



Fast Track Modernization

With Uniface 9.6

Ton Blankers

Uniface Client Manager



Agenda

Why Modernize Applications?

How to Modernize with Uniface 9.6?



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Modernisation: Why?

Save Costs



Stay Competitive



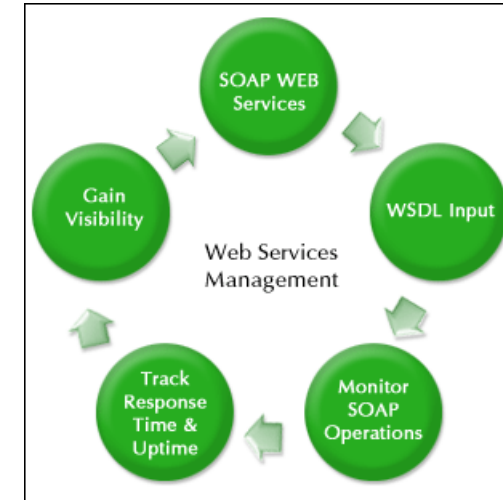
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Why modernize?

Reduce costs

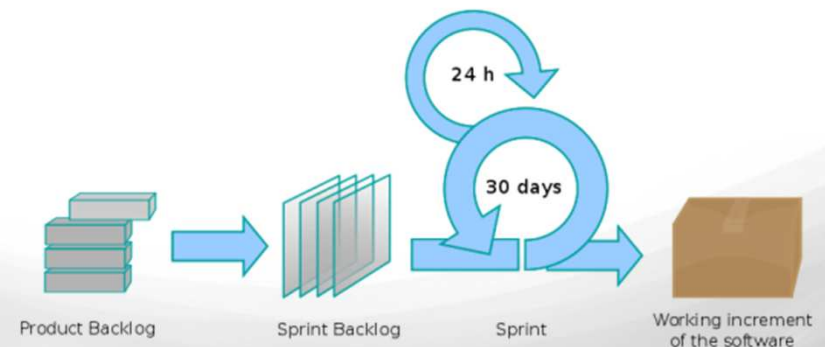
New IT Architectures

- Cloud Computing.
- Service Oriented Architecture.



Changing Development Models

- Agile development
- Developer skills, legacy vs. new apps.
- App development groups



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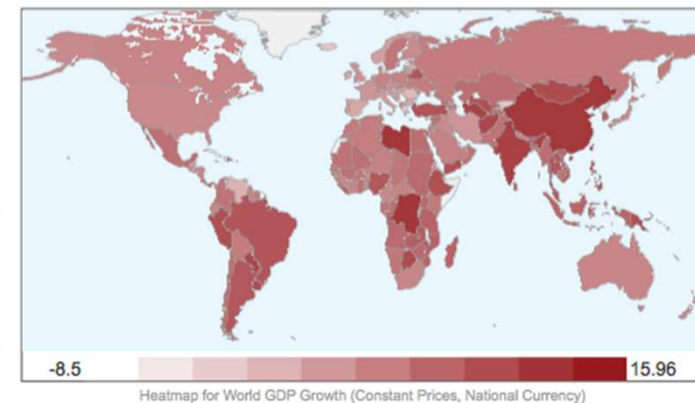
Stay competitive

Changing Business Requirements

- Less time to market
- Better user experience (UX)
- Flexible Integration with 3rd parties and social media

Globalization

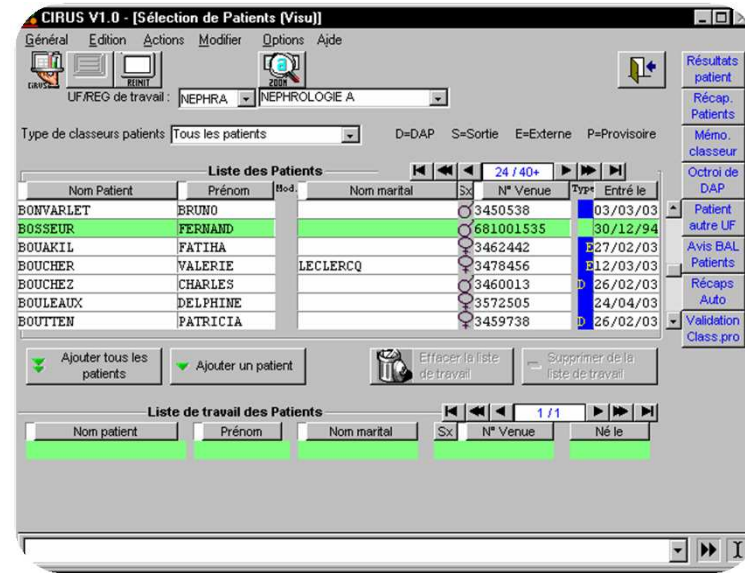
- Language independent, 24*7, multi-tenant , multiple currency, RTL and LTR, Double byte, Unicode



