

NOTE: In this example these 3 components are installed on the local Windows machine so the IP Address 127.0.0.1 is being used throughout

However please note the comments after step 6 if no transaction appears about possible JVM use of IPv6 (0:0:0:0:0:0:0:1) instead of IPv4 (127.0.0.1)

- **Weblogic MedRec Application Server**
- **APM Enterprise Manager (EM)**
- **The client executing the MedRec Application**

1. The agent installed under the Weblogic MedRec AppServer requires profile changes as follows:

a. The **introscope.autoprobe.directivesFile** property must be updated to add these 2 pbd files:

bizrecording.pbd (for CEM agent recording)

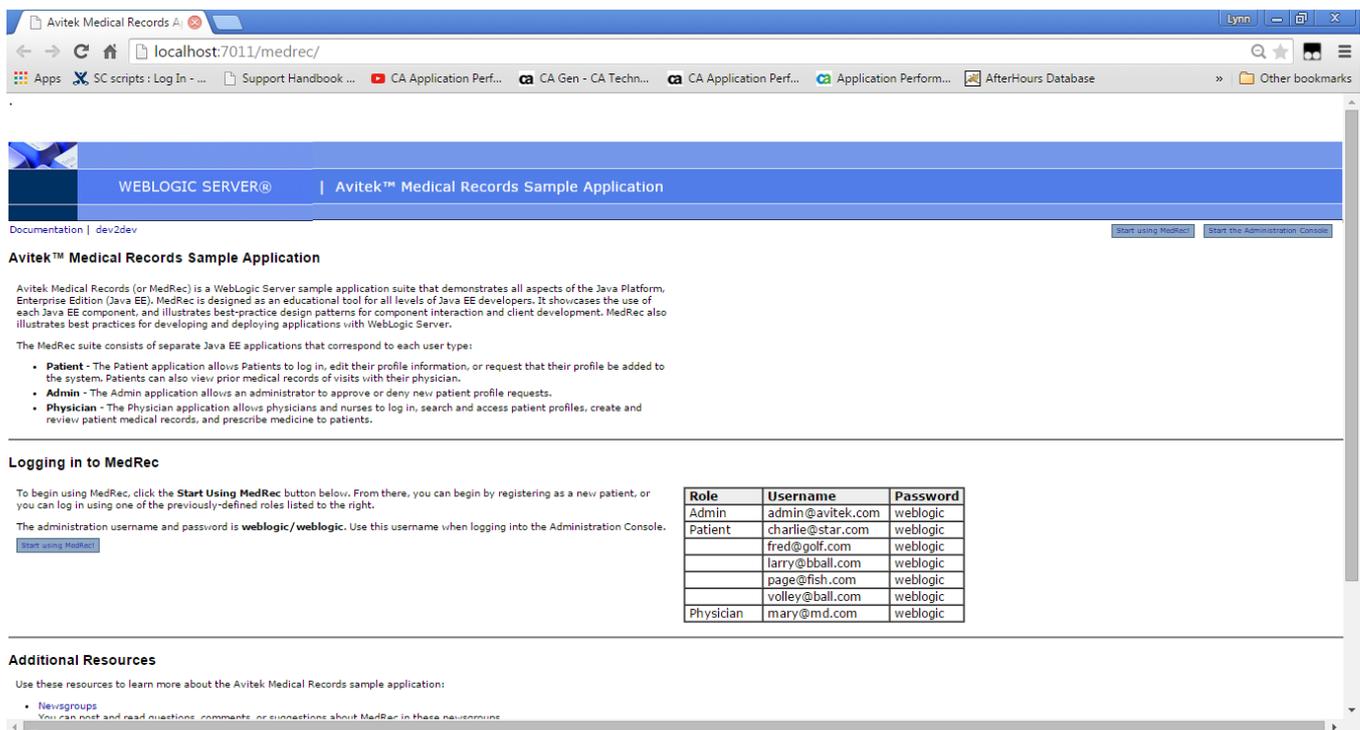
servletheaddecorator.pbd (for monitoring with CEM – Introscope integration).

