9 software

Adabas Transaction Manager

Adabas Transaction Manager Configuration

Version 7.5.1

September 2009

Adabas Transaction Manager

This document applies to Adabas Transaction Manager Version 7.5.1 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Adabas Transaction Manager Configuration

This document provides information on configuring Adabas Transaction Manager.

The following topics are provided:

- Adabas Transaction Manager Daemons and Adabas System Coordinator Groups
- Using Adabas Transaction Manager with Adabas Cluster Services
- Using Adabas Transaction Manager with Adabas Parallel Services
- Configuration Examples
- **Note:** For information on the specific job and runtime parameters which are used to configure and control Adabas Transaction Manager, see the section Parameters.

2 Adabas Transaction Manager Daemons and Adabas System Coordinator Groups

An ATM daemon executes alongside an Adabas System Coordinator (SYSCO) daemon, under the same Adabas SVC or ID table. It is therefore implicitly associated with the same Adabas System Coordinator (COR) group as the SYSCO daemon. It makes use of services provided by the local SYSCO daemon.

A System Coordinator group is a collection of System Coordinator daemons that communicate and inter-operate with each other across coupling facility or Entire Net-Work connections. Currently, on IBM systems, every daemon in a group must execute under the same Adabas SVC. This means that the daemons execute on different logical partitions (LPARs). An ATM daemon can execute in each of the LPARs, under the same SVC as the COR daemon.

If there is only one SYSCO daemon in the COR group, there can only be one ATM daemon. This ATM daemon will provide full support for global transactions that change DTP=RM databases executing under the same Adabas SVC or ID table. If a transaction changes any remote databases – that is, databases that execute in a different network node – these databases will be treated as if they were running with DTP=N0.

If you need to execute transactions that change DTP=RM databases across several network nodes, you will need to define a COR group that encompasses all of these network nodes, and run a SYSCO daemon and an ATM daemon in each node. The COR group effectively defines a network of ATM daemons that will cooperate in coordinating transactions that change DTP=RM databases across the corresponding network nodes. If a transaction changes any DTP=RM databases that execute in a network node that is not included in the COR group, these databases will be treated as if they were running with DTP=N0.

If appropriate, you could simply define one COR group that includes all network nodes. In this case, all the ATM daemons in the network will interact, and will provide full transaction coordination across all DTP=RM databases in the network.

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Using Adabas Transaction Manager with Adabas Cluster

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A clustered operating system is a collection of independent operating system images working together as one. The objective is to spread work around the cluster to achieve better load balancing, throughput, and availability.

Clustered applications appeared before their operating system counterpart. Application clusters operated over multiple processes within a single operating system image. Now clustered applications are enhanced to operate throughout an operating system cluster.

Adabas Cluster Services allows multiple instances of the Adabas server to operate against the same database across multiple operating system images, which enhances the general clustering approach for high-end systems.

Clustered Applications

A clustered application is a collection of independent jobs operating together as a single service.

Each implementation of a clustered application allows client sessions to migrate from one job to another across one or more images in an operating system cluster. The memory associated with a particular client session must be migrated along with the client session itself.

The following clustered applications may be implemented within a single operating system image:

- CICS/MRO with dynamic transaction routing in z/OS, OS/390 and VSE/ESA
- IMS/TM in z/OS and OS/390
- UTM in BS2000

The following clustered applications are available for operating system clusters:

- CICSplex in z/OS and OS/390
- IMSplex in z/Os and OS/390

Adabas Cluster Services

Adabas Cluster Services allows you to use multiple images of the Adabas server across an operating system cluster in order to provide truly scalable throughput. The cluster of Adabas servers can take part in distributed transaction processing, under the control of Adabas Transaction Manager. This is controlled by the ADARUN DTP parameter, in the same way as for a standard Adabas nucleus. The same value must be specified for the DTP parameter for every nucleus in the cluster.

Adabas System Coordinator

Support for clustered applications within a single system image or across multiple system images in an operating system cluster is enabled by the Adabas System Coordinator when running one or more of the following Adabas add-on products:

- Adabas Fastpath
- Adabas Vista
- Adabas Transaction Manager
- Adabas SAF Security

Adabas Fastpath also uses the Adabas System Coordinator to host the Asynchronous Buffer Manager service.

