Archived:RPositioner::NotifyPositionUpdate returns KErrInUse after few minutes (Known Issue)

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Trying to use `RPositioner::NotifyPositionUpdate()` to receive GPS position fails after a certain number of updates have been made, if update options have been omitted. This known issue has been verified by Nokia Developer.

Description

Approximately after 4-5 minutes (255 update cycles), `RPositioner::NotifyPositionUpdate()` completes with error `KErrInUse (-14)`. This happens when the client has not set valid update options with `RPositioner::SetUpdateOptions()`.

This is not the defined return value for this API. After returning `KErrInUse` the RPositioner has "died" and always returns `KErrInUse`.

Note that the problem does not appear when using a Bluetooth GPS through the **Location Acquisition API**, or on the emulator.

How to reproduce

Header file:

```
class CMyPositioner : public CActive
  {
  ...

  RPositionServer iPositionServer;
  RPositioner iPositioner;
  TPositionSatelliteInfo iSatelliteInfo;
  };
```

Implementation:

```
_LIT(KRequestor, "MyPositioner");

void CMyPositioner::ConstructL()
  {
  ...
  User::LeaveIfError( iPositionServer.Connect() );
  User::LeaveIfError( iPositioner.Open(iPositionServer) );
  User::LeaveIfError( iPositioner.SetRequestor( CRequestor::ERequestorService,
                                                CRequestor::EFormatApplication,
                                                KRequestor) );
  CActiveScheduler::Add( this );
  }


void CMyPositioner::StartL()
  {
  ...
  iPositioner.NotifyPositionUpdate( iSatelliteInfo, iStatus );
  SetActive();
```


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```
    }


void CMyPositioner::RunL()
  {
  if (iStatus == KErrNone)
    {
    // Got iSatelliteInfo successfully, handle it
   HandleSatelliteInfo();

   // Request next update
   iPositioner.NotifyPositionUpdate(iSatelliteInfo, iStatus);
   SetActive();
    }
  else
    {
    // Fails with KErrInUse (-14) after 255 cycles
    _LIT( KDebugMessage, "NotifyPositionUpdate() failed: %d" );
      RDebug::Print( KDebugMessage, iStatus.Int() );
    }
  }
```

Solution

Set valid update options with `RPositioner::SetUpdateOptions()` prior to calling `RPositioner::NotifyPositionUpdate()`:

```
iPositioner.SetUpdateOptions(
    TPositionUpdateOptions( '''aInterval''',
                            TTimeIntervalMicroSeconds(0), /* timeout */
                            TTimeIntervalMicroSeconds(0), /* max age */
                            aAcceptPartialUpdates));

iPositioner.NotifyPositionUpdate( iSatelliteInfo, iStatus );
SetActive();
...
```

Note that the update interval (`aInterval`) value must be non-zero.

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