

# Advanced Call Router™ Manual

12/2009 4510-0001-6.5 Update1

#### WARNING!

Toll fraud is committed when individuals unlawfully gain access to customer telecommunication systems. This is a criminal offense. Currently, we do not know of any telecommunications system that is immune to this type of criminal activity. AltiGen Communications, Inc., will not accept liability for any damages, including long distance charges, which result from unauthorized and/or unlawful use. Although AltiGen Communications, Inc., has designed security features into its products, it is your sole responsibility to use the security features and to establish security practices within your company, including training, security awareness, and call auditing.

#### NOTICE

While every effort has been made to ensure accuracy, AltiGen Communications, Inc., will not be liable for technical or editorial errors or omissions contained within the documentation. The information contained in this documentation is subject to change without notice.

This documentation may be used only in accordance with the terms of the AltiGen Communications, Inc., License Agreement.

AltiGen Communications, Inc. 410 East Plumeria Dr. San Jose, CA 95134 Telephone: 888-AltiGen (258-4436) Fax: 408-597-9020 E-mail: info@altigen.com Web site: www.altigen.com

#### TRADEMARKS

MAX Communication Server, MaxAdministrator, MaxCommunicator, MaxAgent, MaxSupervisor, MaxInSight, MaxOutlook, MaxCall, Enterprise Manager, AltiServ, AltiLink, AltiConsole, VRPlayer, Zoomerang, IPTalk, Alti-Mobile Extension, InTouch Dialer, AltiReport, and SuperQ are trademarks or registered trademarks of AltiGen Communications, Inc.

All other brand names mentioned are trademarks or registered trademarks of their respective manufacturers.

Copyright © AltiGen Communications, Inc. 2009. All rights reserved. 4510-0001-6.5 Update1

# Contents

Installation1
To Configure/Run Advanced Call Router
Advanced Call Router Route Rules
Creating Route Rules
Viewing Advanced Call Router History Menu
Show Workgroup Status10
Clearing Advanced Call Router History Data12
Additional Advanced Call Router Features
Testing Call Router
Testing SQL Server Database

# **Advanced Call Router**

Advanced Call Router is the standard AltiGen Call Router application plus call router service. Advanced Call Router requires the purchase and activation of an Advanced Call Router license.

**Note:** The workgroup to which incoming trunk calls will be routed via Call Router must be assigned to the auto attendant whose Action is set to "Adv - Advanced Call Router," with **Ext Num** set to the virtual extension you use to configure Call Router. For information on configuring auto attendants, refer to the Auto Attendant Configuration chapter of the *MAXCS Admin Manual*.

# Installation

To install Advanced Call Router,

- 1. Run the .exe file from the Advanced Call Router folder of the MAX Communication Server ACC/ACM Installation CD.
- 2. When prompted, enter the 20-digit license key for Advanced Call Router in the field and click **Next**.

Setup will confirm the destination for the Call Router application (default is C:\Program Files\AltiGen\Call Router). To select a different location, use the **Browse** button to choose the new location.

- 3. Click **Next** to proceed.
- **Note:** Advanced Call Router Service requires the purchase and activation of the Advanced Call Router license.

# To Configure/Run Advanced Call Router

1. Launch Call Router from the Windows **Start** menu.

Call Router History:									
TimeStamp	Caller ID	IVR Path	IVR Data	Dnis	Matching Record	Result			
08:45:57-10/10/2006		1e&2			NotADealer	Call to Ex			
07:18:46-10/10/2006		1e&2			NotADealer	Call to Ex			
16:09:41-10/09/2006		20&1&	dealerid=11		VerifyCaseNumFinAqMon	Call to Ex			
16:09:30-10/09/2006		1e&1&	dealerid=11		VerifyDealerId 1stTime	Call to Ex			
15:53:18-10/09/2006		20&1&	dealerid=11		VerifyCaseNumFindAglan	Call to Ex			
15:53:07-10/09/2006		1e&1&	dealerid=11		VerifyDealerId_1stTime	Call to Ex			
15:45:37-10/09/2006		20&1&	dealerid=11		VerifyCaseNumFindAgMa	Call to Ex			
15:45:23-10/09/2006		1e&1&	dealerid=11		VerifyDealerId_1stTime	Call to Ex			
11:06:29-09/28/2006		1e&1&	dealerid=11		Default Routing	No Actior			
09:53:28-09/28/2006		1e&1&	dealerid=12		Default Routing	No Actior			
09:08:59-09/28/2006		1e&1&	dealerid=12		Default Routing	No Actior			
09:03:38-09/28/2006	192.168	1e&1&	dealerid=11		Default Routing	No Actior			
08:35:36-09/28/2006		1e&1&	dealerid=11		Default Routing	No Actior			
08:01:56-09/28/2006		1e&1&	dealerid=12		Default Routing	No Actior			
07:23:28-09/28/2006		1e&1&	dealerid=12		Default Routing	No Actior			
07:01:37-09/28/2006		1e&1&	dealerid=12		Default Routing	No Actior			
06:54:27-09/28/2006		1e&1&	dealerid=12		Default Routing	No Actior			
12.41.00.00/10/2006	0	20111	doplorid=11		ContEindAgent	Coll to Eve			