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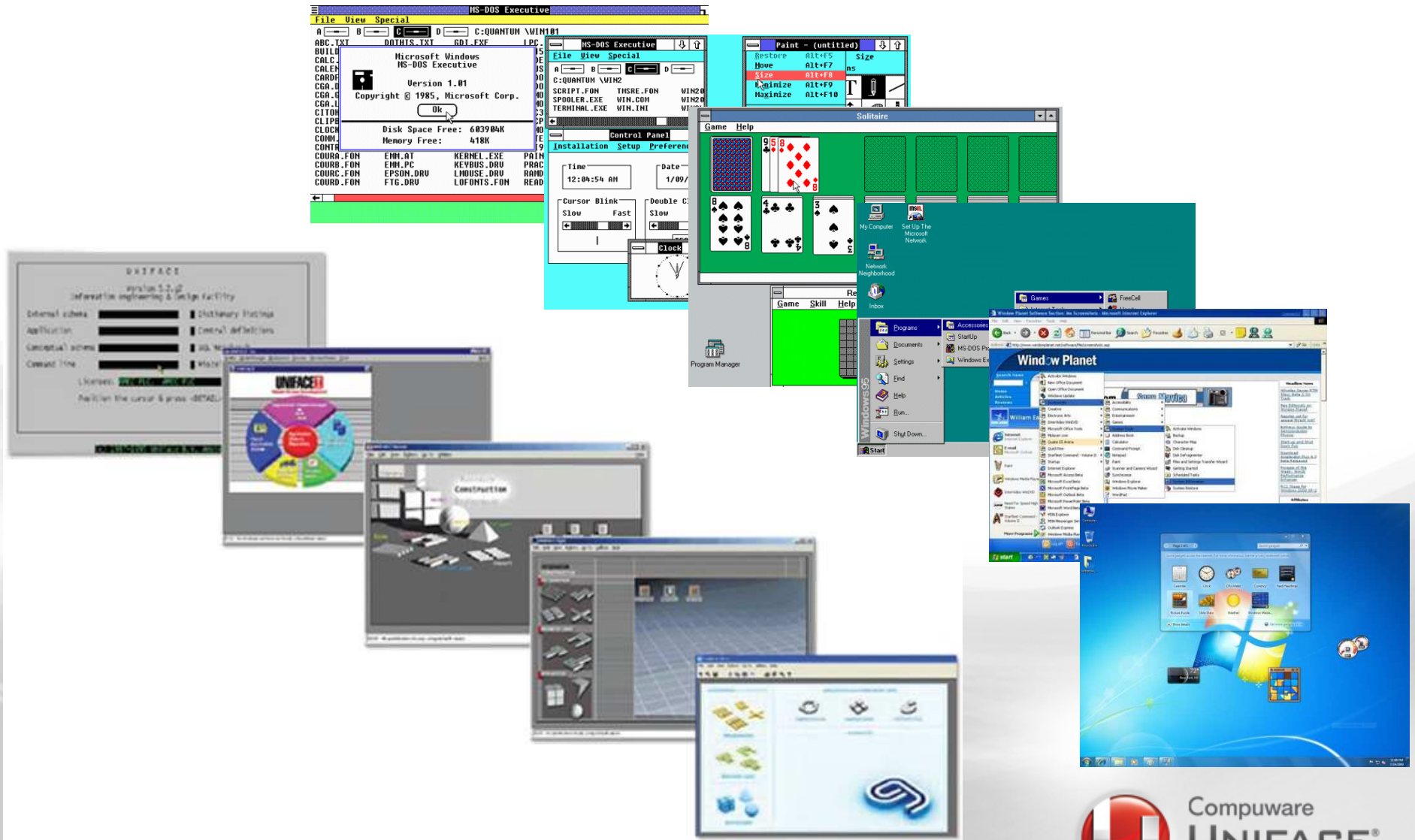
Many applications:

- are +15 years old
- are based on older architectures
- have Character-UI or 1st generation GUI interfaces
- are not SOA
- Are not on the latest software version
- (will) have currency issues
 - Non-supported OS
 - Non- supported DB's
 - Older versions of OS and DB's
 - E.g. Windows, VMS
- But still work reliable!!



