

Getting started with Embedded Windows

An introduction into WinKitLE

<http://www.consultingwerk.de/winkitle/>

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PUG Challenge Americas 2011, Westford, MA

Consultingwerk
software architecture and development

Be there to win!

All visitors of our booth and attendees of our presentations or workshops that leave a business card or fill out a short form will enter a drawing for an Apple iPod Touch.

The lucky winner will be announced at the end of the conference.

- **Getting started with Embedded Windows,** A practical introduction into WinKitLE (practical hands-on workshop), Mike Fechner & Marko Rüterbories, Sunday, June 5th, 1:30 – 4:30
- **SmartComponent Library: GUI for .NET and OERA the productive way!** (Official presentation), Mike Fechner & Marko Rüterbories, Monday, June 6th, 4:00 – 5:00
- **Extending the OpenEdge Architect Visual Designer,** Mike Fechner, Tuesday, June 7th, 4:00 – 5:00
- **Extreme Windows Desktop Integration,** Mike Fechner, Wednesday, June 8th, 11:15 – 12:15

www.consultingwerk.de

Visit us at booth 11

Consultingwerk Ltd.

- Independent IT consulting organization
- Focusing on **OpenEdge** and **.NET**
- Located in Cologne, Germany
- Vendor of tools and consulting programs
- 21 years of Progress experience (V5 ... V10)
- GUI for .NET early adaptor (since 10/2006)
- Just started with iPhone/iPad app development

Consultingwerk Ltd.

- Customers in Germany, Europe, USA
- Working with small to large Progress Partners and direct end users
- Supporting some of the largest Progress Partners in Germany, Belgium, The Netherlands, Austria and UK with application modernization and user interface technologies
- Network of partnering consultants, like ic4b for Web UI's, Whitestar Software, DBAppraise

Solutions for the OpenEdge GUI for .NET

- **WinKit**
- SmartComponent Library
- Dynamics4.NET

- Tools can be used together or separately
- Share common code base

Agenda

- Overview OpenEdge GUI for .NET
- Adoption challenges
- Adoption strategies using WinKit
- WinKit Features
- Customer Examples
- Hands-On Labs

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OpenEdge GUI for .NET

A Microsoft® **.NET™** based Windows graphical user interface that can **replace** or be **integrated** into an existing OpenEdge GUI application

OpenEdge GUI for .NET

- State-of-the-art UI on the Windows desktop
- Integrated feature of OpenEdge 10.2A and 10.2B
- Supported by both GUI clients
 - fat client, prowin32.exe
 - WebClient
- No separate license required
 - Deployment
 - Development
- Access and use any .NET control

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Adoption Challenges

- Need to support pre-10.2A users as well
- Not every Progress partner has SCM strategy that supports parallel development on two versions of the same application
- Thousands of existing screens
 - Progress isn't used to build small applications
- Many Progress applications haven't adopted latest language features at all

Adoption Challenges

- Training requirements
 - OO fundamentals (new programming paradigm)
 - .NET fundamentals
 - Infragistics controls (or any other vendor)
 - OpenEdge 10.0: ProDatasets etc.
- New tool: OpenEdge Architect

Adoption Challenges

- How much modernization is possible without a rewrite?
- What are our architecture requirements?
- Where's a reference implementation of that new target architecture?
- Our application depends on a tailored framework and templates – how can we migrate that framework?

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GUI for .NET adoption using WinKit

- Consultingwerk's best practice approach to GUI for .NET adoption
- WinKit is based on Embedded Windows
- ABL Windows embedded into .NET Forms
- Core feature of OpenEdge 10.2A and 10.2B
- Contents of Window will be embedded into a .NET control

GUI for .NET adoption using WinKit

- Original source code used in the context of GUI for .NET
- Just minor modifications that typically remain code compatibility with previous Progress releases
- **No architectural change required**
- **Existing application framework or templates used**
- Developers may continue to use AppBuilder for maintenance of existing screens

