# Client Id’s

## Client Id 101

Client Id’s originate with Btrieve and are used when you need multiple independent data access sessions within the same application, examples within Exchequer are:-

* The threads in Exchequer which each use a Client Id so that they are not affected by anything else happening in the application and do not affect anything else in the application.
* The OLE Server runs up to 10 Client Id’s in parallel so that it can have the data files for up to 10 companies open simultaneously to maximise performance.

Client Id’s are optional, most of the Exchequer system does not use client id’s and the files are opened globally.

## Client Id’s in SQL

Client Id’s are supported in the SQL Emulator but are also directly linked to a specific thread due to limitations of ADO.NET.

This means that you cannot use the same Client Id in the main thread and from within the Execute event of a thread.

### SQL Emulator Gotcha’s

Due to the way that the SQL Emulator works it is advisable to use Client Id’s in Exchequer plug-ins that use Btrieve Files, this is because the SQL Emulator requires an OpenCompany call to tell it where the files are, but the OpenCompany call also closes any files open at that point in time.

This means that if you have an Exchequer Plug-In that calls OpenCompany for the global files that will close the files opened by Exchequer, or Exchequer could close the plug-in files– either is bad.

The solution is for the plug-in to use a custom Client Id so that there is no interaction in either direction with the Exchequer files.

## Known Client Id’s

‘BS’ BtrvSQL (X:\ExchSQL\BtrvSQL\SQLCompany.Pas)

‘CO’ Exchequer v6.00 Conversion

x:\Entrprse\Conversion\v600 Converter\oBtrieveFile.Pas

x:\Entrprse\MultComp\oBtrieveFile.Pas

‘EN’ OLE Data Import Add-In Prototype

‘ EX’ Exchequer/OLE Server TdMTExLocal (X:\Entrprse\R&D\ExWrap1U.Pas)

Data Conversion Wizard (U:\Bespoke\Excheqr\DataConversion\LookFile.Pas)

Sentimail TdMTExLocal (X:\Entrprse\SentMail\Sentinel\ExWrap1U.Pas) – potential clash if used within the Sentimail Plug-In.

SQL Perform (X:\ExchSQL\Perform\TestObj.Pas)

**VRW RepEngine TdMTExLocal (X:\Entrprse\RepWrt\Engine\ExWrap1U.Pas) – potential clash with Exchequer when RepEngine loaded by Tools Menu.**

**VRW RepEngine TdMTExLocal (X:\Entrprse\RepWrt\Engine\RWWrap1U.Pas) – potential clash with Exchequer when RepEngine loaded by Tools Menu.**

‘PI’ 1 VAT Period Plug-In (U:\Bespoke\Excheqr\VatPeriod\VATProbj.Pas)

‘SD’ 1 Seddons Minimum Stock Plug-In (U:\Bespoke\Seddons\Minimum Stock\MinMaxObj.Pas)

‘SE’ 99 Neil’s Settings Utilities (X:\Compon\MultiList\uSettings.Pas)

‘SP’ 10 COM Toolkit – SOP Conversion Routines

‘TK’ COM Toolkit objects TdMTExLocal (X:\Entrprse\R&D\ExWrap1U.Pas)