R E L E A S E N O T I C E

S M 2 O N L I N E - P C V3.0A

Contents

1 General

With SM2ONLINE-PC you can use your PC (or several PCs) as a central performance monitoring station with a state-of-the-art graphical interface for simultaneous online monitoring of your BS2000/OSD and UNIX hosts. *)

SM2ONLINE-PC continually monitors and presents measurement data provided by the BS2000 software monitor SM2 or the UNIX command sar on-line.
SM2ONLINE-PC can monitor and present measurement data from several hosts simultaneously.

Each host is represented as an object in SM2ONLINE-PC by a host button. Through its color, the host button can indicate the status "no data", "values in critical range" and "threshold violation". The status display is updated with each new monitoring cycle.

Reports are used to present the measurement data. These reports are likewise updated with each new monitoring cycle.
Host reports show the measurement values for one host as a time series. Either the values of up to 10 different measurement variables or the values of one measurement variable for up to 10 different monitored objects are displayed.
Global snapshot reports show the measurement values of the current measurement cycle for all the hosts of a host group. Either the values of up to 10 different measurement variables or the values of one measurement variables for up to 10 different monitored objects are displayed graphically.
Global times series reports show the measurement values of one measurement variable for all the hosts in a host group as a time series.
Global table reports show the measurement values of the current measurement cycle for selected hosts in tabular form. The values of any number of measurement variables can be displayed.

In addition to the predefined reports, you can also freely define your own reports using the available measurement variables.

For each measurement variable different thresholds for up to three time windows can be specified.
The threshold is then monitored on a continuous basis.
In the event of a threshold violation, the host button indicates this status by turning to red. You can also specify that the corresponding host report is to be opened automatically and an acoustic alarm triggered in such cases.

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*) BS2000/OSD (R) is a trade mark of
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SM2ONLINE-PC V3.0 comprises the components
"PC client" (SM2ONLINE-PC-CL),
"BS2000 server" (SM2ONLINE-PC) and
"UNIX server" (SM2ONLINE-PC-X),
which are available as separate selectable units.

You install the PC client on a PC. It receives the measurement data from the servers and includes the actual user interface for monitoring and presenting the measurement data.

The servers collect the new measurement data in cycles and send this data to the PC.
The BS2000 server collects the measurement data via the program interface of SM2.
The UNIX server collects the measurement data with the UNIX command sar.

On request the UNIX server additionally writes the monitored data into a monitoring file. The monitoring file can be analysed with the product SM2R1-PC.

The essential operating information and dependencies of SM2ONLINE-PC V3.0A are described in this Release Notice in condensed form.

The content is consistent with the release date of
* OCTOBER 2001.

This Release Notice is supplied in file form only with uppercase and lowercase letters.
Any subsequent amendments will be updated in this file and passed on.

This Release Notice is supplied only for the selectable unit SM2ONLINE-PC and is also valid for the selectable units SM2ONLINE-PC-CL and SM2ONLINE-PC-X.

You can print out the file using the command:
/PRINT <filename>,SPACE=E
 or
/PRINT-FILE FILE-NAME=<filename>
,CON-CHARS=EBCDIC

1.1 Ordering

SM2ONLINE-PC V3.0A consists of the release units SM2ONLINE-PC, SM2ONLINE-PC-CL and SM2ONLINE-PC-X.
These release units are not individually orderable, but belong to the release unit SM2.

1.2 Delivery

The SM2ONLINE-PC files are delivered with the delivery method SOLIS.

The SOLIS2 delivery note specifies the applicable file and volume attributes.

Overview of delivery components of the selectable unit SM2ONLINE-PC ("BS2000 server")

SYSLNK.SM2ONLINE-PC.030	Contains the BS2000 server and the BS2000 connector
SYSSDF.SM2ONLINE-PC.030	Syntax file for commands
SYSSPR.SM2ONLINE-PC.030.START	Procedure for command START-SM2ONLINE-PC
SYSSPR.SM2ONLINE-PC.030.STOP	Procedure for command STOP-SM2ONLINE-PC
SYSENT.SM2ONLINE-PC.030	Contains the BS2000 ENTER file for starting the server
SYSDAT.SM2ONLINE-PC.030.CONFIG	Contains the configuration file for the BS2000 server
SYSFGM.SM2ONLINE-PC.030.D	Release notice (German)
SYSFGM.SM2ONLINE-PC.030.E	Release notice (English)