Job Parameters for Clustered Applications

When defining a job parameter for CICS/MRO with dynamic transaction routing or for CICSplex, select the job type CICS Cluster.

Clustered application job types have user context information allocated from shared memory rather than from local (job) memory.

Additional fields are available to support clustered applications:



Note: For non-clustered applications, leave these fields empty.

Field	Used to
System Coordinator Group Name	link the clustered application to the relevant Adabas System Coordinator group.
Clustered Application Service Name	group together all instances of the application to the Adabas System Coordinator.
Manage Terminal Sessions or Manage All Sessions	determine the type of sessions managed by the Adabas System Coordinator daemon.

Refer to the Adabas System Coordinator documentation for more information.

4 Using Adabas Transaction Manager with Adabas Parallel Services

Adabas Parallel Services allows you to use multiple images of the Adabas server within a single operating system image, in order to provide improved scalability. The cluster of Adabas servers can take part in distributed transaction processing, under the control of Adabas Transaction Manager. This is controlled by the ADARUN DTP parameter, in the same way as for a standard Adabas nucleus. The same value must be specified for the DTP parameter for every nucleus in the Parallel Services cluster.

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This section provides example configurations of Adabas Transaction Manager with the Adabas System Coordinator. It guides you through typical configurations using the SYSATM and SYSCOR administration tools. It is best to read through all the examples in turn because the configuration issues become increasingly complex with each successive example.

The Role of the Adabas System Coordinator

The Adabas System Coordinator is a prerequisite technology for Adabas Transaction Manager, Adabas Fastpath, Adabas Vista and Adabas SAF Security. Traditionally these products have focused their functionality and benefit on Adabas client sessions rather than explicitly on Adabas servers. The type of Adabas session that has been required in the past can be described as "static". Static Adabas client sessions are not able to move from one job to another within the system for load balancing purposes (this is called dynamic transaction routing). However, an increasing requirement is emerging for Adabas clients to be able to support dynamic transaction routing (DTR). One of the main purposes of the Adabas System Coordinator is to provide transparent DTR support for Adabas Transaction Manager, Adabas Fastpath, Adabas Vista and Adabas SAF Security.

These products always use Adabas System Coordinator services to support their clients. Traditional (static) clients only need to use the default (local) mode of Adabas System Coordinator services. In local mode, the Adabas System Coordinator software is embedded in the application job and provides local support for client sessions. However, DTR clients must use the Adabas System Coordinator daemon services to move client sessions around the system. In daemon mode, the local Adabas System Coordinator software works in conjunction with counterparts in the daemon to make sure the client sessions can be dynamically moved around the system. You must control these options by configuration.

Note: You may also configure static clients to use daemon services if you wish. This is achieved by using SYSCOR to set the "Managed by daemon" job parameter for the application job or TP system to "Y". This will make it possible to monitor users in these jobs and TP systems from SYSCOR or SYSATM running in any environment which has access to the System Coordinator daemon. Note that this option increases the use of shared memory in the system.

The Adabas System Coordinator daemon also provides services to ATM daemons. In particular, it provides ATM daemons with details of resource managers and other ATM daemons in the network. Also, in a clustered environment, the System Coordinator daemons in a group provide a central repository, or file store, in which the ATM daemons in the cluster can store records of incomplete transactions that have migrated within the cluster. This is totally separate from the clustered application services. The following examples are provided for running Adabas Transaction Manager with the Adabas System Coordinator.

Single System with Static Clients

Static client support from the Adabas System Coordinator in local mode. The Adabas System Coordinator daemon is only needed to provide services to the ATM daemon.

Multi System with Static Clients

Static client support from the Adabas System Coordinator in local mode. The Adabas System Coordinator daemon is only needed to provide services to the ATM daemon in each system image.

Single System with Dynamic Transaction Routing Clients

DTR client support from the Adabas System Coordinator in daemon mode. The Adabas System Coordinator daemon is also needed to provide services to the ATM daemon in each system image.

SYSPLEX with Dynamic Transaction Routing Clients

DTR client support from the Adabas System Coordinator in daemon mode using the IBM Coupling Facility to enable multi-systems client DTR. The Adabas System Coordinator daemon is also needed to provide services to the ATM daemon in each system image.