2. Click the **Connect** button to enter the Call Router Server Name or IP address to connect to, then click **OK**.

To disconnect from this server, click the **Disconnect** button.

Input Server Name:	×
Server Name:	
france	
OK Cancel	

3. Select **Operation** > **Logon Info**.

Logon Info	x
Alti Server Name:	
France	
Default Virtual Extension:	
301	
Virtaul Extension Password:	
****	
Auto Start Service	
OK Cancel	

4. In the **Logon Info** window, enter the **Server Name** that Advanced Call Router will connect to, along with the **Default Virtual Extension** and **Password** then click **OK**.

(Optional) Check **Auto Start Service** to have Advanced Call Router start routing calls automatically, after the system restarts or after Advanced Call Router service has been stopped and restarted.

- **Note:** Up to 8 login attempts are allowed, after which login will be disabled from 1 to 24 hours (depending on the setting in MaxAdministrator).
- 5. Click **Start** to run Advanced Call Router. When Advanced Call Router is stopped, you can configure the server and login information.
- 6. Route Rules and Show Monitor can be configured after Advanced Call Router is started.

# **Advanced Call Router Route Rules**

To create route rules that will be used to route calls, select **Operation** > **Route Rule** to open the **Route Rule List** window. This window also allows you to view existing route rules, and modify and delete route rules.

outer Rule	e List			×
lules List:		<b>+</b> ↓		
Name Sales Servic QA De Test	When Item Name is QA Dep	Target Action Play Work Grou Play Work Grou Play Work Grou Call to Extension	Target Data 399 398 397 313	Add Modify
•				Delete Delete All
Defau	It Routing OK	Cancel		Help

- Add opens a Custom Record dialog box, where you can create a new record and build the conditions for the record.
- **Modify** opens the Customer Record dialog box to modify the record selected in the Record List.
- Delete deletes the record selected in the Record List.
- Delete All deletes all records in the Record List.
- The **Default Routing** button opens a **Default Routing Rule** dialog box, where you can specify the action for Call Router to take if no match is found in the rules or in the database.

Default Routing Rule
Default Routing Action
No Action
📄 Set Call Priority 5 🔄 📄 Set Call SKLR 5 🛒
User Data:
Push URL:
Prompt:
If you input more than 1 prompt, please use $\overset{\mathrm{def}}{\sim}$ as separator.
OK Cancel

**Default Routing Action** options: No Action, Goto Top Level, Repeat Current Level, Call to Extension/Workgroup, Call to Operator, Dial by Name, Collect Extension, Directory Service, Record Message (specify target data in accompanying text box), Mailbox Access, Disconnect, System Callback, Collect Digits (specify fields in accompanying Collect Digit dialog box), Other DDR Application (specify target data in accompanying text box), Play WG Queue Status (specify target data in accompanying text box).

### **Creating Route Rules**

#### To create a route rule:

- 1. Select **Operation > Route Rule**.
- 2. Click the **Add** button to open a new Route Rule or **Modify** to modify an existing rule in the **Rules List** dialog box.

