

LANSA V14

We are very proud to announce LANSAs Version 14. It contains lots of new features that are detailed in this Newsletter.

The next issues will be discussed in this Newsletter:



- * Visual LANSAs Web.
- * Visual LANSAs Framework.
- * LANSAs Available in the Amazon Cloud.
- * LANSAs Mobile Available in the App Store.
- * Themes.
- * WAM related enhancements.
- * Documentation.
- * Deployment Tool.
- * Other Enhancements.

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Issue









LANSA V14

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1. Visual LANSA Web

LANSA Version 14 introduces Visual LANSA Web (VL-WEB) for building responsive Web applications without the requirement to master any of the other web development languages and technologies. LANSA truly makes Advanced Software simple!

The screenshot shows the LANSA TOOLS website interface. At the top, there is a navigation bar with links for Home, Hand Tools, Power Tools, Garden Tools, Tool Hire, D.I.Y., and Find a Store. A search bar and a shopping cart icon (0 items) are also present. A prominent red banner advertises a 25% off promotion for Ormine Power Tools, lasting for 3 days only, with a 'Shop Ormine' button. Below the banner, there are four featured products, each with a description, an image, and an 'Add to Cart' button:

Gracie 25cc Petrol Brush Cutter and Line Trimmer	Ivy 30cc Petrol Heavy Duty Brush Cutter and Line Trimmer	Poppy 21cc Petrol Lightweight Brush Cutter and Line Trimmer	Gracie 40cc 2 Stroke 16" Chainsaw
Powered by an easy start 25cc 2-stroke engine, includes a tri-arc blade and line trimming head.	Makes easy work of trimming heavier foliage with the blade and edging with the line head included.	Lightweight and easy to handle with low vibration for comfortable usability.	Offering power and performance with a 40cc 2-stroke engine and long bar, includes a sharpening kit.
			
In Stock	In Stock	In Stock	In Stock
\$ 149.00	\$ 299.00	\$ 139.00	\$ 279.00
 Add to Cart	 Add to Cart	 Add to Cart	 Add to Cart

At the bottom of the featured products section, there are three buttons: 'View', 'Need D.I.Y Advice? Ask us!', and 'Subscribe to our Newsletter'.

This new LANSA Web capability allows the same RDMLX syntax which is used for developing desktop (rich-client) applications to be used for developing Web based applications. These applications are coded entirely with Visual LANSA software and require no knowledge of typical mainstream Web development coding such as HTML, JavaScript or Cascading Style Sheets (CSS).

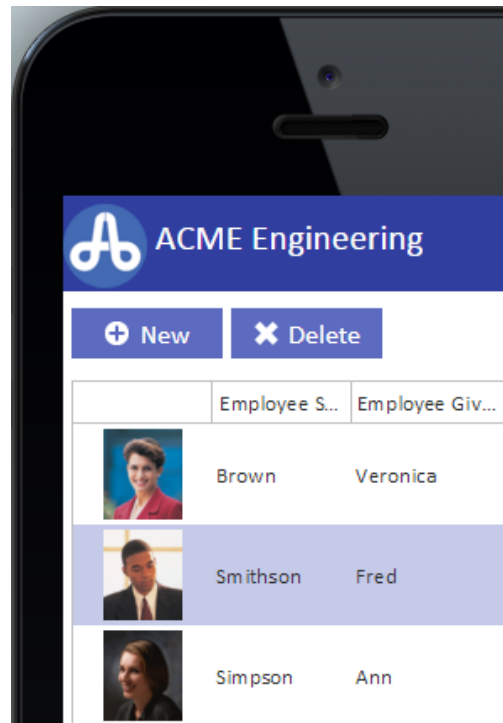
VL-WEB applications execute in a browser with calls to the server for database access and for executing server side functions. Applications are written entirely in RDMLX using the Visual LANSA integrated development environment (IDE), the WYSIWYG designer and LANSA supplied visual controls. Developing and maintaining Web applications with LANSA has never been easier!