GUI for .NET adoption using WinKit

- Original intention was mixed mode MDI
- Upgrading the appearance of ABL application by using .NET controls (menu, toolbar, Explorer bars, dockable panes, lookups with UltraGrid, ...)
- Step-by-step introduction of additional (Infragistics) controls to increase users productivity
- Active X controls contained on the window are well supported (documented in K-Base)

GUI for .NET adoption using WinKit

- WinKit simplifies the integration of ABL windows into the OpenEdge GUI for .NET using
 - Enhancements to existing programs, templates and the framework using include files
 - An API / SDK that simplifies embedding and enhancing existing windows
 - Templates for GUI for .NET designs that can be adjusted to a customers demand

Demo

- WinKit Sample MDI container showing various embedding scenarios
 - AppBuilder view
 - Embedded view (runtime)
 - MDI Childs with Toolbar
 - Independent Windows with ribbons
 - Turning ADM2 Tabfolder into dockable panes
 - Overlaying ABL Browse Widget with UltraGrid control

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WinKit Features

- prebuild GUI for .NET Templates that simply embedding and enhancing of ABL Windows
- functional .NET MDI container
- integration into GUI for .NET by adding 3 include files into program windows
- very often these include files can be added to existing framework without modification of .w files
- menu and toolbar rendering to Infragistics UltraToolbarsManager

WinKit Features

- all program logic remains in the .w file (procedural code)
- .NET event handlers execute ABL triggers as needed
- ABL triggers enabled to cancel processing of .NET events like Form- or Window-Closing

Toolbar- and Ribbon Designer

- Developer utility that allows to modify the generated Infragistics menu and toolbar structures using a Visual Studio like UI Designer
- Add Images, change menu structure, use additional UltraToolbarsManager controls
- **Turn Menu and Toolbar into a Ribbon!**

WinKit Features

- Further enhancements of ABL windows, like
 - integration of DatePopups
 - replacement of selected ABL Widgets with .NET Controls
 - replacement of ABL Browse with UltraGrid
 - integration of SplitContainer, UltraTabFolder or Dockable Panes
 - changes to colors and fonts used
 - ...

WinKit Migration Tool

- automated migration of ABL Windows
- based on AppBuilder, AppBuilder API
- integration of required include files
- integration of hooks into existing program logic to refresh .NET UI when required
- removes Windows Icon
- process a single file at a time or a list of files

Demo

- Order maintenance
 - ABL UI
 - Embedded, basic features
 - Toolbar and menu rendered
 - Browser replaced with UltraGrid
 - Embedded, advanced features
 - SplitContainer, UltraTab
 - Ribbon

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Reference I: Update Texware / Germany

- ERP for textile producers of a German Progress partner
 - AppBuilder view
 - Runtime GUI for .NET
- Own framework, developed in V7/V8
- Transition to multi-window application
- Challenge with pessimistic locking and large transactions
- 10 days of research, customization of customers framework and WinKit



Reference I: Update Texware / Germany

<Stammdaten - Firma>

Datei Extras Hilfe Fenster

Men

Stammdaten

- Firma
- Sprache
- Kundenstamm
- Artikelstamm
- Bestellberwachung
- Auftragserfassung
- Auftragsberwachung
- Disposition
- ndern Font
- ndern Farbe

Stammdaten

Men-Baum

Sonstiges

Stammdaten - Firma

Firma: 1 Nation: DE
 Bezeichnung: Progress Sprache: K
 Steuernummer: 123 123123 345 Währung: EUR
 Umsatzsteuer-Identnr.: DE1234567890
 ILN-Nummer:
 Zollnummer:

Firma	Bezeichnung	Nation	Sprache	Währung	ZWE Whr
1	Progress	DE	K	EUR	
2	Mustermendant	DE	D	EUR	

Schnellzugriff

Funktionen

- Adressen
- Bereiche

International

- Sprache
- Währung
- Nation

Schlüsseldaten ...

