

## **Adabas Fastpath**

### **Adabas Fastpath Configuration**

Version 7.4.2

September 2009

This document applies to Adabas Fastpath Version 7.4.2 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 Fastpath Configuration

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This document provides information related to Adabas Fastpath configuration.

The following topics are provided:

- **Using Adabas Fastpath in a Distributed System Environment**
- **Using Adabas Fastpath with Adabas Cluster Services**
- **Configuration Examples**



# 2 Using Adabas Fastpath in a Distributed System Environment

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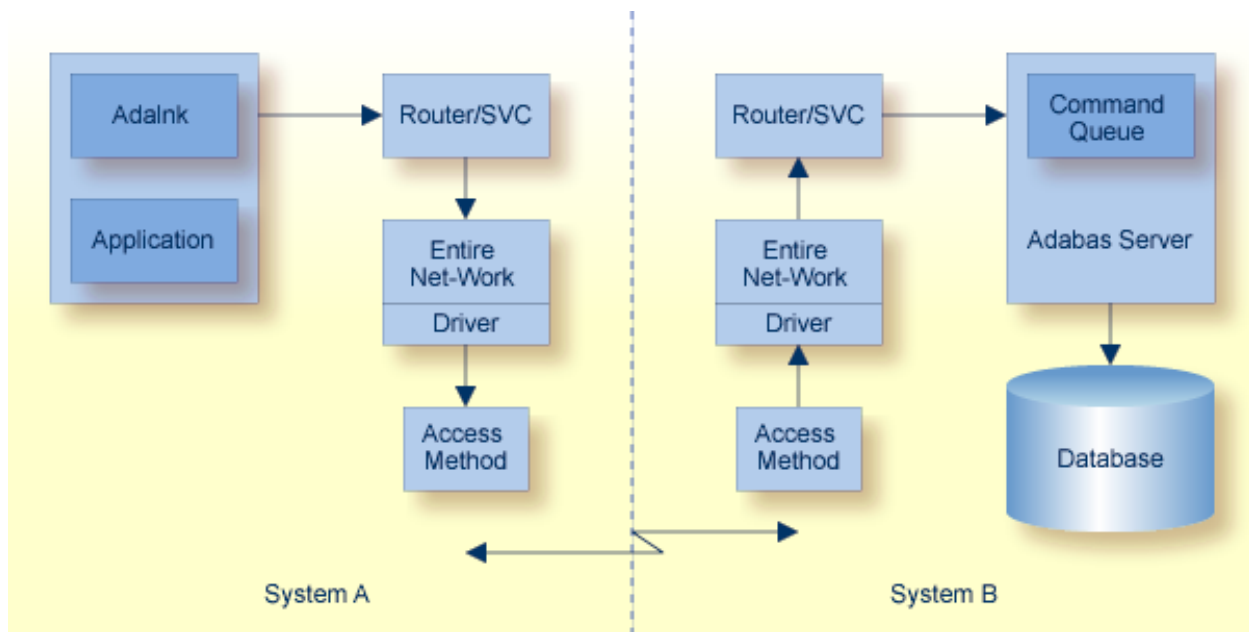
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Adabas Fastpath can be used to optimize Adabas databases that are remote to the client process while automatically maintaining the integrity of data in the Adabas Fastpath buffer.

## Entire Net-Work Communication

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The following graphic shows the communication components and path involved in a client query, without Adabas Fastpath, when the data resides in a remote Adabas server:



### Entire Net-Work Operation without Adabas Fastpath

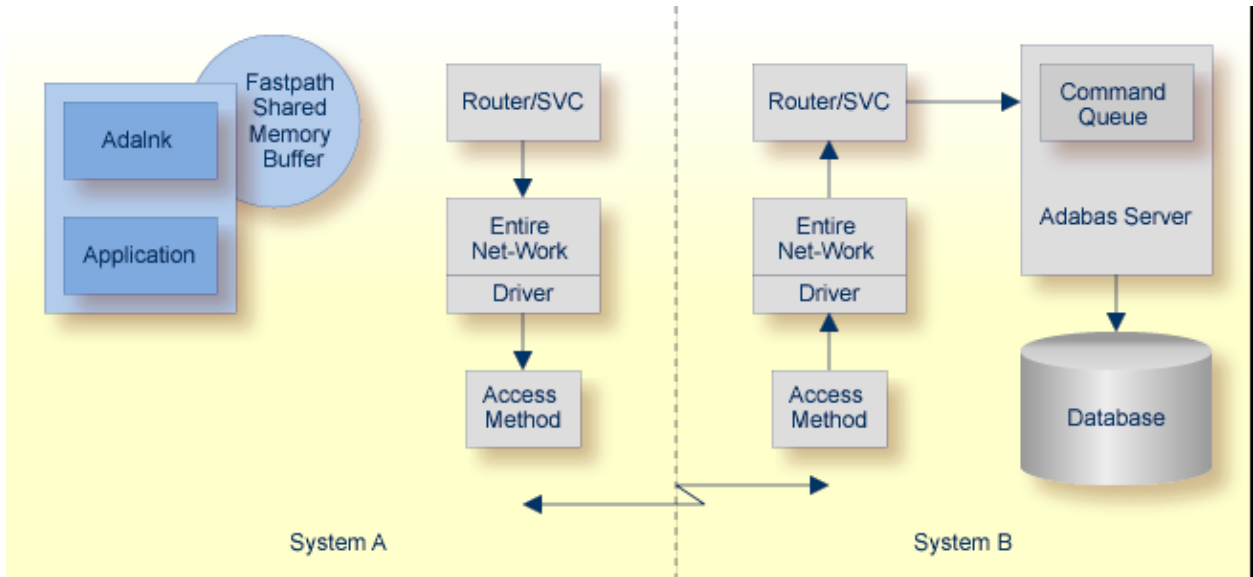
An Entire Net-Work communicator with an appropriate access method line driver is installed on both systems. The two line drivers establish the connection with each other through the appropriate access method services.

## Remote Adabas Server

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Adabas Fastpath can be used to optimize a client query for data from a remote database where the Adabas Fastpath buffer is in the same operating system image as the client. Entire Net-Work makes the location of the database transparent to the optimization process and there are no special installation requirements.



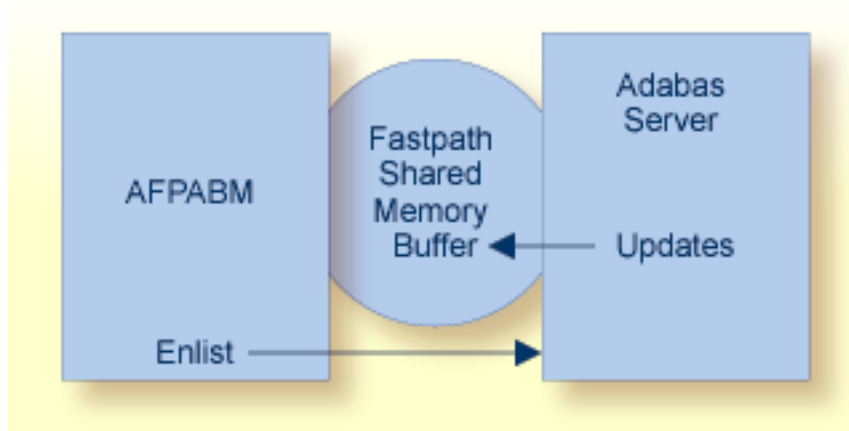


### Optimizing with the Fastpath Buffer Local to the Client Process

When a command is optimized by Adabas Fastpath (that is, satisfied from the Adabas Fastpath shared memory buffer), the Entire Net-Work communication path is bypassed as well as the Adabas command processing.