Visual LANSA now ships with a number of sample applications and examples written in RDMLX using VL-Web capabilities, all of which are accessible from within your Visual LANSA IDE.

Desktop User Experience on the Web

Even though Visual LANSA Web applications run on the web, they offer a desktop-style user experience.

- Data can be read, inserted, updated, or deleted on the server without having to refresh the entire webpage.
- Client-side validation checks and business logic are embedded inside the pages.



All Web Development with a Single Language

With Visual LANSA Web, any IBM i developer can create dynamic business apps for mobile devices and PCs which are fully integrated with the IBM i using a single language for server-side logic, client-side logic, and everything in between.

You can:

- Build your entire Web application without writing a single line of HTML, JavaScript, or CSS code.
- Build Responsive Design websites without using Bootstrap or other front-end frameworks.
- Read, insert, update, or delete data on the server without having to code any AJAX, REST, or JSON.
- Embed client-side validation checks and business logic inside your Web pages without writing any JavaScript.

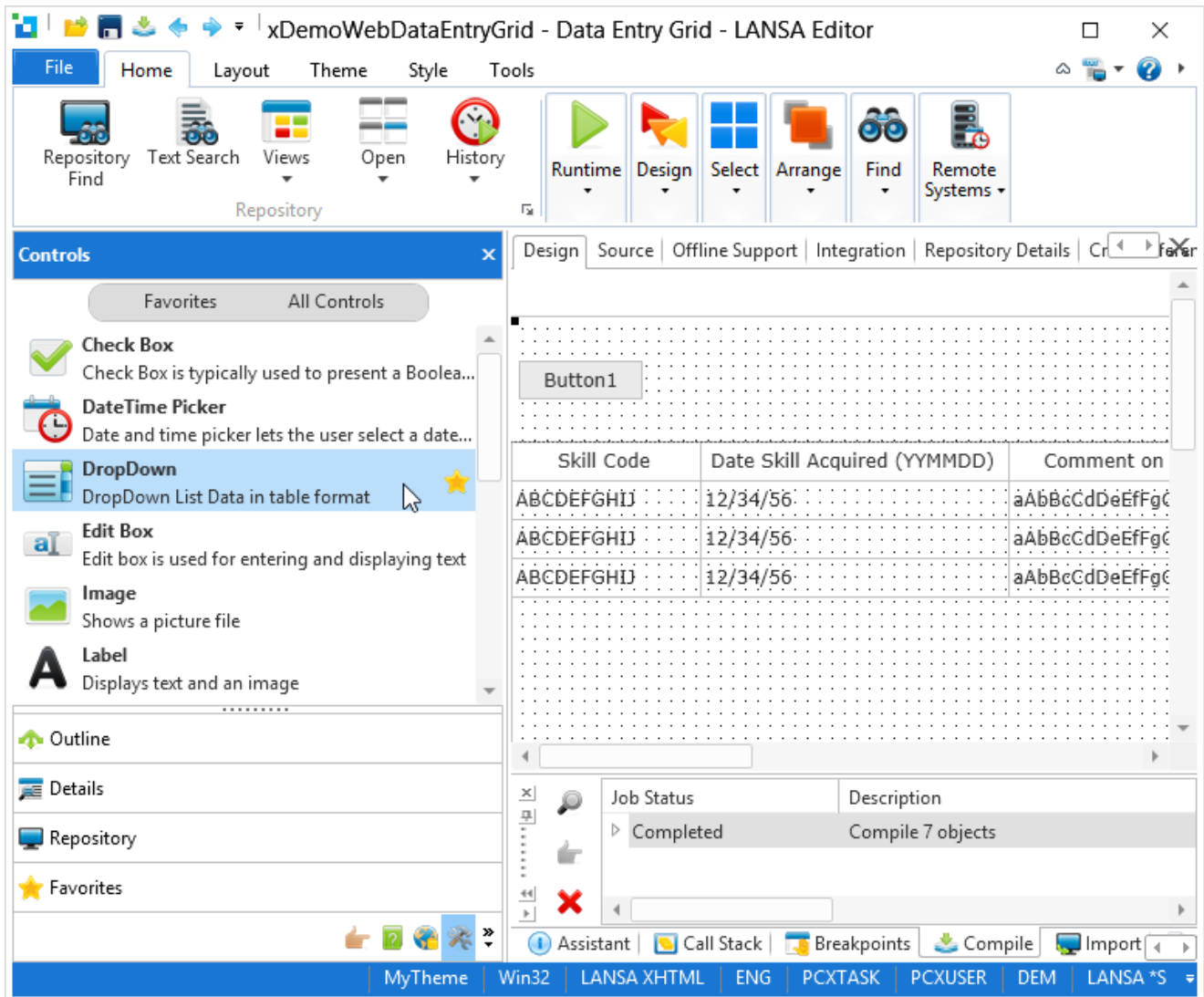
In other words, with Visual LANSA Web you can build responsive, enterprise-class websites without mastering a half dozen different Web development languages and technologies.

