



## **BMS/TS Installation Guide** for OS/390 and z/OS

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The complete BMS/TS documentation is supplied with the product in HTML format with fully functional links.  
This PDF is provided for the convenience of those customers who prefer hardcopy documentation.

## OS/390 Installation Guide Home

This installation guide provides instructions for installing BMS/TS for OS/390.

**Note:** These instructions are valid for OS/390, z/OS, MVS/ESA and MVS/XA operating systems.

Be sure to read the referenced SAMPLIB members. The SAMPLIB members may contain additional or more up-to-date information. You should review all of the instructions before you begin the installation.

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## Before You Begin the Installation

This section describes the issues you should review before installing BMS/TS, to help you select the appropriate installation options.

We strongly recommended that you read all of the instructions carefully before you begin the installation.

**Note:** This is the installation guide for OS/390, z/OS, MVS/XA and MVS/ESA operating systems.

Because of the variation in systems and architectures in which BMS/TS is installed, you should adapt the installation procedure to the specifics of your facility.

**Caution:** Upgrades to BMS/TS are not backward-compatible. This means you cannot revert to using an older release after you install an upgrade. We strongly recommend that you first install any upgrades in a non-production region for acceptance testing.

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## Using the JCL Samples

For your convenience, the distribution tape includes a library (SAMPLIB) of JCL samples. The installation instructions refer to the specific members required for each step of the install process.

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## System Requirements

### Disk Space Requirements

For OS/390 operating systems, BMS/TS requires the following disk space:

Disk Space	Minimum Allocation
Load Library	45 Cylinders (3390)
Sample Library	2 Cylinders (3390)

### VSAM Library Disk Space

Because BMS/TS uses VSAM to access the map library, you must have an installed and working VSAM component. The amount of library space required for maps you create depends on the number of maps you plan to maintain.

In most cases, each map requires an average of 4000 bytes. However, actual map size will vary with the number of named fields, size of initial values placed in fields, and the use of extended attribute support.

The BMS/TS demo library, provided on the installation tape, requires the following amount of disk space:

Disk Space	Allocation
VSAM Library	40 Cylinders (3390)

## Memory Usage

BMS/TS uses the following amount of memory:

BMS/TS Feature	Memory Used
ONLINE pageable	4–48k
Batch (GTBUTIL)	130k

## Operating System Requirement

You can run BMS/TS with z/OS, OS/390, VSE/ESA, MVS/XA, and MVS/ESA operating systems.

## Software Environment

BMS/TS works with Transaction Server 1.1 through 2.2.

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## Naming Conventions

BMS/TS uses consistent naming conventions for all programs, online and batch subroutines, and temporary storage.

BMS/TS uses the following naming conventions in its libraries:

Naming Convention	Library Type
GTB	BMS/TS programs
GTB\$	Online subroutines
GTB#	Batch subroutines
Gnn	Run-time modules for SAS

## Temporary Storage

When it is active, BMS/TS uses temporary storage with the QUEUEID name prefixes **G\$??xxxx**, where:

?? is two unique alphanumeric characters determined by BMS/TS,

xxxx is the terminal ID.

---

## Distribution Tape Format

The distribution tape contains files in the following order:

```
VOLID

File 1: • Header Labels
        • JCL: LABEL = 1,SL
          Dataset Name: DEMO.LIBRARY
        • Demonstration Library for CICS
        • Trailer Label

File 2: • Header Labels
        • JCL: LABEL=2,SL
          Dataset Name: GTB.SAMPLIB
        • Sample Library for CICS
        • Trailer Label

File 3: • Header Labels
        • JCL: LABEL=3,SL
          Dataset Name: GTB.LOADLIB
        • BMS/TS Load Library
        • Trailer Label

*** Tape Mark ***

*** Tape Mark ***
```

**Note:** The installation JCL in GTB.SAMPLIB is for a standalone installation. If you are a current BMS/TS customer using multiple regions, we recommend that you install this release to a single test AOR region. You can then re-install or migrate to your production CICS region at a later date.

If BMS/TS users will require ALIGNED BMS support, you must use the GTBUTIL CREATE or ALTER batch function with the ALIGNED parameter set to YES when you define the \*ADMIN record.

---

## Installation Constraints

Complete the following checklist to identify system characteristics and configuration options that apply to installing BMS/TS in your facility.

1. Which release of Transaction Server (1.1 through 2.2) are you running? \_\_\_\_\_

2. If you are using the Multi-Region Option, will you run BMS/TS in the TOR, the AOR, or both? (optional) You must review the Multi-Region Option (MRO) Considerations section prior to installation if you are using the Multi-Region Option.

\_\_\_\_\_ Terminal Owning Region (TOR)  
\_\_\_\_\_ Application Owning Region (AOR)  
\_\_\_\_\_ Both TOR/AOR

3. Will your installation include TUTOR/GT and/or PREVAL/GT?

\_\_\_\_\_ Yes (includes one or both products)

\_\_\_\_\_ No (includes neither product)

4. Is ASSIST/TS or ASSIST/GT installed in the same CICS region where you will install BMS/TS?

\_\_\_\_\_ Yes (What release of ASSIST/TS or ASSIST/GT are you using? \_\_\_\_\_)  
Be sure to read [Installing BMS/TS with Other GT Software Products](#) prior to installing BMS/TS.

\_\_\_\_\_ No

5. Will BMS/TS share a GT\$FILE (VSAM library) with ASSIST/TS or ASSIST/GT?

\_\_\_\_\_ Yes, GT Software Products will share a GT\$FILE library within single regions

\_\_\_\_\_ No, GT Software Products will have separate xx\$FILE libraries within single regions

6. Are you installing an upgrade of BMS/TS, or is this a first-time installation?

\_\_\_\_\_ First time installation of BMS/TS

\_\_\_\_\_ Upgrade from a currently installed prior release of BMS/TS (or BMS/GT)

7. Will you run BMS/TS (version 8) in the same region with ASSIST/TS and/or Novation (release 4.6 or higher)?

\_\_\_\_\_ Yes, BMS/TS will share a region with ASSIST/TS and/or Novation

Be sure to read [FTP Server Considerations](#) for important information.

\_\_\_\_\_ No, BMS/TS will not share a region with ASSIST/TS and/or Novation

---

## System Initialization Table

GT Software recommends the following entries in the SIT:

```
BMS=(FULL,COLD,UNALIGN,DDS)
```

```
EDSALIM=40M
```

**Note:** 40M is the minimum value for EDSALIM.

---

## GT\$FILE and Compatibility Among GT Software Products

GT\$FILE is a VSAM file that can be shared by GT Software products to simplify and standardize security and other common functions. It represents library space for GT Software products.

If your company uses BMS/TS and ASSIST/TS (or ASSIST/GT), the use of the GT\$FILE is affected by compatibility among versions of the respective products.

Before installing BMS/TS, you must make decisions regarding the operation of multiple GT Software products and the GT\$FILE.

**Note:** Refer to [Installing BMS/TS with Other GT Software Products](#) for instructions on creating shared or separate product libraries.

## Compatible Releases

Users of BMS/TS can share the GT\$FILE with any currently supported release of ASSIST/TS (or ASSIST/GT). However, you also have the option of placing these products in separate VSAM libraries.

## Incompatible Releases

If you are running BMS/TS in the same CICS region as a release of ASSIST/GT prior to release 2.0, you must place BMS/TS in a separate VSAM library within that region or partition.

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## CPU ID Requirements

Before you can install BMS/TS, you must provide GT Software with the ID numbers of each CPU (CPU serial number) on which you will run BMS/TS. The CPU IDs are required so that GT Software can generate your SYSPASS and FEATURE codes.

You must be licensed for each CPU ID.