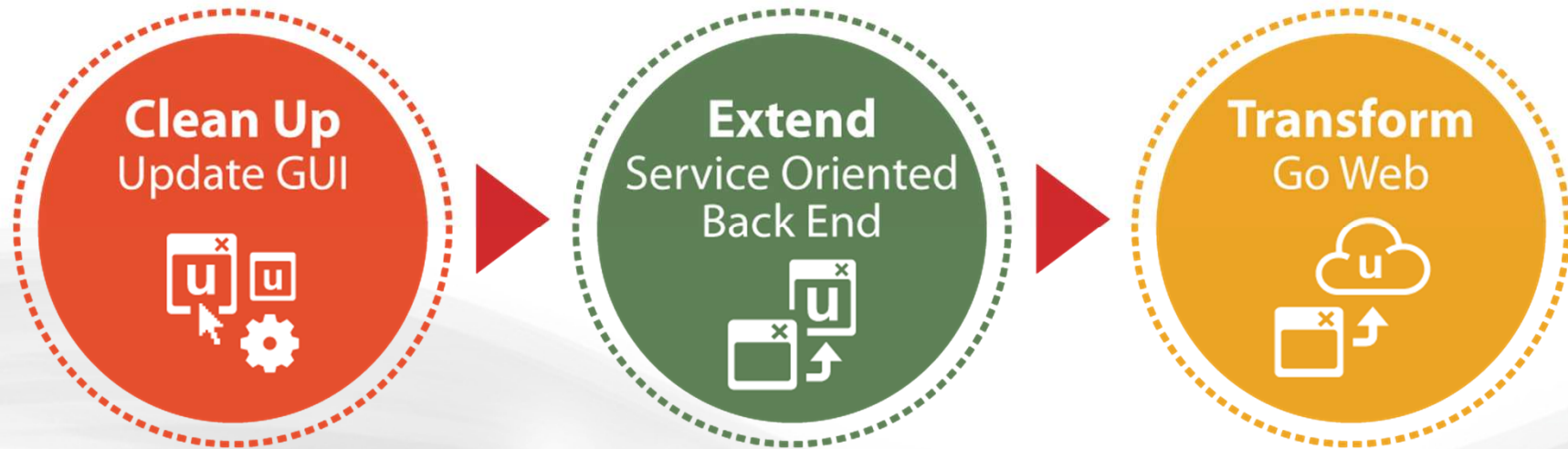
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Modernization following Microsoft



Uniface Customized Modernization

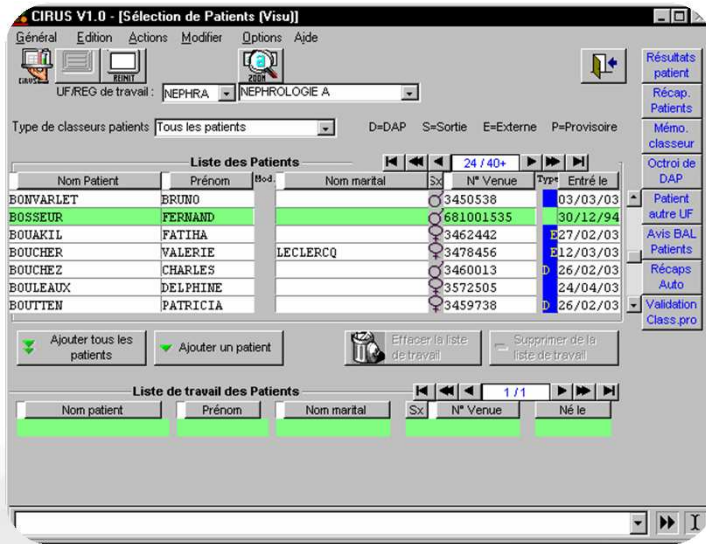
A Structured and Evolutionary Approach to Application Modernisation



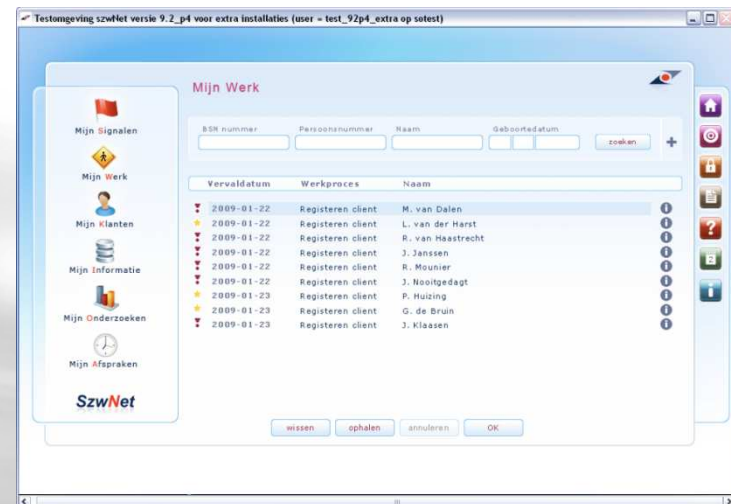
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What to modernize in Uniface Apps