- EAN-Nummer
- Löschgründe
- Blocktexte
- Kopftexte
- Fußtexte

Schnellzugriff Termine

Reference I: Update Texware / Germany

<Stammdaten - Firma>

Menü: Datei, Extras, Hilfe, Fenster

Stammdaten - Firma

Firma: 1 Nation: DE
 Bezeichnung: Progress Sprache: K
 Steuernummer: 123 123123 345 Währung: EUR
 Umsatzsteuer-Identnr.: DE1234567890
 ILN-Nummer:
 Zollnummer:

Firma	Bezeichnung	Nation	Sprache	Währung	ZWE Whr
1	Progress	DE	K	EUR	
2	Mustermendant	DE	D	EUR	

Schnellzugriff

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Schnellzugriff Termine

Reference I: Update Texware / Germany

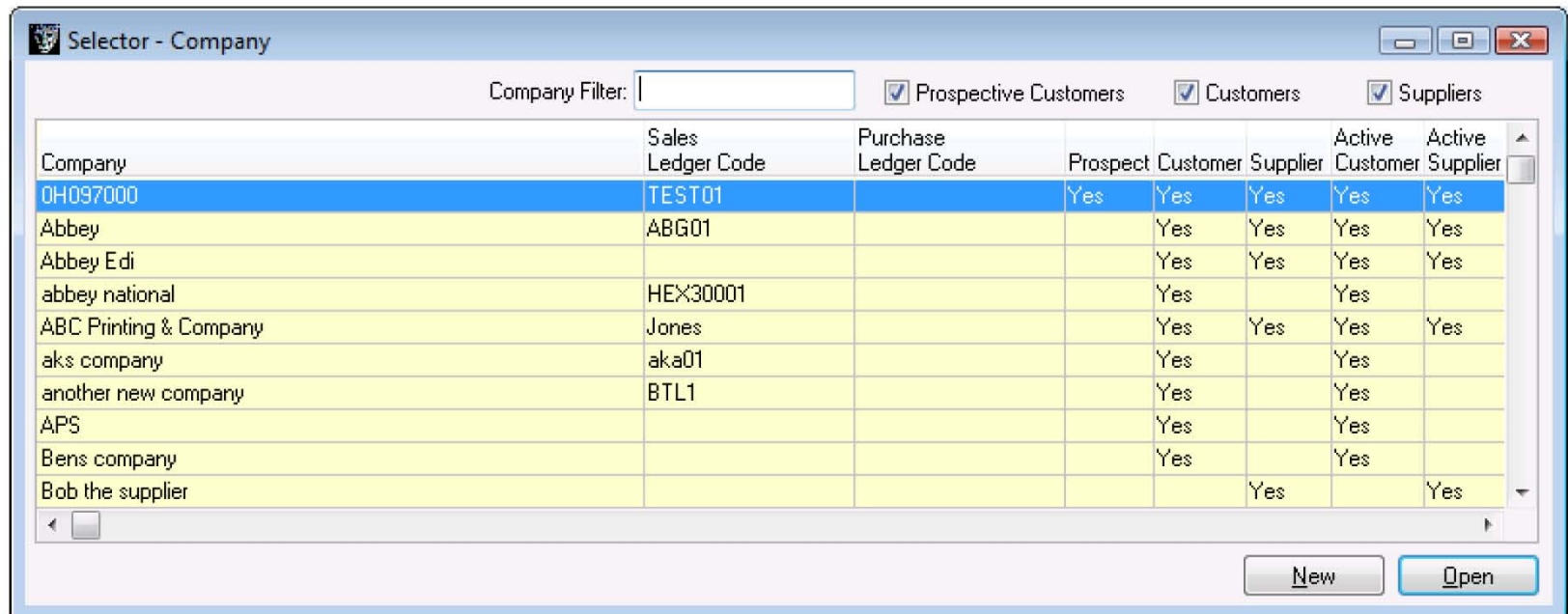
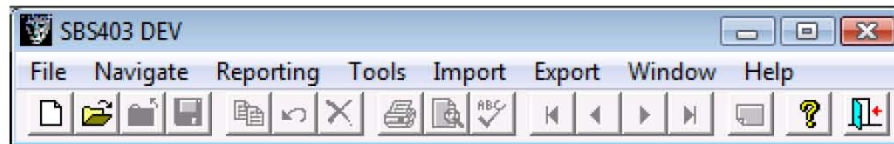
- Case study available at:
- <http://www.consultingwerk.de/update-texware/>