- If you are installing BMS/TS for a system trial, use the SYSPASS TRIAL; no FEATURE or CHECKSUM code is required.
  - If you are upgrading BMS/TS, you must contact GT Software for new SYSPASS and FEATURE codes. Do not use your previous SYSPASS and FEATURE codes.
- 

## Customizing Your Installation

The BMS/TS installation instructions are general and apply to any installation. If you want to customize your installation, refer to the following:

- [Customizing BMS/TS](#),
  - [Using the SUBMIT Option](#),
  - [Installing BMS/TS with Other GT Software Products](#),
  - [Using BMS/TS with PREVAL/GT and TUTOR/GT Features](#).
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- Checklist for Upgrade Installation

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## Checklist for Upgrade Installation

The following is a summary installation checklist for users installing an upgrade. Follow the links for additional information about each task. The name of the corresponding member on the sample library is noted for each step.

Before you begin the installation, you should:

- Have your CPUID, SYSPASS, FEATURE and CHECKSUM codes available,
- Review the [installation constraints](#).

If you are installing BMS/TS for the first time, refer to the [new install checklist](#).

### Checklist for Installing an Upgrade of BMS/TS

Task #	Description	SAMPLIB Member(s)
	(Optional) Prepare for <a href="#">CD Installation</a>	
<a href="#">Task 1</a>	Download the Sample Library <i>This task is not required for CD installation.</i>	GTB.SAMPLIB(TASK01)
<a href="#">Task 2</a>	Download the Load Library <i>This task is not required for CD installation.</i>	GTB.SAMPLIB(TASK02)
<a href="#">Task 3</a>	Backup the GT\$FILE	GTB.SAMPLIB(TASK03)
<a href="#">Task 4</a>	Delete/Define the GT\$FILE	GTB.SAMPLIB(TASK04)
<a href="#">Task 5</a>	Restore/Convert the GT\$FILE	GTB.SAMPLIB(TASK05)
<a href="#">Task 6</a>	Alter/Print the *ADMIN Record	GTB.SAMPLIB(TASK06) GTB.SAMPLIB(TASK06PR)
<a href="#">Task 7</a>	Load Demo Library, Menus and Help Displays	GTB.SAMPLIB(TASK07C)
		Cartridge installation: GTB.SAMPLIB(TASK07)
<a href="#">Task 8</a>	Redefine CICS Resources	GTB.SAMPLIB(TASK08)
<a href="#">Task 9</a>	Verify CICS Startup List for RDO	GTB.SAMPLIB(TASK09)
<a href="#">Task 10</a>	Verify CICS Startup JCL	GTB.SAMPLIB(TASK10)
<a href="#">Task 11</a>	Apply System Passwords	GTB.SAMPLIB(TASK11)

_____	<a href="#">Task 12</a>	System Status Checkout	GTB.SAMPLIB(TASK12)
_____	<a href="#">Task 13</a>	Update BWS INI Files (optional)	GTB.SAMPLIB(TASK13)
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- Checklist for First-time Installation

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## Checklist for First-time Installation

The following is a summary installation checklist for users installing BMS/TS for the first time. Follow the links for additional information about each task. The name of the corresponding member on the sample library is noted for each step.

Before you begin the installation, you should:

- Have your CPUID, SYSPASS, FEATURE and CHECKSUM codes available,
- Review the [installation constraints](#).

**Note:** If you are installing BMS/TS for the first time, you can use the SYSPASS TRIAL. The FEATURE and CHECKSUM codes are not required.

If you are upgrading an existing installation, refer to the [upgrade checklist](#).

## Checklist for First-Time Installation of BMS/TS in CICS

Task #	Description	SAMPLIB Member(s)
	(Optional) Prepare for <a href="#">CD Installation</a>	
<a href="#">Task 1</a>	Download the Sample Library <i>This task is not required for CD installation.</i>	GTB.SAMPLIB(TASK01)
<a href="#">Task 2</a>	Download the Load Library <i>This task is not required for CD installation.</i>	GTB.SAMPLIB(TASK02)
<a href="#">Task 3</a>	<i>This task is not used during first-time installation.</i>	
<a href="#">Task 4</a>	Delete/Define the GT\$FILE	GTB.SAMPLIB(TASK04)
<a href="#">Task 5</a>	<i>This task is not used during first-time installation.</i>	
<a href="#">Task 6</a>	Create/Print the *ADMIN Record	GTB.SAMPLIB(TASK06NE) GTB.SAMPLIB(TASK06PR)
<a href="#">Task 7</a>	Load Demo Library, Menus and Help Displays	GTB.SAMPLIB(TASK07NC)  Cartridge installation: GTB.SAMPLIB(TASK07NE)
<a href="#">Task 8</a>	Redefine CICS Resources	GTB.SAMPLIB(TASK08)
<a href="#">Task 9</a>	Verify CICS Startup List for RDO	GTB.SAMPLIB(TASK09)

_____	<a href="#">Task 10</a>	Verify CICS Startup JCL	GTB.SAMPLIB(TASK10)
_____	<a href="#">Task 11</a>	Apply System Passwords	GTB.SAMPLIB(TASK11)
_____	<a href="#">Task 12</a>	System Status Checkout	GTB.SAMPLIB(TASK12)
_____	<a href="#">Task 13</a>	Update BWS INI Files (optional)	GTB.SAMPLIB(TASK13)
_____	<a href="#">Task 14</a>	Install the Bridge Test Tool (optional)	GTB.SAMPLIB(TASK14)

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## Installing BMS/TS

Before you begin the installation, be sure that you:

1. Identify your CPU ID. For assistance, contact your OS/390 system administrator.
  2. Call GT Software to obtain the SYSPASS, FEATURE, and CHECKSUM codes required for the installation of BMS/TS.
- If this is a trial installation, you do not need to call GT Software; your SYSPASS is TRIAL. (The FEATURE code and CHECKSUM are not required when the SYSPASS is TRIAL.)

---

## Please Note

All jobs and steps should end with a condition code of 00. However, Task 8 may result in condition code 4, and Task 4 may result in condition code 8. Refer to the \$\$\$CICS member of the SAMPLIB for additional information about the condition codes.

If you rerun any jobs or tasks that create a dataset, modify the appropriate JCL using one of the following methods:

- Delete the original dataset, or...
- Change the DISP=(NEW,CATLG) statement to read DISP=SHR or DISP=OLD.

Otherwise you will receive a NOT CATALOGUED – 2 error message.

---

## Procedure Summary

Refer to the appropriate checklist for your installation. There is a checklist for [new users](#), and one for users installing an [upgrade](#). The checklists include links to additional information for each task.

Installing BMS/TS should take approximately 4–8 hours.

---

## Sample JCL

To reduce the amount of JCL which must be manually created, the installation CD (or tape) includes sample JCL. The installation steps refer to these samples using the format GTB.SAMPLIB(TASK $nn$ ), where “ $nn$ ” is the task number.

**Note:** You must examine and edit all JCL before submitting any jobs.

Be sure to read the SAMPLIB member \$\$\$README before you begin the installation. If there are discrepancies between the \$\$\$README member and this install guide, the \$\$\$README member is correct.

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- Prepare to Install from CD

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## Prepare to Install from CD

If you are installing from a CD, you must perform these steps and then follow the installation check list beginning with Task 3.

**Note:** If you are installing BMS/TS from a cartridge, you will skip these steps.

The BMS/TS CD contains the following files, which were created on the mainframe with XMIT:

- GTB800\_SAMPLIB.BIN
- GTB800\_LOADLIB.BIN
- DEMO\_LIBRARY.BIN

---

## Upload Files from CD to the Mainframe

You can choose from two methods to upload the CD files to the mainframe:

- Method 1 allows you to upload the CD files by running batch jobs. Refer to the README.TXT file on the installation CD for instructions.
- Method 2 allows you to upload the CD files manually. Refer to the instructions below.

---

## Manually Upload the CD Files to the Mainframe

1. Allocate three files on the mainframe to receive the files from the CD.

Each file must have a DCB of RECFM=FB, LRECL=80, and BLKSIZE=3120. You can name the datasets according to your company's standards. You can note the dataset names in the table below for later reference.

