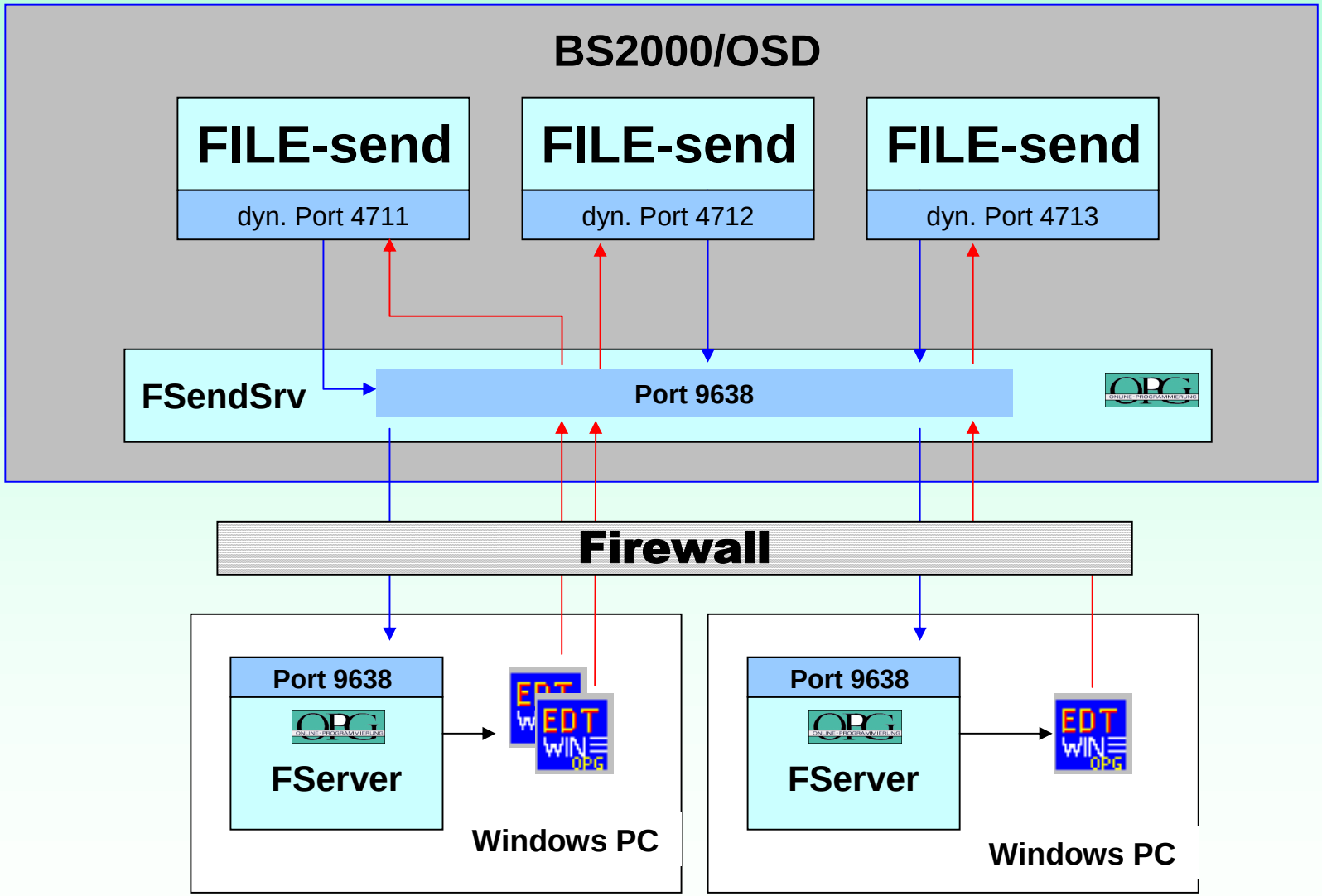
UPDATE **=** *NO
text_1..256_with-lower-case
*NO or *YES or FILENAME or LIBRARY(TYP,ELEMENT)
or *POSIX:posix-filename