NOTE: **httpheaderdecorator.pbd** is the .NET equivalent

b. Set **introscope.agent.decorator.enabled=true**

Recording Steps

2. Start the Weblogic MedRec Application Server and the Avitek Medical Records Sample Application page should automatically be opened:



Avitek Medical Records (or MedRec) is a WebLogic Server sample application suite that demonstrates all aspects of the Java Platform, Enterprise Edition (Java EE). MedRec is designed as an educational tool for all levels of Java EE developers. It showcases the use of each Java EE component, and illustrates best-practice design patterns for component interaction and client development. MedRec also illustrates best practices for developing and deploying applications with WebLogic Server.

The MedRec suite consists of separate Java EE applications that correspond to each user type:

- **Patient** - The Patient application allows Patients to log in, edit their profile information, or request that their profile be added to the system. Patients can also view prior medical records of visits with their physician.
- **Admin** - The Admin application allows an administrator to approve or deny new patient profile requests.
- **Physician** - The Physician application allows physicians and nurses to log in, search and access patient profiles, create and review patient medical records, and prescribe medicine to patients.

Logging in to MedRec

To begin using MedRec, click the **Start Using MedRec** button below. From there, you can begin by registering as a new patient, or you can log in using one of the previously-defined roles listed to the right.

The administration username and password is **weblogic/weblogic**. Use this username when logging into the Administration Console.

Role	Username	Password
Admin	admin@avitek.com	weblogic
Patient	charlie@star.com	weblogic
	fred@golf.com	weblogic
	larry@bbail.com	weblogic
	page@fish.com	weblogic
	volley@ball.com	weblogic
Physician	mary@md.com	weblogic

Additional Resources

Use these resources to learn more about the Avitek Medical Records sample application:

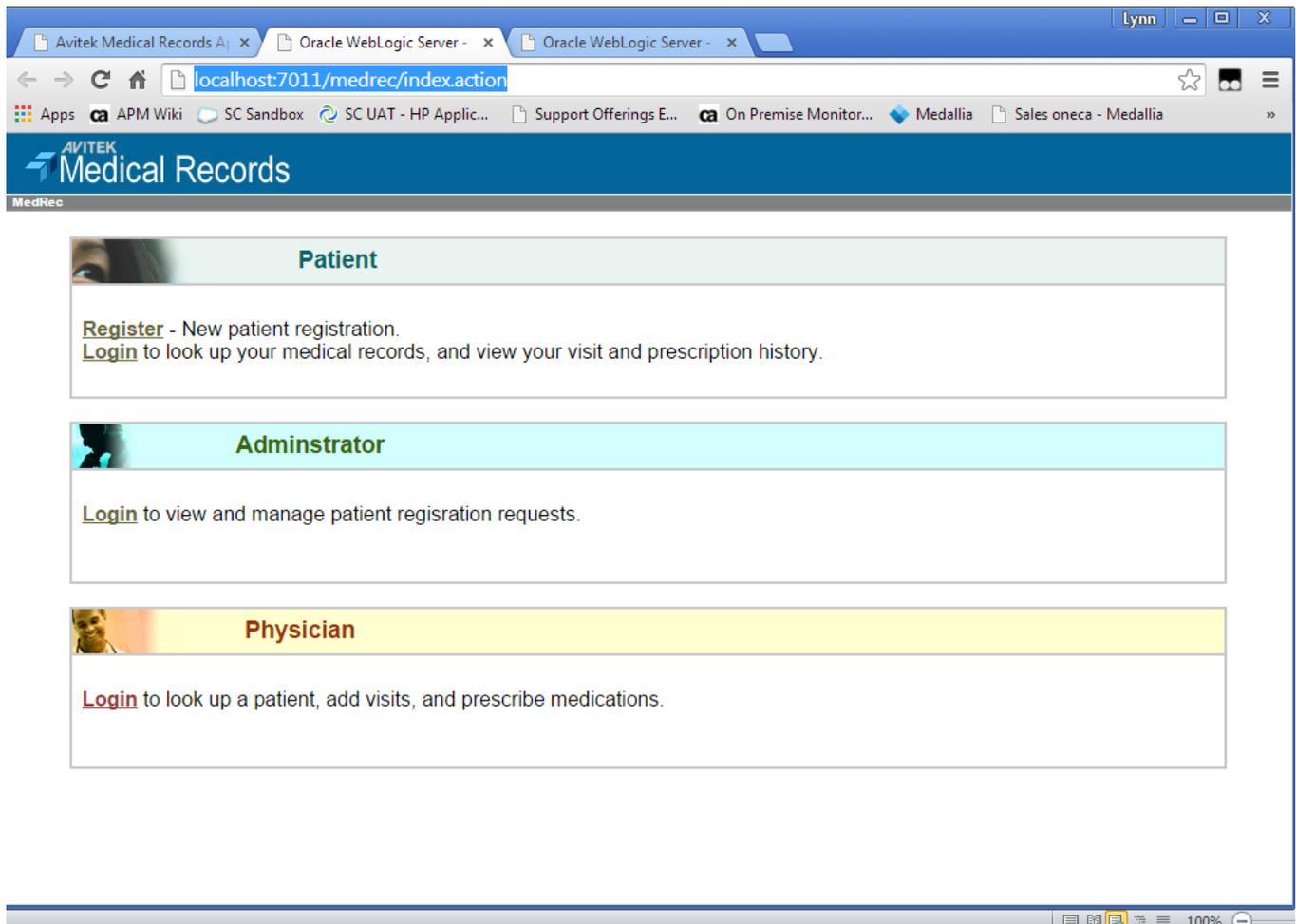
- [Newsgroups](#)

