
Supporting

Version 12.1 of NGT Check for DB2 for z/OS
Version 12.1 of NGT Load for DB2 for z/OS
Version 12.1 of NGT LOBMaster for DB2 for z/OS
Version 12.1 of NGT Reorg for DB2 for z/OS
Version 12.1 of NGT Stats for DB2 for z/OS
Version 12.1 of NGT Unload for DB2 for z/OS
Version 12.1 of NGT Utility Manager for DB2 for z/OS

December 2016
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United States and Canada

<table>
<thead>
<tr>
<th>Address</th>
<th>Telephone 1</th>
<th>Fax 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMC SOFTWARE INC</td>
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<td>2103 CITYWEST BLVD</td>
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<td>HOUSTON TX 77042-2827 USA</td>
<td>1 800 841 2031</td>
<td></td>
</tr>
</tbody>
</table>

Outside United States and Canada

<table>
<thead>
<tr>
<th>Telephone</th>
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</thead>
<tbody>
<tr>
<td>+01 713 918 8800</td>
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</table>

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- Search a database for problems similar to yours and possible solutions
- Order or download product documentation
- Download products and maintenance
- Report a problem or ask a question
- Subscribe to receive proactive e-mail alerts
- Find worldwide BMC support center locations and contact information, including e-mail addresses, fax numbers, and telephone numbers

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Before contacting BMC
Have the following information available so that Customer Support can begin working on your issue immediately:

- Product information
  - Product name
  - Product version (release number)
  - License number and password (trial or permanent)
- Operating system and environment information
  - Machine type
  - Operating system type, version, and service pack or other maintenance level such as PUT or PTF
  - System hardware configuration
  - Serial numbers
  - Related software (database, application, and communication) including type, version, and service pack or maintenance level
- Sequence of events leading to the problem
- Commands and options that you used
- Messages received (and the time and date that you received them)
  - Product error messages
  - Messages from the operating system
  - Messages from related software
License key and password information

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- Send an e-mail message to customer_support@bmc.com. (In the Subject line, enter SupID:yourSupportContractID, such as SupID:12345.)
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About this book

This book contains detailed information about the associated product or products. This preface explains the special conventions that the book uses, and how to access related publications.

If applicable, the preface also summarizes the major changes included in the latest release of the product.

Related publications

From the BMC Support Central website, you can use the following methods to access related publications that support your product or solution:

- Link to the BMC Documentation Center to browse documentation sets ([http://www.bmc.com/available/documentation-center.html](http://www.bmc.com/available/documentation-center.html) or, for secured documentation sets, [http://www.bmc.com/available/documentation-center-secure.html](http://www.bmc.com/available/documentation-center-secure.html)).

- View Quick Course videos (short overviews of selected product concepts, tasks, or features), which are available from the following locations:
  - Documentation Center (primary center and secured center)
  - BMC Mainframe YouTube channel ([https://www.youtube.com/user/BMCSoftwareMainframe](https://www.youtube.com/user/BMCSoftwareMainframe))

- View individual product documents (books and notices) within the “A – Z Supported Product List” ([https://webapps.bmc.com/support/faces/az/supportlisting.jsp](https://webapps.bmc.com/support/faces/az/supportlisting.jsp)).

Products with online interfaces also offer online Help via the F1 key or, for graphical user interfaces (GUIs), via a Help button.
If you prefer hardcopy documentation, you can order it from your BMC sales representative or from Support Central. Also, from Support Central you can subscribe to receive proactive e-mail alerts when BMC issues notices.

Conventions

This document uses the following special conventions:

- All syntax, operating system terms, and literal examples are presented in this typeface.

- Variable text in path names, system messages, or syntax is displayed in italic text:
  
  \texttt{testsystest/instance/fileNamen}

- Menu sequences use a symbol to convey the sequence. For example, \texttt{Actions} => \texttt{Create Test} instructs you to choose the \texttt{Create Test} command from the \texttt{Actions} menu.

Syntax statements

This topic explains conventions for showing syntax statements.

