









Transformation from a "Classic GUI" to GUI for .NET

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About this talk

No education for .Net programming No technical deep dive

It's about creating a very attractive UI without rewriting the entire application

- The way to define the UI from a UX standpoint
- The steps to migrate the application
- Lessons leared





Agenda







The Project



Demo



Conclusions





proALPHA – Partner for Small and Medium Sized Enterprises ----DATEN AKTUALISIEREN ----

Product: Standard software proALPHA®

Services: IT consulting, project management, implementation, seminars, maintenance,

support and hotline

Target market: Small and medium-sized industrial, trade and service enterprises

Figures: Customers 1,700

Revenue 2011/2012 54.5 million € EBIT 10.8 million €

Employees (as of 03/2013) > 560

Board of Leo Ernst Corporate development management: Werner Ernst Technology strategy

Jürgen BrandFinancesMarkus KlahnSales

Matthias Kläsener Technology and consulting

Supervisory board: Dr. W. Wawrzinek Lawyer and auditor in Hamburg

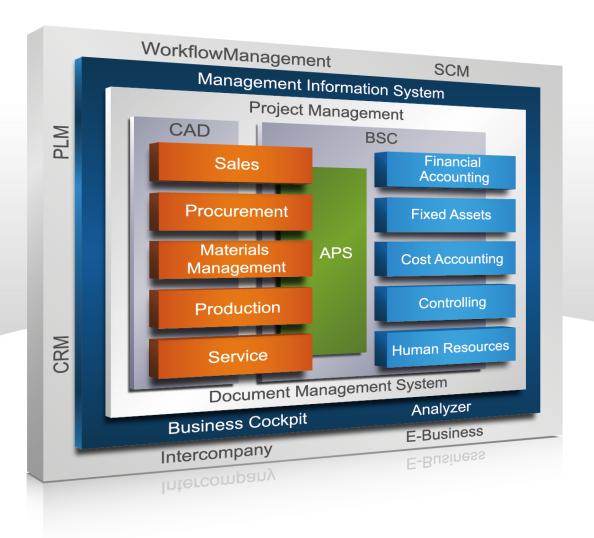
Jan-Christopher Kling Tax advisor and auditor in Kaiserslautern