The space allocation is as follows for each of the files:

CD Filename	Mainframe File Space	Your Allocated Dataset Name
GTB800_SAMPLIB.BIN	5 cylinders (primary) 1 cylinder (secondary)	_____
GTB800_LOADLIB.BIN	60 cylinders (primary) 10 cylinders (secondary)	_____
DEMO_LIBRARY.BIN	40 cylinders (primary) 2 cylinders (secondary)	_____

2. Upload the CD files (in binary mode) to their respective pre-allocated files on the mainframe.

3. In TSO, issue the following command for each uploaded mainframe file:

```
RECEIVE INDA('your-uploaded-mainframe-file-name')
```

You will be prompted to enter additional parameters. You can specify the dataset name for the output file by entering DSN('new-file-name') and pressing Enter. The *new-file-name* must be unique; it cannot be the same as *your-uploaded-mainframe-file-name*.

The RECEIVE command creates the datasets that are used for the installation.

If you press Enter without specifying a dataset name, the default dataset name will be used.

Dataset Name for Uploaded File (from step 1)	Your Output Dataset Name for the RECEIVE Command
_____	_____
_____	_____
_____	_____
_____	_____

You are now ready to proceed with installation [Task 3](#).

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- Task 1: Download the Sample Library

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# Task 1: Download the Sample Library

Copy the online installation documentation, JCL, and sample files from the installation tape. Access to this data will greatly simplify the installation of BMS/TS.

**Note:** Skip this task if you are installing from CD.

---

## Download the Sample Library

1. Use the GTB.SAMPLIB(TASK01) JCL to download the BMS/TS sample JCL. Review the comments and modify the JCL as needed. A sample of the TASK01 JCL appears below.
2. After successful completion of the above job, review the \$\$README member in SAMPLIB before beginning the actual installation of BMS/TS. This member includes a list of members in the SAMPLIB and a brief explanation of each member.

**Note:** If you notice a discrepancy between \$\$README and this installation guide, the procedures documented in \$\$README will be correct. The \$\$README member contains the most up-to-date information.

3. Review the \$\$\$R8nn member (where 8nn is the release number) in the SAMPLIB for information about the PTFs and other maintenance applied in this release.

The following is a sample of the TASK01 JCL.

```
//* COPY "JOB CARD" HERE
//* *****
//* CHANGE GTBRXXXO TO WHAT YOU WANT YOUR HIGH LEVEL
//* QUALIFIER(S) TO BE.
//* *****
//* DELETE BMS/TS REL 8.0.0 SAMPLE LIBRARY
//STEP1OF2 EXEC PGM=IEFBRL4
//SYSPRINT DD SYSOUT=*
//OUT      DD DSN=GTBRXXX.SAMPLIB,
//          DISP=(MOD,DELETE,DELETE),
//          SPACE=(CYL,(2)),
//          UNIT=SYSDA
//* *****
//* COPY BMS/TS REL 8.0.0 SAMPLE LIBRARY
//STEP2OF2 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//*****
//*
//IN      DD DSN=GTB.SAMPLIB,
//          LABEL=(2,SL,,EXPDT=98000),
//          DISP=(OLD,KEEP),
//          VOL=SER=GTB800,
//          UNIT=CART
// * * * * * UNIT=TAPE
//*****
```

```

//OUT      DD DSN=GTBRXXX.SAMPLIB,
//          DISP=(,CATLG,DELETE),
//          UNIT=SYSDA,
//          SPACE=(CYL,(2,1,20)),
//          DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB),
//          VOL=SER=GTS001
// * * * * *          !!!!!!! PLEASE MODIFY
//SYSIN    DD *
COPY INDD=IN,OUTDD=OUT
/*
//

```

Use the following substitutions in the TASK01 JCL:

<i>userid</i>	your user ID
<i>cart</i>	your unit name for the cartridge/reel
<i>your.gtb.samplib</i>	target dataset name
<i>sysda</i>	generic DASD unit name
<i>bbbb</i>	optimum blocksize for LRECL=80 on your DASD device
<i>volser</i>	DASD volume serial number

Be sure to read the note in the JCL about uncommenting DD statements.

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- Task 2: Download the Load Library

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## Task 2: Download the Load Library

Allocate and load the BMS/TS load library from the distribution tape.

**Note:** Skip this task if you are installing from CD.

---

### Download the Load Library

Use the GTB.SAMPLIB(TASK02) JCL to allocate and load the BMS/TS object library. Review the comments and modify the JCL as needed.

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- Task 3: Back Up the GT\$FILE

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## Task 3: Back Up the GT\$FILE

Copy the existing BMS/TS libraries prior to installing the new copy of BMS/TS.

**Note:** Users installing BMS/TS for the first time should skip this step.

Be sure to run Tasks 3–5 on the same day. You can combine Tasks 3–5. Refer to SAMPLIB member TASK0305 for information.

Backing up the BMS/TS file(s) protects existing libraries from damage in case an error occurs during installation. Depending upon how you have defined the VSAM file (GT\$FILE), you may want to temporarily close the file online to protect the integrity of the backup procedure.

**Caution:** If you are running BMS/TS and ASSIST/TS in the same region sharing the same GT\$FILE, you **must** use GTAUTIL to perform the backup. GTAUTIL is the batch utility supplied with ASSIST/TS.

---

## Backup the GT\$FILE

Use the GTB.SAMPLIB(TASK03) JCL to back up your existing BMS/TS libraries. (Caution: Do **not** use IDCAMS or any other utility to run the backup job!) Review the comments and modify the JCL as needed. You should run this task from the load library of the currently installed release of BMS/TS.

This task uses the BACKUP function of the GTBUTIL batch utility program. The BACKUP function uses the following format:

```
BACKUP LIST=xxx,REWIND=xxx
```

To ensure that BACKUP works correctly, remember to customize the JCL so that the DD statement points to GT\$FILE.

The following table describes the BACKUP parameters.

Parameter	Description
<b>LIST</b>	(optional) Produces a list of the members written to the backup tape. Valid entries are YES or NO. By default, there is no list.
<b>REWIND</b>	(optional) Indicates whether you want the tape rewound following the backup. Valid entries are YES or NO. The default is <b>NO</b> .

If you use both parameters, you must separate the parameters with a comma (,).

---

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## Contents:

- Task 4: Delete/Define the GT\$FILE

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## Task 4: Delete/Define the GT\$FILE

Delete the existing GT\$FILE (if any), then generate a new file to store BMS/TS information.

**Note:** Be sure to run Tasks 3–5 on the same day. You can combine Tasks 3–5. Refer to SAMPLIB member TASK0305 for information.

This function creates GT\$FILE, a VSAM cluster for BMS/TS data. GT\$FILE contains all of your BMS/TS data: maps, tables, system help screens, application help screens, demos, JCL, the administration record, Transaction Monitor table, etc.

Caution: If you are upgrading and you did not back up your existing BMS/TS file during [Task 3](#), data will be lost when you redefine GT\$FILE!

---

## Delete/Define the GT\$FILE

Use the GTB.SAMPLIB(TASK04) JCL to delete and define GT\$FILE. The TASK04 JCL automatically purges GT\$FILE prior to redefining it. Review the comments and modify the JCL as needed.

**Note to New Installs:** To avoid errors, remove the IDCAMS DELETE control card from the TASK04 JCL the first time you run this job.

The following table describes the parameters used when defining VSAM space for the GT\$FILE.

Cluster Definition	Recommended or Required?
NAME(GTB.MASTER.FILE)	Customize according to your company standards.
BLOCKS, RECORDS, TRACKS, or CYLINDERS	Required.
FREESPACE( <i>aa bb</i> )	Required, where “ <i>aa bb</i> ” represent percentages: for example, (10 30).
INDEXED	Required.
SHAREOPTIONS(2)	Required.
KEYS(20 4)	Required.
RECORDSIZE( <i>xxxx yyyy</i> )	Required, where “ <i>xxxx yyyy</i> ” represent record sizes in bytes, for example, (2048 6144). These values are suggestions for average or maximum record sizes. With time you will find out what sizes are best for your company. The maximum record length must not be less than 6144. BMS/TS supports fixed and variable record lengths, but does not

support spanned record lengths.