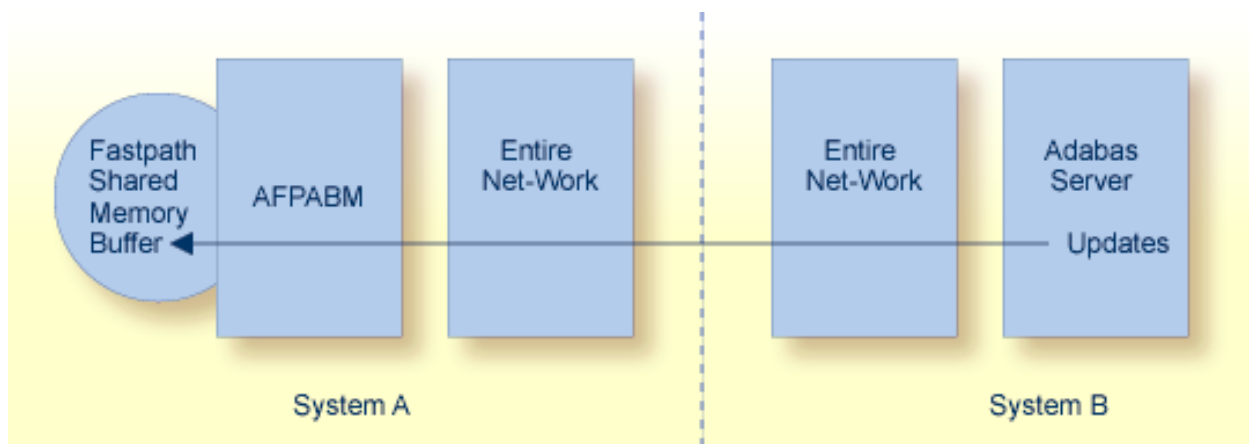
## Update Processing

In a single system implementation or a multisystem implementation where the Adabas Fastpath buffer is in the same operating system image as (that is, local to) the updated Adabas server, AFPABM communicates with each Adabas server for which it has any file parameters with update-level sensitivity. When the integrated Adabas Fastpath update component in the Adabas server is alerted to an update, the details are immediately reflected in the local Adabas Fastpath buffer as follows:



### Updating with the Fastpath Buffer Local to the Database

For multisystem implementations where the Adabas Fastpath buffer is *not* local to the updated Adabas server, the Adabas Fastpath update component in the Adabas server signals the remote AFPABM component in order to reflect the update in the remote system as follows:



### Updating with the Fastpath Buffer Remote from the Database

The originating update command is delayed in the Adabas server until the remote AFPABM has received the update signal. Every effort is made by AFPABM to respond immediately, although some delay to the update thread in the Adabas server is inevitable. Other update threads function without delay unless they depend on the updated ISN.

Multiple AFPABM instances may enlist with the same Adabas server, especially in large implementations. In such cases, the update signalling cycle will take longer. You will need to consider the number of updates processed to determine the optimization benefits.

# 3 Using Adabas Fastpath with Adabas Cluster Services

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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

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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

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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.

## 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 Configuration Examples

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

## The Role of the Adabas System Coordinator

---

The Adabas System Coordinator is a prerequisite technology for Adabas Fastpath, Vista, Transaction Manager and 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, increasing use and 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 Fastpath, Adabas Vista, Adabas Transaction Manager 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.

The Adabas System Coordinator daemon also provides another service. The daemon is able to run the Adabas Fastpath Asynchronous Buffer Manager (FASTABM). This is totally separate from the clustered application (DTR) services. The following examples are provided for running Adabas Fastpath 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 house the FASTABM service.

- **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 house the FASTABM service.

- **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 house the FASTABM service 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 house the FASTABM service 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.
- Define the Adabas Fastpath global buffer. This example uses the name SYSCO1.
- Define the job(s) for which Adabas Fastpath optimization is to be in effect. 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.

```

10:32:19          Modify          2003-04-14
          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
```

- 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 a DDCARD input for PRODUCT=AFP and PRODUCT=CAS. These identify the services that will operate in the daemon job.

```
13:29:29      ***** A D A B A S   SYSTEM COORDINATOR 7.4.1 *****      2003-04-10
              - System Coordinator Group Members -                      C11260M1

Runmode: Local                               Session: Local

Group Name: TESTSING                          Cluster Facility Name:
SVC ID: 253                                   Operating System      : Single

              Member

Purge(P)    Job Name      Node ID
  -          SYSCO10      9010    <== End of List

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
Help      Exit Refr  Upd                               Add      Menu
```

