

Fujitsu Technology Solutions

\*1 DAB (BS2000/OSD)  
Version 9.1B  
\*1 June 2009

Release Notice

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Release Notice DAB 9.1B

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# 1 General

DAB (= 'Disk Access Buffer') is a software product which is part of the HIPERFILE concept for improving the input/output performance of a BS2000 processor and especially serves the CPU software caching of selected data media or data areas.

This Release Notice is a summary of the major extensions, dependencies and operating information, for  
\*1 DAB V9.1B under the operating system BS2000/OSD V7.0B) (\*.

\*1 The content correspond to the release version, June 2009.

The Release Notice is supplied as a file in upper and lower case. Any changes that become subsequently known will be updated in this file and supplied at a later date.

Print file with:

```
PRINT-DOCUMENT FROM-FILE=SYSFGM.DAB.091.D,  
DOC-FORM=*TEXT(LINE-SPACING=BY-EBCDIC-CONTR)  
(German version )
```

or

```
PRINT-DOCUMENT FROM-FILE=SYSFGM.DAB.091.E,  
DOC-FORM=*TEXT(LINE-SPACING=BY-EBCDIC-CONTR)  
(English version ).
```

This Release Notice is also online under:

<http://manuals.ts.fujitsu.com>

\*1 If, when DAB V9.1B is implemented, one or more previous versions are skipped, then the information in the Release Notices (or README files) from the previous versions must be taken into consideration.

## 1.1 Ordering

\*1 DAB V9.1B can be obtained from your local distributor.

\*1 For DAB V9.1B, the general conditions as defined in the contract regarding the use and support of software products are valid.

\*1 \*) BS2000/OSD ® is a trademark of Fujitsu Technology Solutions

## 1.2 Delivery

\*1 The files are delivered to DAB V9.1B via SOLIS.

| Delivery components: | Product description :  |
|----------------------|--|
| -----                | -----  |
| SYFSGM.DAB.091.D     | Release Notice (German)  |
| SYFSGM.DAB.091.E     | Release Notice (English )  |
| SYSLNK.DAB.091       | Module library for /390 systems  |
| SPMLNK.DAB.091       | Module library for systems with<br>SPARC architecture                            |
| SYSMES.DAB.091       | Message file   |
| SYSRMS.DAB.091       | RMS delivery set   |
| SYSSDF.DAB.091       | SDF syntax file  |
| SYSSSC.DAB.091       | Subsystem declarations   |
| SYSSSI.DAB.091       | Subsystem initialization file  |
| SYSSII.DAB.091       | Structure and installation<br>information file for the<br>installation with IMON |

The respective valid file and data media features are listed in the SOLIS2 delivery letter.

### 1.3 Documentation

\*1 The following documentation is available for DAB V9.1B:

DAB V9.0A, order number U2431-J-Z125-14 (German) or  
DAB V9.0A, order number U2431-J-Z125-14-76. (English)

A description of the HIPERFILE concept is available in the  
manual BS2000/OSD-BC V7.0,  
Introduction to system support,  
Order number U2417-J-Z125-16 (German) or  
Order number U2417-J-Z125-16-76. (English)

Information about the configuration of GS areas for DAB is  
also available in this manual.  
Information about the configuration of a parallel HIPLEX is  
available in the manual HIPLEX MSCF V3.0A, BS2000 processors  
in the network, order number U3615-J-Z125-8 (German)

The documentation for BS2000/OSD is also available in German  
and English on CD-ROM, under the title BS2000/OSD SoftBooks.

The documentation is available as online manual under  
\*1 <http://manuals.ts.fujitsu.com> \_or

can be ordered at additional cost via

\*1 <http://manualshop.ts.fujitsu.com> -

## 2 Software extensions

None

## 3 Technical information

### 3.1 Resource requirements

DAB requires resident main memory in order to save the administration data. The size of the storage area required is determined mainly by the following factors:

1. Administration data for the cache segments; they require  
With 4 Kbyte segments, approx. 3.1 percent of the cache size,  
with 8 Kbyte segments approx. 1.6 percent of the cache size,  
with 16 Kbyte segments approx. 0.78 percent of the cache size and  
With 32 Kbyte segments approx. 0.39 percent of the cache size.  
With areas with automated caching, the segment size is 4 Kbyte (the value specified with START-DAB-CACHING is ignored).
2. Key fields (keys) with key-related files, which are buffered in the main memory.  
These require approx. 0.8 percent of the cache size.

Especially when using large cache areas in the GS on the corresponding HSP configuration of the system or in VM2000 operations, observe the corresponding domain sizes and minimum domain sizes of the VM (operands MEMORY-SIZE and MIN-MEMORY-SIZE in the command CREATE-VM).

### 3.2 Software configuration

- \*1 BS2000 as of Version V7.0 is required for DAB V9.1B, i.e. BS2000/OSD-BC, as of V7.0.

