



Uniface and RIA

“Desktop sophistication in a browser”

Uniface
Celebrating **25** Years

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Subject Matter Expert - Uniface





Introduction

delivering
rich uniface applications

Uniface Celebrating 25 Years



- Define RIA
- Identify the demand for RIA
- Uniface and RIA



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Defining RIA

“Desktop Sophistication In A Browser”

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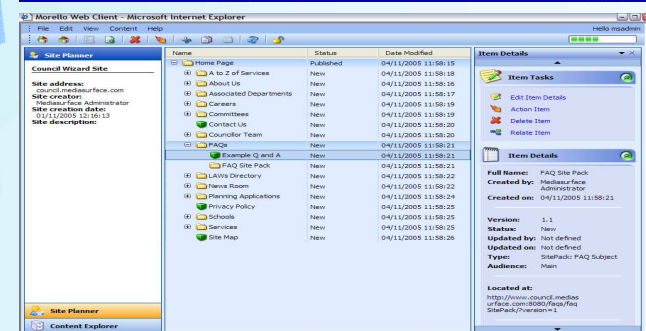
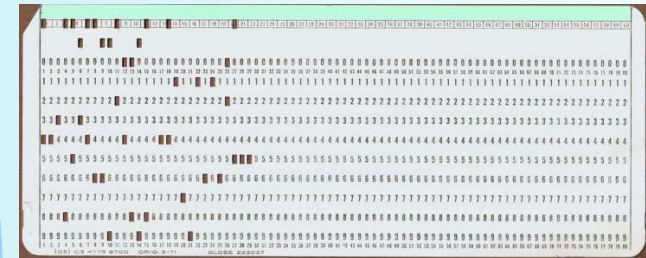




What is RIA?

Rich Internet Application

- **User interface evolution**
 - Punch Card
 - CHUI / Desktop
 - Web
 - RIA
- **Desktop like interface**
 - Rich controls
 - Responsive screens





Desktop vs. Web

- **Desktop application**
 - Feature rich interface
 - Client install
 - Objects keep state

- **Web 1.0 application**
 - No client footprint
 - Delay between actions (request/response)
 - Little state persistence