You can post and read questions, comments, or suggestions about MedRec in these newsgroups.

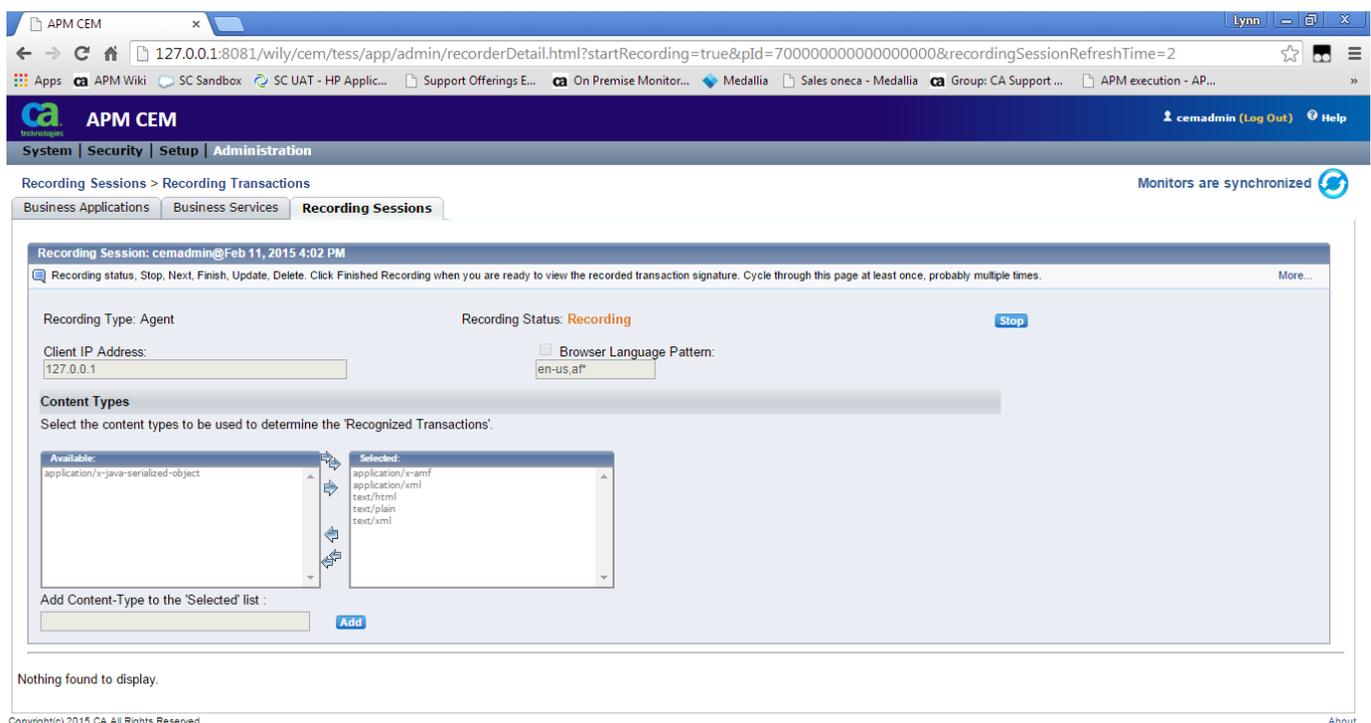
For additional information this is a useful reference URL:

http://docs.oracle.com/cd/E13222_01/wls/docs92/medrec_tutorials/overview.html

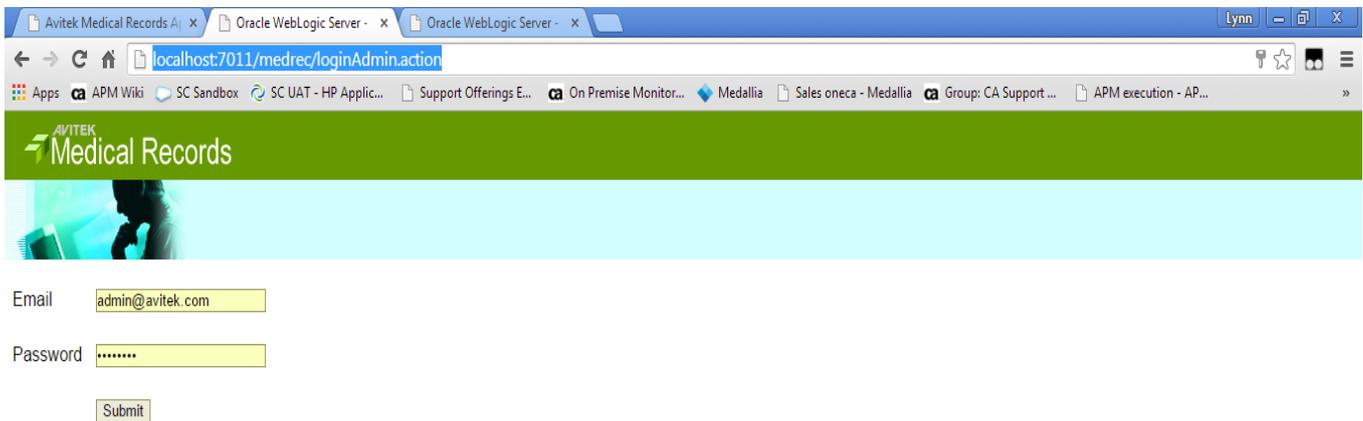
3. From the Avitek Medical Records Sample Application page use the “Start using MedRec!” link



4. Use CEM UI to create agent recording with default Agent Specifier “.*” & local client IP Address 127.0.0.1. Then start the recording:



5. As an example transaction execute the Administrator **'Login'** link to get to the Login page.



Avitek Medical Records

Email

Password

Enter username: **admin@avitek.com** , password= **weblogic**
Then execute the **'Submit'** button to login



AVITEK Medical Records

admin@avitek.com Logout

[View Pending Requests](#)

Approve/Deny patient registration requests.

6. In the CEM UI 2 URLs should appear, 1 for the Login page and 1 for the Submit button.

Recording Session: cemadmin@Jan 12, 2016 11:24 AM

Recording status, Stop, Next, Finish, Update, Delete. Click Finished Recording when you are ready to view the recorded transaction signature. Cycle through this page at least once, probably multiple times. More...