### 3.3 Product installation

- \*1 The installation of the product DAB V9.1B in BS2000/OSD V7.0 must be performed with the installation monitor IMON. This is mandatory because a consistent Software Configuration Inventory (SCI) is required to operate the product. For the installation of the product and in addition to the information in the Release Notice, you must also observe the information about the installation in the delivery letter and in the DAB manual. The necessary inputs and installation sequence are described in the IMON documentation. After a successful installation, DAB V9.1B is automatically loaded at the next system start .
- \*1

If, after a successful IMON installation, DAB V9.1 is to be started in this current session the subsystem must be added to the subsystem configuration using SSCM and ADD-SUBSYSTEM. This requires the following steps:

```
/START-SSCM
//START-CATALOG-CREATION CATALOG-NAME=SYSCAT.DAB.091
//ADD-CATALOG-ENTRY FROM-FILE=SYSSSC.DAB.091
//MOD-SUBSYSTEM-ATTR SUBSYSTEM-NAME=DAB(09.1), -
//      CREATION-TIME=*AT-CREATION-REQUEST, -
//      REMOVE-RELATED-SUBS=(SDF,MIP)
//CHECK-CATALOG CATALOG-NAME=*CURRENT
//SAVE-CATALOG CATALOG-NAME=*CURRENT
//END
/ADD-SUBSYSTEM CATALOG=SYSCAT.DAB.091,TYPE=*NEW-SUBSYSTEMS
```

### 3.4 Product use

\*1 The following must be observed when using DAB V9.1B:

1. We strongly advise against supporting system files with write or write-read caching in the cache medium. It is also strongly recommended that cache areas in the main memory with AREA=\*BY-SYSTEM only be set up with CACHING-MODE=\*READ or =\*BY-CACHE-MEDIUM .
2. In the parallel HIPLEX and with an identical DAB version on all systems, the GS can also be used on a system-spanning basis (see the manual "System support", in the section 'GS-operation in the XCS network'), otherwise only on a local system basis.
3. GS-read-cache-areas that serve data areas on the home-pubset are always stopped during a shutdown, even if a setting is installed in the subsystem initialization file indicating that the GS cache areas must remain intact during a shutdown. The same is valid for GS cache areas which serve data areas on shared occupied volumes. These cache areas must be set up again per command in the follow-up session.
4. GS-read-cache-areas which serve data areas on the home subset are not reconstructed during a system restart, even if the respective parameter in the subsystem initialization file is set to ENABLED. The same is valid for GS cache areas which serve data areas on shared occupied volumes. These cache areas must be set up again per command during the follow-up session.
5. The settings in the subsystem initialization file are only evaluated when the subsystem DAB is started, which generally occurs before a system ready. If a setting is to be changed in the current session, then the subsystem must be ended and restarted after the file entry has been changed. The parameter ON-DUAL-GS-ERROR can be changed after a subsystem start with the command MODIFY-DAB-PARAMETERS. If a permanent change to this parameter is desired then the entry in the subsystem initialization file must be changed accordingly.

### 3.5 Obsolete functions (and those to be discontinued)

\*1 The following functions are no longer supported:

\*1 Write caching for encrypted files no longer takes place.

\*1 In other words,

\*1 In a DAB cache operated in READ-WRITE mode,  
\*1 encrypted files are served in read mode only.

\*1 In a DAB cache operated in WRITE mode,  
\*1 encrypted files are not served.

\*1 This is seen via "Y(ENCRYPTED)" or "N(ENCRYPTED)" accordingly  
\*1 under SERVICE with SHOW-DAB-CACHING.

### 3.6 Restrictions

There are several special cases, in which DAB caching is not supported. These restrictions are necessary on a functional basis, in order to guarantee an error-free operation. This includes the following cases:

- DAB caching of HOME pubset per USER-PFA is not supported.
- Only pubsets are supported in the USER-PFA concept, private disks cannot be cached through USER-PFA .
- Emulated GS volumes cannot be cached (neither via USER-PFA nor via ADM-PFA).
- Public volumes cannot be simultaneously cached via USER-PFA and ADM-PFA.
- \*1 - Encrypted files cannot be cached in write/read or in write
- \*1 mode.
- In parallel HIPLEX HOME pubset data areas cannot be supported per write-(read-)caching in the cache medium GS.
- A maximum of approx. 500 DAB caches can be set up in the main memory.
- A maximum of approx. 1000 DAB caches can be set up in the global memory.

### 3.7 Procedure in the event of errors

If errors occur, the following error files are required for diagnostic purposes:

:

- Exact description of error and, if required, information about whether and how the error can be reproduced
- Protocol of the /START-DAB-CACHING command
- If possible, system dump or SLED
- Copy of the CONSLOG file
- Copy of the SYSREP.DAB.091 file
- Copy or evaluation of the SERSLOG file
- Copy or evaluation of the HERSLOG file
- If required, GS printout if requested by an engineer.

## 4 Hardware support

\*1 DAB V9.1B can be used on all central units supported by BS2000/OSD V7.0

In addition to the main memory, the global memory is also supported as a cache medium.