Rule					×
Rule Na	ame:				
Que	ue Announcemen	t Sales			
1. Build	the Conditions for	vour rule:			
	ller Info contains:		Match one of	thasa itams	1
			Imaterrone or		-
Item		Data		DSN	
	Caller ID	510252	21001		
	VR Path VR Data				
	temName	Queue	Sales		
	) nis				
•				•	
о т	a start and the D				
	et action of the Ru			F	
Call	to Extension/Work	Group	•	Ext Num: 300	
	Set Call Priority 5		🔲 Set Ca	all SKLR   5 🔄	
Use	er Data:				-
					-
	hURL:				-
Pro	mpt:				
lf y	ou input more than	1 promp	t,please use '';''	as separator.	
	OK		Cancel	Help	

- 3. In the **Rule Name** field, enter or modify the rule name.
- 4. Select the data to match against routing rules.
  - If Caller Info contains—lets you select Call Route Request data to match against the customer record.
    - a) Select "Match one" or "Match all" from the drop-down list.
    - b) Select the items you want.
    - c) Click in the **Data** column and type to specify the data.

To manually specify data for an item, right-click the item, select **Input data** and enter information in the column.

- Caller Entered Digits must be numeric only.
- You can enter "\*" as a wildcard character for any length of digits, or "?" for a single digit.
- 6 Advanced Call Router Manual

For example, if you specify Call ID Data "510252\*," this will match all Caller IDs 510-252-xxxx. If you specify Call ID Data "510252????," this will match all Caller IDs 510 252-xxxx.

- To specify data from an existing database, right-click the item, select **From user database**, and enter information in the **DataSource** dialog box.
- 5. Select a **Target action** for Call Router to perform when Call Route Request data matches this record.

**Target action** options: No Action, Goto Top Level, Repeat Current Level, Call to Extension/Workgroup, Call to Operator, Dial by Name, Collect Extension, Directory Service, Record Message (specify target data in accompanying text box), Mailbox Access, Disconnect, System Callback, Collect Digits (specify fields in accompanying Collect Digit dialog box—see below), Other DDR Application (specify target data in accompanying text box), Play WG Queue Status (specify target data in accompanying text box—see **Note** below).

#### **Collect Digit Dialog Box**

Collect Digit		Į	×
Please input tag	) name:		
Min Digits:	1		
Max Digits:	1	-	
PSTN Timeout:	1	• seconds	
Web Timeout:	1	seconds	
	ОК	Cancel	

- **Tag name** for example, "password" (gathered from a response to an Auto Attendant prompt or another AltiLink Plus application)
- Minimum Digits and Maximum Digits to collect
- **PSTN** and **Web Timeout** values

Note: Play WG Queue Status - if you select "Play WG Queue Status," Advanced Call Router must log on as a workgroup extension with password (View > Show Workgroup Status > Add) and Call Router's virtual extension and password. (The virtual extension that Call Router uses does not have to be a member of the workgroup.) Specify this workgroup extension in the textbox that appears when you select Play WG Queue Status. (See "Queue Announcements" on page 13.)

If you want to apply the "**Play WG Queue Status**" Target action to several different workgroups, you must create separate rules for each.

- 6. Enter optional data to match against the routing rule:
  - Set Call Priority—Check the box and choose a call priority level.
  - Set Call SKLR—Check the box and choose an SKLR level.
  - User Data—Gathered from a response to an Auto Attendant prompt or another AltiLink Plus application, or the text an agent typed in the User Data dialog box using the method DISP=
  - Push URL (AltiWeb only).
  - **Prompt**—The prompt to play to the callee.
- 7. Click OK.

#### Viewing Advanced Call Router History Menu

The Advanced Call Router window gives a history of all incoming trunk calls to Advanced Call Router.

#### To specify Call Router History window content

- 1. Choose View > Select Column.
- 2. In the **Select Columns** dialog box, select the following columns to display in the Call Router history window:
  - Caller ID
  - IVR Path
  - IVR data
  - DNIS

Select Columns	×						
Select columns that will appear in the Call Router History List:							
🔽 TimeStamp	🔽 IVR data						
	Form data						
🔽 IVR Path	DNIS						
Matching Record	✓ Target Action						
	OK Cancel						

#### Call Route Request Data

The "Call Router Request" message sent by MAXCS to Call Router contains data about the incoming call, which Call Router attempts to match against your routing rules. Call Route Request data consists of Caller ID, IVR Path, IVR data and DNIS, all collected via real-time monitoring.

