

Tivoli OMEGAMON XE on z/OS 4.2.0

Creating a user profile



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This training module provides instructions about how to create a user profile for OMEGAMON® XE on z/OS®. By the end of this module, you should be familiar with creating and customizing user profiles for OMEGAMON XE on z/OS.

Profile types

A profile is a set of controls and thresholds that are used to monitor the MVS system

- Profile type **/C** is the default that is used during installation verification
- Profile type **/I** is created when an installation profile is saved with thresholds and customized options
- Specialized user profiles can be created for specific purposes such as groups of users

OMEGAMON uses controls and thresholds to monitor the MVS system. These controls and thresholds for a user or group of users constitute a profile. Two profile types, **/C** and **/I** profiles, are created when OMEGAMON is installed. A **/C** profile is a default profile that cannot be modified. The **/C** profile is used during OMEGAMON installation verification and is the default profile if no others exist. A **/I** profile is created when the default **/C** profile is saved to provide a better default profile for the site. Specialized user profiles are used for a single user or group of users. You can create as many profiles of this type as needed. Assign each profile a unique two-character identifier when it is saved, and specify the required profile ID at logon. Operations staff can use these specialized profiles for specific purposes, such as different shift workloads. For example, a prime shift operator can monitor critical online applications, while a second shift operator focuses on a batch payroll job.

Current profile

The top line of the OMEGAMON menu shows the profile that is in effect

```

_____ ZMENU   VTM   OM/DEX   V550./I SYS  06/17/10
16:22:27
> Help/News PF1   Exit PF3   Keys PF5   Colors PF18   Cmd mode PF24
>
>           Enter a selection letter on the top line.
=====
>
>           OMEGAMON MAIN MENU

- E EXCEPTIONS ..... Current system problems

- J JOB ANALYSIS ..... TSO, BATCH, STC information
- R RESPONSE TIME ..... TSO network and host response times
- U USER ..... Analyze a single user or task
- B BOTTLENECKS ..... Pinpoint bottlenecks in TSO, BATCH, STC

- I I/O ..... DASD, tape, channel, and LCU information
- S STORAGE ..... Real and virtual storage use
- O COMMON STORAGE .... Monitor and analyze common storage usage
- C CPU ..... LPAR, processor and workload utilization
- M MVS ..... System information, SRM control information
- A ACTION ..... Operator tools, action commands

- P PROFILE ..... Profile Facility and session options
>   ***   USE PF18 TO CONTROL DISPLAY COLORS   ***

```

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This is the OMEGAMON main menu. The top line of the OMEGAMON main menu specifies which profile is in effect. In this case, OMEGAMON is using the profile **/I**.

Creating a profile

From the main menu, select **P PROFILE**

```

_____ ZMENU   VTM   OM/DEX   V550./I SYS   06/17/10
16:22:27
> Help/News PF1   Exit PF3   Keys PF5   Colors PF18   Cmd mode PF24
>
>                               Enter a selection letter on the top line.
=====
>                               OMEGAMON MAIN MENU

- E EXCEPTIONS ..... Current system problems

- J JOB ANALYSIS ..... TSO, BATCH, STC information
- R RESPONSE TIME ..... TSO network and host response times
- U USER ..... Analyze a single user or task
- B BOTTLENECKS ..... Pinpoint bottlenecks in TSO, BATCH, STC

- I I/O ..... DASD, tape, channel, and LCU information
- S STORAGE ..... Real and virtual storage use
- O COMMON STORAGE .... Monitor and analyze common storage usage
- C CPU ..... LPAR, processor and workload utilization
- M MVS ..... System information, SRM control information
- A ACTION ..... Operator tools, action commands

- P PROFILE ..... Profile Facility and session options
> *** USE PF18 TO CONTROL DISPLAY COLORS ***

```

Select **P PROFILE** to create different profiles for users.

