

# ■ The Captain's Log

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# Agenda

- **Introduction**
- Background
- Let's Get Stuck In
- Conclusions





A group of eleven people, ten men and one woman, are standing outdoors in front of a modern building with large glass windows. They are all smiling and holding a large, light blue banner that spans across the width of the group. The banner has a subtle grid pattern and features the company name and services in white text. The man on the far right is wearing a dark hat. The woman in the center is wearing a dark top, while the others are wearing light blue shirts. The background shows green trees and a clear sky.

# Consultingwerk

software architecture and development

## Consultingwerk Software Services Ltd.

- Independent IT consulting organization
- Focusing on **OpenEdge** and **related technology**
- Located in Cologne, Germany, subsidiaries in UK and Romania
- Customers in Europe, North America, Australia and South Africa
- Vendor of developer tools and consulting services
- Specialized in GUI for .NET, Angular, OO, Software Architecture, Application Integration
- Experts in OpenEdge Application Modernization



## James Palmer

- Senior Consultant / Database Administrator
- Working in the OpenEdge world since 2003
- Varied experience across a variety of industries and applications as a developer and more recently as a DBA
- Chairman of the UK & Ireland PUG, and speaker on a variety of topics both at EMEA PUG Challenge events, and smaller conferences in the UK and USA



# Agenda

- Introduction
- **Background**
- Let's Get Stuck In
- Conclusions



# Background

- What is Client Logging?
- What does Client Logging do?
- How do we turn it on?



# Background

## 1. Parameter file / Command Line

```
-debugalert  
-clientlog "c:\tmp\clientlogjp.txt"  
-logentrytypes "4glmessages:3,4gltrace:2"  
-logginglevel 1
```

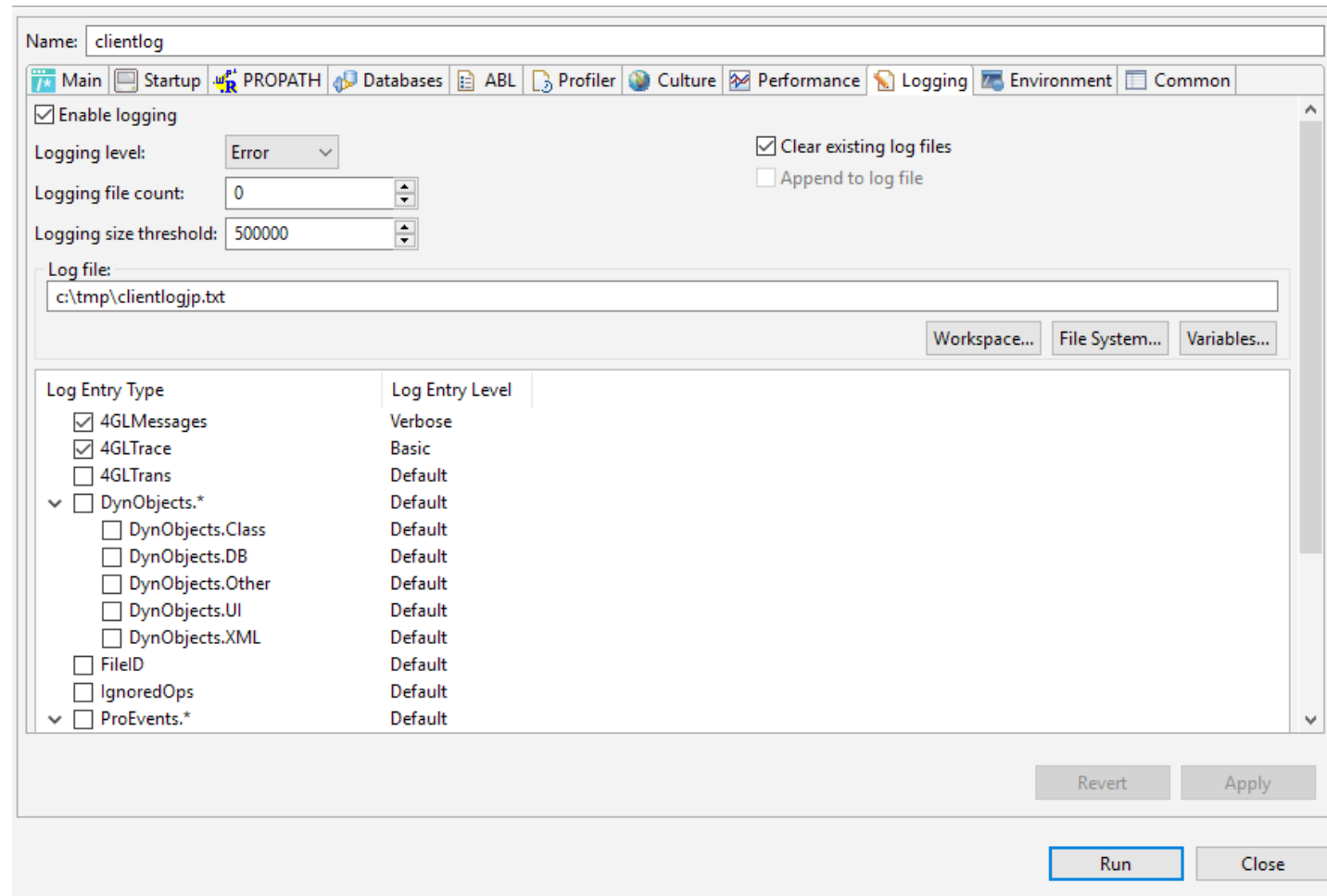
# Background

## 2. Code: log-manager handle

```
log-manager:logfile-name = "c:\tmp\clientlogjp.txt".  
log-manager:logging-level = 1.  
log-manager:log-entry-types = "4glmessages:3,4gltrace:2".
```