0	peration	⊻iew	<u>T</u> ool	Help	Call Route	r History:	
L	TimeSta	amp		Caller ID	IVR Path	IVR Data	Dnis
н	16:09:4				20&1&	dealerid=	
	10.00.0	310/00			1.010	dealorid	

**Note:** IVR Path shows the Auto Attendant assignment for the workgroup that receives the call. If the workgroup's AA assignment is 5, this item shows "0 & 5"; if the AA assignment is 3, the item shows "0 & 3," and so on. The "0" indicates transfer to an Auto Attendant.

#### Call Route Response Data

The "Call Route Response" message, sent from Call Router to MAXCS, contains the search results of the Call Route Request Message. In the Call Router History window, this data shows how Call Router handled each call. Call Route Response data includes Matching Record (routing rule Call Router referred to for call routing) and Result (how and where the call was routed), all collected via real-time monitoring.

Operation ⊻iew	<u>T</u> ool <u>H</u> elp		Sell Doctory I Robe				
		, i	all Router Histo	ory:	_		
Imp	Caller ID	IVR Path	IVR Data	Dnis		Matching Record	Result 🔺
-10/09/2006 )-10/09/2006		20&1& 1e&1&	dealerid= dealerid=			VerifyCaseNumFinAgMon VerifyDealerId_1stTime	Call to Extension/Wor Call to Extension/Wor

**Note:** If no match is found between the Call Route Request Data and the routing rules, the call is routed according to the business rules that check monitored workgroups for the longest available agent, maximum service level, and minimum expected delay.

### **Show Workgroup Status**

To view real-time data on incoming trunks to workgroup, select **View > Show Workgroup Status**.

Mo	onito	r(France	:)				×
۷	Vork (	Group Sta	tus:				
1000	ID	Agents	Longest Idle T	Service Level	Queue	Average Delay	
	500		00:00:30(105)	100	0	00:00:00	
100	600	12	00:00:30(104)	100	0	00:00:00	
	•			]			·
	Å	dd	Delete	Update ev	/ery 1	0 seconds	
	Ch	ange Def	ault Wait Time	Chang	e Start Ca	alculate Call Count	
					Hide	Help	

- The main window box displays the following workgroup fields: **ID**, **Agents**, **Longest Idle Time**, **Service Level**, **Queue**, **Average Delay** and **Default Wait Time**.
- Add button—Click Add to log on to a workgroup whose incoming trunk call data you want to monitor. This opens a Log On Work Group dialog box.

Log on Work Group	×
WorkGroup ID:	Password:
500	
Extension ID:	Extension Password:
301	
Default Wait Time in Queue:	
3 (minutes)	
StartCalculationCallCount :	
10	
	OK Cancel

Enter the workgroup extension as the **WorkGroup ID** and **password**, and enter the virtual extension's **password**. In the field for **Default Wait Time in Queue**, type in the desired minutes. (By default, the **Extension ID** field is grayed out.)

- **Delete** button—click **Delete** to remove the selected workgroup from the display.
- **Change Default Wait Time**—click this button to change the default anticipated wait time associated with the workgroup queue.
- **Note:** The workgroup to which incoming trunk calls will be routed via Call Router must be assigned to the Auto Attendant whose **Action** is set to "Avd Advanced Call Router," with **Ext Num** set to the virtual extension you use to start Call Router. For information on configuring Auto Attendants, refer to the "Auto Attendant Configuration" chapter of the *MAXCS Admin Manual*.

If you want to announce queue status to callers (**Target action** of any routing rule is "Play WG Queue Status,") complete the **Virtual Extension ID** and **Virtual Extension** password fields using the workgroup agent extension (and its password) specified in the rule.

To log on to multiple workgroups:

- Click Add again and enter the next Workgroup ID and Password.
- Change Start Calculate Call Count—click this button to change the starting point for the number of calls to be reached for Call Router to start calculating call data.

# **Clearing Advanced Call Router History Data**

#### To clear data from the Advanced Call Router History window

- 1. Go to the directory "Program Files\AltiGen\Call Router" and locate the **Call Router.csv** file.
- 2. Open Call Router.csv and delete all contents.
- 3. Save and close Call Router.csv.

# **Additional Advanced Call Router Features**

#### **Building SQL Queries**

To build an SQL query that Call Router will send to your database, use the **CallerId Datasource** dialog box. The customer information retrieved from your database will be used in the routing rule.