Single System with Static Clients

A single system is one in which only one operating system image is used, perhaps in isolation within a larger complex site. In this type of environment, you will need to do the following:

- Obtain a new Node ID from your administrator to use for the Adabas System Coordinator daemon. In this example, Node ID 9001 is used.
- Define the Adabas System Coordinator group. This example shows a group called TESTSING.
- Define the sole member of the Adabas System Coordinator group. In this example, the member is SYSCO1.
- Specify the Adabas System Coordinator group in which the ATM daemon will operate. This example uses the group SYSCO1.
- Define the job(s) for which Adabas Transaction Manager is to provide transaction coordination. This example uses job CICTSING.

You can perform the required configuration by taking the following steps:

1. In this SYSCOR example the Adabas System Coordinator group name is TESTSING, the SVC is 253, and the system type is Standard (Single-system image). It is not necessary to specify a cluster facility name in this case because this is only required for running in SYSPLEX mode.

```
16:22:19 Modify 2004-03-03

System Coordinator Group Member C11230M1

Group Name: TESTSING SVC ID: 253

System Type: X Standard (Single-system image)

(Mark one) __ Standard (Multi-system images)

__ Sysplex (IBM Parallel Sysplex)

Cluster Facility Name :

Automatic Pool Recovery: Y

Command ==>

PF1 Help PF3 Exit PF5 Upd
```

2. Now you must define the daemon member of the Adabas System Coordinator group in SYSCOR. There is usually one daemon running in each system image. Obviously in a single system there is only one member required. The name of the member must be the same as the job name to be run, otherwise the parameters will not be located at runtime. In addition to the name you must also specify the (database or) node number in the Software AG network to be used by the daemon member. This node number must not be currently used for any other purpose. In our example the member name will be SYSCO1. The Node ID allocated in this example is 9001. It is entered in the member definition, as shown below in the expanded group:

Note: The daemon job (SYSCO1) must specify DDCARD input for PRODUCT=CAS. This defines the services that will operate in the daemon job.

```
16:29:29 ***** A D A B A S SYSTEM COORDINATOR 7.4.2 (IOO4) ***** 2004-03-03
              - System Coordinator Group Members -
                                                             C11260M1
                                                         Session: Local
Runmode: Local
Group Name: TESTSING
                               Cluster Facility Name:
   SVC ID: 253
                                Operating System : Single
                 Member
                Job Name
     Purge(P)
                               Node ID
                                 9010 <== End of List
                 SYSC010
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
                Exit Refr Upd
                                                        Add
     Help
                                                                   Menu
```

- 3. Next, use SYSCOR to set the System Coordinator job parameters for the application jobs and TP systems that are to use Adabas Transaction Manager in your system. Refer to the *Adabas System Coordinator* documentation for details. In this case you can set the parameter "Managed by daemon" to "N".
- 4. Now you must use SYSATM to define job parameters for all the client applications that are to use Adabas Transaction Manager in your system in this example, a standard CICS job with started task name CICTSING. At runtime, this CICS system produces static Adabas clients managed by the local Adabas System Coordinator (without help from the daemon). Default parameter settings are often sufficient (and can be modified later if necessary), but there are certain parameters that need to be entered to ensure that Adabas Transaction Manager will be active for the named job. Where ATM's transaction management is to be activated for a job for the first time, you are asked to add a new set of job parameters in SYSATM. Here you must first identify the job name and the type. The job type allows Adabas Transaction Manager to assume suitable defaults for most parameters and be ready to use the correct operating system or TP system interfaces at runtime. In our example, the job name is CICTSING and the type is CICS (not CICS Cluster), as follows:

```
16:32:41
                  Add
                                    2004-03-03
             Job Parameters
                                     F11310MC
           Job Name: CICTSING
           (D = Default for Job Type)
                      Batch
                      COM-PLETE
                      CICS Cluster
               Х
                      CICS
                      IMS/DC
                      UTM
                      TS0
                      CMS
                      TIAM
                     None above
            Mark to Select a Job Type
           Command ==>
             PF1 Help
                            PF3 Exit
```

- 5. Refer to the section Job Parameters for details of job parameters and how to set them. Default values will suffice for some of the parameters, but you must specify appropriate values for the following parameters:
 - ATM Activate ATM Processing: Set to ON.
 - SVC SVC Number: Provide the correct SVC number. (Not required in BS2000 systems.)
 - CORGROUP System Coordinator Group name: Provide the name of the System Coordinator group of the local System Coordinator daemon – TESTSING in this example.