Windows Front-end

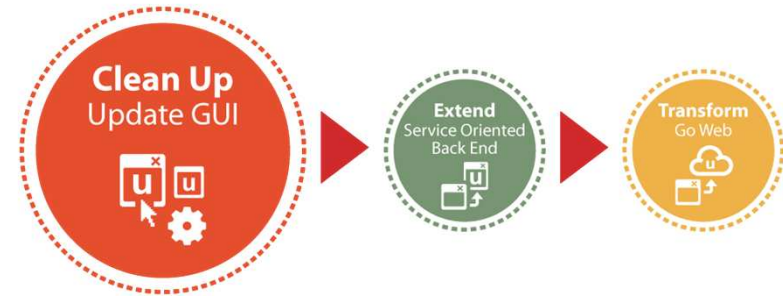


- Stay Competitive
- Better user experience
- Multi language support
- Modern developer/GUI Design skills



Use Uniface 9.X features

- GUI
 - GRID/Tab Widget
 - Buttons/Menus/Panels
 - Form Container
 - HTML 5 widget
 - Etc...
- Multilanguage
 - Unicode
 - Sorting
- If u-version < 9 => Clean up and Migrate code
 - Migration tools and services



Gartner:

Many organizations now realize that a high-quality user experience can provide competitive business advantage



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PNG Images in Uniface 9.6



Added Image support for PNG

- Higher, better resolution images GDI+
- Graduated levels of opacity (Alpha Channel)
- Is loss less (Edits well without loss of quality)
- Flexible and multiple graphic edge options
- Interlacing support (Fuzzy loading big images, slow connections)

Free background images for buttons

<http://www.altawebworks.com/free-buttons.html>

Background transparency, gradients, other effects

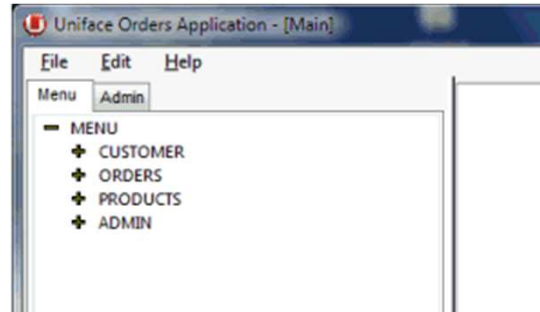
gimp (free) <http://www.gimp.org/>



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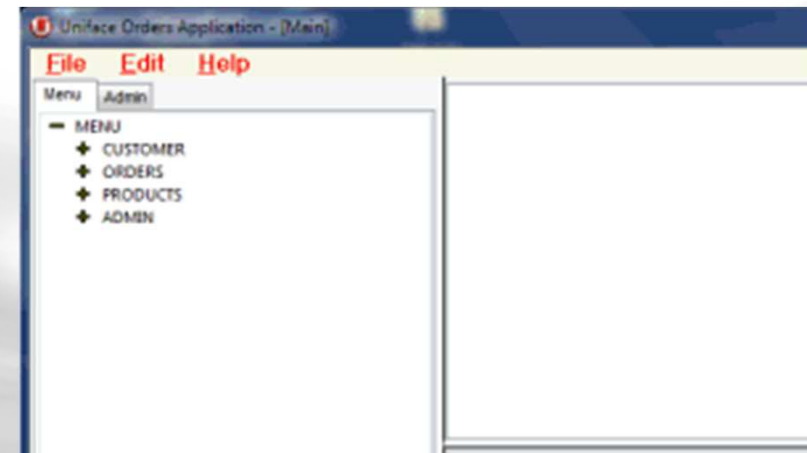
Menus and Panels in 9.6

Images in Menus and panels



User defined characteristics

- Font
- BackColor
- BackColorSelect
- BackColorSelectBorder
- BackColorSidebar
- BackColorFill
- ForeColor
- ForeColorSelect
- ForeColorDisabled
- Image Properties
- ImgSelect
- ImgSidebar
- ImgSize