# Background

## 3. Run Configurations in PDSOE



# Agenda

- Introduction
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## 4GLMessages

```
log-manager:write-message(substitute('JP Testing &1',i),'MYLOG').
message 'Oops something went horribly wrong!'
view-as alert-box.
```

```
[17/08/18@20:28:23.109+0100] P-004860 T-010528 1 4GL -- Logging level set to = 2
[17/08/18@20:28:23.109+0100] P-004860 T-010528 1 4GL -- Log entry types activated: 4GLMessages:2
[17/08/18@20:28:24.138+0100] P-004860 T-010528 1 4GL MYLOG          JP Testing 0
[17/08/18@20:28:24.138+0100] P-004860 T-010528 2 4GL 4GLMESSAGE    Oops something went horribly wrong!
[17/08/18@20:28:24.138+0100] P-004860 T-010528 2 4GL 4GLMESSAGE    ** ABL Debug-Alert Stack Trace **
[17/08/18@20:28:24.138+0100] P-004860 T-010528 2 4GL 4GLMESSAGE    --> C:\Users\James Palmer\Progress\Developer St
```

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: 4GLMessages:2
1 4GL MYLOG          JP Testing 0
2 4GL 4GLMESSAGE    Oops something went horribly wrong!
2 4GL 4GLMESSAGE    ** ABL Debug-Alert Stack Trace **
2 4GL 4GLMESSAGE    --> C:\Users\James Palmer\Progress\De
```

## 4GLTrace

```
4GL -- Logging level set to = 2
4GL -- Log entry types activated: 4GLTrace:2
4GL 4GLTRACE      Run persistent.p PERSIST [Main Block - C:\Users\James Pal
4GL 4GLTRACE      SUBSCRIBE SubEvent "C:\Users\James Palmer\Progress\Develop
4GL 4GLTRACE      Run PublishEvent in persistent.p [Main Block - C:\Users\Ja
4GL 4GLTRACE      PUBLISH SubEvent [PublishEvent - persistent.p @ 34]
4GL 4GLTRACE      RUN SubEvent in C:\Users\James Palmer\Progress\Developer :
4GL 4GLTRACE      Run InternalProc "Some Input More Input" [Main Block - C:
4GL 4GLTRACE      Func GetDate "01/02/03" [Main Block - C:\Users\James Palm
```

## 4GLTrace

```
4GL -- Logging level set to = 2
4GL -- Log entry types activated: 4GLTrace:3
4GL 4GLTRACE      Run persistent.p PERSIST [Main Block - C:\Users\James Pal
4GL 4GLTRACE      Return from Main Block [persistent.p]
4GL 4GLTRACE      SUBSCRIBE SubEvent "C:\Users\James Palmer\Progress\Develop
4GL 4GLTRACE      Run PublishEvent in persistent.p [Main Block - C:\Users\J
4GL 4GLTRACE      PUBLISH SubEvent [PublishEvent - persistent.p @ 34]
4GL 4GLTRACE      RUN SubEvent in C:\Users\James Palmer\Progress\Developer
4GL 4GLTRACE      Return from SubEvent [C:\Users\James Palmer\Progress\Deve
4GL 4GLTRACE      Return from PUBLISH SubEvent [persistent.p]
4GL 4GLTRACE      Return from PublishEvent [persistent.p]
4GL 4GLTRACE      Run InternalProc "Some Input More Input" [Main Block - C:
4GL 4GLTRACE      Return from InternalProc "17" [C:\Users\James Palmer\Prog
4GL 4GLTRACE      Func GetDate "01/02/03" [Main Block - C:\Users\James Palm
4GL 4GLTRACE      Return from GetDate "01/02/03" [C:\Users\James Palmer\Pro
4GL 4GLTRACE      Return from Main Block [C:\Users\James Palmer\Progress\De
```

## 4GLTrans

```
4GL -- Logging level set to = 2
4GL -- Log entry types activated: 4GLTrans:2
4GL 4GLTRANS      BEGIN TRANS 29 [C:\Users\James Palmer\Progress\Developer Studio
4GL 4GLTRANS      END TRANS 29 [C:\Users\James Palmer\Progress\Developer Studio 4
4GL 4GLTRANS      BEGIN TRANS 30 [C:\Users\James Palmer\Progress\Developer Studio
4GL 4GLTRANS      UNDO TRANS 30 [C:\Users\James Palmer\Progress\Developer Studio
4GL 4GLTRANS      BEGIN TRANS 32 [C:\Users\James Palmer\Progress\Developer Studio
4GL 4GLTRANS      END TRANS 32 [C:\Users\James Palmer\Progress\Developer Studio 4
```



## 4GLTrans

```

4GL -- Logging level set to = 2
4GL -- Log entry types activated: 4GLTrans:3
4GL 4GLTRANS      BEGIN TRANS 29 [C:\Users\James Palmer\Progress\Deve
4GL 4GLTRANS      END TRANS 29 [C:\Users\James Palmer\Progress\Develc
4GL 4GLTRANS      BEGIN TRANS 30 [C:\Users\James Palmer\Progress\Deve
4GL 4GLTRANS      BEGIN SUB-TRANS 31 [C:\Users\James Palmer\Progress\
4GL 4GLTRANS      UNDO SUB-TRANS 31 [C:\Users\James Palmer\Progress\I
4GL 4GLTRANS      UNDO TRANS 30 [C:\Users\James Palmer\Progress\Devel
4GL 4GLTRANS      BEGIN TRANS 32 [C:\Users\James Palmer\Progress\Deve
4GL 4GLTRANS      BEGIN SUB-TRANS 33 [C:\Users\James Palmer\Progress\
4GL 4GLTRANS      BEGIN SUB-TRANS 36 [SubProcTrans C:\Users\James Pal
4GL 4GLTRANS      END SUB-TRANS 36 [SubProcTrans C:\Users\James Palme
4GL 4GLTRANS      END SUB-TRANS 33 [C:\Users\James Palmer\Progress\De
4GL 4GLTRANS      END TRANS 32 [C:\Users\James Palmer\Progress\Develc

```

# DynObjects.Class

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.Class:2
2 4GL DYNOBJECTS      Created      Progress.Lang.Object      Handle:1004 (C:\Users\James Palmer\Progress\Developer Studio
2 4GL DYNOBJECTS      Created      Progress.Lang.Object      Handle:1005 (SomeMethod MyClass @ 35) Progress.Lang.SysError
2 4GL DYNOBJECTS      Deleted-by-GC Progress.Lang.Object      Handle:1005 (C:\Users\James Palmer\Progress\Developer Studio
2 4GL DYNOBJECTS      Deleted      Progress.Lang.Object      Handle:1004 (C:\Users\James Palmer\Progress\Developer Studio
```