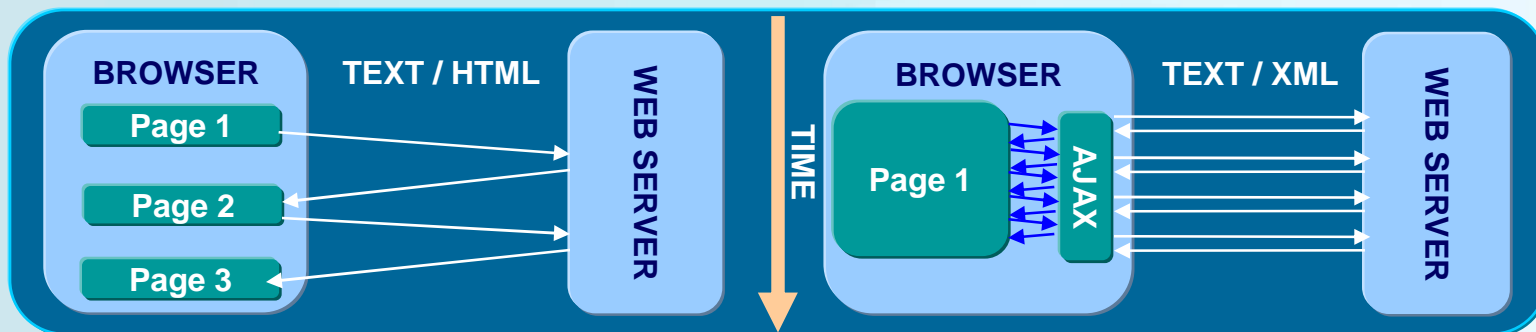
Web vs. RIA

- **Web 1.0 Interface**

- Full page requests (PIA)
- Page / batch processing
- Delay between actions

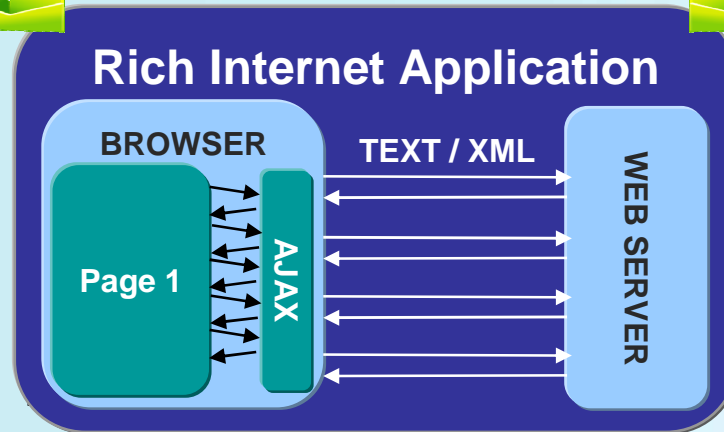
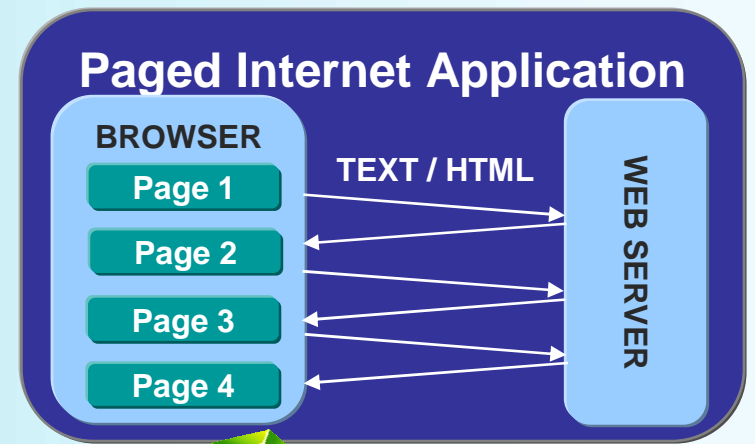
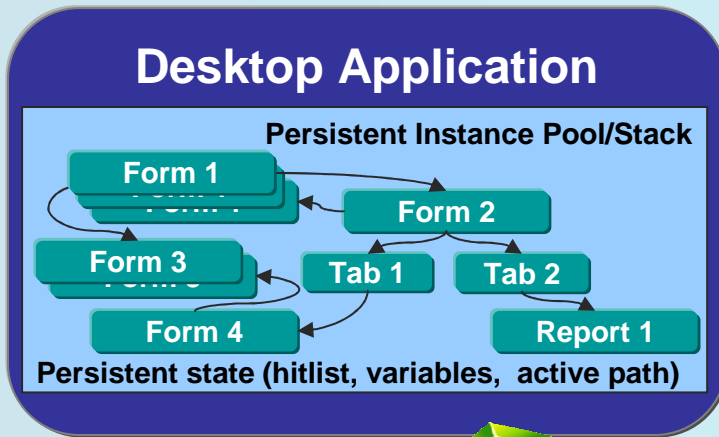
- **Ajax based RIA**

- Specific requests
- Event driven, inline logic
- Dynamic page updates





Desktop → PIA → RIA



- Rich interface
- High usability
- Reactive screens
- State persistence

- Easy deployment
- Simple upgrades
- No client footprint
- Multi channel
- Flexible pricing





RIA examples

Yahoo! Mail Make My Yahoo! your home page

Web Images Video Local Shopping more ▾

MY **YAHOO!** Web Search

Quicklinks ▾ My Page x My New Page New Tab Hi, ▾

+ Add Content Change Appearance More Options Last

▼ TV Listings Personal Assistant

Listings for Friday 24 October 2008

Monday Tuesday Wednesday Thursday Today Tomorrow Sunday

	13:00	14:00	15:00
BBC 1	13:00: BBC News at One 13:30: Regional News and Weather 13:45: Doctors	14:15: Diagnosis Murder	15:00: BBC News 15:05: L 15:30: D 15:50: S
BBC 2	13:00: Out of the Blue 13:25: Coast 13:30: Animal Park: Wild in Africa	14:15: Market Kitchen	15:00: M 15:45: F
ITV1	13:30: ITV Lunchtime News and Weather	14:00: 60 Minute Makeover	15:00: T Show
Channel 4	13:25: Only the Valiant	14:35: Red Bull Air Race 2008	15:25: C
Five	13:45: Neighbours	14:15: Home and Away 14:50: Going for Gold Extra	15:10: fi 15:15: H

For more TV Listing channels please click here

Google Maps UK

orddreef, Amsterdam Zuid-Oost Amsterdam, The Netherlands

Find businesses, addresses and places of interest. Let us know what you think.