SN	User N	lame:	Password:
	_		
Condition			,
Condition			
Caller ID	Field Type	Field Name	Table Name
Caller ID	char		
	1		
Where			
			1
	om User Database —		
Input the field na	me and field type,se	rver will get the field	value from database
Cald Manage	Early Trees	T-1-1-	
Field Name	Field Type	Table	
Field Name	Field Type	Table	
Field Name	Field Type	Table	
Field Name	Field Type	Table	
Field Name	Field Type	Table	
		Table	
		Table	
		Table	
Field Name		Table	
		Table	
		Table	
SQL Query Sent	ence:	eplace with digits we	↓ w get from Caller.

To open the Datasource dialog box, right-click on a data **Item** you want to specify using information from an existing database. Select **From user database**:

To build a SQL query:

- 1. Enter User Name and Password information for the database.
- 2. Enter information for the database you are querying against. For example:

DSN - BankAccount

Table Name - AccountBalance

Matched Field Name - CustomerPhoneNumber

Matched Field Data Type - char

Note: as you build the query, the **SQL query sentence** will appear in the window at the bottom.

- 3. Specify the condition for this query.
  - a. Select the Caller Match Item data for this query Caller ID, IVR Path, DNIS, Item name or IVR data.
  - Add any additional condition. For example Where && Balance>1000
- 4. Click **OK**. You will be returned to the **Rule** dialog box, where the SQL query will be shown in the **Data** column and the database will be shown in the **DSN** column.

#### **Queue Announcements**

**Note:** Queue announcements can now be done directly through MAXCS. Or you may use Advanced Call router for this function if you want.

If you use Advanced Call Router to inform callers of their position in a workgroup queue, there are two requirements:

1. In Call Router, you must create a rule with Target action "Play WG Queue Status." In addition, enter an Item Name that matches the name of the Auto Attendant's "Advanced Call Routing" name. The workgroup extension information you specify in the rule must also be entered when Call Router logs on in the Monitor window. Thus, it is a **requirement** to use the same virtual agent extension if you are writing several different queue announcement rules.

 In MaxAdministrator, you must configure one of the Auto Attendant numbers to which Call Router is assigned to "Advanced Call Router."
Enter the same "Item Name" you use in the rule discussed immediately above. 2) Replace the "No Action" level with "Call – to Ext./Workgroup," and enter the workgroup extension number. For further information on configuring Auto Attendants, see the MAXCS Admin Manual and the AltiAPI Programmer Guide.

If your organization has multiple workgroups and you want queue announcement for several or all of them, you must create separate rules for each, with workgroup extension information pertinent to each workgroup.

#### **Example:**

Suppose you use virtual extension 700 to log in to Call Router, and you have two workgroups, Sales and Support, with the following agent and workgroup extensions:

	Sales	Support
Workgroup extension number	500	600
Call Router virtual extension number	700	700

For both workgroups, you want Call Router to check incoming calls for Caller ID and IVR Path, and to play the WG queue status if a match is found and all agents are busy.

In MaxAdministrator, you configure the Auto Attendant to which Call Router is assigned as shown below. (The example uses Auto Attendant 2.) Note that you must enter a different Item Name for each level.

O - expand tree D - 1 - data routing 700 (Queue Sales) & - to extension 500	Item D1 Item Name Queue Sales
2 - data routing 700 (Queue Support) 4 - to extension 600 3 - no action 4 - no action 5 - no action 6 - no action 7 - no action 9 - no action 9 - no action 0 - to operator * - repeat level # - mailbox access T - to operator	Prompt   Image: Constraint of the second s
Hide 'No Action' Items	OK Cancel Apply Help

For Sales, you create a rule as shown below.

Rule					×
Rule Name:					
Queue Announcement	t Sales				
1. Build the Conditions for	your rule:				
If Caller Info contains:		Match one o	of these items	<b>_</b>	
		1			
Item	Data		DSN		
Caller ID	510252	21001			
IVR Data					
✓ ItemName	Queue	Sales			
Dnis Dnis					
				•	
2. Target action of the Ru	le:				
Play WG Queue Status		<b>_</b>	WG Num:	600	
Warning: To make this workgroup to Call Rout			ake sure that yo	u add this	
🔲 Set Call Priority 🧧	- 	🗖 Set	Call SKLR 5		
User Data:					
Push UBL:					
Prompt:					
If you input more than	1 promp	t,please use "	;" as separator.		
OK		Cancel		Help	

Similarly, for Support, you create a rule as shown below.