- You must now define in SYSAFP the Adabas Fastpath global buffer memory size to be managed by the Asynchronous Buffer Manager (FASTABM) service that will run in the Adabas System Coordinator daemon. There is a fixed relationship between a buffer and the daemon in which it is to run. This is more relevant for sites with multisystem images. You must use the same name as the Adabas System Coordinator Group member name defined above; in this example SYSCO1. The Adabas System Coordinator group and member must have been defined prior to defining the Adabas Fastpath buffer:

```

18:55:30                                2003-05-20
      Add Buffer                          F11110MB

      Size(k)      : 4096

      System Coordinator
      Group Name : TESTSING
      Member Name: SYSC01
      (Leave empty to select)

      Command ==>
      PF1 Help   PF3 Exit   PF5 Add

```

4. Now you must define SYSAFP job parameters for all the client applications that are to use Adabas Fastpath optimization 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 usually sufficient (and can be modified later if necessary), but there are certain parameters that need to be entered so that it is known that Adabas Fastpath is to apply these to the named job. Where optimization is to be applied to a job for the first time, you are asked to add a new set of job parameters in SYSAFP. Here you must first simply identify the job name and the type. The job type allows Adabas Fastpath to assume suitable defaults 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:

```

19:07:39                                2003-05-20
      Add                               F11310MC
      Job Parameters

      Job Name: CICTSING
      (D = Default for Job Type)

      _      Batch
      _      COM-LETE
      _      CICS Cluster
      X      CICS
      _      IMS/DC
      _      UTM
      _      TSO
      _      CMS
      _      TIAM
      _      None above
      Mark to Select a Job Type

      Command ==>
      PF1 Help   PF3 Exit

```

- Now you are asked to identify the Adabas System Coordinator group containing the daemon member(s) that house the Adabas Fastpath buffer (FASTABM) service. You only identify the group, not the member, because doing so allows sites with multisystem images to run jobs in any system and to dynamically receive the optimization benefits made available by the Adabas Fastpath buffer that is available in that local system. In this example, you enter TESTSING in the buffer group name entry.

In addition, you can also define that the job is to be run in daemon mode. This is usually for clustered applications, which is described later in other example configurations. If you do use this facility, you must use exactly the same group name (TESTSING) as mentioned for the buffer group.

Here is the example:

```

19:22:53          Add                2003-05-20
                Job Parameters        F11310M1

Job Type: CICS
Job Name: CICTSING
(D = Default for Job Type)
Fastpath ON/OFF for Job: ON

Buffer Group Name: TESTSING
(Leave empty to select)

Optional Time Window
Start(HH:MM): _____ End: _____
(Leave empty for 24 hours)

----- Daemon Mode -----
(Usually for Clustered Applications)
Service Name: _____
Coordinator Group Name: _____
-----

Command ==>
PF1 Help   PF3 Exit   PF5 Add
    
```

## Multi System with Static Clients

A multisystem is one in which multiple operating system images are used in conjunction with each other. To do this, these images must be connected by Software AG's Entire Net-Work product. In these cases, it is likely that an Adabas Fastpath buffer is to be tasked with caching data from Adabas servers where one (or more) nucleus instances run in connected system images. This configuration means modifications occur to Adabas that are not automatically visible to all the Adabas Fastpath buffers running in all the system images. In this case, you must configure Adabas Fastpath and the Adabas System Coordinator daemon so that they are able to freely communicate this type of information when necessary.

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. The daemon is used solely to house the FASTABM service. Each connected system image must run its own instance of the Adabas System Coordinator daemon.

Here are the steps that you take:

- Define a 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.
  - Define an Adabas Fastpath global buffer for each member (image) where a FASTABM service will be implemented. In this example, both images are included and are called SYSCO10 and SYSCO11.
  - Define the static client jobs that are to use Adabas Fastpath, 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.

```

10:38:44          Modify          2003-04-14
                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 name of the Adabas System Coordinator daemon.

