

Test Case

1.Start the 3 server and make 3 client connect to each

The screenshot displays three instances of the 'Web Services Test Client' application. Each window is configured with the URL `http://localhost:8080/StoreClientSample/sampleSPVMServerProxy/TestClient.jsp`. The 'Methods' list on the left of each window includes: `getEndpoint()`, `setEndpoint(java.lang.String)`, `getSPBServer()`, `run()`, `getRecordsCount(java.lang.String)`, `createMRRecord(java.lang.String,java.lang.String,java.lang.String)`, `createCRRecord(java.lang.String,java.lang.String,java.lang.String)`, `transferRecord(java.lang.String,java.lang.String,java.lang.String)`, `printData()`, and `editCRRecord(java.lang.String,java.lang.String,java.lang.String)`. The 'Inputs' field is empty, and the 'Result' field shows 'result: N/A'.

Web Services Test Client Web Services Test Client Web Services Test Client

/StoreClientSample/sampleSPVMServerProxy/TestClient.jsp

2.Click the printData() method on each, we have the initial data of the 3 server

```
CR30000 Shuangjiang Li |Old |capture
MR30000 Tianyi Li |1790 rue maricourt |Verdun |Tue Nov 05 22:16:32 EST 2013 |found
CR30001 Ge Meng |Young |capture
3
-----
CR20000 Zhengri Jin |Fat |capture
CR20001 RiCheng Jin |Fat |capture
MR20000 Zhengen Jin |1789 rue maricourt |jolicouer |Tue Nov 05 22:16:51 EST 2013 |found
3
-----
N01 1
N02 0
CR10001 Xiaoping Deng |Small |capture
MR10000 Zemin Jiang |1788 rue maricourt |Atwatar |Tue Nov 05 22:17:02 EST 2013 |found
CR10000 Zedong Mao |Tall |capture
3
-----
```

3. Click the CreateCR() to create CR record and click print method to check

Inputs

badgeID:

firstName:

lastName:

description:

status:

```
CR10001 Xiaoping Deng |Small |capture
MR10000 Zemin Jiang |1788 rue maricourt |Atwater |Tue Nov 05 22:24:33 EST 2013 |found
CR10000 Zedong Mao |Tall |capture
CR10002 Dan Zhang |high |capture
```

4. Click the CreateMR method to create MR record and click the print method to check

Inputs

badgeID:

firstName:

lastName:

address:

lastLocation:

lastDate1:

status:

```
CR10001 Xiaoping Deng |Small |capture
MR10000 Zemin Jiang |1788 rue maricourt |Atwater |Tue Nov 05 22:24:33 EST 2013 |found
CR10000 Zedong Mao |Tall |capture
CR10002 Dan Zhang |high |capture
MR10001 Dan Zhang |1755 motreal |montreal |Tue Nov 05 22:24:33 EST 2013 |found
```

5. Click the getCount method to get the total record count of the 3 server

Inputs

badgeID:

Result

6. Click the Transfer record on SPVM and transfer to SPL, check on both servers.

Inputs

badgeID:

recordID:

stationServerName:

Result

true

```
CR10001 Xiaoping Deng |Small |capture
MR10000 Zemin Jiang |1788 rue maricourt |Atwater |Tue Nov 05 22:39:15 EST 2013 |found
CR10002 Dan Zhang |high |onTheRun
MR10001 Dan Zhang |1755 montreal |1755 montreal |Tue Nov 05 22:39:19 EST 2013 |found
```

```
CR20000 Zhengri Jin |Fat |capture
CR20001 RiCheng Jin |Fat |capture
MR20000 Zhengen Jin |1789 rue maricourt |jolicouer |Tue Nov 05 22:24:31 EST 2013 |found
CR10000 Zedong Mao |Tall |capture
```