If you have an existing GT\$FILE, review its definition. The new size should be at least equal to or greater than the size of the existing GT\$FILE.

---

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## Contents:

- Task 5:  
Restore/Convert the  
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## Task 5: Restore/Convert the GT\$FILE

Enable the new release of BMS/TS to access all of the currently defined BMS/TS data, such as maps, tables, JCL, help displays, etc.

**Note:** Users installing BMS/TS for the first time should skip this step.

Be sure to run Tasks 3–5 on the same day. You can combine Tasks 3–5. Refer to SAMPLIB member TASK0305 for information.

---

## Restoring the BMS/TS File

By restoring the BMS/TS file, you are in effect creating a VSAM file in the new BMS/TS format. That is, you are copying the GT\$FILE which you backed up in [Task 3](#) into the VSAM file defined in [Task 4](#).

Caution: If you used GTAUTIL to backup the GT\$FILE in Task 3, you must use GTAUTIL to restore the file.

All parameter settings used in [Task 4](#) when defining the VSAM file affect the restored GT\$FILE. This file still contains the data that was in the GT\$FILE which you previously backed up.

This task uses the RESTORE function of the GTBUTIL batch utility program to restore the BMS/TS file. The RESTORE function uses the following format:

```
RESTORE LIST=xxx
```

LIST is an optional parameter that produces a list of the members being copied from the backup tape to the new GT\$FILE. Valid entries are YES or NO.

To ensure that RESTORE works correctly, remember to customize the JCL so that the DD statement points to GT\$FILE. Also, use only the RESTORE function of GTBUTIL (or GTAUTIL). Do not use the IDCAMS restore. GT Software does not support the restore capabilities of other vendors.

---

## Restore the GT\$FILE

Use the GTB.SAMPLIB(TASK05) JCL to restore the BMS/TS file. You should run this task from the load library of the current release of BMS/TS (or ASSIST/TS if installed in the same region). Review the comments and modify the JCL as needed.

---

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## Contents:

- Task 6:  
Create/Alter/Print the  
\*ADMIN Record

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## Task 6: Create/Alter/Print the \*ADMIN Record

Create (new installs) or alter (upgrades) the \*ADMIN record in the master (GT\$FILE) file. This record contains system settings and other information that is required in order to run BMS/TS.

---

### Creating or Altering the \*ADMIN Record

The CREATE function uses the following format:

```
CREATE NAME=+library name+
```

The ALTER function uses the following format:

```
ALTER NAME=+library name+
```

To ensure that the CREATE and ALTER functions work correctly, remember to customize the JCL so that the DD statement points to GT\$FILE.

---

### Create or Alter the \*ADMIN Record

Upgrade installs: Use the GTB.SAMPLIB(TASK06) JCL to initialize the GT\$FILE. Review the comments and modify the JCL as needed.

First-time installs: Use the GTB.SAMPLIB(TASK06NE) JCL to initialize the GT\$FILE. Review the comments and modify the JCL as needed.

The following table describes the CREATE parameters most commonly used during installation. Refer to Appendix B of the *BMS/TS Administrator's Guide* for a complete list of CREATE parameters.

Parameter	Description
<b>HELPMODEL</b>	(optional) Refer to <a href="#">Multi-Region Option (MRO) Considerations</a> for an example of how to use this parameter.
<b>MRO</b>	(optional) Refer to <a href="#">Multi-Region Option (MRO) Considerations</a> for an example of how to use this parameter.
<b>NAME</b>	(optional) The name you want to assign to the library. The name can include up to 30 characters, but must begin and end with the same special character (which cannot be used in the actual library name).

For example, if you wanted to name the library the Production library, you would enter:

```
+PRODUCTION LIBRARY+
```

There is no default.

---

## Print the \*ADMIN Record (Optional)

To print the \*ADMIN record, use GTB.SAMPLIB(TASK06PR) JCL.

---

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## Contents:

- Task 7: Load Demo Library, Menus and Help Displays

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## Task 7: Load Demo Library, Menus and Help Displays

Load the online help screens, menus and demos using the GTBUTIL TAPESEL function.

Caution: In order for the TAPESEL function to work correctly, you must first close the BMS/TS master file (xx\$FILE) in CICS.

---

### Loading the Demo Library and Help Displays

This task uses the TAPESEL function of the GTBUTIL batch utility to load the new help screens, demos, and system setup information to the GT\$FILE.

To ensure that TAPESEL works correctly, remember to customize the JCL so that the DD statement points to GT\$FILE.

**Note:** You must separate each TAPESEL parameter from any following parameter with a comma.

---

### Load the Demo Library, Menus and Help Displays

Refer to the appropriate SAMPLIB member for JCL to load the help screens, demos, and system setup information to the BMS/TS library. Review the comments and modify the JCL as needed.

If you are installing from CD:

Upgrade	GTB.SAMPLIB(TASK07C)
New install	GTB.SAMPLIB(TASK07NC)

If you are installing from cartridge:

Upgrade	GTB.SAMPLIB(TASK07)
New install	GTB.SAMPLIB(TASK07NE)

---

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## Contents:

- Task 8: Redefine CICS Resources

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## Task 8: Redefine CICS Resources

Define transactions, programs, and file resources to CICS using RDO (Resource Definition Online).

Before you begin, modify SAMPLIB member GTBCSD6F to refer to your GT\$FILE.

---

### Redefine Resources

Use the GTB.SAMPLIB(TASK08) JCL to copy the transactions, programs, and file resources to the appropriate system libraries. Review the comments and modify the JCL as needed.

**Note:** Certain CICS programs must run in CICS EXECKEY mode. Refer to SAMPLIB member GTBC3364 for a list of these programs.

---

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- Task 9: Verify the CICS Startup List for RDO

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## Task 9: Verify the CICS Startup List for RDO

Verify the CICS startup list for RDO.

---

### Verify the CICS Startup List for RDO

Read the GTB.SAMPLIB(TASK09) comments to verify the CICS startup list for RDO.

---

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## Contents:

- Task 10: Verify the CICS Startup JCL

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## Task 10: Verify the CICS Startup JCL

Includes a data definition (DD) statement for the GT\$FILE (optional based on CSD entries) and the BMS/TS load library. This identifies GT\$FILE and BMS/TS online programs to CICS.

---

### Verify the CICS Startup JCL

Use the GTB.SAMPLIB(TASK10) member to verify the CICS startup JCL. Review the comments and modify the JCL as needed.

---

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## Contents:

- Task 11: Apply System Passwords

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# Task 11: Apply System Passwords

Apply the system passwords to the master file. You must apply the passwords before you can run BMS/TS.

---

## Apply the System Passwords

The transaction code to access the standalone Password Administration function is **GTIB**. When you enter GTIB from a blank CICS screen, the Password Administration screen displays (view [sample](#)).

The table below describes the fields on the Password Administration screen.

Field Name	Description
<b>CPU Serial Number</b>	The CPU ID, as specified by GT Software.
<b>System Password</b>	The 8-character system password, provided by GT Software. Also known as the SYSPASS.
<b>Feature Code</b>	The 8-character feature code, provided by GT Software.
<b>Checksum</b>	Code used internally by BMS/TS.

1. Enter the CPU serial number, SYSPASS, FEATURE and CHECKSUM in the appropriate fields.

**Note:** For trial installations only, enter TRIAL as the SYSPASS. The FEATURE and CHECKSUM codes are not required.

2. Press F2.
3. If you are running BMS/TS on more than one CPU, repeat steps 1 and 2 for each CPU.
4. When you have finished, press F3 to exit the Password Administration transaction.