Windows and Web Development with One Skill Set

VL-Web and VL Rich Client applications are developed in the LANSAs Editor using the same skill set.

This means that one developer can design and build both Web and Rich Client applications using:

- The same IDE
- The same RDMLX commands
- The same controls
- The same reusable parts



The Visual LANSA Web Advantage

Like other JavaScript libraries, VL-WEB has a JavaScript runtime too. The VL-WEB runtime core remains active after the page has been displayed so that it can continue to process instructions. This means that when a button is clicked, the script is processed and the local state of the page can be modified immediately. Note that the VL-Web runtime is linked with your VL-Web application Objects i.e. if a new VL-Web runtime gets installed (via a future EPC or new LANSA version), your VL-WEB application will continue to use the old runtime image until your objects get recompiled.

The fact that web pages maintain their state and continue to work after the page has been delivered to the browser is fundamental to VL-Web. This 'stateful' environment makes the web page more like a traditional distributed client server application VS a stateless HTML page. This is a different concept for existing web developers who are accustomed to a stateless environment where most processing occurs on the server. VL-Web pages choose when to access the server.

This is a different concept for existing web developers who are accustomed to a stateless environment where most processing occurs on the server. Visual LANSA web pages choose when to access the server.

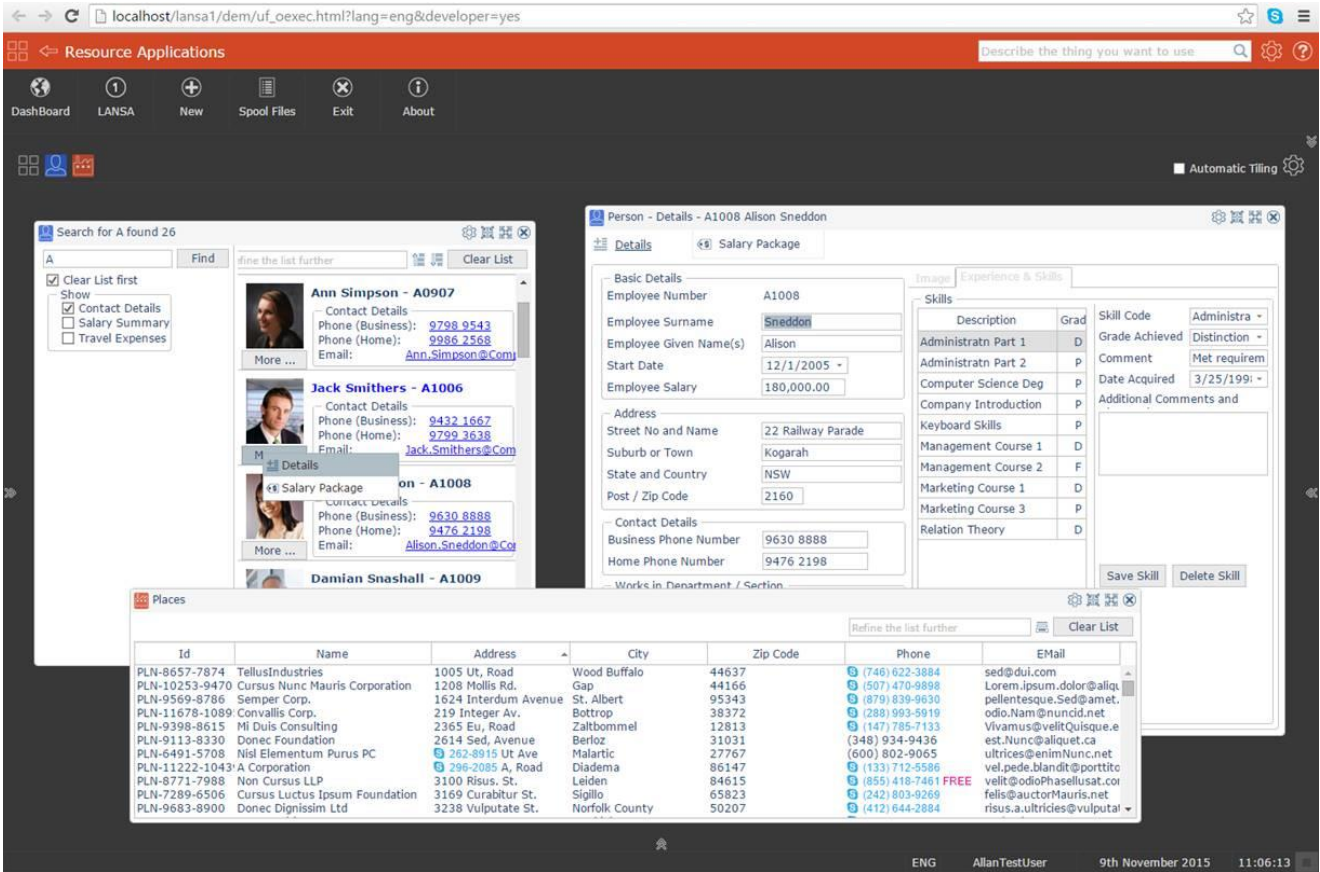
Servers

Multi-Tier implementations (Model B) of VL-Web must use a Windows IIS Web Server. For a single tier VL-Web implementations, the Web Server may be a Windows IIS Web Server, an IBM i Apache Web Server or a Linux Apache Web Server.

2. Visual LANSA Framework

VLF-ONE is coming soon!

With VLF-ONE you can take advantage of all VL-Web features with minimal coding requirements and a short learning curve. Improving productivity and helping you focus on the Business requirements rather than technology.



Visual LANSA Framework is not included in Visual LANSA Version 14 GA, but it will soon be available as an EPC.

3. LANSA Available in the Amazon Cloud

LANSA is available to be bought and run in the Amazon Web Services Cloud (AWS).

See https://aws.amazon.com/marketplace/pp/B0153VJXQW/ref=srh_res_product_title?ie=UTF8&sr=0-3&qid=1448445935571

The screenshot shows the AWS Marketplace product page for 'Visual LANSA Development Environment - Web application framework'. The page includes a search bar, a 'Continue' button, and a 'Pricing Details' section with a table of EC2 instance types and their hourly fees.