Creating a profile

From the Profile menu select **A EXCEPTIONS**

```
_____ ZOPT      VTM      OM/DEX  V550.01 SYS  06/17/10
18:07:25
Help PF1                      Back PF3                      Save
Profile PF22
      Type a selection letter on the top line and press ENTER.
=====

                PROFILE MAINTENANCE AND SESSION CONTROLS

      Profile Maintenance
A EXCEPTIONS ..... Set exception analysis thresholds
B CONFIGURE ..... Set default startup configuration
C MISSING TASKS .... Missing task analysis
D GROUPS ..... Set address space threshold groups
E EXC CONTROLS .... Other controls for exception analysis
F NAMES ..... Domain, performance group, enqueue exclude names
G SAVE/DELETE ..... Create, delete, save profiles

      Quick-Set Controls
H COLOR ..... 7 color, 4 color, monochrome, set colors
I BACKGROUND ..... Set background (XLF) processing (DEXAN users
only)
```

From the Profile Maintenance and Session Controls menu, select **A EXCEPTIONS**.

Creating a profile

From the Exceptions menu select H JOB

```
_____ ZOPTT   VTM   OM/DEX   V550.01 SYS   06/17/10
18:08:25

  Help PF1                      Back PF3                      Save
Profile PF22

      Type a selection letter on the top line and press ENTER.
=====
=====
                          SET EXCEPTION ANALYSIS THRESHOLDS

A  HARDWARE ..... Missing CPU, channels, memory
B  DASD/TAPE..... Devices not ready, dropped ready, not responding
C  PAGING ..... Paging and auxiliary storage exceptions
D  STORAGE ..... Real storage exceptions
E  COMMON ..... Common storage exceptions
F  SRM ..... SRM exceptions (MPL adjustment, resource utilization)
G  SYSTEM ..... System exceptions (GTF, OLTP, SMF, RMF, DDR, SLOG)
H  JOB ..... Address space exceptions
I  WPF ..... Workload profile exceptions (EPILOG/MVS required)

Settings you change through this menu become permanent when you save
your profile. To do this, press PF22 from any screen.
```

From the Set Exception Analysis Thresholds menu, select **H JOB** to display the Address Space Related Exceptions screen.

Addressing exceptions

On the Address Space Related Exceptions screen, remove the comment character (>),
overtyp e cccc with XMTA, and remove TERSE

```

18:09:30      ZOPTTG  VTM      OM/DEX  V550.01 SYS  06/17/10
Help PF1      Back PF3      Up PF7      Down PF8      Save Profile
PF22
=====
=====
                                ADDRESS SPACE RELATED EXCEPTIONS

To display the current threshold for an exception listed below, remove
the comment character (>) that precedes XACB and replace cccc following
LIST with the exception name.  Press ENTER.

To change any setting for an exception, type over the current setting
with the new one and press ENTER.

For information about additional exception parameters, press PF1.

XACB LIST=cccc TERSE

ABND  Job in abnormal termination.      NVSC  Excessive non-VIO slots in
use
ELAP  Excessive elapsed time.           PSCU  Percentage of step CPU
used
SWPC  Excessive swap counts.            WSHI  Working set size > nK.
WAIT  Excessive time in wait state      WSLO  Working set size < nK.

```

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Remove the comment character (>) from the first column and overtype **cccc** with **XMTA**.
Remove the keyword **TERSE**.

Addressing exceptions

The new command is **XACB LIST = XMTA**

```

_____ ZOPTTG  VTM    OM/DEX  V550.01 SYS  06/17/10
18:11:45
> Help PF1      Back PF3      Up PF7      Down PF8      Save Profile
PF22
=====
>
                                ADDRESS SPACE RELATED EXCEPTIONS

XACB LIST=XMTA
: XMTA
+   DISPLAY Parameters:  THRESHOLD Parameters:  XLF Parameters:
:   State=ON            Threshold=N/A          Auto=OFF
:   Group=OP            Display=CLR2          Log=OFF
:   Bell=OFF            Attribute=NONE        Limit=0 (0)
:   BOX Parameters:     CYCLE Parameters:     Repeat=NO
:   Boxchar='+'         ExNcyc=0              Persist=0
:   Boxclr=CLR2         Stop=0 (0)            SS=
:   Boxattr=NONE        Cumulative=0

```

The new command is **XACB LIST = XMTA**.