Refer to [Online Password Administration](#) for more information.

---

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## Contents:

- Task 12: System Status Checkout

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## Task 12: System Status Checkout

Verify that BMS/TS is correctly installed on your system.

For more information, see [Using the Installation Status Review Screen](#).

---

### Perform the System Status Checkout

1. Review the status of BMS/TS and CICS options to verify that you correctly installed BMS/TS. To do this, type GTBS and press Enter at the blank CICS screen. The BMS/TS Installation Status Review screen displays (view [sample](#)).
2. Review the status display area of the screen to determine if your system has the proper features activated for your customer number.
3. Use the function keys at the bottom of the screen to step through checks which will verify the status of your installation.
4. Review the message area of the screen. If you have any questions about the use of the Installation Status Review screen or its messages, contact GT Software Technical Support.
5. After reviewing the displayed information, press F3 to exit BMS/TS and return to the blank CICS screen.
6. Verify that you can start BMS/TS. To do this, type GTB and press Enter.

**Note:** If you have defined the terminal as having an alternate screen size, type GTBA and press Enter. (If you have not defined the terminal as having an alternate screen size, the GTBA and GTB transactions have identical functions.)

7. When the BMS/TS System Menu displays, use the menu options to explore BMS/TS.
8. After testing the BMS/TS options, press F3 until you exit BMS/TS and the blank CICS screen appears.

---

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## Contents:

- Task 13: Update INI Files for BWS

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## Task 13: Update INI Files for BWS

Update the initialization (INI) files for the BMS/TS Bridge Web Services.

**Note:** This task is required only if you will be using BMS/TS to create HTML templates.

---

### Update the INI Files

You must update the port addresses in the INI files in order for the Bridge Web Services and FTP Server to work correctly.

Read SAMPLIB member GTB.SAMPLIB(TASK13) for instructions on updating the INI files.

---

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## Contents:

- Task 14: Install the Bridge Test Tool

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## Task 14: Install the Bridge Test Tool

Install the test tool for HTML templates.

**Note:** This task is required only if you will be using BMS/TS to create HTML templates.

---

### Install the Bridge Test Tool

BMS/TS offers a tool for testing the HTML templates you create.

Read SAMPLIB member GTB.SAMPLIB(TASK14) for instructions on installing the test tool.

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## Contents:

- Customizing Your BMS/TS Installation

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## Customizing Your BMS/TS Installation

The BMS/TS installation instructions are general and apply to any installation. If you want to customize your installation, you can:

- [Install the Submit option,](#)
- [Install BMS/TS with other GT Software products,](#)
- [Use BMS/TS with PREVAL/GT and TUTOR/GT features, including MRO installation.](#)

---

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## Contents:

- [Using the Online SUBMIT Facility](#)
- [Using the CATAL Batch Function](#)

## Related topics:

- [Customizing BMS/TS](#)

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## Install the Submit Option

The Submit option allows you to catalog completed maps to your system library. In this way, you can bring maps, tables, and programs in your BMS/TS files from VSAM into your system library.

You can catalog completed maps to your system library in two ways:

- Using the online [SUBMIT](#) facility,
- Using the [CATAL](#) batch utility function.

You can use either method for any given map. However, your company practices may determine your method of cataloging maps to the system library. For example, test systems often use online submit, while production systems may use batch mode (because batch mode can still be used if CICS goes down). Security guidelines may also require that you use batch mode instead of online.

---

## Using the Online SUBMIT Facility

1. Add **one** of the following DD statements to your startup JCL:

```
//GT$PCH DD SYSOUT=(A,INTRDR)
```

or

```
//GT$PCH DD SYSOUT=(*,INTRDR)
```

2. Recycle CICS. Then refer to the [BMS/TS Administrator's Guide](#) for instructions on changing the Submit Screen Defaults.

---

## Using the CATAL Batch Function

If the CICS region containing BMS/TS is not available, you can install the Submit Option using the CATAL batch function of GTBUTIL, the BMS/TS batch utility program. CATAL builds the symbolic and/or physical map to be cataloged into the system library.

Use the following format for the CATAL batch function:

```
CATAL MAPSET=aaaaaaa
```

**Note:** In order for the CATAL function to work correctly, your JCL must include a DD statement pointing to GT\$FILE.

Refer to Appendix B, [Batch Functions](#), for more information about the [CATAL](#) function parameters.

## CATAL Batch Function

Write JCL to create a submit option by batch process. Sample JCL is available in SAMPLIB member CATAL.

---

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## Contents:

- Installing BMS/TS with Other GT Software Products

## Related topics:

- [Customizing BMS/TS](#)

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## Installing BMS/TS with Other GT Software Products

If you have multiple GT Software products installed at your location, you can share the BMS/TS library space (GT\$FILE) between products or you can keep them entirely separate in multiple libraries.

By letting the products share library space, you can store all products in one convenient location and save disk space. Keeping the products separate also has its advantages: for example, you can eliminate the problem of identically named map and help screen files. (This is an advantage primarily for older versions of ASSIST/GT that only produced help screens in the form of maps. More recent versions of ASSIST/GT and ASSIST/TS produce help as windows and use file naming conventions that make duplication unlikely.)

**Note:** You can share the library space (GT\$FILE) for BMS/TS version 7 or later with the library space for any currently-supported release ASSIST/TS or ASSIST/GT.

If your company's releases of these products are not compatible, follow the procedures in [Multiple VSAM Libraries](#).

---

## Single VSAM Library

If you elect to use a single VSAM library, BMS/TS will share the GT\$FILE with other GT Software products. However, each GT Software product must have its own \*ADMIN record.

During installation into a single VSAM library, we recommend that you still follow the installation steps described in Tasks 3, 4, and 5. When modifying the JCL for [Task 3](#), use the utility module for your currently installed GT Software product to back up the existing GT\$FILE. Make sure that the dataset or tape backup is complete and available before you start restoring the BMS/TS files in [Task 5](#).

Caution: If ASSIST/TS and BMS/TS are installed in the same region, use GTAUTIL to backup and restore the files.

---

## Multiple VSAM Libraries

To maintain a separate VSAM library for each GT Software product, you must select a file ID and filename different from those you are already using.

For the filename, use the format xx\$FILE, where xx is a prefix of your choosing — for example, TR\$FILE, BB\$FILE, MN\$FILE, etc.

**Note:** In the new user installation checklist(s), be sure to substitute the new file ID and file name in all examples which show GT\$FILE and GTS.MASTER.FILE.

## Define Multiple Libraries

1. Establish a BMS/TS transaction code that reflects the file prefix you chose when the new file was created. The letter “B” **must** be the third character of the prefix.

For example, suppose that you created a filename of TR\$FILE for a test region. In this case, you would use a transaction code of TRB.

2. Define the new VSAM file. Refer to [Task 4](#) for more information.
3. Write JCL, using the following sample JCL as a model, to add the \*ADMIN record to the xx\$FILE. This redirects all online requests from the BMS/TS product to your new library (PRILIB).

```
//xxxxxxx JOB ...
//JOB CAT DD DSN=usercat,DISP=SHR
//GTBUTIL EXEC PGM=GTBUTIL
//STEPLIB DD DSN=BMSTS.LOADLIB,DISP=SHR
//SYSLST DD SYSOUT=A
//GT$FILE DD DSN=xx.MASTER.FILE,DISP=SHR
//SYSIN DD *
        CREATE NAME=+library name+,PRILIB=pp
/*
```

In the sample JCL above:

- The dataset name in the GT\$FILE DD statement includes the new characters you selected for your GT product. For example, the dataset name might read TR.MASTER.FILE.
- In the PRILIB parameter, *PP* = prefix of the new BMS/TS library (for example, PP=TR for TR\$FILE).