# DynObjects.Class

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.Class:3
3 4GL DYNOBJECTS      Created      Progress.Lang.Object      Handle:1004 (C:\Users\Jai
3 4GL DYNOBJECTS      Created      Progress.Lang.Object      Handle:1005 (SomeMethod 1
2 4GL DYNOBJECTS      Deleted-by-GC Progress.Lang.Object      Handle:1005 (C:\Users\Jai
2 4GL DYNOBJECTS      Deleted      Progress.Lang.Object      Handle:1004 (C:\Users\Jai
3 4GL DYNOBJECTS      Cached      Progress.Lang.Object      Handle:1004 (C:\Users\Jai
3 4GL DYNOBJECTS      Purged      Progress.Lang.Object      Handle:0 ( @ 0) MyClass
  
```

# DynObjects.DB

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.DB:2
2 4GL DYNOBJECTS      Created      TEMP-TABLE      Handle:1004 (clientlog.p @ 23)
2 4GL DYNOBJECTS      Created      BUFFER          Handle:1005 (clientlog.p @ 27) IMPLICIT Table:MyTempTable
2 4GL DYNOBJECTS      Created      QUERY          Handle:1006 (clientlog.p @ 29)
2 4GL DYNOBJECTS      Created      BUFFER          Handle:1007 (clientlog.p @ 30) Table:bCustomer
2 4GL DYNOBJECTS      Deleted     TEMP-TABLE      Handle:1004 (clientlog.p @ 39)
2 4GL DYNOBJECTS      Deleted     BUFFER          Handle:1005 (clientlog.p @ 39) IMPLICIT
2 4GL DYNOBJECTS      Deleted     QUERY          Handle:1006 (clientlog.p @ 41)
2 4GL DYNOBJECTS      Deleted     BUFFER          Handle:1007 (clientlog.p @ 42)

```

# DynObjects.DB

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.DB:3
3 4GL DYNOBJECTS      Created      TEMP-TABLE      Handle:1004 (clientlog.p @ 23) Pool:<unnamed> FROM adecomm/_runcode.p
3 4GL DYNOBJECTS      Created      BUFFER           Handle:1005 (clientlog.p @ 27) IMPLICIT Table:MyTempTable Pool:<unnamed>
3 4GL DYNOBJECTS      Created      QUERY            Handle:1006 (clientlog.p @ 29) Pool:<unnamed> FROM adecomm/_runcode.p
3 4GL DYNOBJECTS      Created      BUFFER           Handle:1007 (clientlog.p @ 30) Table:bCustomer Pool:<unnamed> FROM adecomm/_runcode.p
2 4GL DYNOBJECTS      Deleted     TEMP-TABLE      Handle:1004 (clientlog.p @ 39)
2 4GL DYNOBJECTS      Deleted     BUFFER           Handle:1005 (clientlog.p @ 39) IMPLICIT
2 4GL DYNOBJECTS      Deleted     QUERY            Handle:1006 (clientlog.p @ 41)
2 4GL DYNOBJECTS      Deleted     BUFFER           Handle:1007 (clientlog.p @ 42)

```

# DynObjects.DB

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.DB:3
3 4GL DYNOBJECTS      Creating pool <unnamed> (clientlog.p @ 18)
3 4GL DYNOBJECTS      Created      TEMP-TABLE      Handle:1004 (clientlog.p @ 23)  Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Created      BUFFER          Handle:1005 (clientlog.p @ 27)  IMPLICIT Table:MyTempTable Pool:<
3 4GL DYNOBJECTS      Created      QUERY          Handle:1006 (clientlog.p @ 29)  Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Created      BUFFER          Handle:1007 (clientlog.p @ 30)  Table:bCustomer Pool:<unnamed> FF
2 4GL DYNOBJECTS      Deleted     TEMP-TABLE      Handle:1004 (clientlog.p @ 39)
2 4GL DYNOBJECTS      Deleted     BUFFER          Handle:1005 (clientlog.p @ 39)  IMPLICIT
2 4GL DYNOBJECTS      Deleted     QUERY          Handle:1006 (clientlog.p @ 41)
2 4GL DYNOBJECTS      Deleted     BUFFER          Handle:1007 (clientlog.p @ 42)
3 4GL DYNOBJECTS      Deleting pool <unnamed> (clientlog.p @ 43) FROM clientlog.p

```

# DynObjects.DB

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: 4GLTrace:3,DynObjects.DB:3
2 4GL 4GLTRACE      Run persistent.p [Main Block - clientlog.p @ 20]
3 4GL DYNOBJECTS    Created      TEMP-TABLE      Handle:1004 (persistent.p @ 25) Pool:<unnamed> FROM adecomm/_runcode.p
3 4GL DYNOBJECTS    Created      BUFFER          Handle:1005 (persistent.p @ 29) IMPLICIT Table:MyTempTable Pool:<unnamed>
3 4GL DYNOBJECTS    Created      QUERY          Handle:1006 (persistent.p @ 31) Pool:<unnamed> FROM adecomm/_runcode.p
3 4GL DYNOBJECTS    Created      BUFFER          Handle:1007 (persistent.p @ 32) Table:bCustomer Pool:<unnamed> FROM adecomm/_runcode.p
3 4GL 4GLTRACE      Return from Main Block [persistent.p]
3 4GL 4GLTRACE      Return from Main Block [clientlog.p]

```

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: 4GLTrace:3,DynObjects.DB:3
2 4GL 4GLTRACE      Run persistent.p [Main Block - clientlog.p @ 20]
3 4GL DYNOBJECTS    Creating pool <unnamed> (persistent.p @ 20)
3 4GL DYNOBJECTS    Created      TEMP-TABLE      Handle:1004 (persistent.p @ 25) Pool:<unnamed>
3 4GL DYNOBJECTS    Created      BUFFER          Handle:1005 (persistent.p @ 29) IMPLICIT Table:MyTempTable Pool:<unnamed>
3 4GL DYNOBJECTS    Created      QUERY          Handle:1006 (persistent.p @ 31) Pool:<unnamed> FROM adecomm/_runcode.p
3 4GL DYNOBJECTS    Created      BUFFER          Handle:1007 (persistent.p @ 32) Table:bCustomer Pool:<unnamed> FROM adecomm/_runcode.p
3 4GL 4GLTRACE      Return from Main Block [persistent.p]
3 4GL DYNOBJECTS    Deleting pool <unnamed> (persistent.p @ 37) FROM persistent.p
2 4GL DYNOBJECTS    Deleted      BUFFER          Handle:1007 (persistent.p @ 37) POOLDEL
2 4GL DYNOBJECTS    Deleted      QUERY          Handle:1006 (persistent.p @ 37) POOLDEL
2 4GL DYNOBJECTS    Deleted      TEMP-TABLE      Handle:1004 (persistent.p @ 37) POOLDEL
2 4GL DYNOBJECTS    Deleted      BUFFER          Handle:1005 (persistent.p @ 37) IMPLICIT
3 4GL 4GLTRACE      Return from Main Block [clientlog.p]