Visual LANSA Development Environment - Web application framework
on Windows Server 2012 R2 w/SQL Express 2014 2012R2 x64

Sold by: LANSA Inc | See product video

31 Day Free Trial Available - Visual LANSA Development Environment Web Application Framework provides comprehensive Windows-based tools for cross-platform development. You can build applications for Windows, IBM i, Linux and mobile devices. It includes an integrated development environment, a business rule and data definition repository and a productive high-level programming language for developing Web, Windows desktop, mobile Web and 5250 applications. The product includes an application framework that allows developers to assemble and prototype applications rapidly with minimal coding, generating high quality Windows and ... [Read more](#)

Customer Rating Be the first to review this product

Latest Version 14.0 GA (Other available versions)

Base Operating System Windows, Windows Server 2012 R2 w/SQL Express 2014 2012R2 x64

Delivery Method 64-bit Amazon Machine Image (AMI) ([Learn more](#))

Support See details below

AWS Services Required AmazonEC2, AmazonEBS

Highlights

- Build a Web application simply, yet with complete control over the page content and layout: insulates developers from the technical complexities of Web development, allowing them to focus on building database driven Web applications.
- Multi-Database. From one simple table definition support all these databases with no code changes required: MS SQL Server, Oracle, MySQL, Sybase SQL Anywhere, DB2/400.
- Publish or consume Web services in Web applications: simplify exchanging data and transferring files to and from line-of-business systems and Web applications. It includes tools to build Web services and supports both REST and SOAP.

Pricing Details

For region: US East (N. Virginia)

Free Trial

Try one instance of this product for 31 days. There will be no hourly software charges for that instance, but AWS infrastructure charges still apply. Free Trials will automatically convert to a paid hourly subscription upon expiration.

Hourly Fees (includes Windows Server 2012 R2 w/SQL Express 2014 2012R2 x64)
Total hourly fees will vary by instance type and EC2 region.

EC2 Instance Type	EC2 Usage	Software	Total
t2.micro	\$0.018/hr	\$0.85/hr	\$0.868/hr
t2.small	\$0.036/hr	\$0.85/hr	\$0.886/hr
t2.medium	\$0.072/hr	\$0.85/hr	\$0.922/hr
t2.large	\$0.134/hr	\$0.85/hr	\$0.984/hr
hi1.4xlarge	\$3.58/hr	\$0.85/hr	\$4.43/hr
hs1.8xlarge	\$4.931/hr	\$0.85/hr	\$5.781/hr
cg1.4xlarge	\$2.60/hr	\$0.85/hr	\$3.45/hr
cc2.8xlarge	\$2.57/hr	\$0.85/hr	\$3.42/hr

Available in the Amazon cloud are:

LANSA IDE in the Cloud

The LANSA IDE (Visual LANSA Integrated Development Environment) Web Application Framework provides a set of comprehensive Windows-based tools for cross-platform development. You can build applications for Windows, IBM i, Linux and mobile devices. The product includes the Visual LANSA IDE and the Visual LANSA Framework, licensed for development and non-production use.

Cloud Licensing

LANSA Scalable License is a subscription license for LANSAs which scales automatically to easily deploy LANSAs applications created in the LANSAs IDE.

A LANSAs stack can be created in AWS for executing LANSAs-based applications in essentially one click. The self-scaling, multi-datacenter LANSAs stack is highly available and fault tolerant, with automatic installation, upgrading, patching and Windows updates. It is fully licensed for production work loads.

Both the Visual LANSAs Development Environment (IDE) and the Scalable License are licensed for Visual LANSAs, LANSAs for the Web, SuperServer, LANSAs Server and LANSAs Integrator.

Subscription pricing is time based. The pricing of the Scalable License depends on the CPU capacity of the virtual machine.