```
13:36:23      ***** A D A B A S  SYSTEM COORDINATOR 7.4.1 *****      2003-04-10
              - System Coordinator Group Members -                      C11260M1

Runmode: Local                               Session: Local

Group Name: TESTMULT                          Cluster Facility Name:
SVC ID: 253                                   Operating System: Multi

      Member
Purge(P)  Job Name      Node ID
  -        SYSCO10      9010      <== Top of List
  -        SYSCO11      9011      <== End of List
  _____
  _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit Refr Upd                                Add      Menu
```

3. In this example, an Adabas Fastpath buffer will be run in each system image (one per member). The example below shows the creation of the buffer definition to run as a service in the SYSCO10 member; a similar buffer definition would also be made for SYSCO11.

```
19:35:43      Add Buffer      2003-05-20
              F11110MB

Size(k)      : 40960

System Coordinator
Group Name : TESTMULT
Member Name: SYSCO10
(Leave empty to select)
```

```

Command ==>
PF1 Help   PF3 Exit   PF5 Add

```

4. Below is the view of the second screen for the new Adabas Fastpath job parameters for CICTMULT that will run in the same image as SYSCO10. This is a standard CICS job that does not require daemon mode for dynamic transaction routing. You must identify the Adabas System Coordinator group containing the daemon member(s) that house the Adabas Fastpath buffer (FASTABM) service. You only identify the group, not the member. Doing so allows sites with multisystem images to run jobs in any system and to dynamically receive the optimization benefits made available by the Adabas Fastpath buffer that is available in that local system. In this example, TESTMULT is the Buffer Group Name entry:

```

19:22:53          Add          2003-05-20
                Job Parameters  F11310M1

Job Type: CICS
Job Name: CICTMULT
(D = Default for Job Type)
Fastpath ON/OFF for Job: ON

Buffer Group Name: TESTMULT
(Leave empty to select)

Optional Time Window
Start(HH:MM): ____ End: ____
(Leave empty for 24 hours)

----- Daemon Mode -----
(Usually for Clustered Applications)
          Service Name: _____
          Coordinator Group Name: _____
-----

Command ==>
PF1 Help   PF3 Exit   PF5 Add

```

## 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 Fastpath, Adabas Vista, Adabas Transaction Manager 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 Fastpath optimization 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.
  - Define an Adabas Fastpath global buffer for the member (image). This must be named SYSCO20.
  - Define the client jobs that are to use Adabas Fastpath, for example, job CICS DTR\* that includes job names CICS DTR1 and CICS DTR2 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:



```

10:39:46          Modify          2003-04-14
                System Coordinator Group Member      C11230M1

Group Name: TESTDTR          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. The following shows the example member definition for the group expanded in SYSCOR:



**Note:** The started task for the SYSCO DAEMON will specify a DDCARD parameter PRODUCT=AFP, as well as PRODUCT=CAS. This is because the SYSCO daemon will host the service for the Adabas Fastpath ABM. The Node ID reserved for the SYSCO Daemon is 9020.

```

15:27:08          ***** A D A B A S   SYSTEM COORDINATOR 7.4.1 *****          2003-04-10
                - System Coordinator Group Members -          C11260M1

Runmode: Local          Session: Local

Group Name: TESTDTR          Cluster Facility Name:
SVC ID: 253          Operating System: Single

Purge(P)          Member          Job Name          Node ID          <== End of List
-          _____          SYSC020          9020          _____
          _____          _____          _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
        Help          Exit Refr Upd          Add          Menu
    
```

3. In this example, an Adabas Fastpath buffer is run in the Adabas System Coordinator member. The example below shows the definition of a new buffer to run as a service in member SYSCO20.

```

19:46:49                               2003-05-20
      Add Buffer                          F11110MB

      Size(k)      : 100000

      System Coordinator
      Group Name   : TESTDTR
      Member Name  : SYSCO20
      (Leave empty to select)

      Command ==>
      PF1 Help    PF3 Exit    PF5 Add
    
```

4. The following shows the second screen during the addition of a new job parameter for all the CICS/MRO jobs that are to run together as a single (clustered) DTR service. The "\*" wildcard is used to reduce the number of job definitions required. The Adabas Fastpath optimization is based upon the Adabas System Coordinator group used to house the Adabas Fastpath buffer service. In this case, TESTDTR is used as the buffer group name.