ENTER **=** *NO
*NO or *YES

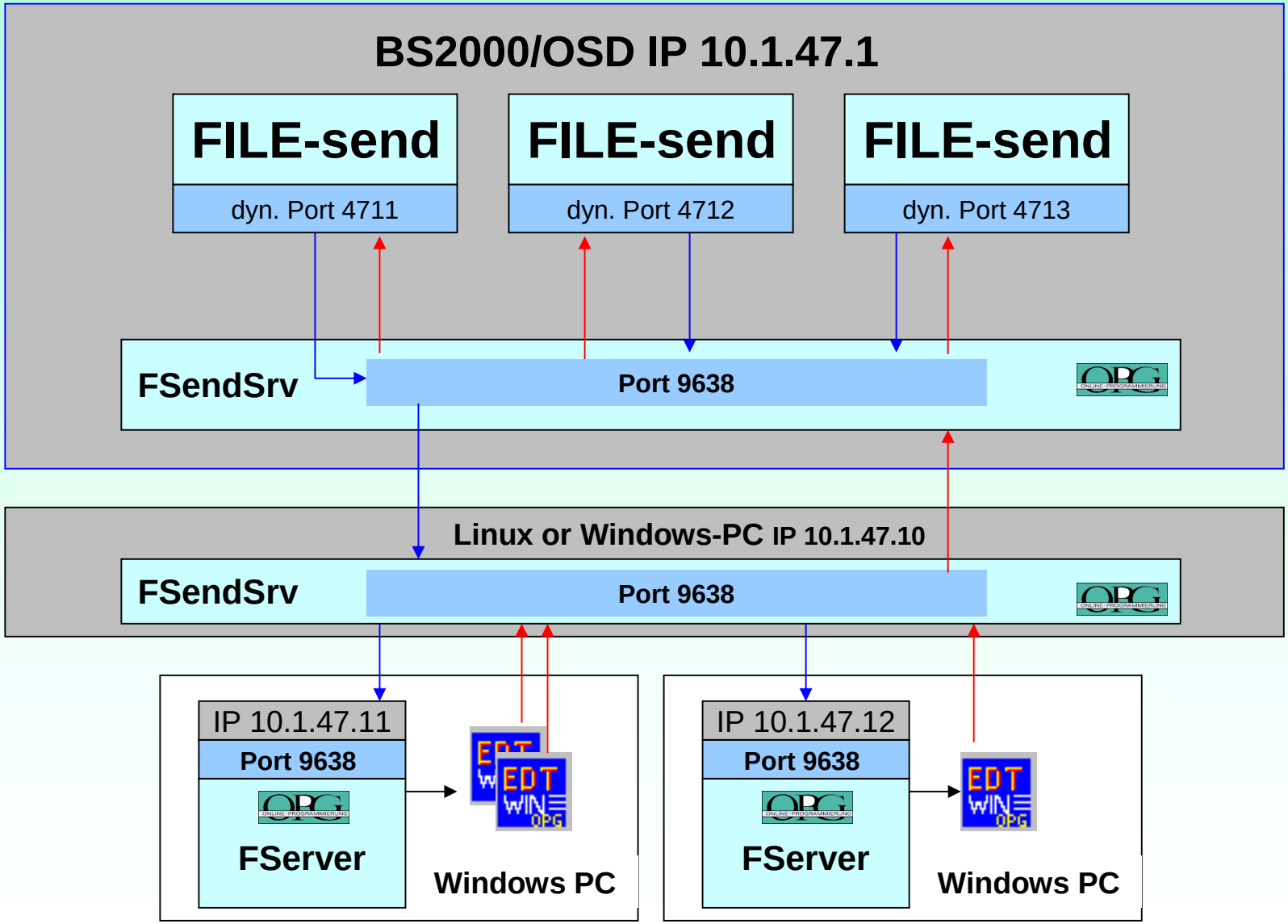
FILE-send without FSendSrv



FILE-send with FSendSrv



FILE-send with FSendSrv Terminalserver



EDT for Windows