Recording Type: Agent Recording Status: **Recording** **Stop**

Client IP Address: 0.0.0.0:0.0:0.1 Browser Language Pattern: en-us.af

Content Types
Select the content types to be used to determine the 'Recognized Transactions'.

Available: application/x-java-serialized-object

Selected: application/x-amf, application/xml, text/html, text/plain, text/xml

Add Content-Type to the 'Selected' list: **Add**

Name	Content Type	HTTP Status Code	Method	Character Encoding	URL
/admin/home.jsp	text/html	200	POST	UTF-8	localhost:7011/medrec/loginAdmin.action
/loginAdmin.jsp	text/html	200	GET	UTF-8	localhost:7011/medrec/loginAdmin.action

NOTE: If no URLs are visible it may be due to the JVM (hosting the agent) starting on an IPv6 address instead of IPv4, so 127.0.0.1 used in step 3 for the Client IP Address does not match. If Agent DEBUG logging is enabled this type of entry should confirm those symptoms:

[DEBUG] [IntroscopeAgent.Agent] BizRecording component rejected Address=0:0:0:0:0:0:1 vs ClientIPFilter=127.0.0.1 Language=en-US vs LanguageFilter=

To resolve re-run with Client IP Address set to **0:0:0:0:0:0:1** or whatever **Address** value is shown the DEBUG log output.

Important:

- Use the **'Stop'** button to stop the recording which the recorder interprets as the transaction boundary.
- This allows the promotion of the recorded transaction as 1 Business Transaction. If this is not done then subsequent transactions/clicks will be incorrectly included as non-identifying parts of the same transaction, and will NOT be able to be promoted as a separate Business Transactions when the recording is finished.
- Then use **'Record Next Transaction'** button to record the next Business Transaction and again use the **'Stop'** button once it is complete
- After all transactions have been recorded use the **'Finished Recording'** button.
- This is the same approach as documented for the TIM Recorder e.g.

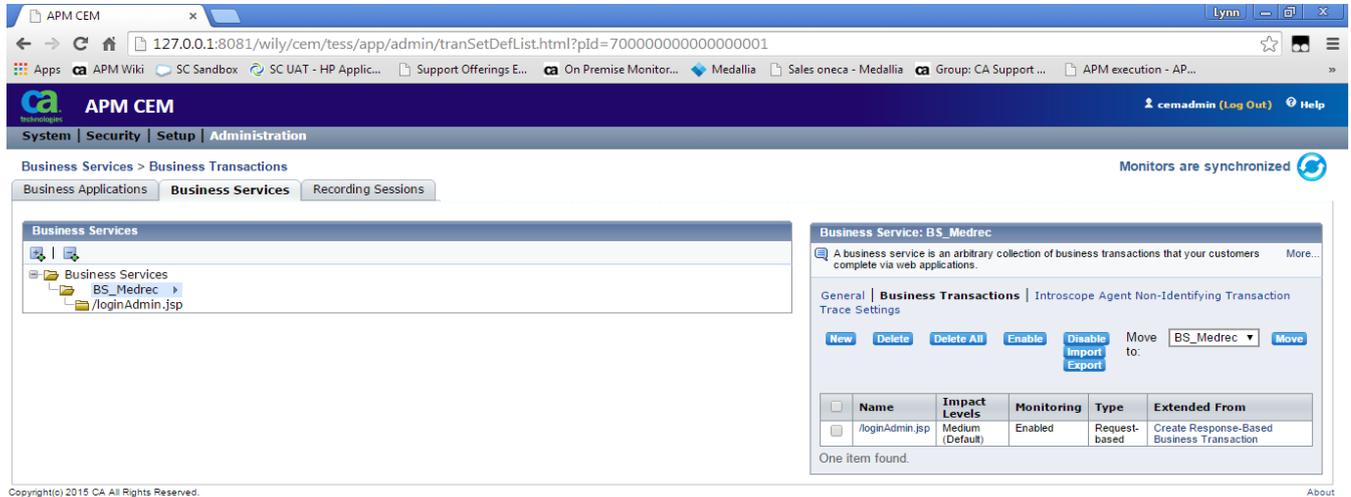
<https://docops.ca.com/ca-apm/10/en/extending/transaction-definition/recording-transaction-signatures/using-the-tim-recorder>

