

Advanced Call Router™ Manual

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AltiGen Communications, Inc. 4555 Cushing Blvd. Fremont, CA 94538 Telephone: 510-252-9712 Fax: 510-252-9738 E-mail: info@altigen.com Web site: www.altigen.com

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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 6.0 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.

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To Configure/Run Advanced Call Router

1. Launch Call Router from the Windows Start menu.

| eration <u>V</u> iew <u>T</u> ool <u>H</u> elp | | | | | | | |
|--|-----------|----------|--------------|------|------------------------|-------------|--|
| 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 | | VerifyCaseNumFinAgMon | 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 Action | |
| 09:53:28-09/28/2006 | | 1e&1& | dealerid=12 | | Default Routing | No Action | |
| 09:08:59-09/28/2006 | | 1e&1& | dealerid=12 | | Default Routing | No Action | |
| 09:03:38-09/28/2006 | 192.168 | 1e&1& | dealerid=11 | | Default Routing | No Action | |
| 08:35:36-09/28/2006 | | 1e&1& | dealerid=11 | | Default Routing | No Action | |
| 08:01:56-09/28/2006 | | 1e&1& | dealerid=12 | | Default Routing | No Action | |
| 07:23:28-09/28/2006 | | 1e&1& | dealerid=12 | | Default Routing | No Action | |
| 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 Action | |
| 12-41-00 00/10/2000 | 0 | 20111 | do slorid=11 | | ContEindAgont | Call to Eur | |
| • | | | | | | | |

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.



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

| Logon Info | × |
|-----------------------------|---|
| 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.

| Router Rule | e List | | | × |
|--|---|--|---|----------------------|
| Rules List: | | + + | | |
| Name Sales Servic QA De Test | Condition When Item Name is Sales De When Item Name is Service When Item Name is QA Dep When Caller ID is 777 | Target Action Play Work Grou Play Work Grou Play Work Grou Call to Extension | Target Data 399 398 397 313 | Add Modify |
| - | | | <u> </u> | 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 | 1 |
|--|---|
| 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 $\overset{0,0}{\sim}$ as separator. | |
| OK Cancel | |

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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.

5

| Rule |
|---|
| Rule Name: |
| Queue Announcement Sales |
| 1. Build the Conditions for your rule: |
| If Caller Info contains: Match one of these items |
| |
| Item Data DSN |
| Caller ID 5102521001 |
| IVR Path |
| IVR Data ItemName Queue Sales |
| |
| |
| |
| 14 |
| |
| 2. Target action of the Rule: |
| - |
| Call to Extension/WorkGroup Ext Num: 300 |
| |
| |
| 🗖 Set Call Priority 5 🚔 📄 Set Call SKLR 5 🚔 |
| User Data: |
| |
| Push URL: |
| Prompt: |
| If you input more than 1 prompt, please use $\overset{(\prime,\prime)}{\sim}$ 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.
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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 | | | × |
|------------------|---------|---------|---|
| Please input tag |) name: | | |
| | | | |
| Min Digits: | 1 | | |
| Max Digits: | 1 | | |
| PSTN Timeout: | 1 | seconds | |
| Web Timeout: | 1 | seconds | |
| | | | |
| | | | |
| | DK | 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.
 - 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

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| Select Columns | × |
|------------------------------|---------------------------------------|
| Select columns that will app | bear 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 AltiServ 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 | Tool | Help | Call Router | History: | |
|---|---------------------------------|------|-----------|----------------|-----------|------|
| Γ | TimeStamp | | Caller ID | IVR Path | IVR Data | Dnis |
| L | 16:09:41-10/0: 16:09:30 10/0 | 2000 | | 20&1& 1c&1& | dealerid= | |

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 AltiServ, 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 Vi | iew | <u>T</u> ool <u>H</u> elp | | | | | | |
|---------------------------|-----|---------------------------|----------------|------------------------|------|---|---|-----------------------|
| | | | | Call Router Histo | ry: | _ | | |
| mp | | Caller ID | IVR Path | IVR Data | Dnis | | Matching Record | Result 🔺 |
| -10/09/200)-10/09/200 | | | 20&1& 1e&1& | dealerid= dealerid= | | | VerifyCaseNumFinAgMon VerifyDealerId_1stTime | 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**.

| M | onito | r(France | :) | | | | × |
|---|------------------|--------------------|--|-----------------------------|-----------------|---------------------------------------|---|
| ٧ | Vork I | Group Sta | tus: | | | | |
| | 1D 500 600 | Agents 10 12 | Longest Idle T 00:00:30(105) 00:00:30(104) | Service Level 100 100 | Queue O O | Average Delay 00:00:00 00:00:00 | |
| | | | | | | | |
| | • | | | | | | ▶ |
| | A | \dd | Delete | Update ev | ery 10 |) seconds | |
| | Cł | iange Def | ault Wait Time | Change | e Start Ca | lculate 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.