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GUI Controls - Command Button in 9.6



Enhanced “Uniface” type command button
Button State indicated by Color or Images

States are:

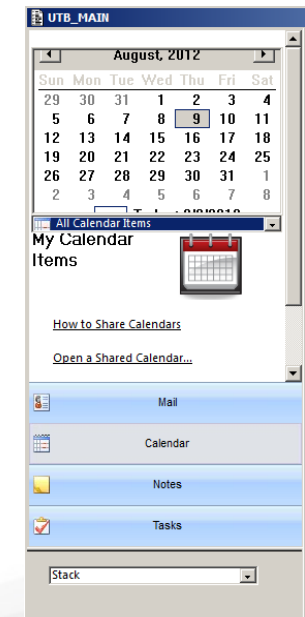
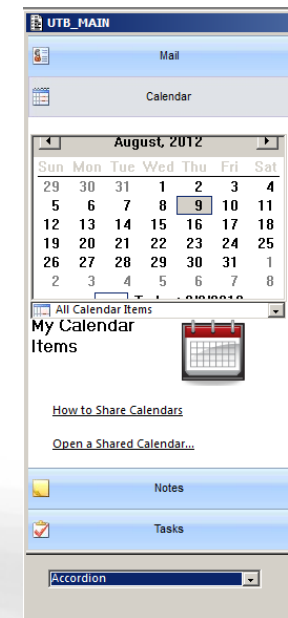
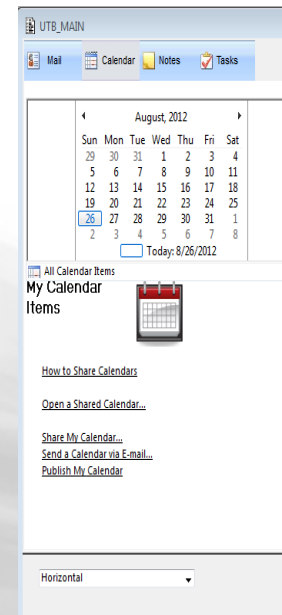
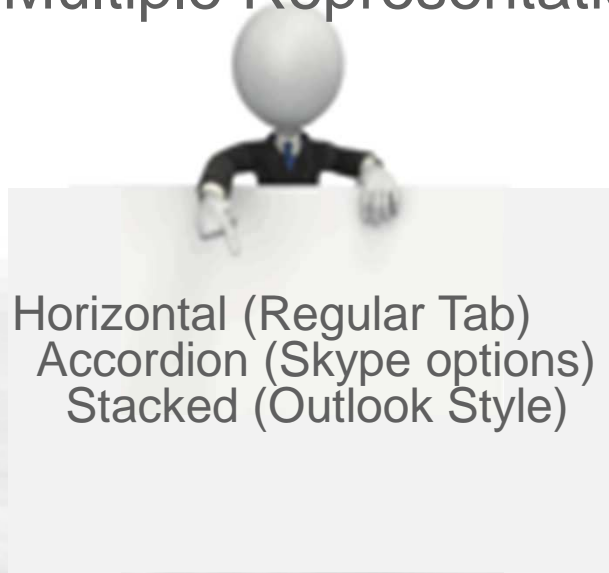
- Default (Unselected)
- Hover (Mouse over)
- Selected (Mouse down)
- Active (Field has focus)



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GUI Controls – Enhanced Tab in 9.6