Overview of delivery components of the selectable unit SM2ONLINE-PC-CL ("SM2ONLINE-PC client")

SPCDAT.SM2ONLINE-PC-CL.030.OFT	Contains the PC client (for transfer with openFT)
SPCDAT.SM2ONLINE-PC-CL.030.FTP	Contains the PC client (for transfer with ftp)

Overview of delivery components of the selectable unit SM2ONLINE-PC-X ("UNIX server")

SUXDAT.SM2ONLINE-PC-X.030.RU	Contains the UNIX server for Reliant Unix
SUXDAT.SM2ONLINE-PC-X.030.SOL	Contains the UNIX server for Solaris

1.3 Documentation

The PC client contains a comprehensive online help facility.
The online help is also available as a WORD document in the runtime directory of the PC client once the PC client has been installed.

For users with little or no knowledge of SM2, the manual
   SM2 (BS2000/OSD)
   Software Monitor
   User Guide
may be very useful.

2 Technical information

2.1 Resource requirements

In relation to the BS2000 part, there are no restrictions on the minimum system configuration; all that is required is the configuration necessary for BS2000 to run.

The following space is required to implement the PC client:
   Min. 32 MB main memory and
   Min. 15 MB free hard disk memory

When SM2ONLINE-PC is running, the following minimum memory requirement must be satisfied:
   BS2000 1 MB Cl6 memory

2.2 Software configurations

The following are required to run SM2ONLINE-PC:

BS2000 host:

- BS2000/OSD V2.0 or later
- BCAM V11.0A or later
- SM2 V11.2A or later

UNIX host:

- Reliant UNIX V5.4x or later or
- Solaris V2.7 or later

PC:

- MS Windows NT 4.0 (service pack 6 recommended)

- TCP/IP-LAN connection with Winsockets

- File Transfer product (FT, ftp,...) for downloading the client part or the UNIX server

2.3 Product installation

The standard installation of SM2ONLINE-PC is performed for all release units using the product IMON.

For the standard installation of the selectable units SM2ONLINE-PC-CL and SM2ONLINE-PC-X via IMON, the PC client and the UNIX server are stored as BS2000 files under your BS2000 user ID.

2.3.1 Installation of BS2000 server:

The commands for starting and stopping the server are contained in the SYSSDF.SM2ONLINE-PC.030 syntax file. In order to make these commands available to each user, this syntax file must be activated with the following command:

```
/MODIFY-SDF-PARAMETER SCOPE=*PERMANENT,
 SYNTAX-FILE-TYPE=*SUBSYSTEM(NAME=SYSSDF.SM2ONLINE-PC.030,
                             SUBSYSTEM-NAME=SM2ONLPC)
```

For compatibility reasons the SYSENT.SM2ONLINE-PC.030 enter for starting the server is supplied additionally.

You must modify the configuration file SYSDAT.SM2ONLINE-PC.030.CONFIG for BS2000-Server. Refer to the section "The BS2000 server" in the online help of the PC client.
The PCs to which the server is to transmit data must be made known to the BS2000 system by the administrator.

2.3.2 Installation of the PC client:

Deinstallation of old PC client:

If a PC client is already installed it must be deinstalled first. Please save the files "host.mdb" and "report.mdb" resp. "config.mdb" and the file "sm2onlpc.ini" from the application directory before deinstallation.

Installation of new PC client:

1. Transfer either
   the file SPCDAT.SM2ONLINE-PC-CL.030.OFT with openFT or
   the file SPCDAT.SM2ONLINE-PC-CL.030.FTP with ftp
   in binary form (!!) to any directory on your PC
   (referred to below as the installation directory).

   The following example illustrates a transfer using the file transfer product ftp. C:\Temp is used as the installation directory.