Multi System with Static Clients

A multi-system is one in which multiple operating system images are used in conjunction with each other. These system images must be connected by Software AG's Entire Net-Work product. In these cases, it is likely that an application running on one system will change Adabas databases executing on more than one of the system images. An ATM daemon executes in each system image. The daemons communicate with each other in managing the Adabas changes that are made around the network.

The example will use IMAGE1 and IMAGE2. Only static clients are used, so the local Adabas System Coordinator does not need the help of the daemon to manage its client sessions. Each connected system image must run its own instance of the Adabas System Coordinator daemon. The daemons are used solely to provide services to the ATM daemons.

Here are the steps that you take:

- Define an Adabas System Coordinator group, for example, TESTMULT.
- Acquire/allocate a Node ID for each member (one per image), for example nodes 9010 and 9011 for systems IMAGE1 and IMAGE2.
- Define a member of the group for each system image, for example, SYSCO10 and SYSCO11.
- Specify the Adabas System Coordinator group in which the ATM daemons will operate. This example uses the group TESTMULT.
- Define the static client jobs for which Adabas Transaction Manager is to provide transaction coordination, for example, job CICTMULT.
- 1. Below is the SYSCOR definition of Adabas System Coordinator Group TESTMULT using SVC number 253; the system type is Standard (Multi-system images). Cluster Facility name is not required since this is only required for running in SYSPLEX mode.
 - **Note:** All members of an Adabas System Coordinator group must use the same SVC number at runtime.

```
16:38:44 Modify 2004-03-03
System Coordinator Group Member C11230M1
Group Name: TESTMULT SVC ID: 253
System Type: - Standard (Single-system image)
(Mark one) X Standard (Multi-system images)
_ Sysplex (IBM Parallel Sysplex)
Cluster Facility Name : ______
Automatic Pool Recovery: Y
```

Command ==>		
PF1 Help	PF3 Exit	PF5 Upd

- 2. The following shows the member definitions of the group when it has been expanded in SYSCOR.
 - **Note:** The member names must exactly match the job names of the Adabas System Coordinator daemons.

```
***** A D A B A S SYSTEM COORDINATOR 7.4.2 (0004) ***** 2004-03-03
16:39:23
                                                               C11260M1
                   - System Coordinator Group Members -
Runmode: Local
                                                          Session: Local
Group Name: TESTMULT
                                     Cluster Facility Name:
    SVC ID: 253
                                          Operating System: Multi
                  Member
     Purge(P)
                  Job Name
                                  Node ID
                  SYSC010
                                    9010
                                                 <== Top of List
                                                 <== End of List
                  SYSC011
                                     9011
 Command ==>
Enter-PF1---PF2---PF3---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help Exit Refr Upd
                                                        Add
                                                                   Menu
```

- 3. As in the single system example, use SYSCOR to set the System Coordinator job parameters for the application jobs and TP systems that are to use Adabas Transaction Manager in your system. In this case you can set the parameter "Managed by daemon" to "N".
- 4. As in the single system example, you must now use SYSATM to define job parameters for all the client applications that are to use Adabas Transaction Manager in your system. Be sure that the job parameters for each job are stored in a system file which is accessible from the system image in which the job executes.

Single System with Dynamic Transaction Routing Clients

The following are examples of technologies that offer dynamic transaction routing (DTR) in a single system image:

- CICS/MRO
- IMS TM
- UTM
 - **Note:** The activation and use of DTR in the technologies listed above is under the control of the system administrator. You may be able to use these technologies without necessarily using DTR. Please be sure to check.

DTR is the most flexible implementation of load balancing and fault tolerance for these technologies. This is where multiple jobs run together to provide a single service. We refer to DTR-enabled technologies as clustered applications. Clustered applications allow client sessions to move from running in one job to another (within the same service) at any time a message pair completes. Consequently, Adabas Transaction Manager, Adabas Vista, Adabas Fastpath and Adabas SAF Security must all be ready to react to this event, on demand. The Adabas System Coordinator provides an internal service to enable DTR support for these products.

