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The Terminal Pool ID Manager

The on-host terminal pool ID management component provides terminal IDs for 3270 CICS transactions and an administrative console for pool and terminal maintenance. The new ID manager is CICS transaction IDMG. The application program is called XTR1A007 and BMS mapset XTR1M40.

Notes on Using the Terminal Pool ID Manager

- The BMS “Mapset name.Mapname” for each 3270 screen is located on the upper left corner of the screen.
- The use of the wildcard (*) is supported.
- Press PF3 or CLEAR to exit the application. PF3 exits the application and puts “End of transaction” at the top of a clear screen. The CLEAR key exits the application and leaves one at a completely blank screen.
- Press PF12 to return to the previous ID Manager screen.
- All other actions are listed on the bottom of the screen.
- Terminals are displayed in the order in which they are added.

To open the Terminal Pool ID Manager

1. After connecting to a terminal session, type IDMG and press Enter. The main menu displays.
2. From the main menu you can navigate to various screens where you can: administer terminal pools, including adding and deleting pools, monitoring pool and terminal status, and maintaining both pools and the terminal IDs associated with them.
3. Refresh the active runtime configuration.
4. Enable and disable terminal runtime activity.
How to Add Pools

1. Select option 1, Terminal Pool Administration to open either the Browse Pool screen or the Terminal Detail Screen, depending on whether there are multiple pools already configured. If there are zero or multiple pools, the XTR1M40.XTR1M4E, Browse Pool screen displays. If there is only a single pool configured you will see the detail screen for that particular pool.
2. Press PF5 to add a new terminal pool.
3. Type in a pool name and press PF5. The terminal maintenance screen XTR1M40.XTR1M4D displays. You can now add terminals to the newly defined pool.
4. Type in a new terminal ID and press PF5 to associate it with the new pool. On this same screen you can add additional terminals to the newly created pool by continuing to type in the terminal ID and pressing PF5. When you are finished adding pools, press PF12 to return to the Pool Status Display Screen, XTR1M40.XTR1M4A.
How to Delete Pools

Enter D by the pool you want to delete and press Enter. You navigate to a screen where you are asked to confirm the delete request. Deletions do not affect currently running VBI sessions as long as you do not opt to Replace Active Runtime configuration.

Deleting terminals
When you use ID Manager to delete a terminal, you are deleting the terminal from the configuration file and not from the runtime image of that configuration. The deletion does not take effect or show up in the runtime pool information for that configuration until you either:

- Reload the configuration file by selecting Replace Runtime Configuration from the ID Manager main menu
- or-
- Bring down the CICS region and then bring it back up

You can use the ID Manager to delete a terminal whenever you want to, but since the VBI server is not affected, there is no impact on the runtime services until the configuration file gets deployed or refreshed.

How to Add Terminal IDs to a Pool

1. From the detail screen XTR1M40.XTR1M4A, press PF5 for terminal maintenance;
2. From the Terminal Maintenance (XTR1M40.XTR1M4D) screen, enter the terminal information for the pool.
3. Type in a new terminal ID and press PF5 to associate it with the pool.
4. On this screen you can add one or more terminals to the pool by continuing to type in the terminal ID and pressing PF5. When you are finished, press PF12 to return to the Terminal Pool
Detail screen (XTR1M40.XTR1M4A). Terminals are displayed in the order in which they are added.

Terminal maintenance screen

How to Filter and Browse Pool Lists

From the Pool Status screen (XTR1M40.XTR1M4A), press PF6 to browse pools:
Filtering
You can use search filters to locate pools and format pool lists for easy visibility. You can use a wildcard (*) with a partial name to narrow your search. For example, test* <enter> will locate all pools that start with “test”. To produce a list of all pools, use the wildcard (*) alone.

Formatting pool columns
You can display the list of pools in various column formats. From the Pool Browse Screen (XTR1M40.XTR1M4E), press PF10 to switch between a single, double, or 4-column format.