   Example:
   Start by double-clicking on "Ftp.exe", which you will normally find on your PC in the Windows directory (possibly C:\WINNT\system32). ftp signals that it is ready by the following Windows display:
   ftp>

In the following dialog the input line are identified by (in) and the output lines by (out).

```
(in)  ftp> o a.b.c.d
      Open the connection to the host from which the
      PC client file is to be transferred to the PC.
      a.b.c.d is the IP address of the host.
(out) Connected to a.b.c.d.
(out) User (a.b.c.d:(none)):
(in)  User (a.b.c.d:(none)): <user-id>
      <user-id> is the BS2000 user ID under which
      the PC client file can be found.
(out) Password required for <user-id>
(out) Password:
(in)  Password: <pw>
      <pw> is the password required for the user ID.
(out) Account required.
(out) Account:
(in)  Account: <acc>
      <acc> is the account number of the user ID.
(out) User <user-id> logged in.
(out) ftp>
(in)  ftp> lcd c:\temp
      Switch to the installation directory C:\Temp,
      into which the PC client file is to be
      transferred.
(out) Local directory now C:\TEMP
(out) ftp>
(in)  ftp> bin
      Set the transfer mode to binary.
(out) Type set to I.
(out) ftp>
(in)  ftp> get SPCDAT.SM2ONLINE-PC-CL.030.FTP
      Fetch the PC client file.
(out) PORT command successful.
(out) Opening data connection for
      SPCDAT.SM2ONLINE-PC-CL.030.FTP
(out) Transfer complete.
(out) nnnn bytes received ...
      The PC client file is now on the PC in the
      installation directory C:\Temp.
(out) ftp>
(in)  ftp> bye
      End ftp.
```

2. Rename the PC client file to <NEW-NAME>.EXE, where <NEW-NAME> must comply with the file name conventions under Windows95 and Windows NT.

3. Start <NEW-NAME>.EXE on your PC by double-clicking on it.
   The installation files are thereby extracted from the <NEW-NAME> archive.

4. Execute the installation program SETUP.EXE.
   The preset application directory is C:\Programs\SM2ONLINE-PC V3.0.
   You can change the application directory during the installation.
   The application directory must not (!!) be the same as the installation directory.

5. If an old PC client was deinstalled before the installation of the new client copy the saved files "host.mdb" and "report.mdb" resp. "config.mdb" and the file "sm2onlpc.ini" to the application directory.

6. If you want to modify the setting of the language after the installation, you can do this by modifying the file "sm2onlpc.ini" in the application directory.
   Please set in section "Options" "Lang=deu" for german or "Lang=eng" for english.

7. The hosts to be monitored must be known on the PC, i.e. they must be accessible via a DNS server or registered in the Hosts file of the PC.

Conversion of databases:

Starting from the version V2.0A10 the data of the databases "host.mdb" and "report.mdb" are integrated into the database "config.mdb".
If you copied saved files "host.mdb" and "report.mdb" into the application directory, call the program "convertdb.exe" in the application directory. This program transfers the data from "host.mdb" and "report.mdb" to the database "config.mdb".

2.3.3 Installation of the UNIX server:

1. Transfer the file SUXDAT.SM2ONLINE-PC-X.030.RU to your RM host resp. the file SUXDAT.SM2ONLINE-PC-X.030.SOL to your Solaris host in binary form with a file transfer product.
   This archive contains the package that you need to install the UNIX server.

2. Read in the package from the archive with the following command:
   ```
   tar xvf SUXDAT.SM2ONLINE-PC-X.030.RU
   ```
   resp.
   ```
   tar xvf SUXDAT.SM2ONLINE-PC-X.030.SOL
   ```
   This procedure extracts the SM2ONLPC package from the archive.

3. Install the package under the system administrator ID "root" with the command
   ```
   pkgadd -d <path>
   ```
   <path> must be the complete path name of the directory in which the SM2ONLPC package is located.
   At the beginning of the installation you are asked for the user ID under which installation is to take place.
   After installation, the directory SM2ONLINE-PC-X is located in the home directory of the user ID you specified.

This directory contains the following files:
- sm2onlinepc (the actual server program)
- connector (a program for announcing and logging out clients with the server)
- sm2onlpc.config (the configuration file for the server)
- start.sm2onlpc (a shell script for starting the server)
- stop.sm2onlpc (a shell script for stopping the server)

4. Modify the configuration file sm2onlpc.config to suit your particular needs. Refer to the section on "The UNIX server" in the online help of the PC client for more information.

2.4 Product implementation

Before implementing the product for the first time you should read the section "Basics" in the online help of the PC client.

Announce and log out clients with the server

Starting from the version V2.0A10 PCs, to which the server is to transmit data, need not be entered into the configuration file of the server.
The client announces itself automatically at the server when it is started and logs out itself when it is terminated.
The server transmits data to a PC client as long as the client is announced.

The server receives announcing and logging out requests of the PC clients via the program "connector", which is started by the server.