```

# DynObjects.UI

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.UI:2
2 4GL DYNOBJECTS      Created      WINDOW      Handle:1004 (BrowseExample.w @ 121)
2 4GL DYNOBJECTS      Created      BROWSE-COLUMN Handle:1026 (CreateBrowse brwsmgrpm.p @ 284) Name: CustName [Browse:MyBrowse]
2 4GL DYNOBJECTS      Created      BROWSE-COLUMN Handle:1027 (CreateBrowse brwsmgrpm.p @ 284) Name: CreditLimit [Browse:MyBrowse]
2 4GL DYNOBJECTS      Created      BROWSE-COLUMN Handle:1028 (CreateBrowse brwsmgrpm.p @ 284) Name: Balance [Browse:MyBrowse]
2 4GL DYNOBJECTS      Created      BROWSE-COLUMN Handle:1029 (CreateBrowse brwsmgrpm.p @ 284) Name: RemainingBalance [Browse:MyBrowse]
2 4GL DYNOBJECTS      Created      BROWSE-COLUMN Handle:1030 (CreateBrowse brwsmgrpm.p @ 284) Name: PercentBalance [Browse:MyBrowse]
2 4GL DYNOBJECTS      Created      MENU        Handle:1031 (GenerateBrowsePopupMenu brwsmgrpm.p @ 332)
2 4GL DYNOBJECTS      Created      MENU-ITEM   Handle:1032 (GenerateBrowsePopupMenu brwsmgrpm.p @ 340)
2 4GL DYNOBJECTS      Deleted     WINDOW      Handle:1004 (disable_UI BrowseExample.w @ 266)
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN Handle:1026 (BrowseExample.w @ -1) Name: CustName [Browse:MyBrowse]
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN Handle:1027 (BrowseExample.w @ -1) Name: CreditLimit [Browse:MyBrowse]
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN Handle:1028 (BrowseExample.w @ -1) Name: Balance [Browse:MyBrowse]
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN Handle:1029 (BrowseExample.w @ -1) Name: RemainingBalance [Browse:MyBrowse]
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN Handle:1030 (BrowseExample.w @ -1) Name: PercentBalance [Browse:MyBrowse]
2 4GL DYNOBJECTS      Deleted     MENU-ITEM   Handle:1032 (BrowseExample.w @ -1) POOLDEL
2 4GL DYNOBJECTS      Deleted     MENU        Handle:1031 (BrowseExample.w @ -1) POOLDEL

```



# DynObjects.UI

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.UI:3
3 4GL DYNOBJECTS      Creating pool <unnamed> (BrowseExample.w @ 31)
3 4GL DYNOBJECTS      Created      WINDOW                Handle:1004 (BrowseExample.w @ 120) Pool:<unnamed> FROM Br
3 4GL DYNOBJECTS      Created      BROWSE-COLUMN        Handle:1026 (CreateBrowse brwsmgrpm.p @ 284) Name: CustName
3 4GL DYNOBJECTS      Created      BROWSE-COLUMN        Handle:1027 (CreateBrowse brwsmgrpm.p @ 284) Name: CreditLi
3 4GL DYNOBJECTS      Created      BROWSE-COLUMN        Handle:1028 (CreateBrowse brwsmgrpm.p @ 284) Name: Balance
3 4GL DYNOBJECTS      Created      BROWSE-COLUMN        Handle:1029 (CreateBrowse brwsmgrpm.p @ 284) Name: Remainir
3 4GL DYNOBJECTS      Created      BROWSE-COLUMN        Handle:1030 (CreateBrowse brwsmgrpm.p @ 284) Name: PercentE
3 4GL DYNOBJECTS      Created      MENU                  Handle:1031 (GenerateBrowsePopupMenu brwsmgrpm.p @ 332) Pc
3 4GL DYNOBJECTS      Created      MENU-ITEM             Handle:1032 (GenerateBrowsePopupMenu brwsmgrpm.p @ 340) Pc
2 4GL DYNOBJECTS      Deleted     WINDOW                Handle:1004 (disable_UI BrowseExample.w @ 265)
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN        Handle:1026 (BrowseExample.w @ -1) Name: CustName [Browse:M
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN        Handle:1027 (BrowseExample.w @ -1) Name: CreditLimit [Brows
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN        Handle:1028 (BrowseExample.w @ -1) Name: Balance [Browse:My
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN        Handle:1029 (BrowseExample.w @ -1) Name: RemainingBalance |
2 4GL DYNOBJECTS      Deleted     BROWSE-COLUMN        Handle:1030 (BrowseExample.w @ -1) Name: PercentBalance [Br
3 4GL DYNOBJECTS      Deleting pool <unnamed> (BrowseExample.w @ -1) FROM BrowseExample.w
2 4GL DYNOBJECTS      Deleted     MENU-ITEM             Handle:1032 (BrowseExample.w @ -1) POOLDEL
2 4GL DYNOBJECTS      Deleted     MENU                  Handle:1031 (BrowseExample.w @ -1) POOLDEL