A sample statement follows:

\begin{verbatim}
COMMAND KEYWORD1 [KEYWORD2 | KEYWORD3] KEYWORD4={YES | NO} fileName...
\end{verbatim}

The following table explains conventions for syntax statements and provides examples:

<table>
<thead>
<tr>
<th>Convention</th>
<th>Example</th>
</tr>
</thead>
</table>
| Items in italic type represent variables that you must replace with a name or value. If a variable is represented by two or more words, initial capitals distinguish the second and subsequent words. | alias  
databaseDirectory  
serverHostName |
<table>
<thead>
<tr>
<th>Convention</th>
<th>Example</th>
</tr>
</thead>
</table>
| Brackets indicate optional items. Do not type the brackets when you enter the option. A comma means that you can choose one or more of the listed options. You must use a comma to separate the options if you choose more than one option. | ![Example](tableName, columnName, field) 
-[-full, -incremental, -level] |
| Braces indicate that at least one of the enclosed items is required. Do not type the braces when you enter the item. | ![Example](DBDName | tableName) 
UNLOAD device={disk | tape. fileName | deviceName) 
{-a | -c} |
| A vertical bar means that you can choose only one of the listed items. In the example, you would choose either commit or cancel. | ![Example](commit | cancel) |
| An ellipsis indicates that you can repeat the previous item or items as many times as necessary. | ![Example](columnName...) |
Overview of NGT Subsystem

The BMC Next Generation Technology Subsystem (NGT Subsystem) component is required by all BMC NGT utility products. The NGT Subsystem makes online operations possible without using extended-function hardware.

The NGT utility products require version 5.2.00 or later of NGT Subsystem to support expanded RBA/LRSN format.

**Note**

NGT Subsystem 5.2.00 is downwardly compatible with version 9.3.00 of the former CDB Software products. Users of those products can migrate to NGT Subsystem 5.2.00 before migrating to the IBM DB2 Version 11 DBMS. Users must migrate to NGT Subsystem 5.2.00 before migrating to DB2 Version 11 NFM.

NGT Subsystem uses a high-speed I/O monitor and driver that monitors and saves changed pages during online utility runs. The monitor and driver do not use or interfere with the DB2 buffer manager or DB2 logs. The subsystem address space should be started at IPL time and remain in this state until the IBM MVS system is shut down.

Jobs running NGT utility products must obtain a point of consistency quiesce with DB2 before initiating a session with NGT Subsystem. After this session is established, any changed pages that NGT Subsystem monitors and saves remain allocated until the session terminates.

NGT Subsystem has numerous initialization parameters. You can set their defaults during NGT Subsystem startup (see “Configuring NGT Subsystem” on page 13) or while customizing your NGT utility products.

NGT Subsystem also supports operator commands that use the MODIFY z/OS system command. For example, you can use the DISPLAY command to display I/O statistics and session activity. For more information, see “Display commands” on page 21.
Managing NGT Subsystem

This chapter describes how to manage the NGT Subsystem component, including parameters and commands that you can use.

Configuring NGT Subsystem

Use the following procedure to configure NGT Subsystem.

Note

BMC recommends that you place NGT Subsystem in the same performance group as the DB2 DBM1 address space.

To configure NGT Subsystem

1. Copy the startup procedure CDBSS member of the installation CNTL library to SYS1.PROCLIB or one of its concatenations.

2. Customize the startup procedure to reflect the name of the load module library on the STEPLIB DD statement.

3. Set up initialization parameters, if required.

WARNING

Do not set any parameters in your system procedures. NGT Subsystem automatically determines the values that are optimal for performance. Use the parameter overrides only after consulting with BMC Customer Support about a specific issue.

For information about these parameters, see “Initialization parameters” on page 14.
Initialization parameters

This topic describes NGT Subsystem initialization parameters.

**DSNMAX=number**

This parameter indicates the maximum number of IBM DB2 data sets that NGT Subsystem can monitor simultaneously. You can specify a number from 64 through 32767. Upon reaching the specified limit, NGT Subsystem will not allow any new sessions to be established and causes utilities to wait until entries are available.