Reference II: Shuttleworth / UK

- UK-based Progress Partner
- Huge ERP system for printing industry
- V8 style framework (ADM1-like)
- Clear vision of Outlook look-and-feel
- Browse windows as MDI children
- Data windows as separate windows
 - Similar to Outlook where Emails and Appointments are opened separately
- Majority of changes in existing framework
- Minor changes to existing screens



Menu Toolbar & Browse Window



Menu Toolbar & Browse Window

The Shuttleworth System <Selector - Company>

Function Selector

New Open Copy Delete Notes First Previous Next Last Reports

Record Navigation Reporting

Navigation Selector - Company

Entities Home Company Event

Company Filter: Prospective Customers Customers Suppliers

Drag a column header here to group by that column.

Company	Pros	Activ	Acti	Main Site!Post Code
0H097000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CW7 3ALXXX
Abbey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	AB1 2BA
Abbey Edi	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SD2 5FG
abbey national	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
▶ ABC Printing & Company	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NG1 3MA
aks company	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NN3 44N
another new company	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
APS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	APS
Bens company	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NN9 6TT
Bob the supplier	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	LE16 7PQ
BOS Payment Services	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EH12 9HP
Bradbury and Co	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
BT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Butlin and Co.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LE16 8AY
Dave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Dave 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Eastpoint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Halifax	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LK3 5TT
HBOS plc	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EH1 1YZ
highland company	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Howard Smith (csv)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Howard Smith Demo Bite	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Imported Company 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	bb99 6FS

Entities
New Group
New Group

The Shuttleworth System <Selector - Company>

Home Functions Style Selector

New Open Copy Delete Notes First Previous Next Last Reports

Record Navigation Reporting

Navigation

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- Home
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Howard Smith (csv)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Howard Smith Demo Bite	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Imported Company 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	bb99 6FS

Entities

- New Group
- New Group

Shuttleworth: Data Window

Company - ABC Printing & Company

Company | Customer Details | Supplier Details | Sites | Contacts | Communication Numbers | Events

Main Representative: Mark Bradley
 Market: England g
 Default Pricing Group: martins test
 Default Special Uplift: (None)
 Default Special Uplift %: 0.00
 Default General Uplift: (None)
 Default General Uplift %: 0.00
 Round Up: 0
 Default Quote Print Price: (None)
 Quote Print Run On Price: (None)
 Company Code:
 Business Unit:
 Pecs Code:
 Pecs Overall Code:
 Job/Orders Available
 Deliveries Available
 Multiple Jobs on Automatic Invoices
 Multiple Sop Orders on Automatic Invoices

Default Sales Nominal:
 Vat Code: (None)
 Vat Registration Number: ABC135798642
 Accounts System: Company 1
 Sales Ledger Code: Jones
 Settlement Days: 0
 Settlement Discount %: 0.00
 Invoice Discount %: 0.00
 Default Invoice Template: Bob Invoice
 Default Credit Template: (None)
 Default Quotation Template: (None)
 Default Production Delivery Template: Bob del note
 Summary Exchange Values: System Default
 Default Currency:
 Exchange Rate: 0.00000000
 Default Commodity:
 Default Delivery Term:
 Default Carrier: Standard UPS UK
 Warehousing Charges

Customer | SOP Details | Other Details | Reps | Estimates | Jobs | Master Estimates | Completed Jobs | Brands | Charge C