Get Directions My Maps

Results 1 - 1 of about 1 for Hoogoorddreef, Amsterdam, The Netherlands

Hoogoorddreef
Amsterdam
The Netherlands

salesforce.com **Success On Demand.**

Salesforce CRM The AppExchange Community

Applications Platform Services Customers Partners Events Company Foundation Customer Login

The Leader in On-Demand Customer Relationship Management (CRM)

Special: Group Edition at \$9/user/month, through Oct. 31 | Full-Featured CRM Starting at \$65/User/Month

47,700 Customers | 800+ Applications | 15 Languages

▼ CRM Software as a Service **Salesforce** Business Mgrs IT Professionals Developers

Uniface **25** Years
Celebrating





Demand for RIA

"The world wants more"

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Jakob Nielsen Usability Heuristics

Principle	Desktop	Web	RIA
Consistency and standards	✓	✓	✓
Aesthetic and minimalist designs	✓	✓	✓
Help users recognize, diagnose, and recover from errors	✓	✓	✓
Match between system and real world	✓	✓	✓
Error prevention (in a timely manner)	✓	?	✓
Clearly marked exits (undo, redo, exit etc....)	✓	?	✓
Recognition rather than recall	✓	?	✓
Help and documentation (context sensitive, inline)	✓	?	✓
Flexibility and efficiency of use (accelerators)	✓	x	✓
Visibility of system status (immediate communication of status)	✓	x	✓





The demand for RIA

- **End users demand more**
 - Technical users always want more
 - Non-technical users are becoming ‘technical’
- **Users need portable applications**
 - Cross platform
 - Anywhere, Anytime, Anyplace





Business wants RIA

- **Reduced upfront costs**
 - Hardware dependencies reduced
- **Consistent browser and desktop interface**
 - Minimal retraining / increased user engagement
- **Simple rollout**
 - Centralised deployment / transparent updates
- **Security**
 - Restricted client system access





RIA benefits for providers

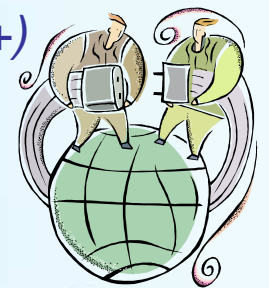
- **Increased competitiveness**
 - ‘Software as a Service’ enabler
 - Reach global market
 - Flexible pricing models
- **Security**
 - Application objects protected from client
- **Simplify deployment**





The world is ready for RIA

- **Web access is common these days**
- **High speed connections are readily available**
 - 3G, EDGE, HSPA etc... *(speeds up to 14MB+)*
 - (A)DSL Broadband *(speeds up to 24MB+)*
 - Wi-Fi / WLAN (IEEE 802.11) *(speeds up to 200MB+)*
 - Ethernet *(speeds up to 1GB+)*
- **Much of the world is now web capable**





RIA & Uniface

“Introducing Dynamic Server Pages”

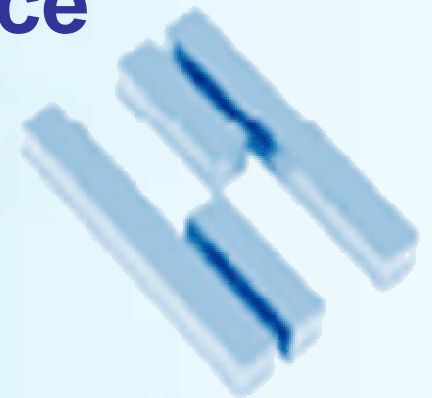
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Uniface RIA Overview