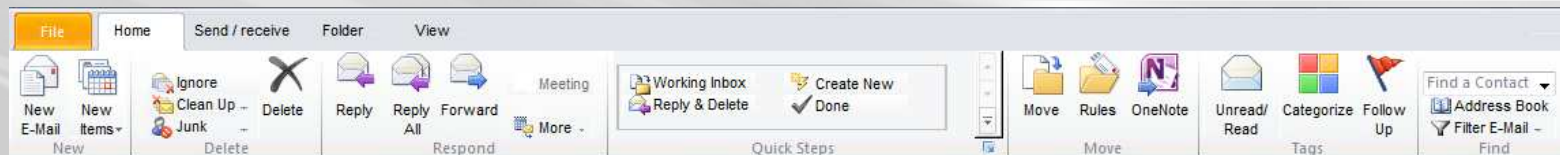
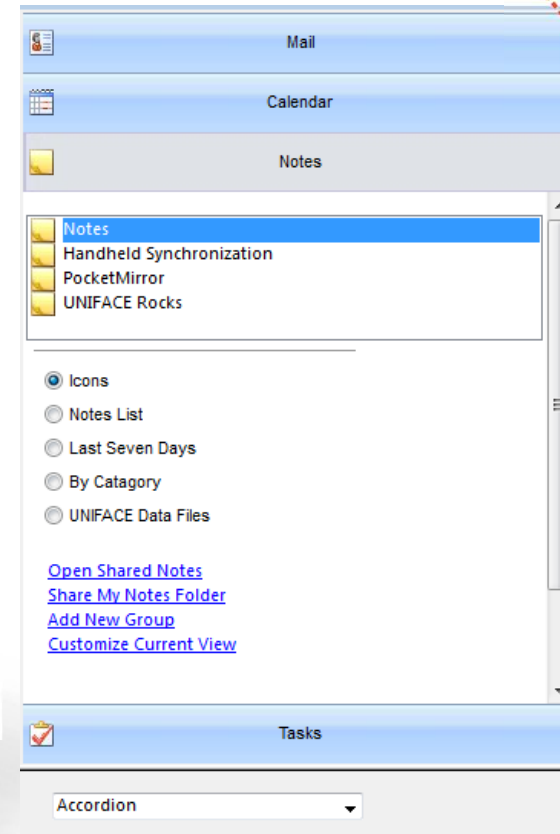
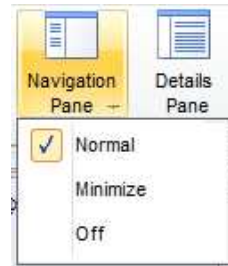
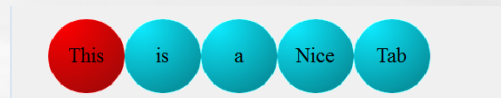
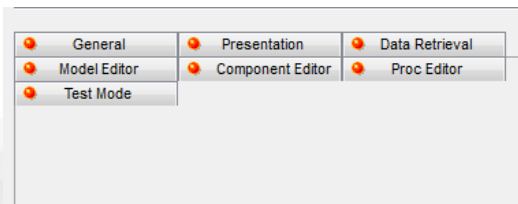
New widget utabex but existing utab stays
Multiple Representation



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Enhanced Tab uses

Clean Up
Update GUI



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GUI Controls POP-ups



- A temporary form “pops up” and can “autoclose”
- Usually associated with a Button or field
- “popup” location configurable
 - Left, right, up, down, bottom,top
 - Or set your own position/field
 - `$fieldproperties(Field) = "popuprect=5,1,100px,10px"`



- Form types
 - Normal – Can create a popup ‘window’ instantiated via `newinstance` extension “`windowtype=popup`”
 - `InheritWinProps=T` inherits form properties.
 - Popup – Simple undecorated form



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Form Container in 9.6

Clean Up
Update GUI



A field that is a container for other forms

Unlike a Tab can 'blend' with existing form

Acts like Uniface TAB

Can be nested

Can be moved and resized
(\$paintedfieldproperties)

Project Name	Start Date
Web Services 2	

Project Name	Start Date
NLS	
RSA	
APS integration	
HTML e-mail	
Encoder/Decoder	
URLrouter Enhancements	15-Dec-2008

