No notification from Connection Monitor Server API (Known Issue)

The Connection Monitor Server API (ConnMon) does not send a notification if two different applications connect to the network through the same access point(AP) and using the same network bearer.

Description

The Connection Monitor Server API (ConnMon) sends a notification (`EConnMonCreateConnection`) when a new connection is created. However, when there's already an active connection and another application requests a connection, the existing connection is shared between both applications. ConnMon does not send a notification in this situation as no new connection is established.

A new connection would be established only if the application specifically requests a different bearer (for instance, WLAN vs. GPRS) or a connection method (IAP) with a different access point name (APN).

Solution

Instead of monitoring subconnections, it's possible to request connection attributes from the Connection Monitor Server. This can be done by using the `KClientInfo` parameter for the function `RConnectionMonitor::GetPckgAttribute()`.

With the following code, it's possible to detect if there are other applications using the same connection:

```
TRequestStatus status;
TConnMonClientEnumBuf clientBuf;

// connectionId is the ID value of a specific connection. Connection IDs
// can be obtained with RConnectionMonitor::GetConnectionInfo()

monitor.GetPckgAttribute( connectionId, 0, KClientInfo, clientBuf, status );
User::WaitForRequest( status );

if( status.Int() == KErrNone )
  {
  // Count of the clients using the connection
  TUint count = clientBuf().iCount;
  // The uid of the first client (there are max 10 UIDs in the array)
  TUid uid = clientBuf().iUid[0];
  }
```

The `KClientInfo` attribute is used to retrieve the client UID for all clients using a specific connection. The information is transferred through a package of type `TConnMonClientEnumBuf`. The package class has a fixed size array, and it is limited to a maximum of 10 (`KConnMonMaxClientUids`) UIDs.

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