Rule		E.		
Rule		X		
Rule Name:				
Queue Announcemen	t Support			
1.0.100 0.000				
1. Build the Conditions for your rule:				
If Caller Info contains:	Match one o	f these items 📃 💌		
Item	Data	DSN		
Caller ID	1 bata	1 0011		
VR Path				
🗹 IVR Data				
ItemName	Queue Support			
Dnis Dnis				
•		•		
2. Target action of the Ru	le:			
Play WG Queue Statu	s 💌	WG Num: 600		
Warning: To make this workgroup to Call Rou		ake sure that you add this		
Set Call Priority	Set I	Call SKLR 5		
User Data:				
Push LIBL ·				
Prompt:				
If you input more than	1 prompt,please use ",	;" as separator.		
ОК	Cancel	Hala		
UK	Lancel	Help		

In the Monitor window, click **Add** to log on to Sales, entering both the workgroup extension & password and the virtual extension & password you specified in the "Auto Attendant Sales Queue Announcement" rule:

#### Additional Advanced Call Router Features

D     Agents     Longest Idle T     Service Level     Queue     Average D       500     10     00:00:30(105)     100     0     00:00:00       500     12     00:00:30(104)     100     0     00:00:00	roldy as
Add Delete Update every 10 secon	nds
Change Default Wait Time Change Start Calculate Cal	l Count

Log on Work Group	×
WorkGroup ID:	Password:
600	
Extension ID:	Extension Password:
301	
Default Wait Time in Queue: 3 (minutes)	
StartCalculationCallCount :	
10	
	OK Cancel

In the Monitor window, click **Add** to log on to Support, entering both the workgroup extension & password and the virtual extension & password you specified in the "Auto Attendant Sales Queue Announcement" rule:

Log on Work Group	×
WorkGroup ID:	Password:
500	
Extension ID:	Extension Password:
301	
Default Wait Time in Queue:	
3 (minutes)	
StartCalculationCallCount :	
10	
	OK Cancel

The Monitor window shows that Call Router is logged on to both workgroups. Calls to each workgroup will be checked against the rules and will trigger a queue announcement if a match is found and all agents are busy.

M	onito	r(France	:)				X
٧	Vork (	Group Sta	tus:				
	ID	Agents	Longest Idle T	Service Level	Queue	Average Delay	
	500 600	10 12	00:00:30(105) 00:00:30(104)	100 100	0 0	00:00:00 00:00:00	
	•						▶
	A	.dd	Delete	Update ev	ery 10	) seconds	
	Ch	ange Def	ault Wait Time	Change	e Start Ca	lculate Call Count	
					Hide	Help	

# **Testing Call Router**

To test the performance of Call Router, you can access a test tool from the Call Router main menu. Call Router must be stopped in order to run the test.

#### To test Call Router:

1. With Call Router function stopped, go to **Test** in the Tool drop-down list of the Call Router main menu for the **Test** dialog box.

Test			X
Configuration			
Number of concurrent calls:	3	÷	
Interval between calls:	10	3	seconds
Number of test cycles:	100	-	
Result			
Total calls:	0		
Average response time per call:	0		seconds
Start Stop		Car	ncel

- 2. In the **Configuration** fields, you can input the following test parameters:
  - Number of concurrent calls
  - Interval between calls
  - Number of test cycles

For example, inputting **5** for *concurrent calls*, **3** for *interval between calls*, and **4** for *test cycles* means that every 3 seconds, there will be 5 concurrent call requests to Call Router. Total cycles of concurrent requests will be 4 times.

3. After inputting the test parameters, click **Start**. During the test, you can click **Stop** to stop the test. The title of the **Test** dialog box will be shown as "*Test*(*Started*)" while running.

T	est(Started)		×
	_ Configuration		
	Number of concurrent calls:	5	
	Interval between calls:	3	seconds
	Number of test cycles:	4	
	Result		
	Total calls:	5	
	Average response time per call:	1.105	seconds
	Start Stop	Ca	ncel

The total calls processed and average time per call will be updated in real-time during the test. You will know how many calls were processed and the average response time per call at that time.