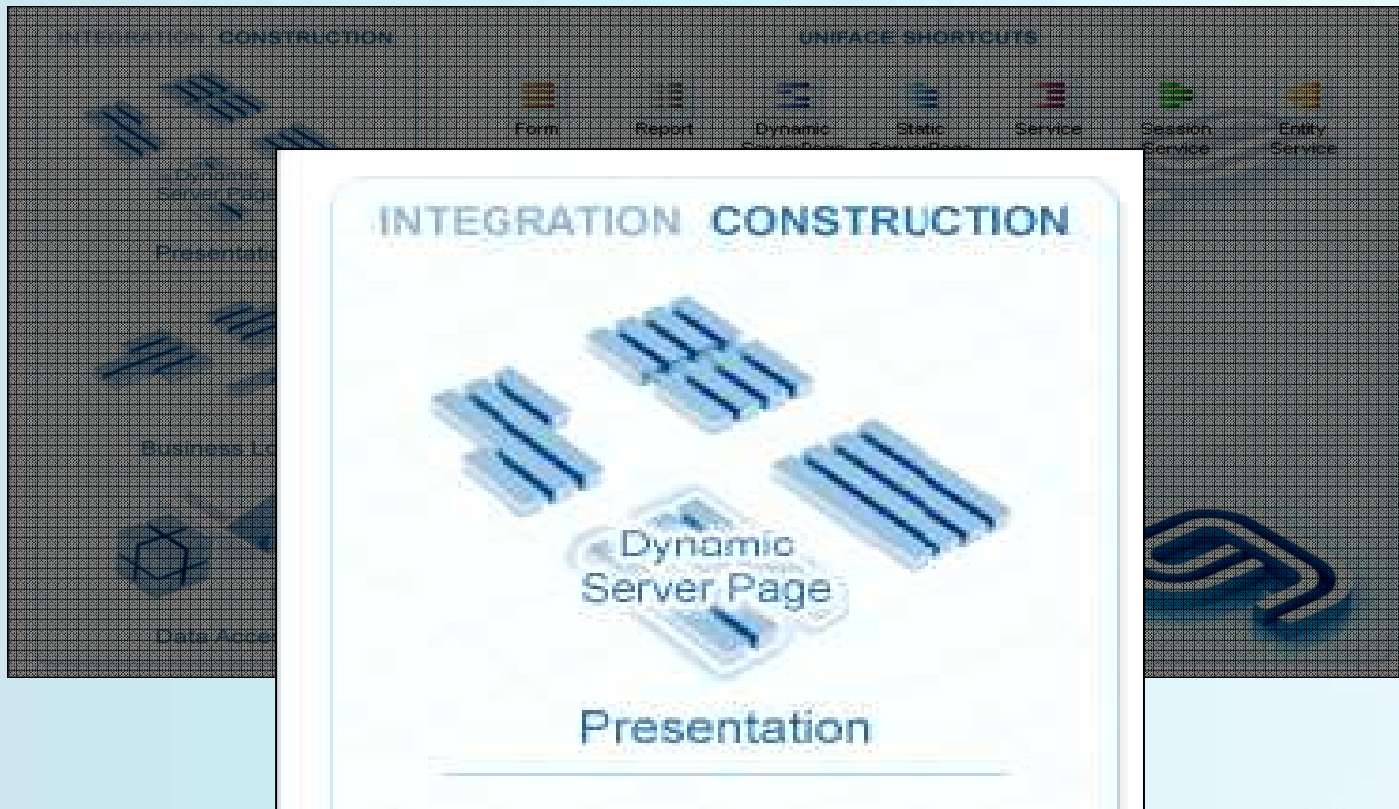
- **Web 2.0 development simplified**
 - RIA constructs managed by Uniface
- **Integrated WYSIWYG editor**
 - Standards compliant
 - XHTML, CSS etc....
- **Leverage the full power of Uniface**
 - Integrated APS (Uniface, Flow & View)
 - Model driven development
 - Platform independence
 - Multichannel deployment
 - ...