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## Contents:

- [Using PREVAL/GT and TUTOR/GT](#)

## Related topics:

- [Customizing BMS/TS](#)

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# Using PREVAL/GT and TUTOR/GT

Using BMS/TS with the PREVAL/GT and TUTOR/GT features lets you create pre-validation editing for maps and customized help screens for your applications.

---

## Using the PREVAL/GT and TUTOR/GT Features

Both PREVAL/GT and TUTOR/GT are systems contained within BMS/TS that monitor application environments. PREVAL/GT handles editing and validation of input rules and tables. TUTOR/GT handles creating and linking of help screens to applications.

These systems reside in the same CICS regions as the applications they monitor and are linked to the applications by a Transaction Monitor. In operation, both systems are transparent to the user. They are invoked through menu choices dealing with rules, tables, and help screens.

Because companies differ in how they set up their application and development environments, PREVAL/GT and TUTOR/GT have several setup options. When installing BMS/TS, you should consider three separate issues regarding PREVAL/GT and TUTOR/GT:

- [Initiating PREVAL/GT and TUTOR/GT during CICS start up,](#)
- [Using alternative naming for the GT\\$FILE,](#)
- [Installing BMS/TS in an MRO environment.](#)

---

## Initiate PREVAL/GT or TUTOR/GT During CICS Startup

Automatic initiation of PREVAL/GT or TUTOR/GT requires you to load the Transaction Monitor. You can do this in three ways:

- A. You can [edit the Program Load Table – Program Initialization \(PLTPI\)](#).

**Note:** The CICS CSD must contain an entry for the DFHPLTxx module, where xx is the PLT suffix. If your release of CICS has PLT phases, you must place the BMS/TS entry in the last phase (stage).

- B. You can initiate automatic start up by using a [sequential terminal](#).

- C. You can [manually initiate start up](#) using the GTBH transaction.

## Use Program Load Table

To use the PLTPI to initiate PREVAL/GT or TUTOR/GT on CICS start up, add the following entry to the PLTPI.

```
TITLE 'CICS/VS PLT FOR TUTOR/GT or PREVAL/GT'
PRINT NOGEN
PLTGT DFHPLT TYPE=INITIAL,SUFFIX=xx
*****
* PLT ENTRIES TUTOR/GT or PREVAL/GT *
*****
DFHPLT TYPE=ENTRY,PROGRAM=GTBBHLP
DFHPLT TYPE=FINAL
```

**Note:** If you are running BMS/TS and ASSIST/TS in the same region, change program=GTBBHLP to program=GTABHLP. This entry must be located behind the DFHDELIM entry.

---

## Use Sequential Terminal

Perform the following steps to use a sequential terminal to initiate PREVAL/GT or TUTOR/GT on CICS startup.

1. Add the following entry to your PCT:

```
DFHPCT TYPE=ENTRY,TRAN=GTTS,PROGRAM=GTBBHLP,TWASIZE=256
```

**Note:** If you are running BMS/TS and ASSIST/TS in the same region, change program=GTBBHLP to program=GTABHLP.

2. Add the following entry to the sequential terminal input:

```
CWTO START LOAD OF BMS/TS \
GTTS \
CWTO LOAD COMPLETE \
CESF GOODNIGHT \
```

**Note:** The CWTO entries in the above sample send a message to the operator console before and after the BMS/TS transaction is executed. CESF GOODNIGHT is needed to suspend the terminal.

---

## Manually Initiate PREVAL/GT or TUTOR/GT

To manually initiate either PREVAL/GT or TUTOR/GT, type GTBH and press Enter from the blank CICS screen.

**Note:** If you are running BMS/TS and ASSIST/TS in the same region, use the transaction GTAH.

BMS/TS displays the message System Monitor Initialization Complete: ON.

If you do not get the above message on a manual initiation, PREVAL/GT and TUTOR/GT did not activate. In this case, press Enter to clear the screen and repeat the action.

---

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## Contents:

- Using Alternative Naming for GT\$FILE

## Related topics:

- [Using PREVAL/GT and TUTOR/GT](#)

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## Using Alternative Naming for GT\$FILE

If you elect to use alternative naming for GT\$FILE, you must tell BMS/TS which library to use for loading the Transaction Monitor. You must specify this library when you use BMS/TS in a multiple library environment with TUTOR/GT and PREVAL/GT features, and you have chosen to use a file prefix other than the default (GT\$FILE).

BMS/TS includes a user exit that is called immediately before loading the Transaction Monitor. BMS/TS uses this exit, in conjunction with the supplied override table that contains 26 file prefix combinations (AT through ZT), to override the default library name prefix (**GT**). The result: BMS/TS uses the correct library — even when you are using multiple libraries — before it loads the Transaction Monitor.

---

## Alternative Naming Options

You can use one of the 26 [supplied prefix combinations](#) (AT through ZT). These prefix combinations supplied with BMS/TS retain the letter “T” in the second position.

You may also choose to [customize the file prefix](#).

---

## Use a Supplied Prefix

Perform the following steps to use one of the supplied (AT through ZT) file prefixes.

1. Write JCL, using the following sample JCL as a model, to implement the new file prefix. This causes BMS/TS to load the Transaction Monitor from the new xx\$FILE instead of from the GT\$FILE.

```
//xxxxxxx JOB ...
//LINK EXEC PGR=IEWL,PARM='LIST,XREF,NOLET'
//SYSPRINT DD SYSOUT=A
//SYSLMOD DD DSN=GTB.LOADLIB,DISP=SHR
//SYSLIB DD DSN=GTB.OBJLIB,DISP=SHR
//CICSLIB DD DSN=CICS.LOADLIB,DISP=SHR
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(100,10))
//SYSLIN DD *
INCLUDE CICSLIB(DFHEAI)
INCLUDE SYSLIB(GTBBHLP)
INCLUDE SYSLIB(GTB$PCTM)
REPLACE GT$FILE(xx$FILE) (xx = any combination from AT through ZT)
CHANGE xx$FILE(GT$FILE) (xx = any combination from AT through ZT)
INCLUDE SYSLIB(GTBUOVER)
INCLUDE CICSLIB(DFHEAI0)
NAME GTBBHLP(R)
/*
```

//

2. Submit the job so that BMS/TS relinks the override module. Keep in mind that during the link process, an unresolved EXTERN (W) is normal.

---

## Create a Custom Prefix

When using BMS/TS in a multiple library environment with TUTOR/GT and PREVAL/GT features, you can choose a file prefix other than GT\$FILE or those included in the BMS/TS override module. In this case, you must create your own user exit override module. This lets you use any desired file prefix.

1. Write a program CSECT, using the following sample as a model, to implement the new file prefix.

```
UOVR TITLE 'GTBOVER – USER OVERRIDES–MVS'
*****
* *
* GTBOVER – ALLOWS THE USER TO REMOVE THE *
* GT$FILE FOR TUTOR/GT,PREVAL/GT, MENU/GT *
* *
*****
GTBUOVER CSECT
    DC CL2'xx' (xx = the file prefix you are using)
*
*
    END
```

2. Write JCL, using the sample JCL below, to relink the override module. This will activate the exit that BMS/TS calls immediately before loading the Transaction Monitor.

```
//XXXXXXXX JOB ...
//LINK EXEC PGM=IEWL,PARM='LIST,XREF,NOLET'
//SYSPRINT DD SYSOUT=A
//SYSLIB DD DSN=GTB.OBJLIB,DISP=SHR
//CICSLIB DD DSN=CICS.LOADLIB,DISP=SHR
//SYSUT1 DD UNIT=SYSDA,SPACE=(1024,(100,10))
//SYSLIN DD *
INCLUDE CICSLIB(DFHEAI)
INCLUDE SYSLIB(GTBBHLP)
INCLUDE SYSLIB(GTB$PCTM)
INCLUDE SYSLIB(GTBUOVER)
INCLUDE CICSLIB(DFHEAI0)
NAME GTBBHLP(R)
/*
//
```

3. Submit the job.

---

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## Contents:

- [TOR/AOR Installation](#)
- [AOR-only Installation](#)

## Related topics:

- [Using PREVAL/GT and TUTOR/GT](#)

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## Multi-Region Option (MRO) Considerations

If your facility has the BMS/TS optional TUTOR/GT or PREVAL/GT features, you can execute either system using one of two concepts of MRO:

### TOR/AOR (Terminal Owning Region/Application Owning Region)

In general, PREVAL/GT or TUTOR/GT execute in the TOR. However, these systems are also active in the AOR in order to pass information back to the TOR. This allows BMS/TS to service all AOR-CICS systems with no limits on functionality.