Person	Product	Project	Requirements	Tasks
Details	Location	Roles	Tasks	

Yellow tabs	Red tabs	Blue tabs	Colorful tabs



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HTML5 Container in 9.6



Rendering engine for HTML5

‘Webkits’ engine

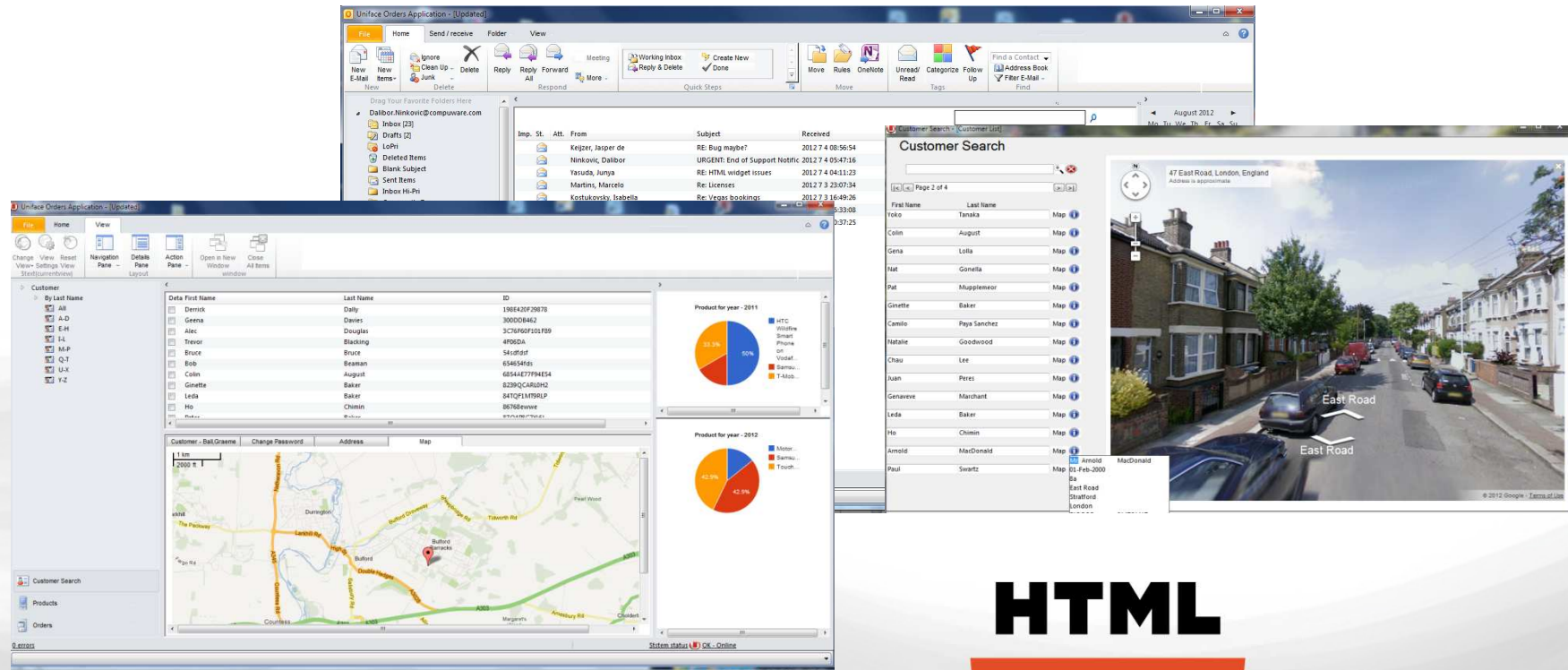
Bi-directional control

- Reference and pass parameters to JavaScript
- JavaScript call-out to Uniface extended trigger with parameters



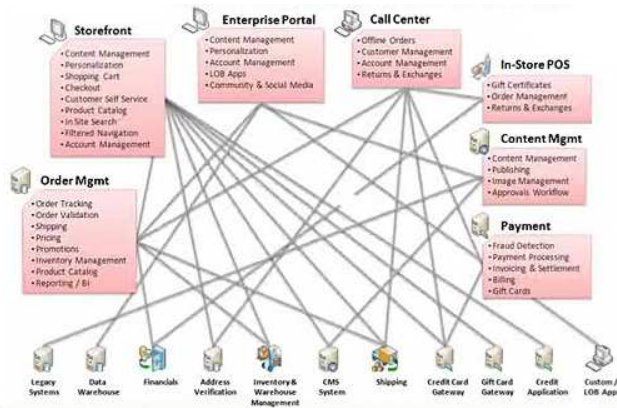
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HTML5 samples Uniface 9.6

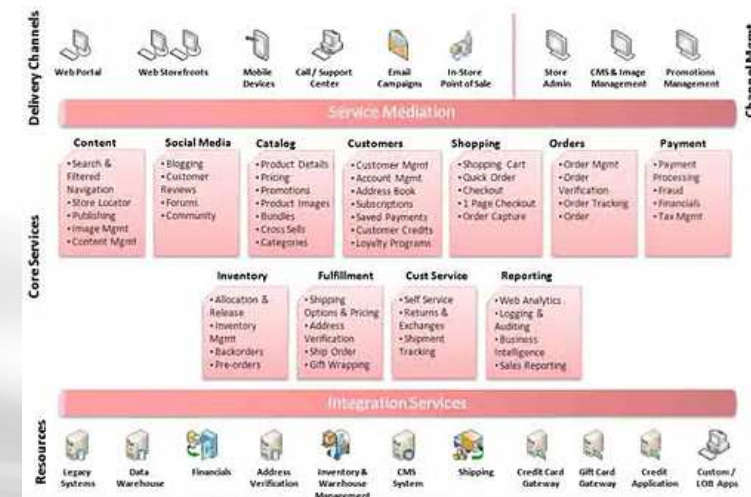


What to modernize in Uniface Apps

From stove pipe to SOA



- 3rd party Integration
- Easier to maintain and learn
- Better testing
- Web services
- Cloud computing