| Condition —— | | | |
|-------------------|--|-----------------------------------|---------------------|
| Caller ID | Field Type | Field Name | Table Name |
| Caller ID | char | | |
| | | | |
| | 1 | 1 | |
| Where | | | |
| | | | |
| | rom User Database - ame and field type.se | erver will get the field | value from database |
| Input the field n | ame and field type,se | erver will get the field | value from database |
| | | erver will get the field Table | value from database |
| Input the field n | ame and field type,se | | value from database |
| Input the field n | ame and field type,se | | value from database |
| Input the field n | ame and field type,se | | value from database |
| Input the field n | ame and field type,se | | value from database |
| Input the field n | ame and field type,se | | value from database |
| Input the field n | ame and field type,se | | value from database |
| Input the field n | ame and field type,se | | value from database |

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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.

| □ • 0 • expand tree 1 • data routing 7.00 [Queue Sales] 2 • data routing 7.00 [Queue Support] 2 • data routing 7.00 (Queue Support) 4 • no action 5 • no action 6 • no action 7 • no action 8 • no action 9 • no action 9 • no action 0 • to operator * • repeat level # • mailbox access T • to operator | Item 01 Item Name Queue Sales Prompt > Push URL > Set Call Priority > Set Call SKLR > Set Call SKLR > Actions Adv. • Advanced Call Router Ext Num 700 - Call Router > Timeout 7 seconds The third-party application must login as a VIRTUAL extension. If system could not connect to the application, AA will go to the next level. |
|---|--|
| Hide 'No Action' Items | OK Cancel Apply Help |

For Sales, you create a rule as shown below.

| Rule | | | x | | |
|---|--------------------------|----------------------------|---|--|--|
| Rule Name: | | | | | |
| Queue Announcemen | Queue Announcement Sales | | | | |
| 1. Build the Conditions for | your rule: | | | | |
| If Caller Info contains: | Match one o | f these items | | | |
| | , (- | | | | |
| Item | Data | DSN | | | |
| Caller ID | 5102521001 | | | | |
| IVR Data | | | | | |
| ✓ ItemName | Queue Sales | | | | |
| Dnis Dnis | | | | | |
| | | | | | |
| | | | | | |
| • | | • | | | |
| 2. Target action of the Ru | le: | | | | |
| Play WG Queue Statu: | | WG Num: 600 | | | |
| Flay with Queue Status | | Wa Wall. 1000 | | | |
| Warning: To make this workgroup to Call Roul | | ake sure that you add this | | | |
| 🔲 Set Call Priority 5 | 🗾 🔽 Set (| Call SKLR 5 | | | |
| User Data: | | | | | |
| Push UBL: | | | | | |
| Prompt: | | | | | |
| i rompe. | | | | | |
| If you input more than | 1 prompt,please use ", | ," as separator. | | | |
| OK | Cancel | Help | | | |

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

| Rule | | | × | | |
|---|----------------------------|-----------------------------|---|--|--|
| Rule Name: | | | | | |
| Queue Announcemen | Queue Announcement Support | | | | |
| 1. Build the Conditions for your rule: | | | | | |
| If Caller Info contains: | | | | | |
| in Caller Into Contains. | Match one | of these items | | | |
| Item | Data | DSN | | | |
| Caller ID | | | | | |
| □ IVR Path ■ IVR Data | | | | | |
| ✓ ItemName | Queue Support | | | | |
| Dnis D | | | | | |
| | | | | | |
| | | | | | |
| | | ► | | | |
| 2. Target action of the Ru | le: | | | | |
| - | | WG Num: 600 | | | |
| Play WG Queue Statu: | s 💌 | wa num: 1000 | | | |
| Warning: To make this workgroup to Call Rout | | nake sure that you add this | | | |
| Set Call Priority 5 | Set | t Call SKLR 5 | | | |
| User Data: | | | | | |
| Durk UDL | | | | | |
| | Push URL: | | | | |
| Prompt: | | | | | |
| If you input more than | n 1 prompt,please use ' | ";" as separator. | | | |
| | _ | | | | |
| OK | Cancel | 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

| onito | r(France | :) | | | | × |
|------------|-----------|--------------------------------|----------------|------------|----------------------|---|
| Work (| 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 | |
| | | | | | | |
| | | | | | | |
| | | | 1 | | | F |
| A | .dd | Delete | ⊐ Update ev | ery 10 |) seconds | _ |
| Ch | ange Def | ault Wait Time | Change | e Start Ca | lculate Call Count | |
| | | | | Hide | Help | |