```

# DynObjects.XML

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.XML:2
2 4GL DYNOBJECTS      Created      X-DOCUMENT      Handle:1004 (clientlog.p @ 27)
2 4GL DYNOBJECTS      Created      X-NODEREF       Handle:1005 (clientlog.p @ 28)
2 4GL DYNOBJECTS      Created      X-NODEREF       Handle:1006 (clientlog.p @ 29)
2 4GL DYNOBJECTS      Created      X-NODEREF       Handle:1007 (clientlog.p @ 30)
2 4GL DYNOBJECTS      Created      X-NODEREF       Handle:1008 (clientlog.p @ 31)
2 4GL DYNOBJECTS      Created      X-NODEREF       Handle:1009 (clientlog.p @ 32)
```

# DynObjects.XML

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: DynObjects.XML:3
3 4GL DYNOBJECTS      Creating pool <unnamed> (clientlog.p @ 18)
3 4GL DYNOBJECTS      Created          X-DOCUMENT          Handle:1004 (clientlog.p @ 27) Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Created          X-NODEREF           Handle:1005 (clientlog.p @ 28) Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Created          X-NODEREF           Handle:1006 (clientlog.p @ 29) Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Created          X-NODEREF           Handle:1007 (clientlog.p @ 30) Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Created          X-NODEREF           Handle:1008 (clientlog.p @ 31) Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Created          X-NODEREF           Handle:1009 (clientlog.p @ 32) Pool:<unnamed> FROM clientlog.p
3 4GL DYNOBJECTS      Deleting pool <unnamed> (clientlog.p @ 41) FROM clientlog.p
2 4GL DYNOBJECTS      Deleted          X-NODEREF           Handle:1009 (clientlog.p @ 41) POOLDEL
2 4GL DYNOBJECTS      Deleted          X-NODEREF           Handle:1008 (clientlog.p @ 41) POOLDEL
2 4GL DYNOBJECTS      Deleted          X-NODEREF           Handle:1007 (clientlog.p @ 41) POOLDEL
2 4GL DYNOBJECTS      Deleted          X-NODEREF           Handle:1006 (clientlog.p @ 41) POOLDEL
2 4GL DYNOBJECTS      Deleted          X-NODEREF           Handle:1005 (clientlog.p @ 41) POOLDEL
2 4GL DYNOBJECTS      Deleted          X-DOCUMENT          Handle:1004 (clientlog.p @ 41) POOLDEL

```

# FileD

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: FileID:2
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\srta57248 ID=8
2 4GL FILEID      Close C:\OpenEdge\WRK\srta57248 ID=8
2 4GL FILEID      Open C:\OpenEdge\WRK\srta57248 ID=8
2 4GL FILEID      Open C:\OpenEdge\WRK\rcda57248 ID=9
2 4GL FILEID      Close C:\OpenEdge\WRK\rcda57248 ID=9
2 4GL FILEID      Open C:\OpenEdge\WRK\rcda57248 ID=9
2 4GL FILEID      Open C:\Progress\OpenEdge\oeide\eclipse\plugins\c
2 4GL FILEID      Close C:\Progress\OpenEdge\oeide\eclipse\plugins\
2 4GL FILEID      Open C:\Users\James Palmer\Progress\Developer Stu
2 4GL FILEID      Close C:\Users\James Palmer\Progress\Developer St
2 4GL FILEID      Open C:\Progress\OpenEdge\gui\adecomm.pl ID=10
2 4GL FILEID      Open clientlog.r ID=11
2 4GL FILEID      Close clientlog.r ID=11
1 4GL -- ** "C:\rjkd\djjdd" was not found. (293)
1 4GL -- ** ABL Debug-Alert Stack Trace **
1 4GL -- --> adecomm/_runcode.p at line 671 (adecomm/_runcode.r)
1 4GL --
1 4GL -- CallStack from ABL error object:
1 4GL -- --> clientlog.p at line 25 (clientlog.r)
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia57248 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\srta57248 ID=8
2 4GL FILEID      Close C:\OpenEdge\WRK\rcda57248 ID=9
2 4GL FILEID      Close C:\Progress\OpenEdge\gui\adecomm.pl ID=10
2 4GL FILEID      Close C:\Progress\OpenEdge\convmap.cp ID=4
```

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: FileID:2
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Open C:\OpenEdge\WRK\sрта55332 ID=8
2 4GL FILEID      Close C:\OpenEdge\WRK\sрта55332 ID=8
2 4GL FILEID      Open C:\OpenEdge\WRK\sрта55332 ID=8
2 4GL FILEID      Open C:\OpenEdge\WRK\rcda55332 ID=9
2 4GL FILEID      Close C:\OpenEdge\WRK\rcda55332 ID=9
2 4GL FILEID      Open C:\OpenEdge\WRK\rcda55332 ID=9
2 4GL FILEID      Open C:\Progress\OpenEdge\oeide\eclipse\plugins\com
2 4GL FILEID      Close C:\Progress\OpenEdge\oeide\eclipse\plugins\cor
2 4GL FILEID      Open C:\Users\James Palmer\Progress\Developer Studio
2 4GL FILEID      Close C:\Users\James Palmer\Progress\Developer Stud:
2 4GL FILEID      Open C:\Progress\OpenEdge\gui\adecomm.pl ID=10
2 4GL FILEID      Open C:\Users\James Palmer\Progress\Developer Studio
2 4GL FILEID      Close C:\Users\James Palmer\Progress\Developer Stud:
2 4GL FILEID      Open C:\tmp\clientlogjp.txt ID=11
2 4GL FILEID      Close C:\tmp\clientlogjp.txt ID=11
2 4GL FILEID      Open c:\tmp\output.txt ID=11
2 4GL FILEID      Close c:\tmp\output.txt ID=11
2 4GL FILEID      Open c:\tmp\output.txt ID=11
2 4GL FILEID      Close c:\tmp\output.txt ID=11
2 4GL FILEID      Close C:\OpenEdge\WRK\lbia55332 ID=6
2 4GL FILEID      Close C:\OpenEdge\WRK\sрта55332 ID=8
2 4GL FILEID      Close C:\OpenEdge\WRK\rcda55332 ID=9
2 4GL FILEID      Close C:\Progress\OpenEdge\gui\adecomm.pl ID=10
2 4GL FILEID      Close C:\Progress\OpenEdge\convmap.cp ID=4
```