The default value is 32767.

You can shorten this parameter but must use at least the first three characters (for example, DSN or DSNM).

---

**Note**

If an NGT utility job issues the message NGTC193 WAITING FOR A DSNE SLOT, check the DSNMAX parameter value. If the value is less than 15000, set it to 15000.

---

**DSPMAX=number**

This parameter indicates the maximum size, in megabytes, of the data spaces that NGT Subsystem uses to save data pages. You can specify a number from 64 through 262144. (262144 is equivalent to 256 GB.) If you specify a small value and the current change activity requires more storage, the concurrent mode utility job will fail. The data space storage is allocated and freed based on I/O and session activity needs.

NGT Subsystem calculates the default value based on the available frames and 13 percent of auxiliary paging slots.

You can specify this parameter with as few three characters, beginning with the first character (for example, DSP or DSPM).

---

**WARNING**

NGT Subsystem does not check the specified value to ensure that the operating system has enough paging resources to back up memory requirements. Specifying a large value could result in excessive paging and reduced throughput. Therefore, BMC recommends that you do not specify a value for this parameter.

---

**SQALIMIT=number**

This parameter indicates the aggregate size, in kilobytes, of common fixed memory to allocate for concurrent I/O activity. You can specify a number from 64 through 9999. This storage holds control blocks and channel command words (CCWs) to
perform I/O processing and is allocated from subpool 228. Each I/O process requires a minimum of 4 KB of storage and is obtained and freed on demand. If the amount of requested storage is greater than the specified limit, the current I/O process terminates and the job in session with NGT Subsystem eventually fails.

The default for this parameter is 2048, which can handle 512 simultaneous I/O processes.

You can shorten this parameter but must use at least the one character beginning with the first character (for example, S or SQA).

**LOGLIMIT=number**

This parameter indicates the maximum number of logging activity lines of output, in thousands, for the SYSPRINT file. Upon reaching the limit, NGT Subsystem schedules the existing file for SYSOUT processing and allocates a new SYSOUT file for logging NGT Subsystem activity. You can specify a number from 0 through 32767.

A value of 0, the default, indicates no limit.

You can shorten this parameter but must use at least the one character beginning with the first character (for example, L or LOG).

---

**Note**

You can also use the NGT Subsystem WRITE command to schedule the SYSOUT file for processing.

**GROUP=sysplexGroupName**

In a sysplex environment, use this parameter to override the default sysplex group name of ZCDBSS. All NGT Subsystems in the sysplex must have a common group name.

You can shorten this parameter but must use at least the one character beginning with the first character (for example, G or GR).

**CSM={YES | NO}**

This parameter specifies Cross System Messaging (CSM) facility options. In a sysplex environment, messages printed in a NGT Subsystem log are broadcast to all active NGT Subsystems in the complex. To disable broadcasting, specify CSM=NO.

The default is YES.
You can shorten this parameter but must use at least the one character beginning with the first character (for example, C).

**UTLMEM=** *number*

This parameter specifies the upper memory limit, in megabytes, allowed for a single utility connection. The value cannot be greater than the value of the DSPLIMIT parameter. Upon reaching the limit, NGT Subsystem issues message NGTC152.

The default is the value that the DSPLIMIT parameter uses.

You can shorten this parameter but must use at least the one character beginning with the first character (for example, U or UTL).

**XIPL={Y | N}**

This parameter specifies whether cross-IPL restart is allowed (Y) or not allowed (N):

- For a value of N, when a shutdown or IPL of a remote machine interrupts existing sessions, those sessions fail.

- Y, the default, allows sessions to continue processing provided that the following rules are followed:
  
  — You must start NGT Subsystem before starting any DB2 instance under the current operating system. After NGT Subsystem restarts and issues message NGTC199, you can perform DB2 startup. (NGTC199 is issued regardless of the XIPL parameter.)
  
  — You must use the NGT Subsystem SHUTDOWN command to shut down NGT Subsystem. The shutdown must be done after all participating DB2 instances in the current system have terminated.
  