Clustered applications that operate as a DTR service must be defined to run in daemon mode. Therefore, CICS DTR is entered as the common service name, and the Adabas System Coordinator group TESTDTR is also identified (this must be the same as the buffer group name above):



**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.

```

19:22:53                               2003-05-20
      Add                               F11310M1
      Job Parameters

      Job Type: CICS
      Job Name: CICTDTR*
      (D = Default for Job Type)
      Fastpath ON/OFF for Job: ON

      Buffer Group Name: TESTDTR
      (Leave empty to select)

      Optional Time Window
      Start(HH:MM): _____ End: _____
      (Leave empty for 24 hours)

      ----- Daemon Mode -----
    
```

```
(Usually for Clustered Applications)
      Service Name: CICS DTR
Coordinator Group Name: TESTDTR
-----

Command ==>
PF1 Help   PF3 Exit   PF5 Add
```

## 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.



**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.

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 Fastpath, Adabas Vista, Adabas Transaction Manager 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 Fastpath optimization 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.
- Define the member of the group, for example, members SYSCO30 and SYSCO31.
- Define an Adabas Fastpath global buffer for the member (image). This must be named SYSCO30.
- Define the client jobs that are to use Adabas Fastpath. In the example, SYSPLEX DTR with jobs CICMDTR1 and CICMDTR2 working together as a single service.

- 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. Your system administrator must define the actual structure, too:

```

10:51:54          Modify          2004-04-14
                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
    
```

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



**Note:** The member names must exactly match the job name of the Adabas System Coordinator daemon.

```

10:55:58      ***** A D A B A S   SYSTEM COORDINATOR 7.4.1 *****      2004-04-14
                - System Coordinator Group Members -                      C11260M1

Runmode: Daemon / 9020          Session: Daemon / 9020

Group Name: TESTMDTR          Cluster Facility Name: TESTMDTR-CFN
SVC ID: 253                   Operating System: Multi

      Member
Purge(P)  Job Name      Node ID
-          SYSC030      9030      <== Top of List
-          SYSC031      9031      <== End of List
          _____
          _____

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit Refr Upd          Add      Menu
    
```

3. In this SYSAFP example, an Adabas Fastpath buffer is run in each system image (one per daemon member). The screen below shows the definition of the new buffer to run as a service in the member SYSCO30. A similar buffer definition would also be made for member SYSCO31.

```

19:46:49                2003-05-20
                Add Buffer          F11110MB

                Size(k)      : 100000

                System Coordinator
                Group Name : TESTMDTR
                Member Name: SYSCO30
                (Leave empty to select)

                Command ==>
                PF1 Help   PF3 Exit   PF5 Add

```

4. The following shows, in SYSAFP, the second screen during the addition of a new job parameter for all the CICS/PLEX jobs that are to run together as a (clustered) DTR service. The "\*" wildcard is used to reduce the number of job definitions required. The Adabas Fastpath optimization is based upon the Adabas System Coordinator group used to house the Adabas Fastpath buffer service. In this example, TESTMDTR is used as the buffer group name. Clustered applications that operate as a DTR service must be defined to run in daemon mode. Therefore, CICSMDTR is entered as the common service name, and the Adabas System Coordinator group TESTMDTR is also identified. This must be the same as the buffer group name above.



**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.

```

19:22:53                Add          2003-05-20
                Job Parameters      F11310M1

                Job Type: CICS
                Job Name: CICTDTR*
                (D = Default for Job Type)
                Fastpath ON/OFF for Job: ON

                Buffer Group Name: TESTDTR
                (Leave empty to select)

                Optional Time Window
                Start(HH:MM): _____ End: _____
                (Leave empty for 24 hours)

```

```
----- Daemon Mode -----  
(Usually for Clustered Applications)  
      Service Name: CICS DTR  
      Coordinator Group Name: TESTDTR  
-----
```

```
Command ==>  
  PF1 Help    PF3 Exit    PF5 Add
```

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