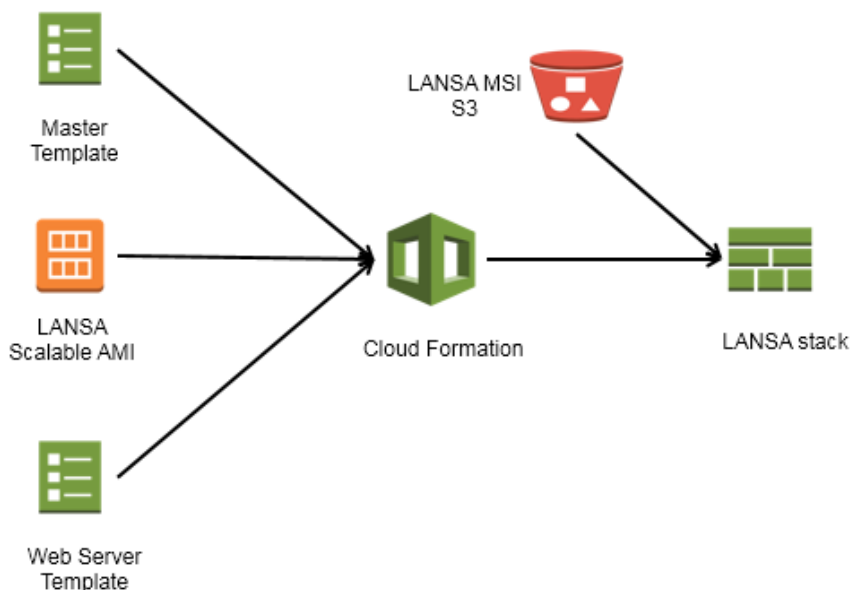
See <https://aws.amazon.com/marketplace/seller-profile?id=9f921b00-896f-4fe6-b270-85e1599846a8>.

Benefits of Cloud Licensing

With cloud licensing you can make your application live in the cloud with a few clicks. A standard operating environment and a simple process to spin-up test environments saves time and cost.

- You can obtain **all the hardware you need**, right now rather than in 6 weeks' time. This provides a competitive edge to getting your solutions deployed.
- **Testing can be very extensive** because you do not need to buy a whole server farm and install it and keep it forever - instead you provision it for, say an hour, and tear it back down again.
- **Your infrastructure is defined in software**. Everything that can be automated is automated. The whole environment becomes much more **reliable** and easy to use.
- Your solutions run **fast**.

How does LANSAs in the Cloud Work?



- A LANSAs stack is created by AWS Cloud Formation using two templates supplied by LANSAs, the Master template and the Web Server template.
- The Master template describes the whole stack apart from the actual Web Server in which LANSAs runs, for example Load Balancer, Database instance, Security Groups, etc. The user may modify the parameters in a simple user interface.
- The LANSAs Scalable AMI is a machine image containing all the prerequisites for installing a LANSAs MSI, including a scalable license. The license can be obtained through AWS Marketplace which charges the user per hour for using the AMI. The license allows any LANSAs product to be run.
- Pre-installed parts in the AMI to speed up provisioning.
- When the Stack is fully provisioned, the URL of the Load Balancer is provided.