  — All NGT Subsystems in the complex must have XIPL=Y in effect.

If these rules are not followed, the utility job eventually fails, and its NGT Subsystem component issues the following message:

NGTC339 SESSION VERIFICATION FAILED ON SYSTEM(*systemName*) REASON *reasonCode*

*systemName* is the remote NGT Subsystem system name, and *reasonCode* is one of the following codes:

<table>
<thead>
<tr>
<th>Reason code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A restart error occurred.</td>
</tr>
<tr>
<td>2</td>
<td>XIPL=Y was not specified.</td>
</tr>
<tr>
<td>Reason code</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------</td>
</tr>
<tr>
<td>3</td>
<td>A shutdown error occurred and the remote NGT Subsystem component is shut down.</td>
</tr>
<tr>
<td>4</td>
<td>DB2 is started, but NGT Subsystem is shut down.</td>
</tr>
<tr>
<td>5</td>
<td>DB2 was shut down after a successful shutdown of the remote NGT Subsystem component. This error can occur if DB2 is mistakenly restarted after successful shutdown of the NGT Subsystem component.</td>
</tr>
<tr>
<td>6</td>
<td>A restart error occurred, or the remote NGT Subsystem component does not have XIPL=YES specified.</td>
</tr>
<tr>
<td>7</td>
<td>A restart occurred more than once. The latest restart was performed without XIPL=Y or encountered a restart error.</td>
</tr>
<tr>
<td>8</td>
<td>This code is not used.</td>
</tr>
<tr>
<td>9</td>
<td>DB2 was started before the remote NGT Subsystem component started.</td>
</tr>
</tbody>
</table>

You can specify this parameter with as few one character, beginning with the first character (for example, X).

### Multiple versions of NGT Subsystem

The following considerations apply to working with multiple versions of NGT Subsystem:

- BMC recommends that all of your NGT Subsystem components have the same version number. If you must use different versions, you can isolate a newer version of NGT Subsystem from older versions by specifying a different sysplex group name in the NGT Subsystem GROUP initialization parameter. (The default NGT Subsystem sysplex group name is ZCDBSS.)

- Each LPAR can have only one active NGT Subsystem process. A DB2 data sharing group must have an NGT Subsystem, using the same sysplex group name, on each LPAR.

- The LPARs of a data sharing group can have NGT Subsystem components at different versions.

### Starting NGT Subsystem

Use the following procedure to start NGT Subsystem.
Issue the following operator command:

$ CDBSS

When NGT Subsystem is fully initialized, it issues message NGTC199 to the console.

Tip

BMC recommends that you place this start command in member COMMNDXX of SYS1.PARMLIB so that NGT Subsystem automatically starts during the IPL process.

If there is data sharing, you must start the CBDSS on all LPARs where any member of the DB2 group might be started.

Shutting down NGT Subsystem

Use the following information if you need to shut down NGT Subsystem.

Before you begin

Ensure that the following conditions are in effect:

- The value of the XIPL initialization parameter is YES.
- No local connection is active for utilities on the current system.
  If a utility is connected when you attempt to shut down NGT Subsystem, NGT Subsystem issues message NGTC338. You can retry the shutdown command after all local connections have completed.
- For remote connections, the local DB2 member must be inactive at the time of the shutdown.
  If a DB2 member is active when you attempt to shut down NGT Subsystem, NGT Subsystem issues message NGTC333 for each remote connection. You can retry the shutdown command after all DB2 members on the current system are shut down.
- Sufficient data space storage exists on the utility’s NGT Subsystem to support transferring the remote session data.
  If insufficient memory exists on the target system, NGT Subsystem issues NGTC337. You can retry the shutdown command when sufficient memory is available on the target system.
To shut down NGT Subsystem

1 To shut down NGT Subsystem, issue the following operator command:

```
F CDBSS,SHUTDOWN
```

**Note**

Never issue the MVS FORCE command.

NGT Subsystem completes an orderly shutdown. Any remote session data is transferred to the utility's NGT Subsystem data space memory.