Prof. Dr. H. Müller-Merbach TU Kaiserslautern

Prof. Dr. H.-O. Günther TU Berlin









International Presence of proALPHA and its Partners



Worldwide 27 branches and partners

More than 1,700 installations in more than 48 countries

15 language and country versions





Agenda







The Project



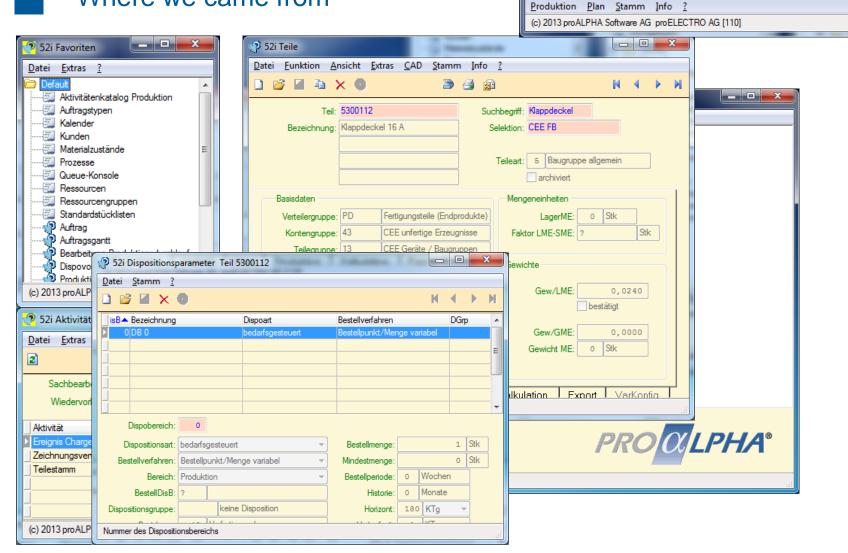
Demo



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Where we came from



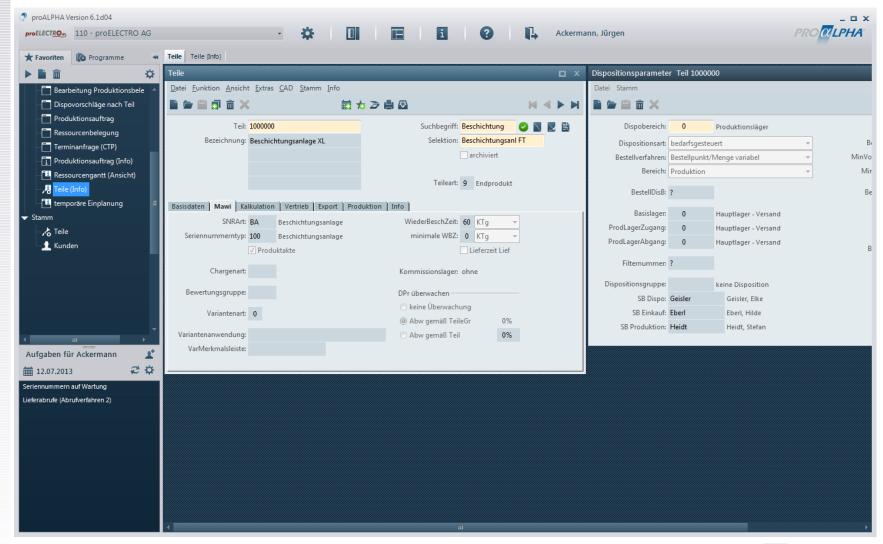
52i Teile

Datei Funktion Ansicht Vertrieb Einkauf Statistik Mawi



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What we have today







Thousend of screens within a complex soution

Somewhat strange, but powerful "Multi-Windowing" UI

- Experienced customers loved it but not always used it in the expected way
- Learning curve for new users
- Sales hated it
 - Need to explain
 - Irritating at first glance
 - "Should look lime Outlook"

????







- Project definition
- Identifying potential design professionals
- Two contracts

Q1/2012

- Presentation of current solution
- Customer visits
- Design begins

May 2012

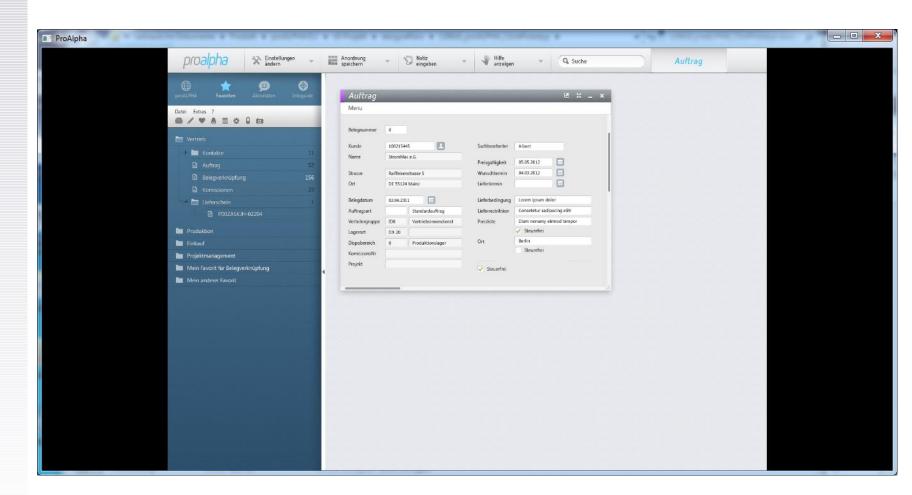
- Presentation of results
- Decision about the winning concept
- Finalizing concept

June 2012

Management presentation



What the management has seen





And now?