# IgnoredOps

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: IgnoredOps
2 4GL IGNOREDOPS      (Procedure: 'TestProc BrowseExample2.w' Line:320) Attribute/Method TITLE ignored for embedded window
2 4GL IGNOREDOPS      (Procedure: 'TestProc BrowseExample2.w' Line:321) Attribute/Method SCREEN-LINES ignored for embedded window
```

# Event Logging



# ProEvents.Other

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: ProEvents.Other:3
2 4GL PROEVENTS      START SOCKET READ-RESPONSE Handle:1004
2 4GL PROEVENTS      PUSH READ-RESPONSE SOCKET  Handle:1004 clientlog.p
2 4GL PROEVENTS      Begin-Trigger "READ-RESPONSE OF SOCKET " Handle:1004 RUN ProcessServerResponse clientlog.p
2 4GL PROEVENTS      End-Trigger "READ-RESPONSE OF SOCKET " Handle:1004
2 4GL PROEVENTS      PUSH READ-RESPONSE SOCKET  Handle:1004 clientlog.p
2 4GL PROEVENTS      POP READ-RESPONSE SOCKET  Handle:1004 clientlog.p
2 4GL PROEVENTS      POP READ-RESPONSE SOCKET  Handle:1004 clientlog.p
2 4GL PROEVENTS      START SOCKET READ-RESPONSE Handle:1004
2 4GL PROEVENTS      PUSH READ-RESPONSE SOCKET  Handle:1004 clientlog.p
2 4GL PROEVENTS      Begin-Trigger "READ-RESPONSE OF SOCKET " Handle:1004 RUN ProcessServerResponse clientlog.p
2 4GL PROEVENTS      End-Trigger "READ-RESPONSE OF SOCKET " Handle:1004
2 4GL PROEVENTS      PUSH READ-RESPONSE SOCKET  Handle:1004 clientlog.p
2 4GL PROEVENTS      POP READ-RESPONSE SOCKET  Handle:1004 clientlog.p
2 4GL PROEVENTS      POP READ-RESPONSE SOCKET  Handle:1004 clientlog.p
```

## ProEvents.Other

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: ProEvents.Other:3
2 4GL PROEVENTS      START SOCKET CONNECT Handle:1004
2 4GL PROEVENTS      PUSH CONNECT SERVER-SOCKET  Handle:1004 server.p
2 4GL PROEVENTS      Begin-Trigger "CONNECT OF SERVER-SOCKET " Handle:1004 RUN ProcessClientConnect server.p
2 4GL PROEVENTS      End-Trigger "CONNECT OF SERVER-SOCKET " Handle:1004
2 4GL PROEVENTS      PUSH CONNECT SERVER-SOCKET  Handle:1004 server.p
2 4GL PROEVENTS      POP CONNECT SERVER-SOCKET  Handle:1004 server.p
2 4GL PROEVENTS      POP CONNECT SERVER-SOCKET  Handle:1004 server.p
2 4GL PROEVENTS      START SOCKET READ-RESPONSE Handle:1005
2 4GL PROEVENTS      PUSH READ-RESPONSE SOCKET  Handle:1005 server.p
2 4GL PROEVENTS      Begin-Trigger "READ-RESPONSE OF SOCKET " Handle:1005 RUN SocketIO server.p
2 4GL PROEVENTS      End-Trigger "READ-RESPONSE OF SOCKET " Handle:1005
2 4GL PROEVENTS      POP READ-RESPONSE SOCKET  Handle:1005 server.p
2 4GL PROEVENTS      START SOCKET READ-RESPONSE Handle:1005
2 4GL PROEVENTS      PUSH READ-RESPONSE SOCKET  Handle:1005 server.p
2 4GL PROEVENTS      Begin-Trigger "READ-RESPONSE OF SOCKET " Handle:1005 RUN SocketIO server.p
2 4GL PROEVENTS      End-Trigger "READ-RESPONSE OF SOCKET " Handle:1005
2 4GL PROEVENTS      POP READ-RESPONSE SOCKET  Handle:1005 server.p
2 4GL PROEVENTS      START SOCKET READ-RESPONSE Handle:1005
2 4GL PROEVENTS      PUSH READ-RESPONSE SOCKET  Handle:1005 server.p
2 4GL PROEVENTS      Begin-Trigger "READ-RESPONSE OF SOCKET " Handle:1005 RUN SocketIO server.p
2 4GL PROEVENTS      End-Trigger "READ-RESPONSE OF SOCKET " Handle:1005
2 4GL PROEVENTS      POP READ-RESPONSE SOCKET  Handle:1005 server.p
```

## ProEvents.UI.Char

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: ProEvents.UI.Char:2
2 4GL PROEVENTS      PUSH J FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      POP J FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      PUSH i FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      POP i FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      PUSH m FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      POP m FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      PUSH b FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      POP b FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      PUSH o FILL-IN FILL-IN-2 BrowseExample2.w
2 4GL PROEVENTS      POP o FILL-IN FILL-IN-2 BrowseExample2.w