Here are the steps that you take if you wish to use Adabas Transaction Manager's transaction coordination in DTR jobs within a single system:

- Define an Adabas System Coordinator group, for example, TESTDTR.
- Acquire/allocate a Node ID for the daemon, for example, 9020.
- Define the member of the group, for example, member SYSCO20.
- Specify the Adabas System Coordinator group in which the ATM daemon will operate TESTDTR in this example.
- Define the client jobs that are to use Adabas Transaction Manager, for example, job name CIC-SDTR*; that includes jobs CICSDTR1 and CICSDTR2, that run together as a single DTR service.
- 1. Below is the definition of Adabas System Coordinator Group TESTDTR using SVC number 253. The System Type is Standard (Single-system image). Cluster Facility name is not required since this is only required for running in SYSPLEX mode:

17:39:46	Modi System Coord	fy linator Group Membe	2004-03-03 r C11230M1
Group Name:	TESTDTR	SVC ID: 253	
(Mark one)	 Standard Sysplex (lity Name : 	(Single-system image (Multi-system image IBM Parallel Sysple Y	es)
Command ==>	F1 Help	PF3 Exit	PF5 Upd

2. The following shows the example member definition for the group expanded in SYSCOR:

	A B A S SYSTEM COO System Coordinator		(IOO4) * -	****	2004-03-03 C11260M1
Runmode: Local				Session	: Local
Group Name: TESTDTR SVC ID: 253		Cluster Facilit Operating	-	Single	
Purge(P) —	Member Job Name N SYSCO2O 	ode ID 9020 	<== End	of List	
	PF3PF4PF5PF Exit Refr Upd	6 PF7 PF8	- PF9 PF Ad		1PF12 Menu

- 3. Next, use SYSCOR to set the System Coordinator job parameters for the application jobs and TP systems that are to use Adabas Transaction Manager in your system. Refer to the *Adabas System Coordinator* documentation for details. The parameter "Managed by daemon" must be set to "Y" for any TP system that will use dynamic transaction routing, such as CICS/MRO.
- 4. As in the above examples, you must now use SYSATM to define job parameters for all the client applications that are to use Adabas Transaction Manager in your system. Select the correct job type for your clustered application environment, in this example, CICS Cluster. The wildcard

(*) is used to reduce the number of job definitions required. You must also supply the name of the Adabas System Coordinator group which controls this cluster, and a service name for the cluster. The group must already have been defined using SYSCOR. In this example, the name CICSDTR has been chosen for the cluster service. Set ATM job parameters, as described for the case of a single system with static clients.



Note: It is important that all jobs of the same service have an identical setting for Clustered Application Service Name, especially when the wildcard option is not used. This is the only thing that relates jobs together as a single service. In this example, the cluster that we identify by service name CICSDTR consists of a number of CICS jobs, each of which executes with a job name CICSDTR with a single-character suffix.

07:57:12	Add Job Paramet	ers	2004-03-04 T11100M3
	Job Type: CICS	Cluster	
	Job Name: CICSD (D = Default fo ATM ON/OFF		
	Dae (Usually for Cl Servi Coordinator Gro	ustered Appli ce Name: CICS	cations) DTR
	****************** * PF5 to Confi ********	rm Add *	
	Command ==>		
	PF1 Help PF3	Exit	

SYSPLEX with Dynamic Transaction Routing Clients

CICS in a Parallel Sysplex is an example of a technology that offers dynamic transaction routing (DTR) in a Clustered Operating System running in multiple images.

DTR is the most flexible implementation of load balancing and fault tolerance for these technologies. This is where multiple jobs run together to provide a single service. We refer to DTR-enabled technologies as clustered applications. Clustered applications allow client sessions to move from running in one job to another (within the same application service) at any time a message pair completes. Consequently, Adabas Transaction Manager, Adabas Vista, Adabas Fastpath and Adabas SAF Security must all be ready to react to this event, on demand. The Adabas System Coordinator provides an internal service to enable DTR support for these products.