New OK Cancel Apply

Shuttleworth: Data Window

Company - ABC Printing & Company

Record **Navigation**

New OK Cancel Save Delete Notes First Previous Next Last

Company **Customer Details** Supplier Details Sites Contacts Company Events

Main Representative: Mark Bradley	Default Sales Nominal:
Market: England g	Vat Code: (None)
Default Pricing Group: martins test	Vat Registration Number: ABC135798642
Default Special Uplift: (None)	Accounts System: Company 1
Default Special Uplift %: 0.00	Sales Ledger Code: Jones
Default General Uplift: (None)	Settlement Days: 0
Default General Uplift %: 0.00	Settlement Discount %: 0.00
Round Up: 0	Invoice Discount %: 0.00
Default Quote Print Price: (None)	Default Invoice Template: Bob Invoice
Quote Print Run On Price: (None)	Default Credit Template: (None)
Company Code:	Default Quotation Template: (None)
Business Unit:	Default Production Delivery Template: Bob del note
Pecs Code:	Summary Exchange Values: System Default
Pecs Overall Code:	Default Currency:
<input checked="" type="checkbox"/> Job/Orders Available	Exchange Rate: 0.00000000
<input checked="" type="checkbox"/> Deliveries Available	Default Commodity:
<input type="checkbox"/> Multiple Jobs on Automatic Invoices	Default Delivery Term:
<input type="checkbox"/> Multiple Sop Orders on Automatic Invoices	Default Carrier: Standard UPS UK

Warehousing Charges

Customer

SOP Details

Other Details

Reps

Estimates

Jobs

Master Estimates

Completed Jobs

Brands

Charge Codes

Company - ABC Printing & Company _ □ ×

Data

New OK Cancel Save Delete Notes

First Previous Next Last

Record Navigation

Company **Customer Details** Supplier Details Sites Contacts Company Events

Main Representative: <input type="text" value="Mark Bradley"/>	Default Sales Nominal: <input type="text"/>
Market: <input type="text" value="England g"/>	Vat Code: <input type="text" value="(None)"/>
Default Pricing Group: <input type="text" value="martins test"/>	Vat Registration Number: <input type="text" value="ABC135798642"/>
Default Special Uplift: <input type="text" value="(None)"/>	Accounts System: <input type="text" value="Company 1"/>
Default Special Uplift %: <input type="text" value="0.00"/>	Sales Ledger Code: <input type="text" value="Jones"/>
Default General Uplift: <input type="text" value="(None)"/>	Settlement Days: <input type="text" value="0"/>
Default General Uplift %: <input type="text" value="0.00"/>	Settlement Discount %: <input type="text" value="0.00"/>
Round Up: <input type="text" value="0"/>	Invoice Discount %: <input type="text" value="0.00"/>
Default Quote Print Price: <input type="text" value="(None)"/>	Default Invoice Template: <input type="text" value="Bob Invoice"/>
Quote Print Run On Price: <input type="text" value="(None)"/>	Default Credit Template: <input type="text" value="(None)"/>
Company Code: <input type="text"/>	Default Quotation Template: <input type="text" value="(None)"/>
Business Unit: <input type="text"/>	Default Production Delivery Template: <input type="text" value="Bob del note"/>
Pecs Code: <input type="text"/>	Default Quotation Template: <input type="text" value="(None)"/>
Pecs Overall Code: <input type="text"/>	Default Production Delivery Template: <input type="text" value="Bob del note"/>
<input checked="" type="checkbox"/> Job/Orders Available	Summary Exchange Values: <input type="text" value="System Default"/>
<input checked="" type="checkbox"/> Deliveries Available	Default Currency: <input type="text"/>
<input type="checkbox"/> Multiple Jobs on Automatic Invoices	Exchange Rate: <input type="text" value="0.00000000"/>
<input type="checkbox"/> Multiple Sop Orders on Automatic Invoices	Default Commodity: <input type="text"/>
	Default Delivery Term: <input type="text"/>
	Default Carrier: <input type="text" value="Standard UPS UK"/>
	<input type="text" value="Warehousing Charges"/>

ABL Frame

Customer

SOP Details

Other Details

Reps

Estimates

Jobs

Master Estimates

Completed Jobs

Brands

Charge Codes

Reference III: CCE / Belgium

- ERP for food industry
 - before
 - after
- Own framework, developed since V8
- ADM1 elements
- WinKit as an intermediate solution
- High demands for added productivity and “demo” features



Reference III: CCE / Belgium

Ln - 51 - Overzicht orders - CCE hoofding - 2011000034

Bestand Fiche Zoeken Extra Tabs Teksten ?