```

# ProEvents.UI.Command

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: ProEvents.UI.Command:2
2 4GL PROEVENTS      START GUI WM_ENABLE BROWSE BROWSE-3 BrowseExamp.
2 4GL PROEVENTS      START GUI WM_ENABLE FILL-IN FILL-IN-1 BrowseExa
2 4GL PROEVENTS      START GUI WM_ENABLE EDITOR EDITOR-1 BrowseExamp.
2 4GL PROEVENTS      START GUI WM_ENABLE RADIO-SET RADIO-SET-1 Browse
2 4GL PROEVENTS      START GUI WM_ENABLE RADIO-SET RADIO-SET-1 Browse
2 4GL PROEVENTS      START GUI WM_ENABLE RADIO-SET RADIO-SET-1 Browse
2 4GL PROEVENTS      START GUI WM_ENABLE RADIO-SET RADIO-SET-1 Browse
2 4GL PROEVENTS      START GUI WM_ENABLE RADIO-SET RADIO-SET-1 Browse
2 4GL PROEVENTS      START GUI WM_ENABLE RADIO-SET RADIO-SET-1 Browse
2 4GL PROEVENTS      START GUI WM_ENABLE FILL-IN FILL-IN-2 BrowseExa
2 4GL PROEVENTS      START GUI WM_ENABLE COMBO-BOX COMBO-BOX-1 Browse
2 4GL PROEVENTS      START PRGS ENTRY WINDOW  Handle:1004 BrowseExamp
2 4GL PROEVENTS      PUSH ENTRY WINDOW  Handle:1004 BrowseExample2.w
2 4GL PROEVENTS      START GUI WM_KILLFOCUS WINDOW  Handle:1000 Brow
2 4GL PROEVENTS      START GUI WM_SETFOCUS FRAME DEFAULT-FRAME Browse
2 4GL PROEVENTS      START GUI WM_KILLFOCUS FRAME DEFAULT-FRAME Brow
2 4GL PROEVENTS      START GUI WM_SETFOCUS WINDOW  Handle:1004 Browse
2 4GL PROEVENTS      POP ENTRY WINDOW  Handle:1004 BrowseExample2.w .
```

2	4GL	PROEVENTS	PUSH TAB (TAB) BROWSE BROWSE-3 BrowseExample2.w
2	4GL	PROEVENTS	PUSH TAB (TAB) FILL-IN FILL-IN-1 BrowseExample2.w
2	4GL	PROEVENTS	PUSH ENTRY FILL-IN FILL-IN-1 BrowseExample2.w
2	4GL	PROEVENTS	PUSH LEAVE BROWSE BROWSE-3 BrowseExample2.w
2	4GL	PROEVENTS	POP LEAVE BROWSE BROWSE-3 BrowseExample2.w
2	4GL	PROEVENTS	START GUI WM_KILLFOCUS BROWSE BROWSE-3 BrowseExample2.w
2	4GL	PROEVENTS	START GUI WM_SETFOCUS FILL-IN FILL-IN-1 BrowseExample2.w
2	4GL	PROEVENTS	POP ENTRY FILL-IN FILL-IN-1 BrowseExample2.w
2	4GL	PROEVENTS	POP TAB (TAB) FILL-IN FILL-IN-1 BrowseExample2.w
2	4GL	PROEVENTS	POP TAB (TAB) BROWSE BROWSE-3 BrowseExample2.w
2	4GL	PROEVENTS	PUSH TAB (TAB) FILL-IN FILL-IN-1 BrowseExample2.w

```
2 4GL PROEVENTS POP FOCUS-IN EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS POP FOCUS-IN EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_KEYDOWN EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_KEYDOWN EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_CHAR J EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS PUSH VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS POP VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_KEYDOWN EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_CHAR a EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS PUSH VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS POP VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_KEYDOWN EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_CHAR c EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS PUSH VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS POP VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_KEYDOWN EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_CHAR k EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS PUSH VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
2 4GL PROEVENTS POP VALUE-CHANGED EDITOR EDITOR-1 BrowseExample2.w
3 4GL PROEVENTS START GUI WM_KEYDOWN EDITOR EDITOR-1 BrowseExample2.w
```

# QryInfo

## ■ BASIC-LOGGING

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: QryInfo:2
2 4GL QRYINFO      Query Info Logging turned on for query  handle 1004 QueryId 2505961081312
2 4GL QRYINFO      Query Plan:  clientlog.p line 33
2 4GL QRYINFO      QueryId: 2505961081312
2 4GL QRYINFO      Query Handle: 1004
2 4GL QRYINFO      Type: Dynamically Opened Query
2 4GL QRYINFO      PREPARE-STRING: for each order no-lock where Order.CustNum eq 5, each orderline of order no-lock
2 4GL QRYINFO      Prepared at Runtime
2 4GL QRYINFO      Client Sort: N
2 4GL QRYINFO      Scrolling: Y
2 4GL QRYINFO      Table: C:\db\s2k\s2k.Order
2 4GL QRYINFO      Indexes: CustOrder
2 4GL QRYINFO      Table: C:\db\s2k\s2k.OrderLine
2 4GL QRYINFO      Indexes: orderline
```



```
2 4GL QRYINFO      Query Statistics: clientlog.p line 42
2 4GL QRYINFO      QueryId: 2505961081312
2 4GL QRYINFO      Query Handle: 1004
2 4GL QRYINFO      Times prepared: 1
2 4GL QRYINFO      Time to prepare (ms): 0
2 4GL QRYINFO      DB Blocks accessed to prepare:
2 4GL QRYINFO      C:\db\s2k\s2k : 57
2 4GL QRYINFO      Times opened: 1
2 4GL QRYINFO      Used REPOSITION: N
2 4GL QRYINFO      DB Blocks accessed:
2 4GL QRYINFO      C:\db\s2k\s2k : 126
2 4GL QRYINFO      DB Reads:
2 4GL QRYINFO      Table: C:\db\s2k\s2k.Order : 11
2 4GL QRYINFO      Index: Order.CustOrder : UNAVAILABLE
2 4GL QRYINFO      Table: C:\db\s2k\s2k.OrderLine : 24
2 4GL QRYINFO      Index: OrderLine.orderline : UNAVAILABLE
2 4GL QRYINFO      C:\db\s2k\s2k.Order Table:
2 4GL QRYINFO      4GL Records: 12
2 4GL QRYINFO      Records from server: 12
2 4GL QRYINFO      Useful: 12
2 4GL QRYINFO      Failed: 0
2 4GL QRYINFO      Select By Client: N
2 4GL QRYINFO      C:\db\s2k\s2k.OrderLine Table:
2 4GL QRYINFO      4GL Records: 25
2 4GL QRYINFO      Records from server: 25
2 4GL QRYINFO      Useful: 25
2 4GL QRYINFO      Failed: 0
2 4GL QRYINFO      Select By Client: N
```