In a SYSPLEX configuration it is possible for a client session to be routed from one system image to another within the SYSPLEX. In order to facilitate this DTR, the Clustered Application Service running in the Adabas System Coordinator daemons must communicate in order to negotiate the transfer of the client session context from one system image to the other. This system level communication is assisted by use of the IBM Coupling Facility.

Here are the steps that you take if you wish to use Adabas Transaction Manager in DTR jobs within a SYSPLEX:

- Define a Cache Structure in the Coupling Facility, for example, TESTMDTR-CFN.
- Define an Adabas System Coordinator group, for example, TESTMDTR.
- Acquire/allocate a Node ID for each member, for example, nodes 9030 and 9031.
- Specify the Adabas System Coordinator group in which the ATM daemons will operate. This example uses the group TESTMDTR, defined as above.
- Define the members of the group, for example, members SYSCO30 and SYSCO31.
- Define the client jobs that are to use Adabas Transaction Manager. In this example we make a SYSPLEX DTR definition, with jobs CICMDTR1 and CICMDTR2 working together as a single service.
- 1. Below is the SYSCOR definition of Adabas System Coordinator Group TESTMDTR using SVC number 253; the System Type is SYSPLEX (IBM Parallel Sysplex). The IBM Coupling Facility is used in this configuration. In the example, this is a cache structure called TESTMDTR-CFN which must have been defined by your system administrator.

Note: The activation and use of DTR in these technologies is under the control of the system administrator. You may be able to use these technologies without necessarily using DTR. Please be sure to check.

-

07:58:54 Modify 2004-03-03 System Coordinator Group Member C11230M1 Group Name: TESTMDTR SVC ID: 253 System Type: - Standard (Single-system image) (Mark one) - Standard (Multi-system images) X Sysplex (IBM Parallel Sysplex) Cluster Facility Name : Automatic Pool Recovery: Y Command ==> PF1 Help PF3 Exit PF5 Upd

2. The following shows the member definitions of the expanded group in SYSCOR.

Note: The member names must exactly match the job names of the Adabas System Coordinator daemons.

```
07:59:58 ***** A D A B A S SYSTEM COORDINATOR 7.4.2 (IOO4) ***** 2004-03-04
                - System Coordinator Group Members -
                                                               C11260M1
Runmode: Daemon / 9020
                                                  Session: Daemon / 9020
Group Name: TESTMDTR
                                 Cluster Facility Name: TESTMDTR-CFN
                                      Operating System: Multi
    SVC ID: 253
                  Member
     Purge(P)
                 Job Name
                                  Node ID
                  SYSC030
                                   9030
                                                 <== Top of List
                                                 <== End of List
                  SYSCO31
                                     9031
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help Exit Refr Upd
                                                        Add
                                                                   Menu
```

- 3. Next, use SYSCOR to set the System Coordinator job parameters for the application jobs and TP systems that are to use Adabas Transaction Manager in your system. Refer to the *Adabas System Coordinator* documentation for details. The parameter "Managed by daemon" must be set to "Y" for any CICS/PLEX system that will use dynamic transaction routing.
- 4. Next, use SYSATM to define job parameters for all the CICS/PLEX jobs that are to run together as a clustered service. Select the correct job type for your clustered application environment, in

this example, CICS Cluster. The wildcard (*) is used to reduce the number of job definitions required. You must also supply the name of the Adabas System Coordinator group which controls this cluster, and a service name for the cluster. The group, TESTMDTR in this example, must already have been defined using SYSCOR. In this example, the name CICSMDTR has been chosen for the cluster service. Set ATM job parameters, as described for the case of a single system with static clients.

Note: It is important that all jobs of the same service have an identical setting for Clustered Application Service Name, especially when the wildcard option is not used. This is the only setting that relates jobs together as a single service.

08:05:17 Add 2004-03-04 Job Parameters T11100M3 Job Type: CICS Cluster Job Name: CICSDTR* (D = Default for Job Type) ATM ON/OFF for Job: ON ----- Daemon Mode -----(Usually for Clustered Applications) Service Name: CICSDTR Coordinator Group Name: TESTDTR ****** * PF5 to Confirm Add * ***** Command ==>PF1 Help PF3 Exit

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