Changing the BOX and THRESHOLD parameters

Change the BOX and THRESHOLD parameters

```

_____ ZOPTTG  VTM    OM/DEX  V550.01 SYS  06/17/10
18:11:45
> Help PF1      Back PF3      Up PF7      Down PF8      Save Profile
PF22
=====
>
                                ADDRESS SPACE RELATED EXCEPTIONS

XACB LIST=XMTA
: XMTA
+   DISPLAY Parameters:  THRESHOLD Parameters:  XLF Parameters:
:   State=ON            Threshold=N/A          Auto=OFF
:   Group=OP            Display=CLR3           Log=OFF
:   Bell=OFF            Attribute=REVERSE     Limit=0 (0)
:   BOX Parameters:     CYCLE Parameters:     Repeat=NO
:   Boxchar='*'         ExNcyc=0              Persist=0
:   Boxclr=CLR3         Stop=0 (0)            SS=
:   Boxattr=BLINK       Cumulative=0

```

In this example, you are changing the **BOX** and **THRESHOLD** parameters.

Change the **BOX** character from a plus sign (+) to an asterisk (*).

Change the box color intensity from **CLR2** to **CLR3**.

Make the box attribute stand out by changing the option from **NONE** to **BLINK**.

For the **THRESHOLD** parameters, change the color intensity from **Display=CLR2** to **Display=CLR3**.

Make **Attribute** stand out by changing **NONE** to **REVERSE** video.

Task tables

```

_____ ZOPT      VTM      OM/DEX  V550.01 SYS  06/17/10
18:07:25
Help PF1                      Back PF3                      Save
Profile PF22
      Type a selection letter on the top line and press ENTER.
=====

                PROFILE MAINTENANCE AND SESSION CONTROLS

      Profile Maintenance
A EXCEPTIONS ..... Set exception analysis thresholds
B CONFIGURE ..... Set default startup configuration
C MISSING TASKS ... Missing task analysis
D GROUPS ..... Set address space threshold groups
E EXC CONTROLS .... Other controls for exception analysis
F NAMES ..... Domain, performance group, enqueue exclude names
G SAVE/DELETE ..... Create, delete, save profiles

      Quick-Set Controls
H COLOR ..... 7 color, 4 color, monochrome, set colors
I BACKGROUND ..... Set background (XLF) processing (DEXAN users
only)
J AUTO ON ..... Turn automatic updating on (VTAM mode only)
K AUTO OFF..... Turn automatic updating off (VTAM mode only)
L LOGGING ..... Log on, log off, spin out log

      Settings you change through this menu become permanent when you save
      your profile. To do this, press PF22 from any screen.

```

Press PF3, the back key, until you come to the **PROFILE MAINTENANCE AND SESSION CONTROLS** screen. Choose **C MISSING TASKS**. Select **A** to show the current table.

Change missing task table

Type over the current task name and press Enter

_____ ZOPTT VTM OM/DEX V550./I SYS 06/17/10
18:16:09

Help PF1
Profile PF2

Back PF3

Save

Type a selection letter on the top line and press ENTER.

=====

MTA

#	TASK NAME	STATE
1	TSO	Auto
2	RMF	Auto
3	JES2	Auto
4	JES3	Auto
5	IMS	Auto
6	CICS	Auto
7	NET	Auto
8	VTAM	Auto

THERE ARE 8 ENTRIES IN MISSING TASK TABLE.

This list shows all the tasks that are monitored by the missing task analysis exception. To change a task name, type over the current name with a new one and press Enter.

Add to missing task tables

Type over **NAME** and **STATE** with the new task name and state and press Enter

```

_____ ZOPTT   VTM   OM/DEX  V550./I SYS  06/17/10
18:16:09

  Help PF1                Back PF3                Save
Profile PF2
      Type a selection letter on the top line and press ENTER.
=====
=====
MTA
#      TASK NAME      STATE
1      TSO            Auto
2      RMF            Auto
3      JES2           Auto
4      JES3           Auto
5      IMS            Auto
6      CICS           Auto
7      NET            Auto
8      VTAM           Auto
THERE ARE 8 ENTRIES IN MISSING TASK TABLE.