Deactivating NGT Subsystem

You can deactivate NGT Subsystem without shutting it down. This process has the same effect as issuing the MVS STOP command.

To deactivate NGT Subsystem

1 Issue the following command:

```
F CDBSS,INACT
```

After all activity is drained, NGT Subsystem issues a message to confirm deactivation.

Reactivating NGT Subsystem

Following deactivation of NGT Subsystem, you can reactivate by using the following procedure.

To reactivate NGT Subsystem

1 Issue the following command:

```
F CDBSS,ACT
```

Data sharing considerations for NGT Subsystem

The following considerations apply when you use NGT Subsystem in a data sharing environment:
NGT Subsystem must be started on all IBM z/OS systems that are participating in the DB2 data sharing group. If NGT Subsystem is not started on any member that has an active DB2 member, the NGT online utility will fail. In this case, start NGT Subsystem on that particular system and restart the NGT online utility.

For additional data sharing considerations, see “Multiple versions of NGT Subsystem” on page 17.

**Tracing NGT Subsystem activity**

With instructions from BMC Customer Support, you might need to trace certain NGT Subsystem events.

**To trace NGT Subsystem activity**

1. Issue the following command:

   ```
   F CDBSS,TRACE event state
   ```

   The following table describes each part of the command:

<table>
<thead>
<tr>
<th>Keyword or option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRACE</td>
<td>Command that initiates a trace activity</td>
</tr>
<tr>
<td></td>
<td>Alternatively, you can use T instead of TRACE.</td>
</tr>
</tbody>
</table>
### Keyword or option | Description
--- | ---
**event** | Type of event to trace
Specify one of the following values:

- **IO** traces the I/O start and end
- **CCW** traces the I/O start and end, and each generated CCW.
  
  **Note:** This option generates a large amount of data.
- **CI** traces all pages that the utility job fetches from the data space.
- **SEND** traces control data send activity to the IBM cross-system coupling facility (XCF) when in sysplex mode.
- **RECEIVE** traces control data receive activity from the XCF when in sysplex mode.
- **VECTORS** traces DB2 page data vectors sent to or received from the XCF. This setting requires activating the Send or Receive state.
- **ALL** traces all data that the other values trace.

**state** | Whether to activate or disable tracing
Specify one of the following values:

- **ON** activates tracing activity.
- **OFF** disables tracing activity.

The trace output is routed to the SYSPRINT DD allocated to NGT Subsystem.

## Display commands

The NGT utility products enable you to specify display commands that provide statistics and session data. This information is useful for diagnosing error conditions.

You can abbreviate each major keyword and each operand of a keyword. Examples for each of the following commands show the use of abbreviations. The command output is routed to the issuing console.
Note
For the DISPLAY command, you can abbreviate each major keyword and its operands, as illustrated in subsequent examples.

DISPLAY DSN

The DISPLAY DSN command displays the contents of the data set name table.

F CDBSS,DISPLAY DSN

The output contains one line for each VSAM data set that NGT Subsystem is monitoring for change activity. NGT Subsystem writes the output to messages NGTC174 and NGTC175.

This command displays a group number that you can use with the DISPLAY GROUP command.

Example
F CDBSS,D D

DISPLAY THREAD

The DISPLAY THREAD command displays the names of the jobs that are currently connected to NGT Subsystem.

F CDBSS,DISPLAY THREAD [jobName]

jobName is an optional operand that limits the display to jobs whose names begin with this value.

NGT Subsystem writes the output to messages NGTC164 and NGTC165.

Example
The following command displays a line for each job that is connected to NGT Subsystem:
F CDBSS, D T

DISPLAY GROUP

The DISPLAY GROUP command displays information about groups of objects.

F CDBSS, DISPLAY GROUP [groupId] [displayType] [dataSetName]
The following parameters are optional. If you do not specify a parameter, NGT Subsystem writes the output to messages NGTC166 and NGTC167.