MONITORING STEPS

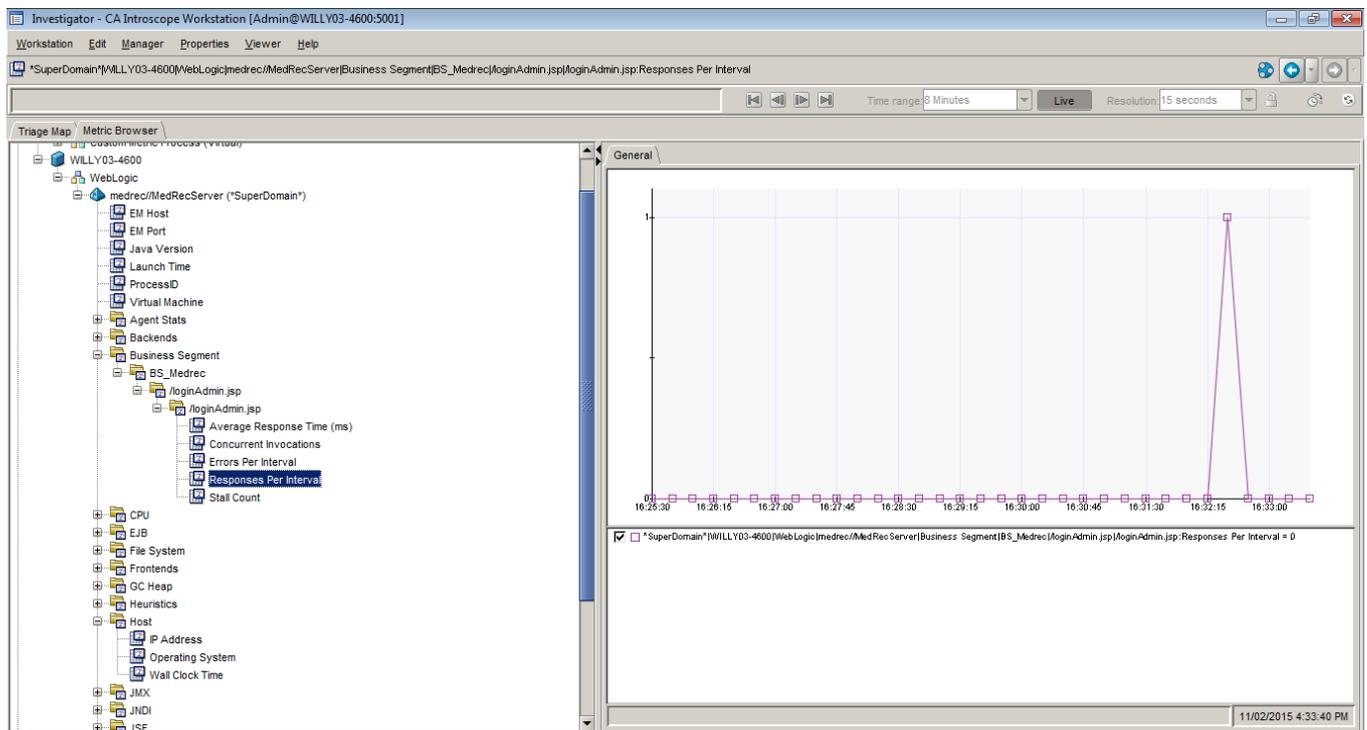
7a. Create Business Application BA_Medrec & Business Service BS_Medrec.