Shortcuts
Without logging into the ID Manager, you can access directly common commands. For example type:

- **IDMG,POOL=TEST** to navigate directly to the list of pools starting with the letters TEST. If there is exactly one match, then the XTR1M40.XTR1M4A map that shows the details of the terminals belonging to that pool displays. Otherwise, if there are zero or multiple pools that match the string, then the XTR1M40.XTR1M4E pool browse screen is displayed
- **IDMG,POOL=*,WIDTH=4** to display the pool list, containing all pools, in a 4-column format. This option sets the number of columns that the list of pools will use. In this case 4 shorter columns are shown instead of the default one column that is the full screen width (77 characters).
- **IDMG,POOL=*,SCREEN=26** to set the number of pools to display. In this case 26 pools will display. If you had 50 pools configured, you would see 26 and then page forward to see the remaining pools.

4-column pool format
Selection commands

Use the following commands in the selection fields on the pool browsing screens (XTR1M4A and XTR1M4E, XTR1M4F and XTR1M4G):

- X (eXecute)
- V (View)
- / (Selection character)
- S (Select)

These commands all display the element you have chosen. To delete an element use:

- D (Delete)

Replacing the Active Runtime Configuration

All terminal pool configurations are stored in a VSAM KSDS file; however a runtime image is cached in CICS Temporary storage to improve performance.

When changes are made to the runtime terminal pool configuration they are stored in the VSAM file and are not loaded to a running server.

Under normal circumstances there is no need to manually update the cached image. The VBI server builds a fresh cache image from which it runs the first time VBI is started after CICS is initiated.

To update the cached image you can either:

- Bring the CICS region down and back up. When this occurs the terminal configuration is copied from the VSAM configuration file into the temporary storage “runtime cache”.

- or -

- From the main menu, select option 2, Replace Active Runtime Configuration. This procedure takes less than a second to complete. When this option is selected:
  o The system momentarily freezes
  o Information about the current connections that are active in the runtime cache are copied to a safe holding area
  o The complete existing runtime cache is deleted
  o The new configuration is copied out from the VSAM configuration file into a new temporary storage runtime cache
  o The current connections that are active information is copied from the safe holding area created in step 2 and, if the terminal ID is still in the VSAM configuration, copied to the runtime cache element for that given active terminal ID
  o The system is released and operations resume.

To manually refresh the runtime cache

1. Start the Terminal Pool Manager application IDMG<enter>.
2. Enter the number ‘2’ and press<enter>. A message indicating that the Terminal Pool Configuration is cached for runtime displays.
3. Press PF3 or clear to exit the Terminal Pool Administration transaction.

To view runtime information

When a connection request comes in for a given terminal in the pool the Terminal Pool management subsystem allocates a terminal from within the pool to satisfy the request. In this example, since the first terminal available at the time of the ConnectBridge request, is M01B, it is checked-out and allocated to the requesting client. Allocated terminals are designated by changing their color to blue. Out of service terminals are designated by their red color.

To view the status of M01B, place the cursor into the selection field that precedes M01B and type an S to indicate your selection.
Terminal M01B is selected

Press Enter to view information related to the session of the newly connected terminal.

In this instance the connection request overrode the NETNAME parameter in the connectBridge API and specified that it wanted to use the netid “NETWK1” instead of the name configured by ID Manager for this terminal.

In this example the connection has occurred, but no transaction is currently running and the Bridge Facility is currently set to 0000000000000000.
Once a transaction begins, the Bridge allocates the terminal and gives the internal facility token of ‘000E000100000001’. It was allocated by client address 150.215.91.28 and currently displays the BMS MAP CHARMAP within the MAPSET XTR1M30. The last AID key sent was an ENTER key.

Allocated terminal

To exit this screen, press PF12 to return to the previous screen or PF3 or Clear to exit the terminal pool manager.

List of screens with description

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<th>Description</th>
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<td>Terminal Pool ID Manager Main Menu</td>
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<tr>
<td>XTR1M40.XTR1M4A</td>
<td>Terminal Detail Screen / Pool Status Display</td>
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<tr>
<td>XTR1M40.XTR1M4E</td>
<td>Pool Browse Screen</td>
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<tr>
<td>XTR1M40.XTR1MF</td>
<td>Pool Browse Screen - 2 columns</td>
</tr>
<tr>
<td>XTR1M40.XTR1MG</td>
<td>Pool Browse Screen - 4 columns</td>
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</tbody>
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