4. After the test has finished, the title of the **Test** dialog box will be shown as "*Test(Stopped)*."

T	est(Stopped)		×
	_Configuration		
	Number of concurrent calls:	3	
	Interval between calls:	3 📑 sec	onds
	Number of test cycles:	4	
	Result		
	Total calls:	20	
	Average response time per call:	0.694 sec	onds
	Start Stop	Cancel	

5. The **Total calls** that Call Router processed and **Average response time per call** of this test will be shown in the **Result** fields.

# **Testing SQL Server Database**

To test SQL server database access performance of Call Router:

1. Add a database for the SQL server.

For example, for a database "calldb" and table name "RTMCALL", 10,000 records are added to the table.

NodeID	SezzionID	InternalCall	Direction	StartTine	EndTime	CallerType	CallerPad
	1039470405	0	2	1039575519	1039575521	12	0223
1	1039470406	0	2	1039575527	1039575529	12	0223
1	1039470407	0	2	1039575535	1039575537	12	0223
1	1039470408	0	2	1039575543	1039575545	12	0223
1	1039470409	0	2	1039575551	1039575553	12	0223
1	1039470410	0	2	1039575559	1039575561	12	0223
1	1039470411	0	2	1039575567	1039575569	12	0223
1	1039470412	0	2	1039575575	1039575577	12	0223
1	1039470413	0	2	1039575583	1039575585	12	0223
1	1039470414	0	2	1039575591	1039575593	12	0223
1	1039470415	0	2	1039575599	1039575601	12	0223
1	1039470416	0	2	1039575607	1039575609	12	0223
1	1039470417	0	2	1039575615	1039575617	12	0223
1	1039470418	0	2	1039575623	1039575625	12	0223
1	1039470419	0	2	1039575631	1039575633	12	0223
1	1039470420	0	2	1039575639	1039575641	12	0223
1	1039470421	0	2	1039575647	1039575649	12	0223
1	1039470422	0	2	1039575655	1039575657	12	0223
1	1039470423	0	2	1039575663	1039575665	12	0223
1	1039470424	0	2	1039575671	1039575673	12	0223
1	1039470425	0	2	1039575679	1039575681	12	0223
1	1039470426	0	2	1039575687	1039575689	12	0223
1	1039470427	0	2	1039575695	1039575697	12	0223
1	1039470428	0	2	1039575703	1039575705	12	0223

**Note:** Because the data of DDR request has been hard coded, if you want a rule match, you need to add the record to the table. The caller ID of test request will be "1039470405." IVR Path of test request will be "0&9."

To use the "SessionId" field in the table to match caller ID of the request, you must add a record to the table and set the SessionId value to "1039470405". Then during match process, the matched result will be true.

2. Add a data source to "ODBC" configuration in Windows.

E	ODBC Data Sourc	e Administr <mark>ato</mark> r		? ×
	Tracing User DSN	Connection System DSN	n Pooling     File DSN	About Drivers
	AltiRTMCall Mice AltiRTMStat Mice LocalServer SQL test Mice		b) b)	Add <u>R</u> emove
	🛛 🎑 the indi	BC System data source sto cated data provider. A Sy machine, including NT set	ystem data source is	

The "TestSQL" is the newly added data source. This data source is connected to the SQL server's "calldb" database.

3. In Call Router, add a rule to access database.

SN Name:	User N	ane:	Password:
testsql	5 a		**
Condition —			
Caller ID	Field Type	Field Name	Table Name
Caller ID	char	sessionid	rtmcall
Where			<u>×</u>
Data Retrieve	from User Databa	59	
Input the fiel value from dat		type, server wil	
Input the fiel value from dat Field Name	ld name and field tabase Field Type	type, server wil Table	I get the field
Input the fiel value from dat	ld name and field tabaze	type, server wil	
Input the fiel value from dat Field Name	ld name and field tabase Field Type	type, server wil Table	
Input the fiel value from dat Field Name	ld name and field tabase Field Type	type, server wil Table	
Input the fiel value from dat Field Name	ld name and field tabase Field Type	type, server wil Table	I get the field
Input the fiel value from dat Field Name callerpad	Id name and field tabase Field Type char	type, server wil Table	I get the field
Input the fiel value from dat Field Name callerpad SQL Query Sen' Select rtmca	Id name and field tabase Field Type char	type, server wil Table rtncall	

You can change the rule configuration to fit your own conditions.

During the test, Call Router will use this rule to match the DDR request. When using this rule, Call Router will access the SQL server to execute the SQL query.