When monitoring from the TOR, BMS/TS checks all terminal I/O passing through the TOR. Transactions involving BMS/TS are checked against the Transaction Monitor to see if a function needs to be performed. When a function is required, BMS/TS passes control to either the user or the BMS/TS transaction accordingly.

### AOR Only (Application Owning Region)

By executing PREVAL/GT or TUTOR/GT in the AOR, you can isolate applications and keep the TOR free of any monitoring programs. However, this will not allow the user to interface with conversational programs.

---

## TOR/AOR Installation

Perform the following steps to locate BMS/TS in the TOR/AOR.

1. Run the ALTER function of GTBUTIL (the BMS/TS batch utility program). Use the following format and parameters:

```
ALTER MRO=TORAOR,HELPMODEL=X**H
```

2. Activate BMS/TS first in the AOR Program Load Table.
3. If one of the following conditions is true, activate BMS/TS last in the TOR Program Load Table:
  - ◆ You have other software that activates CICS exits,
  - ◆ You have other entries in the PLT,
  - ◆ You use a sequential terminal to activate exit software.
4. Define the GT\$FILE to the TOR as having full access. If you desire full access in AORs, consider using a File Owning Region. Keep in mind that BMS/TS requires that you define GT\$FILE with the parameter: SHAREOPTION (2,3).
5. Both PREVAL/GT and TUTOR/GT need certain information from each application in each AOR. To allow these systems to access this information, add the appropriate RDO/CSD entries to each AOR.

**Note:** Any AOR that uses PREVAL/GT or TUTOR/GT must have access to GT\$FILE (as input access) and to the GTBH and GTBI transactions (for execution of the system monitoring programs).

You need to maintain only one Transaction Monitor for all of the CICS systems. BMS/TS will reference this table each time it is initialized. The transaction monitor table will be maintained in the TOR.

You must initialize BMS/TS in each CICS (TOR and AOR). You can do this in the PLT or by using the GTBH transaction.

Allow the transaction CSD entries to default to LOCAL.

---

## AOR Only Install

Perform the following steps to locate BMS/TS in the AOR only:

1. If you are using other software that activates CICS exits, you must activate BMS/TS first in the AOR Program Load Table. This entry must follow the DFHDELIM entry.
2. Run the ALTER function of GTBUTIL (the BMS/TS batch utility program). Use the following format and parameters:

```
ALTER MRO=AOR
```

3. If you are running multiple AORs, place a full BMS/TS system in each AOR with unique transactions and files. (However, you can share files in a DOR/FOR setup.)
4. If you are running multiple AORs, each AOR must have a unique 3-character transaction code prefix for BMS/TS to use.

For example, if AOR1 uses GTB (which is the default), then AOR2 could use GT2, AOR3 could use GT3, etc.

5. Specify the BMS/TS transaction CSD entries in the TOR as REMOTE, with the SYSID of the AOR-CICS. (Remember, if you are running multiple AORs, each AOR must have a unique transaction code prefix.) Each of these entries must appear in the TOR's transaction CSD with the appropriate REMOTE/SYSID parameters.
6. For each entry in the Transaction Monitor, you must specify the actual transaction code, along with the program the entry calls. See [Edit the Transaction Monitor](#) in the *BMS/TS Administrator's Guide* for more information on adding entries to the Transaction Monitor.

**Note:** If you are using PREVAL/GT, you cannot use generic transaction codes in the Transaction Monitor.

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## Using the Installation Status Review Screen

The Installation Status Review screen displays system information that is used during installation checkout and troubleshooting.

This screen displays various options and parameters that may affect the execution of BMS/TS.

---

## Access the Installation Status Review Screen

From a blank CICS screen, type GTBS and press Enter to display the Installation Status Review screen (view [sample](#)).

The Installation Status Review screen includes three sections:

- The top portion of the screen displays [status information](#) about the installation of GT Software products.
- The center of the screen displays [“Attention” messages](#). BMS/TS uses “Attention” messages to notify you of items that may need to be addressed. An “Attention” message does not necessarily indicate a problem. It may indicate a product option that is not using the default values.
- A list of [function keys](#) displays at the bottom of the Installation Status Review screen. Use these function keys to check specific parts of the system.

---

## Status Display

The installation information contains four columns of information. This information remains at the top of the screen, regardless of which function key(s) you use to display more status details.

- Column 1 lists the release and version of all GT Software products currently installed in the region.
- Column 2 lists information about the operating system and CICS release running in this region. The current operator ID also displays.
- Column 3 displays information about the terminal, including terminal type and screen size.
- Column 4 provides information about the current library, including the SYSPASS and FEATURE codes, and the encrypted MASTPASS (if applicable).

---

## Message Area

The Message Area displays status reports — resulting from function key actions — about various CICS and BMS/TS tables.

BMS/TS automatically checks for any system options and parameters that may affect the execution of BMS/TS. If a condition is found that may need to be addressed, BMS/TS issues a message with the prefix **\*\*ATTENTION\*\***. BMS/TS also issues **\*\*ATTENTION\*\*** messages for informational purposes.

The [ATTENTION messages](#) are described below.

---

## Function Key Area

The following table describes the function keys that are available on this screen.

Function Key	Description
F1 (Help)	Provides screen level help that lists the function key assignments. No field level help exists for this screen.
F2 (Internal)	Displays detailed information about the *ADMIN record that is in the primary product library (usually GT\$FILE).
F3 (Exit)	Exits this screen.
F4 (PPT)	Checks all programs for a matching product release ID. Also displays program release ID exceptions for validation of PPT entries.
F5 (FCT)	Displays file information needed to validate FCT entries.
F6 (SIT/PCT)	Displays CICS options for validation of PCT table entries.
F8 (User exits)	Displays active CICS user exits.
F9 (CPU IDs)	Displays a list of active CPU IDs.

---

## Attention Messages

Attention messages may display when you first access the Installation Status Review screen, or after you press one of the valid function keys. The messages are described below.

Note to users of CICS 3.3 and higher: When checking the SIT, ignore any messages related to the TSP or EXIT parameters.

Message Text	Description
ALL PCT ENTRIES FOUND	All BMS/TS PCT entries have been found.
ALL PROGRAMS FOUND	All the programs required for the execution of BMS/TS have been found in the CSD.
CICS SIT HAS EXIT=YES	The EXIT parameter in the SIT table is set to "YES". Users of CICS release 3.3 (and higher) can ignore this message.
CICS SIT HAS EXIT=NO	The EXIT parameter in the SIT table is set to "NO". You must change this value to 'YES' in order for BMS/TS to run properly. Users of CICS release 3.3 (and higher) can ignore this message.
CICS SIT HAS BMS=UNALIGNED	The BMS parameter in the SIT table is set to unaligned.
CICS SIT HAS BMS=ALIGNED	The BMS parameter in the SIT table is set to aligned.
CODE AT DFHZARQ IS NON-STANDARD	The DFHZARQ routine is not the normal IBM routine and the actual code located at the DFHZARQ entry point is not standard CICS exit code. This may affect the execution of BMS/TS. If you are having problems, contact GT Software Technical Support.
	The CRTE transaction code was used to route to the current AOR.