7. 3 Servers' log

```
1 Tue Nov 05 22:39:15 EST 2013 SPVM DataBase Start
2 -----
3 Tue Nov 05 22:39:15 EST 2013 SPVM UDPServer Start
4 Tue Nov 05 22:39:15 EST 2013 ID: SPVM2111 Add CRecord No10000 Zedong Mao Tall capture
5 -----
6 Tue Nov 05 22:39:15 EST 2013 ID: SPVM2112 Add CRecord No10001 Xiaoping Deng Small capture
7 -----
8 Tue Nov 05 22:39:15 EST 2013 ID: SPVM2113 Add MRecord No10000 Zemin Jiang 1788 rue maricourt Atwater Tue Nov 05 22:39:15 EST 2013 found
9 -----
10 Tue Nov 05 22:39:15 EST 2013 SPVM UDPServer Start
11 Tue Nov 05 22:39:43 EST 2013 ID: SPVM1234 Add CRecord No10002 Dan Zhang high capture
12 -----
13 Tue Nov 05 22:40:12 EST 2013 ID: SPVM1234 Add MRecord No10001 Dan Zhang 1755 montreal 1755 montreal Tue Nov 05 22:39:19 EST 2013 found
14 -----
15 Tue Nov 05 22:40:27 EST 2013 ID: SPVM1234: Client Request for getting the total count SPVM
16 Tue Nov 05 22:40:27 EST 2013: Send Count Request to SPL
17 Tue Nov 05 22:40:27 EST 2013: Receive Reply from SPL
18 Tue Nov 05 22:40:27 EST 2013: Send Count Request to SPB
19 Tue Nov 05 22:40:27 EST 2013: Receive Reply from SPB
20 -----
21 Tue Nov 05 22:40:46 EST 2013 ID: SPVM1234Edit CRecord Zhang CR10002 to onTheRun
22 Tue Nov 05 22:41:08 EST 2013: Send Transfer Request to SPL
23 Tue Nov 05 22:41:08 EST 2013: Receive Reply from SPL
24 Tue Nov 05 22:41:08 EST 2013: ID: SPVM1234 Transfer Record CR10000 to SPL
25
```

```
1 Tue Nov 05 22:39:17 EST 2013 SPL DataBase Start
2 -----
3 Tue Nov 05 22:39:17 EST 2013 SPL UDPServer Start
4 Tue Nov 05 22:39:17 EST 2013 ID: SPL2111 Add CRecord No20000 Zhengri Jin Fat capture
5 -----
6 Tue Nov 05 22:39:17 EST 2013 ID: SPL2111 Add CRecord No20001 RiCheng Jin Fat capture
7 -----
8 Tue Nov 05 22:39:17 EST 2013 ID: SPL2111 Add MRecord No20000 Zhengen Jin 1789 rue maricourt jolicouer Tue Nov 05 22:39:17 EST 2013 found
9 -----
10 Tue Nov 05 22:39:17 EST 2013 SPL UDPServer Start
11 Tue Nov 05 22:40:27 EST 2013: Receive 1Request Count from SPVM
12 Tue Nov 05 22:40:27 EST 2013: Send Count 3 to SPVM
13 Tue Nov 05 22:41:08 EST 2013: Receive 2SPVM1234 CR10000|Zedong|Mao|Tall|capture
14 Tue Nov 05 22:41:08 EST 2013: Receive Transfer ID: SPVM1234 Transfer CRecord CR10000|Zedong|Mao|Tall|capture
15 Tue Nov 05 22:41:08 EST 2013: Transfer Done
16
```

```
1 Tue Nov 05 22:39:19 EST 2013 SPB DataBase Start
2 -----
3 Tue Nov 05 22:39:19 EST 2013 ID: SPB2111 Add CRecord No30000 Shuangjiang Li Old capture
4 -----
5 Tue Nov 05 22:39:19 EST 2013 ID: SPB2111 Add CRecord No30001 Ge Meng Young capture
6 -----
7 Tue Nov 05 22:39:19 EST 2013 ID: SPB2111 Add MRecord No30000 Tianyi Li 1790 rue maricourt Verdun Tue Nov 05 22:39:19 EST 2013 found
8 -----
9 Tue Nov 05 22:39:19 EST 2013 SPB UDPServer Start
10 Tue Nov 05 22:40:27 EST 2013: Receive 1Request Count from SPVM
11 Tue Nov 05 22:40:27 EST 2013: Send Count 3 to SPVM
12
```