Ordernummer: 2011000034 Ordertype: **sr** Vestiging: **SEGA** Entiteit: 1

Leverklant: **BART001** : **Bart & Van Beversluys** DHR
 BART001 **Bart & Van Beversluys** DER

Art/art Leveradres: **Edekestraat 58** BART001
 Assortiment **1120** **Bruxelles (Neder-Over-HeiBELGIË)**

Leverdatum: 0 **09/09/11** Friday Week: 201136 Status: ACCP

Bestelgeg. Factgeg. Leverg. (F1) Opslaan van de gegevens. Direct. lev.

Ritcode: **201136CA5D** : LFS VR - WO Gewenste leverdatum: **28/01/11**
 vest afh dr klant: Afspraaknr: Uitleverdatum: **09/09/11**

Laadkade: Prioriteit: **0** Backorders

Vervoerder: **LFS001** : Laurent Formesyn Onvol levering toegelaten

Cd.verv.wz.: **3** : wegvervoer Vervoerdocument per order

Transporteenheid: **PLT** : Universele pallet EDI vervoerdocument?

Leveringsvoorwaarden: **DDU** : GELEVERD ZONDER BETAL. RECHTEN

Leveringsplaats: : Assortimentskl: **BART001**

Werkcenter: : Def.UVD:

User Interface modernization de datum waarop het order zal geleverd wo

Reference II: CCE / Belgium

CK1 - 25L. Übersicht Aufträge - Auftragkopf - 2011000034

Bestand Fächer Zocken Extra Tabs Texten

☰ ✕ 🖨️ 🔄 ⏪ ⏩ 📄 📁 📧 📎

Auftrag-Nummer: 2011000034 Bestell-Typ: sr Filiale: SEGA Einheit: 1

Lief-Kunde: BART001 : Bart & Van Beversluys DHR
BART001 : Bart & Van Beversluys DER

Art/art : Edekestraat 58 BART001
 Assortiment : 1120 Bruxelles (Neder-Over-Heembeek) BELGIË

Leverdatum: 0 09/09/11 Vrijdag Week: 201136 Status: ACCP

Bestelldaten | Rechnungsdaten | Lieferungsdaten | Referenzen | Direct. lev.

Bestell-Kunde: BART001 : Bart & Van Beversluys DHR
BE 1120 Bruxelles (Neder-Over-Heembeek)

B Kontakt: GSM:
 L Tel: 09 328 06 691234 Fax:

Besteldatum: 28/01/11 Bestell-Art: FAX Bestellungenbestätig.: FAX
Bestätigungsdatum: Anzahl Bestätigungen: 0 BVB-Typ:
Art Verkauf: STD : Standaard Einddatum:
Afhandeling: VRD : Dossier:

Save / Exit Save ✕ Cancel

Printer: 11 Notepad

Volgorde: 1. code

Aantal: 1 Taal code: 01 : Nederlands

Print
Print/Exit
Exit

ABL FRAME for Print Selection and Functions

Selectie:

Vestiging: * * * * *

Magazijn: * * * * *

Alle Artikel Prod.groep Configurator Art. selectie Art. Functie

Artikel Code: * * *

Kenmerk 1: * * * * *

Kenmerk 2: * * * * *

Kenmerk 3: * * * * *

Kenmerk 4: * * * * *

Aankoop km 1: * * * * *

Aankoop km 2: * * * * *

Aankoop km 3: * * * * *

Aankoop km 4: * * * * *

Merk: * * * * *

Status: * * * * *

Uiterste verbruiksdatum Van: Tot:

Produktiedatum Van: Tot:

Interne verbruiksdatum Van: Tot:

Locatie type: * * * * *

Locatie Van: * Locatie Tot: *

Stock unit: *

Omverpakking: * * * * *

Lotnummer: * Extern Lot

Fifo order: *

Leverklant: * : *

Sort Tit Tot Blad Oms

Start

Print Print & Exit Exit

PDF Mail PDF Mail (PDF Save Printerkeel PSpad

1. code
2. Omschrijving

0 1 2 3 4
5 6 7 8 9

Action Printer Volgorde Copies

Ribbon for Print Selection and Functions

Selecties: Kriteria:

Selectie: Sort Tit Tot Blad Oms

Vestiging: * * * * *

Magazijn: * * * * *

Alles Code Structuur Selectie Functie Configurator

Artikel: * * *

Kenmerk 1: * * * * *

Kenmerk 2: * * * * *

Kenmerk 3: * * * * *

Kenmerk 4: * * * * *

Aankoop km 1: * * * * *

Aankoop km 2: * * * * *

Aankoop km 3: * * * * *

Aankoop km 4: * * * * *

Merk: * * * * *

Status: * * * * *

Uiterste verbruiksdatum Van: Tot:

Productiedatum Van: Tot:

Verpakkingsdatum Van: Tot:

Locatie type: * * * * *

Locatie Van: Locatie Tot:

Stock unit: *

Omverpakking: * * * *

Lotnummer: * Extern Lot

Fifo order: *

Leverklant: * : *

Agenda

- Overview OpenEdge GUI for .NET
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- Adoption strategies using WinKit
- WinKit Features
- Customer Examples
- Hands-On Labs

Agenda

- Overview
- Adoption challenges and strategies
- Running .NET Forms from ABL menus
- Simple embedding
- Embed an ABL window using the WinKit
- Add an Icon to the .NET Form
- Rendering of Toolbars
- Refreshing Toolbars
- Color customization
- Rendering of Browsers

Running .NET Forms from ABL menus

- Requires: The (one and only) WAIT-FOR Statements needs to be .NET style
- Small modification in mainmenu.w program

~~WAIT-FOR CLOSE OF THIS-PROCEDURE .~~

```
/* .NET WAIT-FOR not associated to a .NET Form */
```

```
WAIT-FOR System.Windows.Forms.Application:Run () .
```

```
/* Use this method to terminate the WAIT-FOR, e.g  
from a WINDOW-CLOSE trigger. */
```

```
System.Windows.Forms.Application:Exit() .
```

Running .NET Forms from ABL menus

- Requires: The (one and only) WAIT-FOR Statements needs to be .NET style
- Small modification in mainmenu.w program

**Replace
WAIT-FOR for
.NET support**

~~WAIT-FOR CLOSE OF THIS-PROCEDURE .~~

```
/* .NET WAIT-FOR not associated to a .NET Form */
```

```
WAIT-FOR System.Windows.Forms.Application:Run () .
```

```
/* Use this method to terminate the WAIT-FOR, e.g  
from a WINDOW-CLOSE trigger. */
```

```
System.Windows.Forms.Application:Exit() .
```

Running .NET Forms from ABL menus

- Code of MAIN-BLOCK after implementing the .NET WAIT-FOR

MAIN-BLOCK:

```
DO ON ERROR UNDO MAIN-BLOCK, LEAVE MAIN-BLOCK
ON END-KEY UNDO MAIN-BLOCK, LEAVE MAIN-BLOCK:
RUN enable_UI.
IF NOT THIS-PROCEDURE:PERSISTENT THEN
    WAIT-FOR System.Windows.Forms.Application:RUN ().
/* WAIT-FOR CLOSE OF THIS-PROCEDURE.*/
END.
```


Running .NET Forms from ABL menus

- Code of CLOSE Trigger to end the session

```
ON CLOSE OF THIS-PROCEDURE DO:  
  RUN disable_UI.
```

```
  System.Windows.Forms.Application:Exit ().  
END.
```

Running .NET Forms from ABL menus

- Hands on:
Source converting (keep old ABL menu) (Lab 1)

Agenda

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- Refreshing Toolbars
- Color customization
- Rendering of Browsers

Simple embedding

- Calling an ABL window from a .NET Form
Hands on: Lab 2.1
- Embedding ABL windows using the Progress.Windows.MdiChildForm
Hands on: Lab 2.2
 - Create an include file (makeEmbedded.i)
 - Add the include file to the ABL window code
- Run a .NET Dialog from an ABL window
Hands on: Lab 2.3

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Embed an ABL window using the WinKit

- List of include files supplied by the WinKit
 - `src/winkit/embedwindow.i`
 - `src/winkit/embedfinalize.i`
 - `src/winkit/closewindow.i`

Embed an ABL window using the WinKit

- Hands on:
Lab 3

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Add an Icon to the .NET Form