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Implement SOA with Uniface

- Document Application:
 - Uniface cross reference
 - Uniface PS tools
- Implement new back-end
 - Step by step
 - Uniface (Web) Services support
 - Complex data types
 - XML/JSON transformations



Gartner:

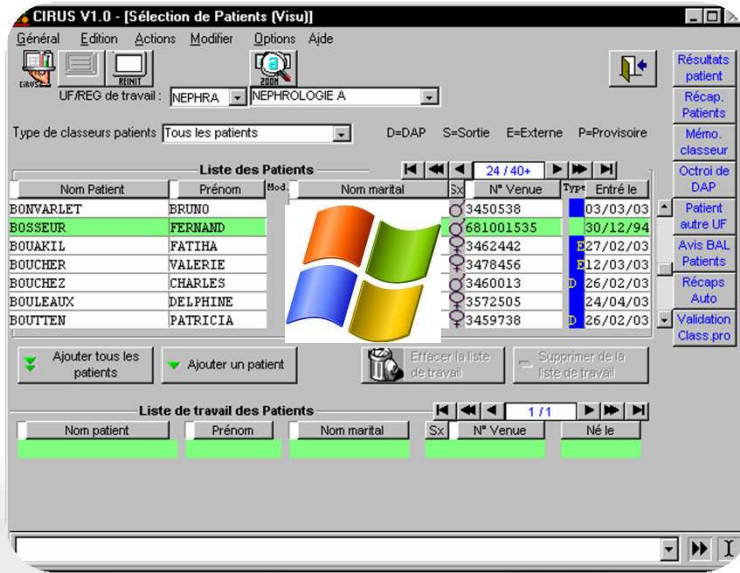
Modernizing legacy systems requires detailed understanding of the existing business logic and data models, regardless of the modernization strategy selected.



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What to modernize in Uniface Apps

From Windows to Web



- Cloud Computing
- 24/7 access
- Access everywhere
- Access from every device
- Webshops
- Easy deployment



Development for the Cloud

Implement Web with Uniface 9



- Web development with DSPs
 - Reuse application model
 - Reuse developer knowledge
 - Coexists with Windows forms
- Uniface Javascript API
 - 3rd Part web integration
 - Facebook, Twitter, Google, SAP
 - Use Javascript in Uniface triggers

Gartner:

The Web continues to evolve along multiple dimensions -- social, mobile, programmable and real time -- not just outside the enterprise, but also within. These trends reinforce each other, and the resulting scale is unprecedented.



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Modernization Options

Back End	Front End	How	Pro	Con	Result
Do Nothing	Do nothing		Low cost	Currency behind Look and feel outdated Maintenance burden	
Do nothing	Modernize	Use new Windows Features Uniface 9.x	Application looks better, Happy end users. Low cost.	Maintenance burden.	Short term solution
Modernize	Do Nothing	Turn (part of) Back end into SOA	Performance, maintenance, Ready for web	Effort not visible in application	Long term solution
Modernize	Modernize		Maintenance, Ready for Web, Competitive look and feel	Two improvement areas.	Ready for the future



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Modernization this afternoon:



Norbert Huijzer is
Certified Change Manager Master
(CCMM)
Certified Management Consultant
(CMC)

Applicatie modernisering: **De eerste stappen.**

Bedenk de goede business vragen:

- Hoe kan ik mijn kosten reduceren?
- Hoe behoud ik mijn klanten?
- Hoe krijg ik meer klanten?
- Hoe kan ik de business meekrijgen?
- Hoe ondersteun ik optimaal mijn nieuwe business processen?

Bedenk de doelen:

- Hoe verbeter ik de UX?
- Hoe kom ik op een nieuw, goedkoper platform?
- Hoe maak ik mijn onderhoud meer efficient?
- Hoe vind ik nieuwe ontwikkelaars?
- Hoe blijf ik ondersteunt door mijn leveranciers?

Bedenk de uitvoering:

- Hoe kan ik gecontroleerd migreren?
- Hoe maak ik een nieuwe User Interface?
- Hoe maak ik mijn back-end Service Oriented?
- Hoe maak ik mijn Web paginas?
- Hoe maak ik een Mobile App?

Uniface voorziet:



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Topics Workshop



- PNG Image support
- Menu enhancements
- Command Buttons
- Extended TAB
- POP ups
- Form Container
- HTML5 Container



UNIFACE
USER EVENTS

Thank you!



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