### Parameter Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
</table>
| **groupID** | The number of the group to display. If the group does not exist, no output is displayed.  
A group consists of a set of objects that have a single consistency point. When a session is established for a new set of objects, the NGT Subsystem creates a group and assigns a sequential number (a group number or group ID) to it. You can obtain this number from the output of the DISPLAY DSN or DISPLAY THREAD commands. |
| **displayType** | The type of information to display.  
- **T** displays the threads for this group. The output resembles that of the DISPLAY THREAD command and is written to messages NGTC172 and NGTC173.  
- **E** displays the elements or data sets for this group. The display includes logical and physical characteristics of the data sets. NGT Subsystem writes the output to messages NGTC169, NGTC170 and NGTC171.  
To limit the display to a subset of data sets, specify the **dataSetName** parameter. |
| **dataSetName** | Limits the display to data sets whose name begins with this value.  
The data set or sets for which you want to display information  
Use this parameter to limit the display to a subset of data sets (only data sets whose names begin with this value). |

### Example

To display all groups:

```plaintext
F CDBSS,D G
```

To display only group 1:

```plaintext
F CDBSS,D G 1
```

To display all threads that are connected to group 1:

```plaintext
F CDBSS,D G 1 T
```

To display all data sets that are managed by group 1:

```plaintext
F CDBSS,D G 1 E
```

To display all data sets that are managed by group 1 and have names that begin with my.dataset:

```plaintext
F CDBSS,D G 1 E my.dataset
```
DISPLAY STORAGE

The DISPLAY STORAGE command displays information about storage usage and limit specifications for the current NGT Subsystem session.

```
CDBSS,DISPLAY STORAGE
```

NGT Subsystem writes the output to messages NGTC163 and NGTC253.

**Example**

```
CDBSS,D S
```

Alter commands

The NGT utility products enable you to specify alter commands to change certain system parameters.

You can abbreviate each keyword. Examples for each of the following commands show the use of abbreviations. To display the current values of these parameters, use the DISPLAY STORAGE command.

**Note**

For the ALTER command, you can abbreviate each keyword, as illustrated in subsequent examples.

ALTER UTL

The ALTER UTL command changes the value of the NGT Subsystem UTLMEM parameter:

```
CDBSS,ALTER UTL number
```

For more information about this parameter, see “Initialization parameters” on page 14.

**Example**

To set UTL to 1 megabyte, use the following command:

```
CDBSS,A U 1
```
ALTER SQALIMIT

The ALTER SQALIMIT command changes the value of the NGT Subsystem SQALIMIT parameter:

```
CDBSS,ALTER SQALIMIT number
```

For more information about this parameter, see “Initialization parameters” on page 14.

**Example**

To set SQALIMIT to 4 megabytes:
```
CDBSS,ALTER SQALIMIT 4096
```

ALTER LOGLIMIT

The ALTER LOGLIMIT command changes the value of the NGT Subsystem LOGLIMIT parameter:

```
CDBSS,ALTER LOGLIMIT number
```

For more information about this parameter, see “Initialization parameters” on page 14.

**Example**

To set LOGLIMIT to 20,000 lines:
```
CDBSS,ALTER LOGLIMIT 20
```

Error diagnosis

When an abend occurs either in a system exit or when a session is being established, NGT Subsystem generates an SVC dump. The dump title takes the following form:

```
CDBS ABEND abend AT module+offset,PSW=psw,IL=lenCode,IC=intCode,TX=address
```

The following table describes the variables in the dump title:

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>abend</td>
<td>Abend code</td>
</tr>
<tr>
<td>module</td>
<td>Name of the abending module</td>
</tr>
<tr>
<td>Variable</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>offset</td>
<td>Offset into the abending module</td>
</tr>
<tr>
<td>psw</td>
<td>Program status word</td>
</tr>
<tr>
<td>lenCode</td>
<td>Instruction length code</td>
</tr>
<tr>
<td>intCode</td>
<td>Interruption code</td>
</tr>
<tr>
<td>address</td>
<td>Translation address, if applicable</td>
</tr>
</tbody>
</table>
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