```

To add a name to the list, space over the comment character (>) in front of **MTA** and type over **name,state** with the new task name and state (Auto or A, ON or OFF). Press Enter. You can add multiple tasks by enclosing each **name,state** in parentheses, separated by a comma or space.

Add to missing task tables

Enter the job name and turn on the exception, **MTA add (ATM,ON)**

```
_____ ZMENU   VTM   OM/DEX   V550.01 SYS  06/17/10
18:17:12
Help/News PF1   Exit PF3   Keys PF5   Colors PF18   Cmd mode PF24

Enter a selection letter on the top line.
=====
=====

MTA
#      TASK NAME      STATE
1      TSO             Auto
2      RMF             Auto
3      JES2            Auto
4      JES3            Auto
5      IMS             Auto
6      CICS            Auto
7      NET             Auto
8      VTAM            Auto
9      ATM             On
THERE ARE 9 ENTRIES IN MISSING TASK TABLE.
```

Overtyping the comment character (>), replace the **name** with the job name, and turn on the exception, **MTA add (ATM,ON)**

Saving the profile

```
_____ ZOPT      VTM      OM/DEX  V550.01 SYS  06/17/10
18:07:25
Help PF1                      Back PF3                      Save
Profile PF22
      Type a selection letter on the top line and press ENTER.
=====

                PROFILE MAINTENANCE AND SESSION CONTROLS

      Profile Maintenance
A EXCEPTIONS ..... Set exception analysis thresholds
B CONFIGURE ..... Set default startup configuration
C MISSING TASKS ... Missing task analysis
D GROUPS ..... Set address space threshold groups
E EXC CONTROLS .... Other controls for exception analysis
F NAMES ..... Domain, performance group, enqueue exclude names
G SAVE/DELETE ..... Create, delete, save profiles

      Quick-Set Controls
H COLOR ..... 7 color, 4 color, monochrome, set colors
I BACKGROUND ..... Set background (XLF) processing (DEXAN users
only)
J AUTO ON ..... Turn automatic updating on (VTAM mode only)
K AUTO OFF..... Turn automatic updating off (VTAM mode only)
L LOGGING ..... Log on, log off, spin out log

      Settings you change through this menu become permanent when you save
      your profile. To do this, press PF22 from any screen.
```

Save these changes to a new profile. From the Profile Maintenance and Session Controls menu, select **G, SAVE/DELETE**.

Saving the profile

```
_____ ZOPTU   VTM   OM/DEX   V550.R2 SYS  08/04/10
12:40:31

> HELP PF1                BACK PF3                SAVE
PROFILE PF22
>      TYPE A SELECTION LETTER ON THE TOP LINE AND PRESS ENTER.
=====
=====
>      PROFILE MAINTENANCE, SAVE, AND DELETE

- A LIST ..... LIST CURRENT PROFILES
- B ADD DESCRIPTION ..... ADD A DESCRIPTION TO THE CURRENT PROFILE

>      FOR OMEGAMON USERS
- C SAVE ..... SAVE YOUR PROFILE
- D DELETE ..... DELETE YOUR PROFILE

>      FOR SITE INSTALLERS
- E SAVE ..... SAVE INSTALLATION PROFILE
- F DELETE ..... DELETE INSTALLATION PROFILE

> SETTINGS YOU CHANGE THROUGH THIS MENU BECOME PERMANENT WHEN YOU SAVE
> YOUR PROFILE.  TO DO THIS, PRESS PF22 FROM ANY SCREEN.

=====
=====
```

Select **C SAVE, SAVE YOUR PROFILE.**

Saving the profile

Remove the comment character (>) in front of **PPRF SAVE** and type the two-character suffix of the profile

```
_____ ZSAVE   VTM   OM/DEX   V550.01 SYS  06/17/10
18:18:49
Back PF3
=====
=====
                          SAVE YOUR PROFILE

Individual User Profiles

To save your user profile, remove the comment character (>) in front of
PPRF SAVE and type a space after PPRF SAVE followed by the profile's
2-character suffix. Press ENTER.

If you do not provide a profile suffix, OMEGAMON saves the current
profile.

PPRF SAVE 01
  You have requested OMUSER01 be SAVED on the User Profile
  Enter Y to confirm save request
  Response=
```

To save a user profile, remove the comment character (>) in front of **PPRF SAVE**. Type a space followed by the profile's two-character suffix, for this example, **01**. Press Enter. Confirm the request to save by typing **y** after **Response=**.