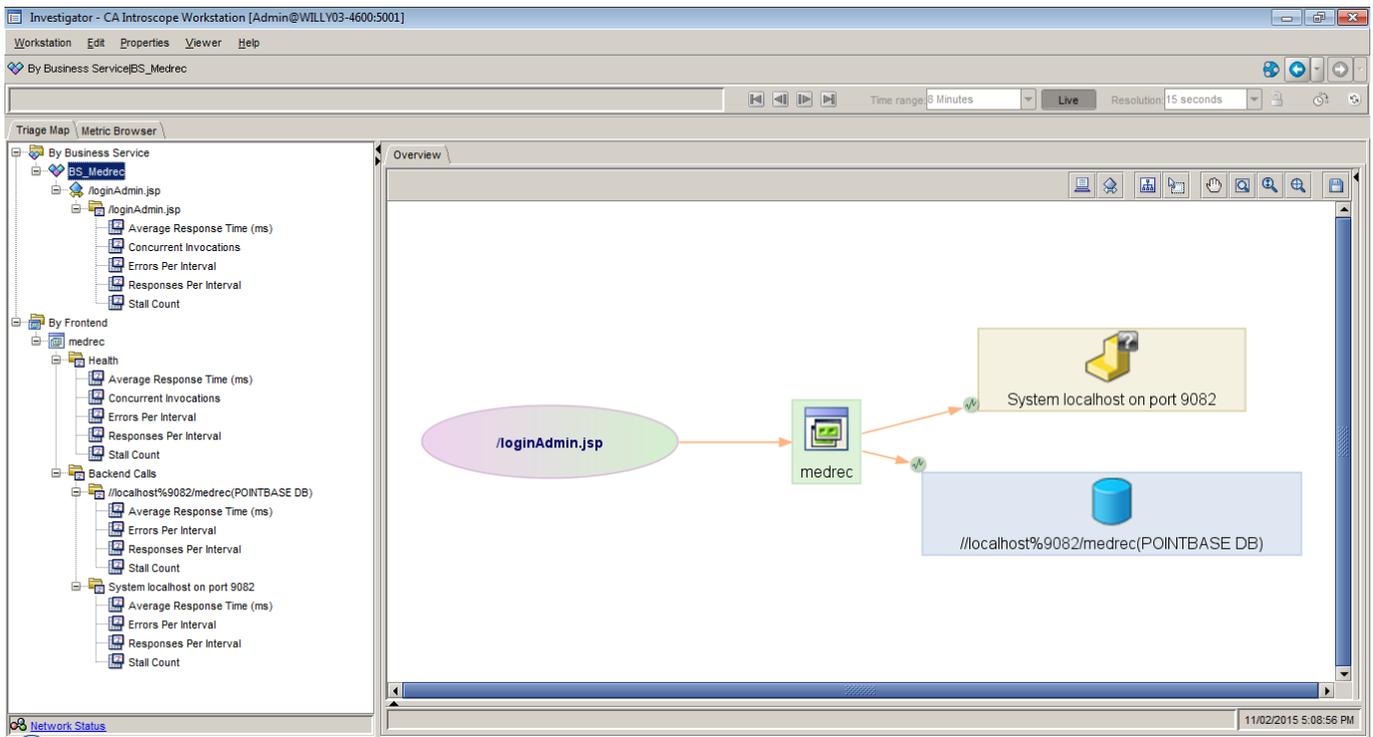
b. Promote the recorded Business Transaction to BS_Medrec, make any required adjustments to the Identification/Matching Parameters and enable it.

c. Synchronize the monitors so that agent starts to monitor the new Business Transaction



8. Execute the same transaction to see the CEM Business Segment for the Business Transaction appear in the Investigator Metric Browser and Triage Map





Additional Information:

To add the required pbd files there are 2 alternatives:

1. Uncomment (remove the '#' in front of) `servletheaddecorator.pbd` and `bizrecording.pbd` in `default-typical.pbd` (or `<app_server>-(default|typical).pbl`) - whichever you are using, check property `introscope.autoprobe.directivesFile` in `IntroscopeAgent.profile`
2. Manually add `servletheaddecorator.pbd` and `bizrecording.pbd` to the property `introscope.autoprobe.directivesFile` in `IntroscopeAgent.profile`

The first approach is suggested.