RIA and Uniface

New component type: Dynamic Server Page

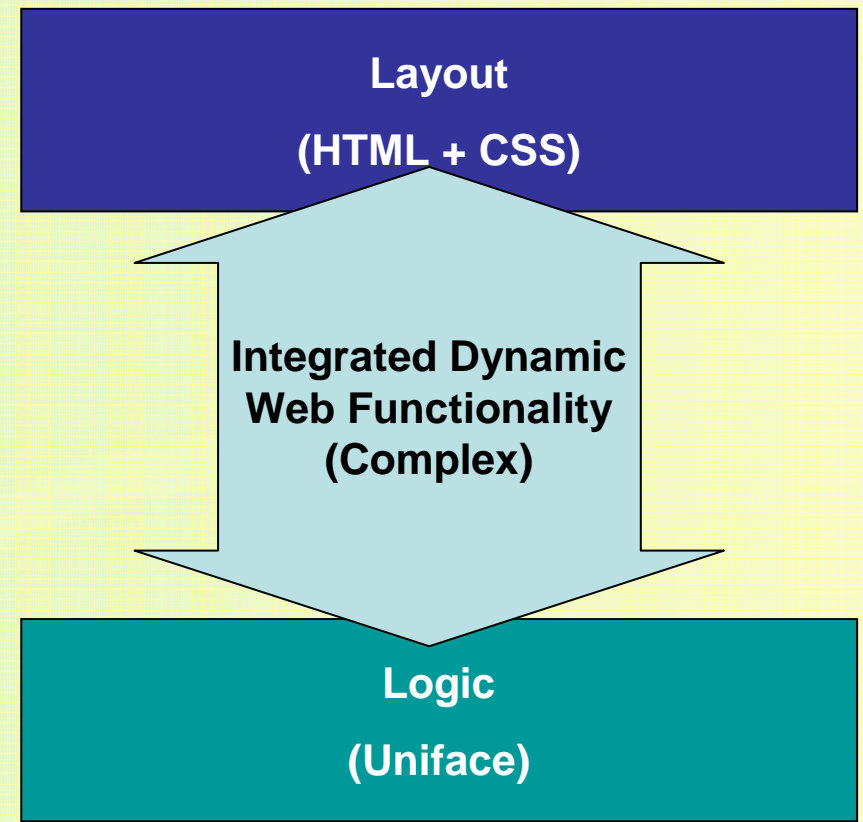




DSP Overview

- Model-driven development
- Proc is primary language
- Client-side declarative validation
- Procedural error handling
- **Layout-logic split**
- **Dynamic page updates (AJAX)**
 - Synchronous & Asynchronous
- **Binding/HTML generator wizard**
- **Layout mash-up enablement**
- **Security features**

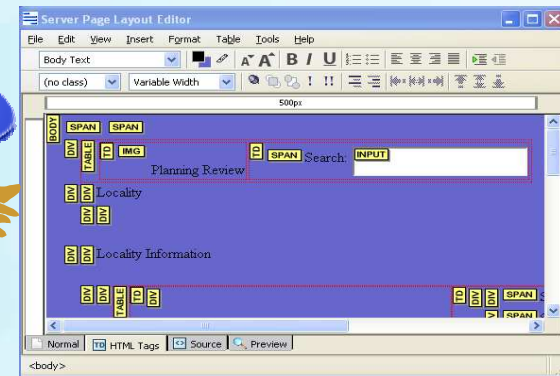
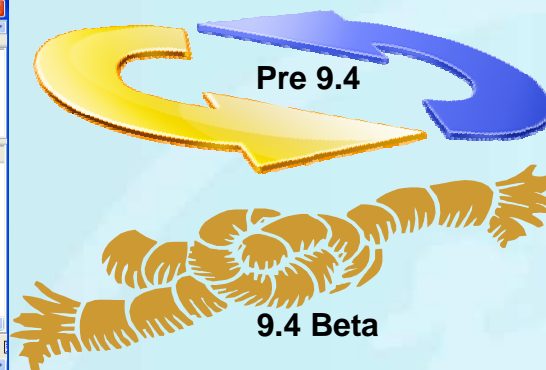
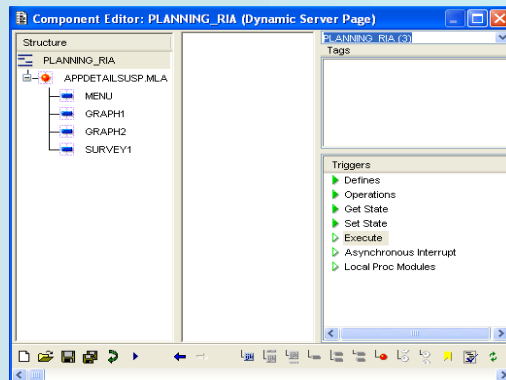
Dynamic Server Page





Component Editor

- Logic Structure & Layout Separate
 - No more synchronisation
- Simple Binding
 - Easy as “copy & paste”





DSP Rich Widgets

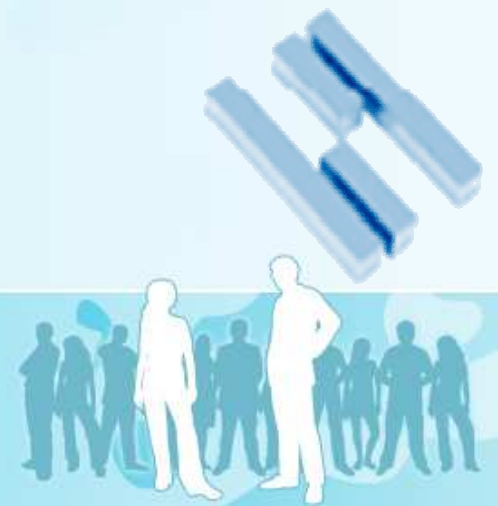
- Logical widgets (INI-file)
- Widgets (DOJO)
 - EditBox, TextArea, Password, CommandButton, RadioGroup
 - DropDownList, CheckBox, ListBox, DatePicker
- Widgets (DSP)
 - PictureButton, StaticText, FlatButton
 - RawHTML, AttributesOnly
 - Picture
 - Raw database data, Glyph reference
 - UServer image file, Web Server image file (URL)