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: QryInfo:3
2 4GL QRYINFO          Query Plan:  clientlog.p line 19
2 4GL QRYINFO          QueryId: 2417825026448
2 4GL QRYINFO          Type: FOR Statement
2 4GL QRYINFO          Client Sort: N
2 4GL QRYINFO          Scrolling: N
2 4GL QRYINFO          Table: C:\db\s2k\s2k.Customer
2 4GL QRYINFO          Indexes: CustNum
2 4GL QRYINFO          Query Statistics:  clientlog.p line 19
2 4GL QRYINFO          QueryId: 2417825026448
2 4GL QRYINFO          DB Blocks accessed:
2 4GL QRYINFO          C:\db\s2k\s2k : 2245
2 4GL QRYINFO          DB Reads:
2 4GL QRYINFO          Table: C:\db\s2k\s2k.Customer : 1113
2 4GL QRYINFO          Index: Customer.CustNum : UNAVAILABLE
2 4GL QRYINFO          C:\db\s2k\s2k.Customer Table:
2 4GL QRYINFO          4GL Records: 13
2 4GL QRYINFO          Records from server: 13
2 4GL QRYINFO          Useful: 13
2 4GL QRYINFO          Failed: 0
2 4GL QRYINFO          Select By Client: N
```

# SAX

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: SAX:2
2 4GL SAX          Initialize parser
2 4GL SAX          Callback StartDocument not found
2 4GL SAX          Callback ResolveEntity not found
2 4GL SAX          Callback StartElement found
2 4GL SAX          parameter 1:
2 4GL SAX          parameter 2: Cars
2 4GL SAX          parameter 3: Cars
2 4GL SAX          parameter 4: <valid handle>
2 4GL SAX          Callback Characters found
2 4GL SAX          parameter 1:
2 4GL SAX          parameter 2: 1
2 4GL SAX          Callback EndElement found
2 4GL SAX          parameter 1:
2 4GL SAX          parameter 2: Cars
2 4GL SAX          parameter 3: Cars
2 4GL SAX          Callback EndDocument found
2 4GL SAX          Exiting parser
```

# TEMP-TABLES

```
1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: Temp-tables:2
2 4GL TEMP-TABLE      Created TEMP-TABLE tt3 (ID:9 DYNAMIC NO-UNDO Indexes:1) clientlog.p @ 39
2 4GL TEMP-TABLE      Created TEMP-TABLE tt1 (ID:7 NO-UNDO Indexes:1) clientlog.p @ 46
2 4GL TEMP-TABLE      Created TEMP-TABLE tt2 (ID:8 NO-UNDO Indexes:1) clientlog.p @ 53
2 4GL TEMP-TABLE      Emptied TEMP-TABLE tt1 (ID:7) clientlog.p @ 59
2 4GL TEMP-TABLE      Deleted TEMP-TABLE tt3 (ID:9 DYNAMIC) clientlog.p @ 81
2 4GL TEMP-TABLE      Deleted TEMP-TABLE tt1 (ID:7) clientlog.p @ -1
2 4GL TEMP-TABLE      Deleted TEMP-TABLE tt2 (ID:8) clientlog.p @ -1
```

# TEMP-TABLES

```

1 4GL -- Logging level set to = 2
1 4GL -- Log entry types activated: Temp-tables:4
2 4GL TEMP-TABLE      Created TEMP-TABLE tt3 (ID:9 DYNAMIC NO-UNDO Indexes:1) clientlog.p @ 39
2 4GL TEMP-TABLE      Created TEMP-TABLE tt1 (ID:7 NO-UNDO Indexes:1) clientlog.p @ 46
2 4GL TEMP-TABLE      Created TEMP-TABLE tt2 (ID:8 NO-UNDO Indexes:1) clientlog.p @ 53
4 4GL TEMP-TABLE      Statistics for TEMP-TABLE tt1 (ID: 7):
4 4GL TEMP-TABLE      Number of records: 1, Record size(B) Min : 20, Max: 20, Avg: 20
2 4GL TEMP-TABLE      Emptied TEMP-TABLE tt1 (ID:7) clientlog.p @ 59
4 4GL TEMP-TABLE      Statistics for TEMP-TABLE tt3 (ID: 9):
4 4GL TEMP-TABLE      Number of records: 1, Record size(B) Min : 21, Max: 21, Avg: 21
2 4GL TEMP-TABLE      Deleted TEMP-TABLE tt3 (ID:9 DYNAMIC) clientlog.p @ 81
4 4GL TEMP-TABLE      Statistics for TEMP-TABLE tt1 (ID: 7):
4 4GL TEMP-TABLE      Number of records: 1, Record size(B) Min : 20, Max: 20, Avg: 20
2 4GL TEMP-TABLE      Deleted TEMP-TABLE tt1 (ID:7) clientlog.p @ -1
4 4GL TEMP-TABLE      Statistics for TEMP-TABLE tt2 (ID: 8):
4 4GL TEMP-TABLE      Number of records: 1, Record size(B) Min : 16, Max: 16, Avg: 16
2 4GL TEMP-TABLE      Deleted TEMP-TABLE tt2 (ID:8) clientlog.p @ -1

```

## Get Stuck In

- AIA logging
  - Logging for the AIA component
- AppServer logging
  - Everything from the starting and stopping of agents, to users connecting and disconnecting, and even the code being executed
- Database connection logging
  - Connect and disconnect of databases

## Get Stuck In

- DataServer logging
  - This is available for the client context and the server context
  - Everything from Query info, to transaction scope and more besides.
- NameServer logging
  - Starting, stopping, connecting and disconnecting from the NameServer as well as communication statuses and other nuggets
- Unified Broker logging
  - Everything from the ubroker.properties information, to connects and disconnects, and various others



## Get Stuck In

- Web Services Adapter logging
- WebSpeed Messenger logging

# Agenda

- Introduction
- Background
- Let's Get Stuck In
- **Conclusions**



# Questions



# Consultingwerk

software architecture and development