Sales/Marketing: want it now, but at least asap!

Development: Rewriting entire UI using different technology will

- take years
- create lots of additional costs
 - Education of developers
 - Software licenses
 - Migration of individual code







One application instead of lonesome windows

Clear structure with static position of main components (favorites, ...)

Separation of dependent/independent UI-components in scenarios

"Smart positioning" of new screens

Better readability due to other fonts and colors

The big question:

Can we implement at least most of the concepts without re-writing the entire UI?





Basically the widgets

- No control on look and feel of toggle-box, combo
- Limited control on other widgets
 - for example no left-alignment of labels
- Very old fashioned grid (browse widget)

Some others

- No "end-move" event for windows
- **.** . . .



Let's try it!



- •Workshop with designers
- •Walk through
- · Identifying options and limits
- •Working on screen concept
- •Colors, Fonts, Rectangles ...

Aug 2012

- · Combining favorites, menu and workflow monitor
- Managing position of windows
- Corporate visit in Bedford wow, we can replace the OpenEdge window by a .Net form
- · Design of managing .Net container starts

Sept 2012

- · "Point of no return" reached
- · Adjustments to ABL UI to use the new font
- Defining new icon set
- · Work on color schema

Oct 2012

- Design of new startup screen
- ·Optimization of misc. concepts and features
- •Get it ready!



The work to be done

Build the controlling container as well as the .Net window container

- Done by a small team
- Sometimes more trial and error than real programming

Build a .Net menu

- Easy since menu was already dnamically rendered (repository)
- Based on some previous work with Mike Fechner (winkit)

Adjust screens due to new fonts (24 x 6 instead of 23 x 5 pixels)

- Done independantly from the container work
- "Old" fashioned UI is implicitly still there



Lift the courtain

November 6th 2012

- Presentation for development
 - No developer outside the core team has seen the final result before
- Presentation for sales & marketing
 - ... during the technical check in preparation of the yearly customer event

November 7th 2012

Presentation during last talk of yearly customer event





.. the hard work until FCS

Understanding the secrets of .Net and the .Net bridge

- ... if you go that way, you should hire an experienced .Net developer
- From the perspective of an OE-developer some implementation techniques look like good old Assember

Tuning, Tuning, Tuning ...

- Performance is typically not a problem during a demo
- End-User wants to have a compelling and fast UI

Continuous UX optimization

Even developers begin to change their mind





Agenda







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.. Summary of demo highlights





Agenda







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Demo



Conclusions



Worry about User Experience (UX)

Today, business applications are expected to have a good UX

- UX is not automatically provided by a certain technology!
- Developers are typically not UX experts
 - Involve professionals in the process of redesign
 - Implement UX responsibilities in product management



Worry about User Experience (UX)

UX is an important part of the entire marketing and communication strategy

- The UI is the "face" of your application
- Understand, what end-users expect and how they use the software
 - Learn more about how your software is really used
 - Take your developers with you and let them talk with customers

UX optimization is an ongoing process

- Trends get out of style
- There's always potential for improvements



Designers are not technicians!

Concepts do typically not consider technical limitations

- Color gradients instead of single colors
- 4x4 pixel size bitmaps as background
- No understanding of widget limitations

That's the developers job

"nice" screens should still perform well in a cloud/virtualized environment



The good news

OpenEdge gives you a lot of options to create a real UX

You can increase UX extremely without rewriting the entire UI .. as long as you except some limitations





A final statement

Our way might not be applicable for everyone

- Business logic is the core of the application
- We can live with some restrictions, at least for a while
- OpenEdge ABL is still an option in the UI
 - Easier to use as .Net
 - One technology for the entire application

Our message to Progress

- Do not ignore the good old ABL based UI
- If possible, just give us same more "state of the art" widgets