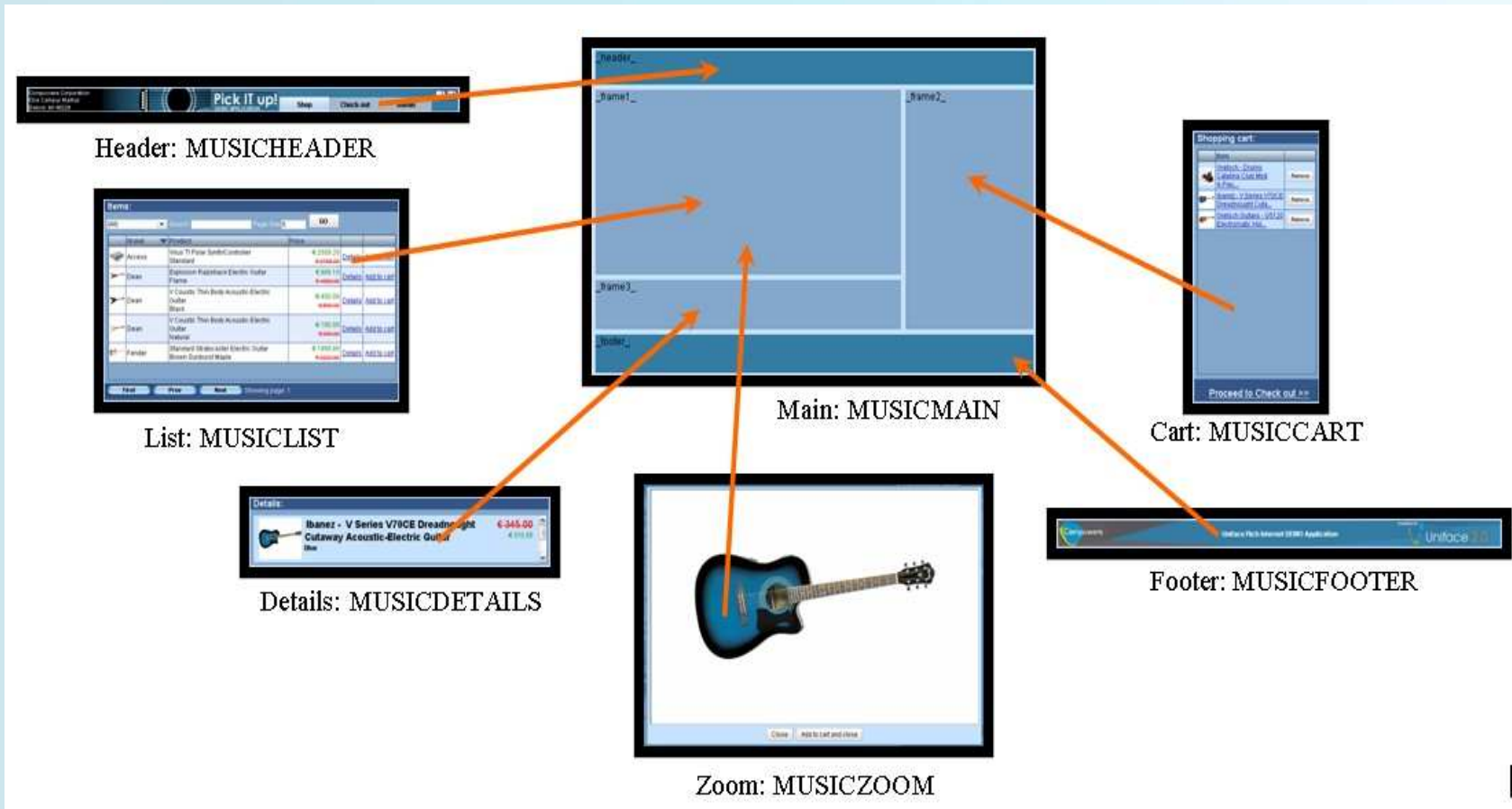
DSP Enhancements

- No more uniface specific X-Tags
 - Possible to use any XHTML compliant layout editor
- Proc enhancements
 - webmessage, webdefinitions, weblayout, websave ...
- AttributesOnly widget
 - Allows proc manipulation of any HTML element in layout
- Triggers
 - Detail (single/double click), onChange
- Many widget properties (~50 per widget)
 - HTML, Style, Trigger