CRTE WAS USED TO ROUTE THIS TRANID	
CSSF: DFHSNP =	If the CICS sign-off transaction does not point to the standard IBM sign-off program DFHSNP, this message displays the program name that is being used by the CSSF transaction.
CSSN: DFHSNP =	If the CICS sign-on transaction does not point to the standard IBM sign-on program DFHSNP, this message displays the program name that is being used by the CSSN transaction.
DFHZARQ ENTRY=	This message displays a hexadecimal representation of the DFHZARQ code found at the DFHZARQ entry point. Contact Technical Support if you are receive this message.
DFHZARQ POINTS TO ANOTHER PACKAGE	The CICS entry point for DFHZARQ currently points to a routine other than the standard IBM routine. This may affect the execution of BMS/TS. If you are having problems, contact GT Software Technical Support.
DFHZARQ POINTS TO:	This message displays the program name pointed to by DFHZARQ.
EXIT=xxxxxxx , IS ACTIVE	This message identifies the currently active CICS exits. This includes BMS/TS exits and other software exits that are active on your system.
GT\$FILE: BROWSE IS NOT ALLOWED	The GT\$file has not been defined with BROWSE capability. You must define the BMS/TS VSAM file with BROWSE capability.
GT\$FILE: DEFINED AS FIXED LENGTH	The GT\$FILE has been defined as a fixed length record format in the FCT. The BMS/TS FCT entry should be defined as a variable length file.
GT\$FILE: KEY LENGTH:	This is the key length of each record on the GT\$FILE. The key length for the BMS/TS file should be 20.
GT\$FILE: KEY POSITION:	This message displays the key position that has been defined on the GT\$FILE. For the BMS/TS file, the key should be defined at position 4.
GT\$FILE: MAX RECORD LENGTH:	This is the maximum record length that has been defined for the BMS/TS VSAM file. If the defaults for the file have been taken as defined in the installation guide, the maximum record length will be 12288.
GT\$FILE: NOT IN FCT	The BMS/TS VSAM file cannot be found in the FCT. If you are using the default name for the BMS/TS VSAM file, you should define an FCT entry for GT\$FILE.
GT\$FILE: TYPE=REMOTE FCT ENTRY	The GT\$FILE has been defined as a "remote" file in the FCT. The BMS/TS FCT entry should not be defined as a remote dataset.
GT\$FILE: UPDATE IS NOT ALLOWED	The GT\$FILE has not been defined with UPDATE capability. You must define the BMS/TS VSAM file with UPDATE capability.
GTBTABL: PROGRAM NOT AVAILABLE	This message does not indicate an error in your installation of BMS/TS. Disregard this message.
GTxx IS MISSING FROM THE PCT	Not all PCT entries by BMS/TS have been found in the PCT. This message identifies those transaction codes that are missing.
MONITOR EXIT NOT ACTIVE	There are no exits active for BMS/TS. BMS/TS is not active.
MONITOR EXIT IS ACTIVE	Exits are active, and BMS/TS is operational.
MONITOR TRANSACTION CODE IS xxxx	Displays the transactions being used to load the *SYSTEM monitor table.
MRO MONITOR OPTION TCTUA OFFSET=X'nn'	Displays the offset into the TCTUA that BMS/TS will use to pass information between the AOR and the TOR. (MRO option)

MRO TCTUA=X'nn', OFFSET=X'nn', NEED=X'nn'	An error has been detected at this terminal regarding the amount of TCTUA area that is available. This message displays the amount of TCTUA available at this terminal, the offset specified for BMS/TS, and the additional amount of TCTUA area needed.
NO USER EXITS ACTIVE	This message indicates that there are no active CICS exits enabled on your system.
pgmname: INVALID RELEASE(nnnn)	BMS/TS has found a program in the CSD that has an invalid release ID. All BMS/TS programs must contain the same release number. Check your installation procedure and/or library assignments for possible errors.
pgmname: PROGRAM NOT AVAILABLE	Not all programs required by BMS/TS have been found in the CSD. This message identifies those programs that could not be found.
READ BUFFER SUPPORT NOT AVAILABLE	BMS/TS requires the CICS READBUFFER command. However, this support is not currently available to CICS. Check CICS generation parameters or other software on your system for possible reasons why the support is not available.
STANDARD HELP F KEY IS xxxx	This message displays the default help key defined in the *ADMIN record.
SYSTEM MONITOR TABLE IS NOT LOADED	The BMS/TS Transaction Monitor is not loaded. You must load the Transaction Monitor in order to use the BMS/TS features for adding prevalidation (PREVAL/GT) and help screens (TUTOR/GT) to maps. See <a href="#">Using BMS/TS with PREVAL/GT and TUTOR/GT Features</a> for more information.
TRAN=xxxx,PGM=xxxxxxxxx S=A,TWA=nnnn	This message displays information about BMS/TS PCT entries. These entries should be compared against those in the SAMPLIB on the installation tape for possible errors.
TRANID WAS ROUTED TO THIS AOR CICS	The TOR PCT entry for the transaction you are currently running was set up to be routed to the AOR.

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- [Before You Begin the Installation](#)

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## FTP Server Considerations

The GT Software products BMS/TS, ASSIST/TS and Novation Process Extender for CICS are all supplied with an FTP server.

If you install two or more of these products in the same region, you can share one FTP server between multiple products.

**Note:** The FTP Server is an optional feature for BMS/TS and you must be licensed to use it.

---

## Why Share an FTP Server Between Products?

Software is updated and improved continually. Each product release includes the most current FTP server.

By running the FTP server of the most recently upgraded/installed product, you'll have the most up-to-date FTP server available, providing the most efficient use of your system resources.

---

## How Do I Share an FTP Server Between Products?

You will use the command line processor to edit the hfs.ini file (located in the HFS: volume) and add mount commands to mount the various xx\$FILE(s) as HFS volumes. For example:

```
{MOUNT}
VOLUMES=2
VOL1=G1$FILE\G1:
VOL2=G2$FILE\GT:
```

The volume setting informs the product how many VOL commands exist. These volumes will not display during a VOLS command in the command line processor, but they can be accessed via a CD command for the mount point used. In the above example, CD G1: will access the G1\$FILE and CD G2: will access the G2\$FILE.

---

## What If I Run Separate FTP Servers?

Both the BMS/TS and ASSIST/TS FTP servers use the same transaction code: **GTRV**. If you want to run the BMS/TS and ASSIST/TS FTP servers separately, you will need to create different transaction codes and xx\$FILE entries, which is normally the case when BMS/TS and ASSIST/TS are in the same region. Each server would need a unique FTP port assigned via the GTBIPFTP.INI file.

This additional overhead is **not** recommended, as a single FTP server could handle the processing load.

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# Getting Technical Support

This document explains how to get technical assistance if you have questions about BMS/TS.

---

## Product Documentation

BMS/TS is supported by online help. The help system is the first place you should look when you need information about the product.

If the online help does not answer your question, refer to the appropriate sections of the product documentation for more detailed information.

You can also **search the product support database** on the GT Web site at [<http://www.gtsoftware.com>](http://www.gtsoftware.com).

---

## Technical Support Staff

If you cannot resolve the problem using the product documentation, the GT Software Technical Support staff is available for telephone consultation. Before you call, have the following information available:

- BMS/TS release number,
- Transaction Server release number,
- The number and text of the system message (if any),
- Complete description of the problem.

In order to resolve a problem, it is important to tell the Technical Support representative exactly what was being done when the problem occurred. Details are important. It may be helpful to make notes about what happened before you call.

You can also try to re-create the problem, and tell the Technical Support representative whether you got the same results.

---

## Contacting GT Software

GT Software Technical Support representatives are available Monday through Friday between the hours of 8:30 AM and 5:15 PM Eastern time. After business hours, you can leave a message. Your call will be returned the next business day.

To call GT Software, dial 404-253-1300.

To send a facsimile (fax), dial 404-253-1314.

Send Internet e-mail to [sales@gtsoftware.com](mailto:sales@gtsoftware.com) or [support@gtsoftware.com](mailto:support@gtsoftware.com).

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