

Configure Database Connection Redirection to Enable Read-Only Queries

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V9.1

Overview

Starting with Cora SeSequence V8.8, you can configure the `ApplicationIntent` property to enable read-only database queries.

In a high-availability SQL solution, if you don't specify the `ApplicationIntent` property, the default mode is ReadWrite. When you set up the ApplicationIntent property for a data provider, the `ApplicationIntent` property is added to the connection string used to connect to the database, and enables read-only connection redirection for Always On availability groups. This feature is useful to improve system performance, and can be configured for any of the Cora SeSequence providers, such as portal view providers or providers used to retrieve read-only data.

In Cora SeSequence, the `ApplicationIntent` property is named `availabilityGroupRouting`.

Configuration

To enable read-only database queries, you first set up a read-only connection string property and then set the `availabilityGroupRouting` property to ReadOnly.

Property	Location in the Flowtime Web.config	Values
<code>readonlyConnectionString</code>	persistence > database	Same as the default database connection string
<code>availabilityGroupRouting</code>	persistence > providers >	ReadWrite (default) ReadOnly

Prerequisites

Before you configure the connection redirection, make sure that:

- Your SQL database setup supports connection redirection for Always On availability groups. For more information, see [this article](#).
- You have the SQL listener IP.

Enable connection redirection

1. Open the Flowtime `web.config` file.
2. Under the `persistence>database` section, add a new property named `readonlyConnectionString`.
3. In the `readonlyConnectionString` property, change the `data source` value to the SQL listener IP.
4. Under the `Persistence` section, locate the relevant provider.
5. Add the `availabilityGroupRouting` property at the end of the provider tag, and set it to **ReadOnly**.
6. Save the file.

Sample

```
readonlyConnectionString="MultipleActiveResultSets=true;initial catalog=DBName;persist security info=True;data source=SQLListenerIP;packet size=4096;" />  
  
availabilityGroupRouting="ReadOnly"  
" />
```

Disable the read-only query configuration

If required, you can disable the read-only connection redirection.

1. To disable the redirection configuration, do one of the following:
 - Delete the `availabilityGroupRouting` property.
 - Set the `availabilityGroupRouting` to **ReadWrite**.

V8.8

Overview

Starting with Cora SeSequence V8.8, you can configure the `ApplicationIntent` property to enable read-only database queries.

In a high-availability SQL solution, if you don't specify the `ApplicationIntent` property, the default mode is ReadWrite. When you set up the ApplicationIntent property for a data provider, the `ApplicationIntent` property is added to the connection string used to connect to the database, and enables read-only connection redirection for Always On availability groups. This feature is useful to improve system performance, and can be configured for any of the Cora SeSequence providers, such as portal view providers or providers used to retrieve read-only data.

Configuration

In Cora SeSequence, the `ApplicationIntent` property is named `availabilityGroupRouting`. When you add the `availabilityGroupRouting` property to a data provider, the resulting connection string for that provider is set to `ApplicationIntent={Value}`

Property	Location within Web.config	Default Value
<code>availabilityGroupRouting</code>	persistence > providers >	ReadWrite

Prerequisites

Make sure that your SQL database setup supports connection redirection for Always On availability groups.

For more information, see [this article](#).

Enable connection redirection

1. Open the Flowtime `web.config` file.
2. Under the `database provider` section, change the `data source` value to the SQL listener IP.
3. Under the `Persistence` section, locate the relevant provider.

4. Add the `availabilityGroupRouting` property at the end of the provider tag, and set it to **ReadOnly**.
5. Save the file.

Sample

Disable the read-only query configuration

If required, you can disable the read-only connection redirection.

1. To disable the redirection configuration, do one of the following:
2. Do one of the following:
 - Delete the `availabilityGroupRouting` property.
 - Set the `availabilityGroupRouting` to **ReadWrite**.