Layout mash-ups





Example Uniface RIA

User name: Mr Giam Daddbhoy Today: Wed 29/08/2007 Effective date: 29/08/2007

Organisation: The Really Good Coding Company People: Luthor, Alexander Personal details

Search Smart groups Advanced

Select all Save this group Results 5 People

Name	Unit	Job title	Sex	Date of Birth
Kent, Clark			Male	
Lang, Lana			Female	
Luthor, Alexander	Managing Director's Office	Managing Director	Male	19/08/
Ross, Peter			Male	19/08/
Sullivan, Chole	Human Resources	HR Director	Female	11/02/

Expand/Collapse folders

- Personal information
 - Addresses
 - Contacts
 - Social security
 - Unions
 - Emergency contacts
 - Next of kin
 - Previous employments
 - Driving licences
 - Additional drivers' licences
 - Private vehicles
 - Passports
 - Visas
 - Work permits
 - Residency permits
 - Probationary periods
 - Employment history
 - HESA Personal details
 - Personal details
 - Key data details
 - Miscellaneous details
 - Sensitive information
 - Third party returns
 - Address history
 - HESA Individual preview

Personal details: Mr Alexander Luthor Name: Mr Alexander Luthor Job title: Managing Director Pers ref: 1000000002

Surname: Luthor
Forename: Alexander
Forename 2:
Forename 3:
Title:
Preferred name: Lex
Sex: Male

Morello Web Client - Microsoft Internet Explorer

File Edit View Content Help

Site Planner

Council Wizard Site

Site address: council.mediasurface.com
Site creator: mediasurface Administrator
Site creation date: 01/11/2005 12:16:13
Site description:

Name	Status	Date Modified
Home Page	Published	04/11/2005 11:58:15
A to Z of Services	New	04/11/2005 11:58:18
About Us	New	04/11/2005 11:58:16
Associated Departments	New	04/11/2005 11:58:17
Careers	New	04/11/2005 11:58:19
Committees	New	04/11/2005 11:58:19
Contact Us	New	04/11/2005 11:58:20
Councillor Team	New	04/11/2005 11:58:20
FAQs	New	04/11/2005 11:58:21
Example Q and A	New	04/11/2005 11:58:21
FAQ Site Pack	New	04/11/2005 11:58:21
LAWs Directory	New	04/11/2005 11:58:22
News Room	New	04/11/2005 11:58:22
Planning Applications	New	04/11/2005 11:58:24
Privacy Policy	New	04/11/2005 11:58:25
Schools	New	04/11/2005 11:58:25
Services	New	04/11/2005 11:58:25
Site Map	New	04/11/2005 11:58:26

Site Planner Content Explorer

Manhattan On The Web - Microsoft Internet Explorer provided by Raindrop - ISA

http://rainuks247/demosusa/manhattan.htm

MANHATTAN

Options Utilities Wednesday, 12th November 2008 12:16:31 Help Logout

Site Management

Main Page Additional

Properties

1 Parkway
120 South LaSalle
437 Fairview Road
50 East North Temple St
7th Avenue
Alpha House
Angie Center
Beverly Hills Main
Brea Centre
Brentworth House

Owner Lookup

Landlord Reference	Name	Portfolio	Telephone	Contact	Type
003	National Elite		435534534	some name	

Demand Address Comments

From 1 to 1 of 1

Version: 1.1
Status: New
Updated by: Not defined
Updated on: Not defined
Type: SitePack: FAQ Subject
Audience: Main

Located at:
http://www.council.mediasurface.com:8080/FAQs/faqSitePack/?version=1

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Demo
“Visualise The Change”

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Summary

- ***Desktop sophistication in a browser***
- **Application consumers demand more**
- **RIA is the next generation of UI**
- **Uniface supports RIA**



delivering
rich uniface applications

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Thank You

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Celebrating **25** Years