Saving the profile

The ATM job is automatically registered in the 01 profile

```

_____ ZOPS   VTM   OM/DEX   V550 01 SYS  06/17/10
18:21:59
> Help PF1      Back PF3      Up PF7      Down PF8      Zoom
PF11
=====
>
                                OPERATION STATUS
=====
SCPU10  __CPU Utilization__
0__10__20__30__40__50__60__70__80__90__100
+   Total      12.00 |---10>  .   .   .   .   .   .
.   |
=====
BATX  TLARO210 IMS9AFP3 IMS9AMS1 IMS9AFP1 IMS9AFP2 IMS8AMS1 IMS8AFP3
IMS8AFP1+
step  STEP210 IMS9AFP3 IMS9AMS1 IMS9AFP1 IMS9AFP2 IMS8AMS1 IMS8AFP3
IMS8AFP1
elap  1:45 HR  6:37 HR  6:37 HR  6:37 HR  6:37 HR  2:09 DY  2:09 DY
2:09 DY

LXGRPOP  OMEGAMON/MVS Group Exception Analysis
+ XMTA
+-----+
*   warning: Job 'ATM' is not active in the System
+-----+

```

As a result of the changes saved to profile **01**, ATM is displayed in the list of missing jobs in the Operation Status.

Saving the profile

The PAYROLL job is registered in the 02 profile

```

_____ ZOPS   VTM   OM/DEX  V550 02 SYS  06/17/10
18:21:59
> Help PF1      Back PF3      Up PF7      Down PF8      Zoom
PF11
=====
>
                                OPERATION STATUS
SCPU10 __CPU Utilization__
0__10__20__30__40__50__60__70__80__90__100
+   Total      12.00 |---10> . . . . .
.   |
=====
BATX  TLAR0210 IMS9AFP3 IMS9AMS1 IMS9AFP1 IMS9AFP2 IMS8AMS1 IMS8AFP3
IMS8AFP1+
step  STEP210 IMS9AFP3 IMS9AMS1 IMS9AFP1 IMS9AFP2 IMS8AMS1 IMS8AFP3
IMS8AFP1
elap  1:45 HR  6:37 HR  6:37 HR  6:37 HR  6:37 HR  2:09 DY  2:09 DY
2:09 DY

LXGRPOP  OMEGAMON/MVS Group Exception Analysis
+ XMTA
* Warning: Job 'PAYROLL' is not active in the System

```

Using the same technique, you can create profile **02** for the night shift, replacing job **ATM** with job **PAYROLL**.

Logging on with VTAM

For VTAM®, on the welcome screen enter this line:

```
LOGON APPLID (OMEG01) DATA(USER=01)
```

The format to log on directly using the VTAM10 welcome screen varies, depending on other VTAM settings. You can enter **LOGON APPLID (OMEG01), DATA(USER=01)** or **LOGON APPLID=OMEGARC, DATA=(USER=01)**. See your VTAM systems programmer for ways to customize your OMEGAMON logon.

Summary

- In this module you learned how to create and customize user profiles for OMEGAMON XE on z/OS
- For more information on customizing OMEGAMON user profiles, see the IBM Tivoli® OMEGAMON XE on z/OS User's Guide version 4.2.0 SC27-2353-00

In this module you learned about the different types of profiles and how to create and customize a user profile for OMEGAMON XE on z/OS. For more information about customizing OMEGAMON user profiles, see the IBM Tivoli OMEGAMON XE on z/OS User's Guide version 4.2.0.

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