[HBase-9821](https://www.google.com/url?q=https://issues.apache.org/jira/browse/HBASE-9821&sa=D&source=editors&ust=1751363081437752&usg=AOvVaw20eCV4UO_UmdspBotV0DKQ)

**Scanner id could collide**

**(1)  Log information**

**(1.1) Roles in this case**

HBase Client (client-side)            HRegionServer (server-side)

**(1.2) Symptoms**

The client uses scanner to access the data on HRegionServer (RS) through the RPC communication. RS will assign a unique scanner id for the client. To make sure the data got from RS is complete, both client and RS will maintain a field “nextCallSeq”. The client and RS will use “nextCallSeq” to verify the data sequence number.

“When a region server restarts quickly, we could run into some scanner id collision issue. In one of my run:”   (the log comes from RS)

2013-10-21 22:43:09,071 INFO  [RpcServer.handler=2,port=36020] regionserver.HRegionServer: Client tried to access missing scanner 4305495321392639779

2013-10-21 22:43:09,056 INFO  [RpcServer.handler=0,port=36020] regionserver.HRegionServer: Client tried to access missing scanner 4871518173034616791

2013-10-21 22:43:09,054 INFO  [RpcServer.handler=29,port=36020] regionserver.HRegionServer: Client tried to access missing scanner 2494346173615963501

2013-10-21 22:43:09,046 INFO  [RpcServer.handler=28,port=36020] regionserver.HRegionServer: Client tried to access missing scanner 8522578499834310167

2013-10-21 22:43:09,037 INFO  [RpcServer.handler=27,port=36020] regionserver.HRegionServer: Client tried to access missing scanner 6621035169671703961

2013-10-21 22:43:09,011 ERROR [RpcServer.handler=20,port=36020] regionserver.HRegionServer:

org.apache.hadoop.hbase.exceptions.OutOfOrderScannerNextException: Expected nextCallSeq: 18 But the nextCallSeq got from client: 4470; request=scanner\_id: 848804760654927372 number\_of\_rows: 100 close\_scanner: false next\_call\_seq: 4470

            at org.apache.hadoop.hbase.regionserver.HRegionServer.scan(HRegionServer.java:3030)

            at org.apache.hadoop.hbase.protobuf.generated.ClientProtos$ClientService$2.callBlockingMethod(ClientProtos.java:27022)

            at org.apache.hadoop.hbase.ipc.RpcServer.call(RpcServer.java:1979)

            at org.apache.hadoop.hbase.ipc.CallRunner.run(CallRunner.java:90)

            at org.apache.hadoop.hbase.ipc.SimpleRpcScheduler.consumerLoop(SimpleRpcScheduler.java:160)

            at org.apache.hadoop.hbase.ipc.SimpleRpcScheduler.access$000(SimpleRpcScheduler.java:38)

            at org.apache.hadoop.hbase.ipc.SimpleRpcScheduler$1.run(SimpleRpcScheduler.java:110)

            at java.lang.Thread.run(Thread.java:724)

2013-10-21 22:43:09,000 INFO  [RpcServer.handler=25,port=36020] regionserver.HRegionServer: Client tried to access missing scanner 4162107982028594792

In the log provided above, we can see 7 clients, and each of them is corresponding to a RpcServer.handler when communicating with RS.