WORKAROUND: Master repeater reboots when SmartPTT Radioserver is started

Abstract: After MOTOTRBO firmware upgrade up to R2.6 Master repeater may restart periodically in the radio systems using IPSC ADK Protocol (IPSC and Capacity Plus radio systems) when SmartPTT Radioserver is running.

System Platforms Affected: SmartPTT Enterprise 9.0 and all earlier versions

User Symptom: Master repeater reboots periodically what makes radio system unstable and sometimes unavailable.

Engineering Details: Due to the issue in MOTOTRBO firmware, master repeater with firmware version R2.6 reboots when exchanging CSBK data with the application peer using IPSC ADK Protocol.

Workaround: Change connection type to the radio system by adding **applicationPeer="false"** flag in RadioService.exe.config file manually. So SmartPTT Radioserver will pretend to be another hardware repeater peer.

1. Stop RadioService in SmartPTT Radioserver Configurator.

2. Head to the folder with installed SmartPTT Radioserver (by default C:\Program Files (x86)\SmartPTT\Server).
3. Make backup copy of RadioService.exe.config file copying it and renaming to RadioService.exe.config_old, for example.
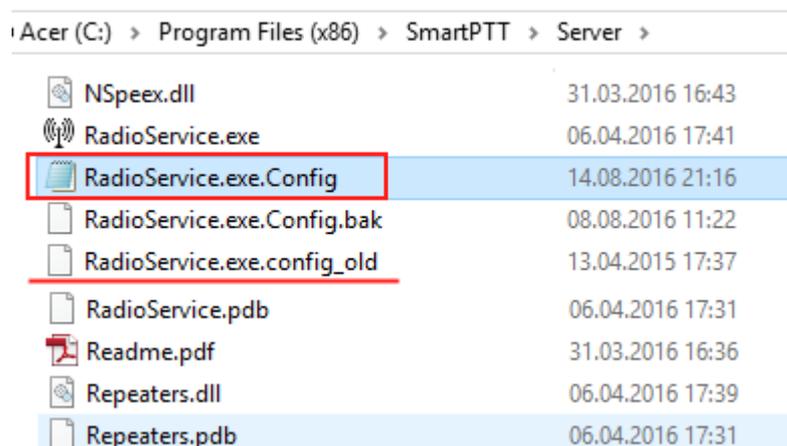
4. Open Radioservice.exe.config file in Notepad.
5. Find configured IP Site Connect / Capacity Plus system (IPSC ADK Protocol). Each radio system is located under the **<repeater name= ….>** tag.
6. Add **applicationPeer="false"** inside this section. Make sure you add applicationPeer flag before **><ControlStationSlot1 name=…>** tag. It is very important!

7. If you have several IP Site Connect/Capacity Plus (IPSC ADK Protocol) radio systems, add **applicationPeer="false"** flag for each **<repeater name= ….>** tag.

   Please see the screenshot with the example below:

```
</repeater>
<repeater name="          " enabled="true" system="MOTOTRBO_IPSiteConnect"
   networkID="1097033" peerID="1097033" listenAddress="192.168.16.63:50069"
   isMaster="false" passiveARS="false" masterAddress="19.10.78.134:50068"
   txPreambleDuration="120" messagingDelay="60" groupCallHangTime="2000"
   privateCallHangTime="2000" emergencyCallHangTime="2000" authenticationKey=""
   applicationPeer="false">
   <controlStationSlot1 name="          " id="24117472" networkID="12"
      radioID="16448250" groupNetworkID="225" emergencyAlarmAck="false"
      compressedHeader="true" txTOT="60" privateCallConfirmed="false"
      dataCallConfirmed="false" workspaceIds="1{radioID=16448250}"
      arsWorkspaceIds="1" gpsWorkspaceIds="1" tmsWorkspaceIds="1"
      tsWorkspaceIds="1" pbxenabled="false" privacyMode="0" privacyKey="1"
      outgoingPrivacy="false" txInterrupt="false" foreignPrivateCallsWorkspaceIds="1"
      isRevertChannel="false" enabled="true">
      <groups>
         <group name="          " groupID="1" workspaceIds="1" />
      </groups>
   </controlStationSlot1>
   <controlStationSlot2 name="Slot 2" id="24183008" networkID="12"
      radioID="16448250" groupNetworkID="225" emergencyAlarmAck="false"
      compressedHeader="false" txTOT="60" privateCallConfirmed="true"
      dataCallConfirmed="false" workspaceIds="1{radioID=16448250}"
      arsWorkspaceIds="1" gpsWorkspaceIds="1" tmsWorkspaceIds="1"
      tsWorkspaceIds="1" pbxenabled="false" privacyMode="0" privacyKey="1"
      outgoingPrivacy="false" txInterrupt="false" foreignPrivateCallsWorkspaceIds="1"
      isRevertChannel="false" enabled="false" />
   <xrxSettings id="1" />
```

8. Save RadioService.exe.config file
9. Start SmartPTT RadioService and test the radio system to make sure it's working smoothly after the change.

NOTE!
If you have never changed RadioService.exe.config file manually, please feel free to contact SmartPTT Support Team by support@smartptt.com providing Team Viewer access to the system. We will gladly help you to apply this workaround.