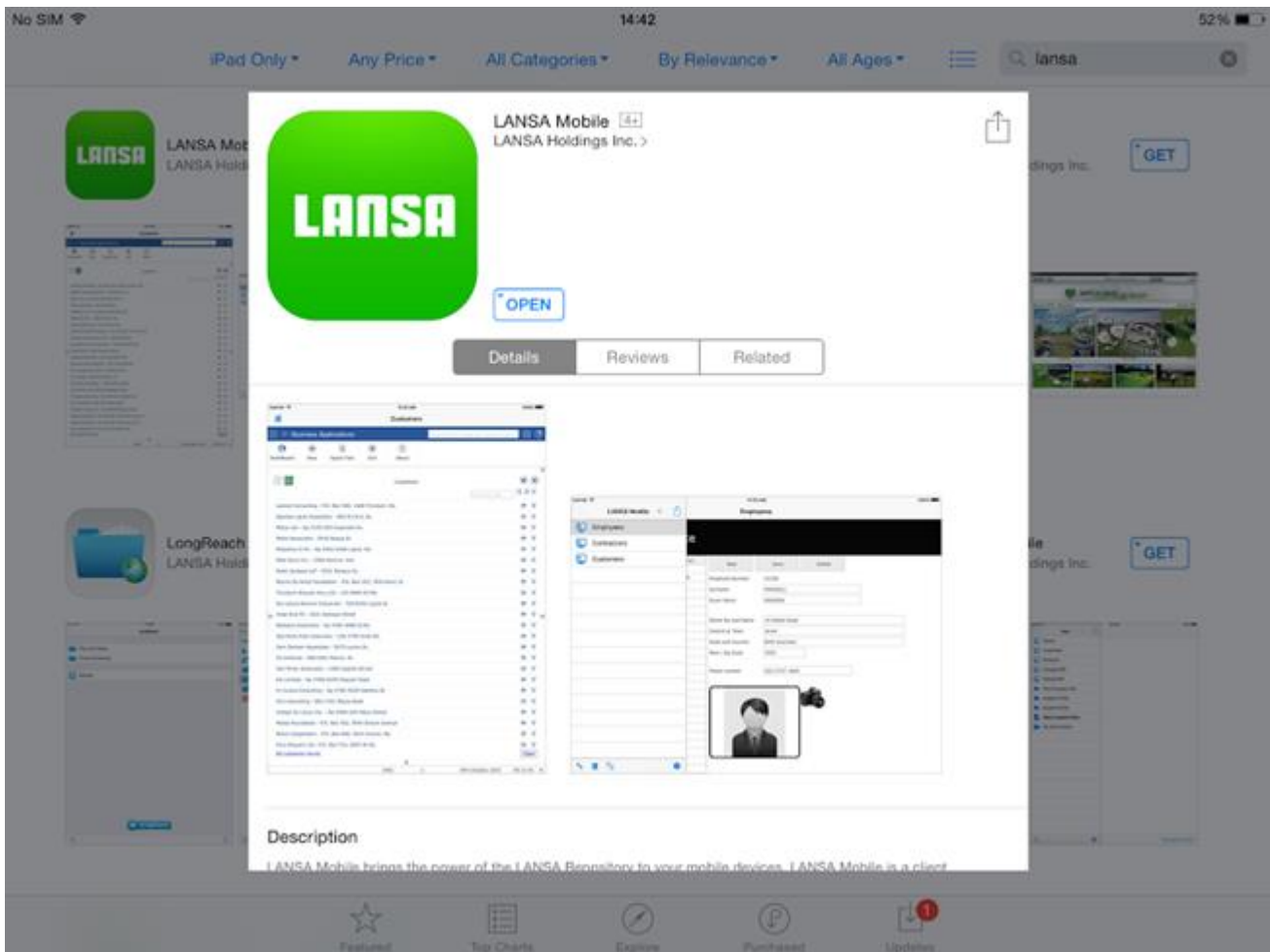
What does the Amazon Machine Image contain?

The Amazon Machine Image contains:

- Everything that is needed to run LANSAs faultlessly
- ODBC Drivers
- JAVA runtime
- Licenses
- CloudFormation support
- Synchronised log times

4. LANSA Mobile Available in the App Store

LANSA Mobile is available in the App Store.