- Set the Icon property of the oFormControl

```
PROCEDURE finalizeEmbedding :
```

```
/*-----
```

```
    Purpose:
```

```
    Notes:
```

```
-----*/
```

```
/* Mike Fechner, Consultingwerk Ltd. 11.11.2010
```

```
    Load an Icon for the .NET Form */
```

```
FILE-INFO:FILE-NAME = "images\window2.ico".
```

```
IF FILE-INFO:FULL-PATHNAME > "" THEN
```

```
    oFormControl:Icon = NEW System.Drawing.Icon
```

```
        FILE-INFO:FULL-PATHNAME ) .
```

```
END PROCEDURE.
```

Add an Icon to the .NET Form

- Hands on:
Lab 4

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Rendering of Toolbars

- Build a Toolbar from the button widgets in the first 1.5 rows of the ABL window
- Move up the window frame to hide the buttonwidgets

```
Consultingwerk.Util.UltratoolbarsHelper:BuildToolbarFromFrame  
  (FRAME {&frame-name}:HANDLE,  
   {&window-name}:HANDLE,  
   1.5,  
   oForm:ToolbarsManager) .
```

```
oForm:WindowContainerRowOffset = 27.
```

Rendering of Toolbars

- Hands on:
Lab 5

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Refreshing Toolbars

- Invoke the RefreshTools method of the UltratoolbarsHelper wherever the state of a button gets changed in code

FINALLY:

```
Consultingwerk.Util.UltratoolbarsHelper.RefreshTools  
    (oForm:ToolbarsManager) .
```

END FINALLY.

Refreshing Toolbars

- Hands on:
Lab 6

Agenda

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Color customization

- Set the background color of each frame
- Set the background color of the ABL window

```
Consultingwerk.Util.WidgetHelper:SetFrameBackgroundColor  
  (&window-name, 33, 15, 15).
```

```
{&window-name}:BGCOLOR = 33.
```

Color customization

- Hands on:
Lab 7

Agenda

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Rendering of Browsers

- Define reference variable for the RenderedBrowseControl

```
DEFINE VARIABLE oGrid AS  
Consultingwerk.WindowIntegrationKit.Controls.RenderedBrowseControl  
NO-UNDO.
```

Rendering of Browsers

- Create the .NET control

```
oGrid =  
    NEW Consultingwerk.WindowIntegrationKit.Controls.RenderedBrowseControl  
        (BROWSE {&browse-name} :HANDLE,  
         oForm,  
         oForm:ClientArea,  
         FALSE,  
         THIS-PROCEDURE) .
```

Rendering of Browsers

- Implement view and hide logic for the RenderedBrowseControl

```
    IF rs-show = 1 THEN DO:
        VIEW FRAME frame-a .
        HIDE FRAME frame-b .
&IF DEFINED (winkitactive) NE 0 &THEN
    IF VALID-OBJECT (oGrid) THEN
        oGrid:VISIBLE = TRUE .
&ENDIF
    END.
    ELSE DO:
        HIDE FRAME frame-a .
        VIEW FRAME frame-b .
&IF DEFINED (winkitactive) NE 0 &THEN
    IF VALID-OBJECT (oGrid) THEN
        oGrid:VISIBLE = FALSE .
&ENDIF
    END.
```

Rendering of Browsers

- Hands on:
Lab 8

Questions



Don't forget to fill out your card!

Consultingwerk
software architecture and development

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The lucky winner will be announced at the end of the conference.

- **Getting started with Embedded Windows,**
A practical introduction into WinKitLE (practical hands-on workshop), Mike Fechner & Marko Rüterborries, Sunday, June 5th, 1:30 – 4:30
- **SmartComponent Library: GUI for .NET and OERA the productive way!**
(Commercial presentation), Mike Fechner & Marko Rüterborries, Monday, June 6th, 4:00 – 5:00
- **Extending the OpenEdge Architect Visual Designer,**
Mike Fechner, Tuesday, June 7th, 4:00 – 5:00
- **Extreme Windows Desktop Integration,**
Mike Fechner, Wednesday, June 8th, 11:15 – 12:15

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