2.5 Omitted functions

-

2.6 Incompatibilities

* BS2000/OSD V1.0 is no longer supported.

2.7 Restrictions

-

2.8 Behavior in the event of error

If no data is transferred from a host, this is shown by the fact that the corresponding host button is white. In such cases you should first of all have a look at the host button message, which is displayed when the mouse pointer points to the host button.

In the event of an error, please add the following files for purposes of diagnosis:

- The log file SYSLOG.SM2ONLINE-PC.030 of the BS2000 server or the log file sm2onlpc.log of the UNIX server. The server allways writes this file.

- The log file SYSLOG.SM2ONLINE-PC.030.CON.<HOSTNAME> of the BS2000 program "connector" resp. the log file connector.log of the UNIX program "connector". These files are written by the program "connector" in any case.

- The trace file SYSLOG.SM2ONLINE-PC.030.TRACE of the BS2000 server or the trace file sm2onlpc.trace of the UNIX server.

  The server writes this file if you enter the line TRACE=YES in the configuration file of the server. The server makes a detailed log of its actions in this file. The trace should only be activated for purposes of diagnosis.

- The log file Collect.log of the PC client
  The PC client logs its actions in this file if you set "Trace Level" on the "General" tab under "Settings..." in the "Options" menu to "1" or "2".
  The trace should only be actived for diagnostic purposes.
  The file Collect.log is located in the subdirectory "data" of the application directory.

- The error file Error.log of the PC client.
  The PC client logs errors in this file.
  The file is located in the subdirectory "data" of the application directory.

3 Software enhancements

The following provides a description of the enhancements and improvements in SM2ONLINE-PC V3.0A made to the version SM2ONLINE-PC V2.0A:

Correction level A00:
- New measurement variables for Periodic Task, Category-IO, Symmetrix, BCAM-Connection, DAB, ISAM and FILE
- Support of Solaris
- Last window arrangement restored at start of client
- Status message of the host is issued when the mouse pointer points to the hostbutton
- Warnings can be suppressed in the protocoll
- Change of time axis becomes immediately effective

* Correction level A10:
* - Extension of host name up to 10 characters.
* - Reduction of data transferred from BS2000 to PC.
* In order to suppress the data transfer the following
* lines can be entered in the configuration file:
* DATA_PERTASK_TSN=NO
* => no data tranfer for measurement variables TSN....
* DATA_PERTASK_USERID=NO
* => no data tranfer for measurement variables USID....
* DATA_PERTASK_JOBNAME=NO
* => no data tranfer for measurement variables JOB....
* DATA_SYMMETRIX_DEVICE=NO
* => no data tranfer for measurement variables SYMDEV....
* (but data for SYMCTL.... transferred)
* DATA_DAB=NO
* ==> no data tranfer for measurement variables DAB....

Enhancements and improvements in SM2ONLINE-PC V2.0A made to the version SM2ONLINE-PC V1.0A:

Correction level A00:
- Determination of SM2 monitoring data via the program interface
- Support of Unix hosts
- Host groups
- Support of all monitored objects in the host reports
- Time series diagram of the measurement values of one measurement variable for several hosts
- Definition of reports
- Transfer of result files from the host to the PC
- Integration of the data collector into the client
- Length of time axis adjustable
- Save window arrangement
- Response time report with values < limit
- VM2000 reports with monitored objects
- New report EMULTIME
- Report specific layout of printout
- Monitored object specific acoustic alarm

Correction level A10:
- Definition of measurement variables
- Numeric display of measurement values of several measurement variables and several hosts in a table
- Definition of different threshold values for up to three time windows
- Assignment of a hosts to several host groups
- Cyclically change of window arrangements

Correction level A20:
- Correction of an error when handling not existing monitored objects (with explicit selection of monitored objects)

Correction level A30:
- Correction of an error with the generation of the chart
- Directory for storing the monitored data and path name of data base for configuration adjustable
- On request the UNIX server additionally writes the monitored data into a monitoring file. The monitoring file can be analysed with the product SM2R1-PC.

4 Hardware support

BS2000

BS2000/OSD Business Server or
Business Server SR2000 or

UNIX

RM systems or
* PRIMEPOWER systems

PC

PC with INTEL Pentium processor or compatible
with min. 200 MHz
Min. 32 MB main memory
Min. 15 MB free disk space
Min. 1024 x 768 screen resolution
Mouse

FUJITSU

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