| Log on Work Group | × |
|-----------------------------|---------------------|
| WorkGroup ID: | Password: |
| 600 | |
| Extension ID: | Extension Password: |
| 301 | |
| Default Wait Time in Queue: | |
| 3 (minutes) | |
| StartCalculationCallCount : | |
| 10 | |
| | DK 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 | I |
| 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 | :) | | | | × |
|---|------------|-----------|--------------------------------|---------------|------------|----------------------|---|
| V | Vork (| Group Sta | tus: | | | | |
| | ID | Agents | Longest Idle T | Service Level | Queue | Average Delay | |
| | 500 600 | | 00:00:30(105) 00:00:30(104) | 100 100 | 0 0 | 00:00:00 00:00:00 | |
| | | | | | | | |
| | | | | | | | |
| | • | | | 1 | | | ▶ |
| | A | dd | Delete | Update ev | ery 10 |) seconds | |
| | Ch | ange Def | ault Wait Time | Change | e Start Ca | Iculate 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 | | × |
|---------------------------------|-----|---------|
| Configuration | | |
| Number of concurrent calls: | 3 | 3 |
| Interval between calls: | 10 | seconds |
| Number of test cycles: | 100 | 3 |
| - Result | | |
| Total calls: | 0 | |
| Average response time per call: | 0 | seconds |
| Start Stop | | Cancel |

- 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 | 5 | |
| | lotal calls. Average response time per call: | 1. 105 | seconds |
| | Start Stop | Ca | ancel |

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) | X |
|---|---------------------------------|---------------|
| | Configuration | |
| | Number of concurrent calls: | 3 |
| | Interval between calls: | 3 📑 seconds |
| | Number of test cycles: | 4 |
| | Result | |
| | Total calls: | 20 |
| | Average response time per call: | 0.694 seconds |
| | 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 | StartTime | EndTime | CallerType | CallerPad | |
|--------|------------|--------------|-----------|------------|------------|------------|-----------|--|
| 1 | 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.

| Ę | <mark>100BC</mark> Data Sourc | e Administr <mark>ato</mark> r | | ? × |
|---|--|---|---------------------|------------------|
| | Tracing User DSN | Connection System DSN | Pooling File DSN | About Drivers |
| | AltiRTMCall Micr AltiRTMStat Micr LocalServer SQL test Micr | | 2) 2) | Agd Remove |
| | 🛛 🎑 the indi | 3C System data source sto cated data provider. A Sy machine, including NT ser | stem 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 | ame: | Password: |
|--|---|---|------------------|
| testsql | 54 | | ** |
| Condition — | | | |
| Caller ID | Field Type | Field Name | Table Name |
| Caller ID | char | sessionid | rtmcall |
| | | | |
| Where | | | |
| aver a | | | |
| | | | |
| | 6 N N 1 | | I |
| Data Retrieve | e from User Databe 1d name and field | | Il get the field |
| Data Retrieve Input the fie | d name and field | l type, server wi | Il get the field |
| Data Retrieve Input the fie value from da Field Name | ld name and field tabase Field Type | l type, server wi Table | Il get the field |
| Data Retrieve Input the fie value from da | ld name and field tabase | l type, server wi | Il get the field |
| Data Retrieve Input the fie value from da Field Name | ld name and field tabase Field Type | l type, server wi Table | Il get the field |
| Data Retrieve Input the fie value from da Field Name | ld name and field tabase Field Type | l type, server wi Table | Il get the field |
| Data Retrieve Input the fie value from da Field Name | ld name and field tabase Field Type | l type, server wi Table | Il get the field |
| Data Retrieve Input the fie value from da Field Name | ld name and field tabase Field Type | l type, server wi Table | Il get the field |
| Data Retrieve Input the fie value from da Field Name callerpad | ld name and field tabare Field Type char | l type, server wi Table | Il get the field |
| Data Retrieve Input the fie value from du <u>Field Name</u> callerpad SQL Query Ser Select rtmc | ld name and field tabase Field Type Char tence: | type, server wi | |
| Data Retrieve Input the fie value from du Field Name callerpad SQL Query Ser Select rtmc | ld name and field tabase Field Type char tance: | type, server wi | |
| Data Retrieve Input the fie value from du Field Name callerpad SQL Query Ser Select rtmc | ld name and field tabase Field Type Char tence: | type, server wi | |
| Data Retrieve Input the fie value from da Field Name callerpad SQL Query Ser Select rtmc Where rtmcal | ld name and field tabase Field Type Char char tence: all.sessionid.rtm L.sessionid = 0Ca | type, server wi Table rtmcall call.callerpad H llerID | |

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.

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