Mobile LANSA Apps

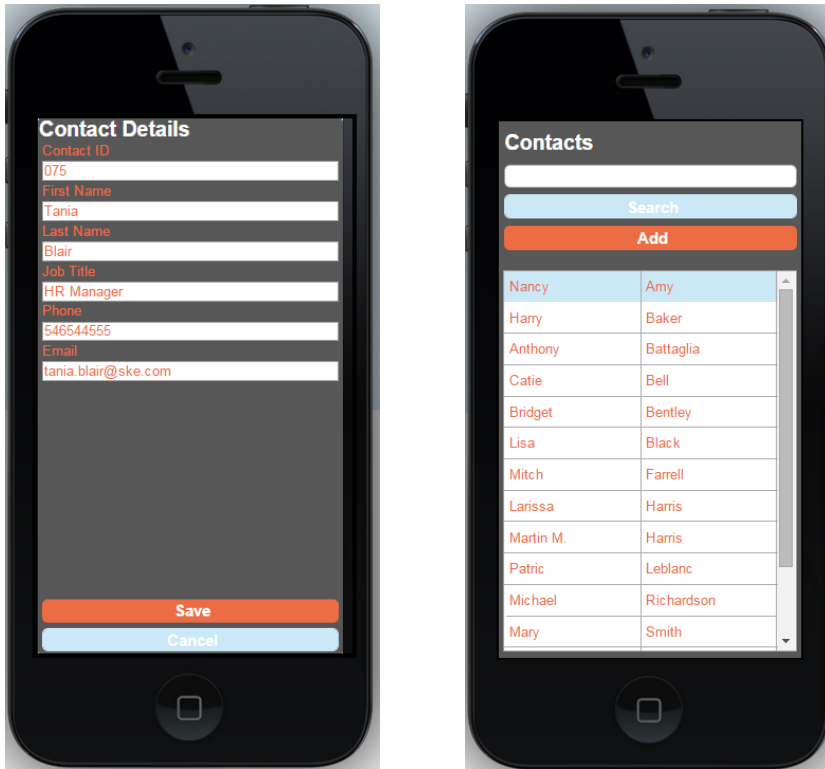
LANSA Mobile brings the power of the LANSA Repository to your mobile devices.

Visual LANSA Web and WAM applications can be run in the LANSA Mobile app on phones and tablets. The back-end is a LANSA server running on an IBM i or Windows system.

The applications running in LANSA Mobile can take advantage of the devices' features such as:

- The GPS
- Camera
- External scanners
- Local SQL databases

The App can host multiple concurrent LANSA for the Web sessions, document views and any other web pages.



Behind the scenes the LANSa Mobile App is a custom LongRange version acting as a container for LANSa applications. All web pages can access the full range of LONGRANGE API capabilities. However, you do not use LongRange Studio, nor can you run LongRange forms in the LANSa app.

Visual LANSa Web apps access mobile device features using **Widgets**, WAM apps use **Weblets**.

Widgets

When a Visual LANSa Web page is run in the LANSa Mobile Application, the LANSa Mobile Application (LMA) widgets may be used to interact with the device's features and to transfer files between the device and a server.

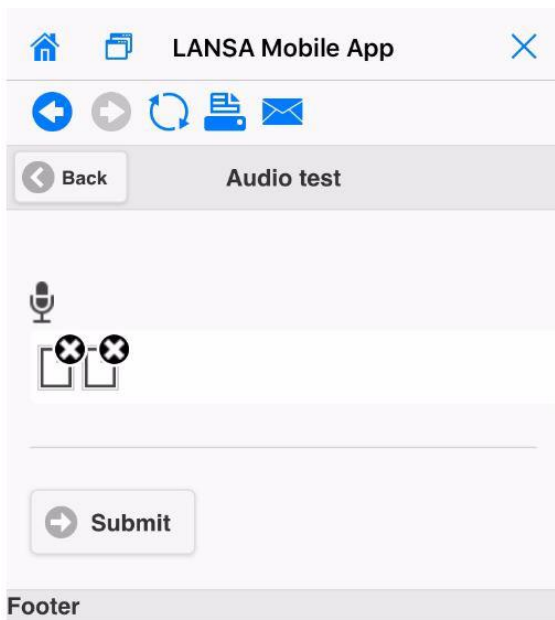
The tasks that can be performed using the LANSa Mobile widgets are:

- Use the camera to take photos or videos
- Access the photo library
- Record and playback audio files
- Scan barcodes using the camera
- Read, write, copy and delete files on the local file system
- Upload files from the local file system to a server system
- Download files from a server system to the local file system.

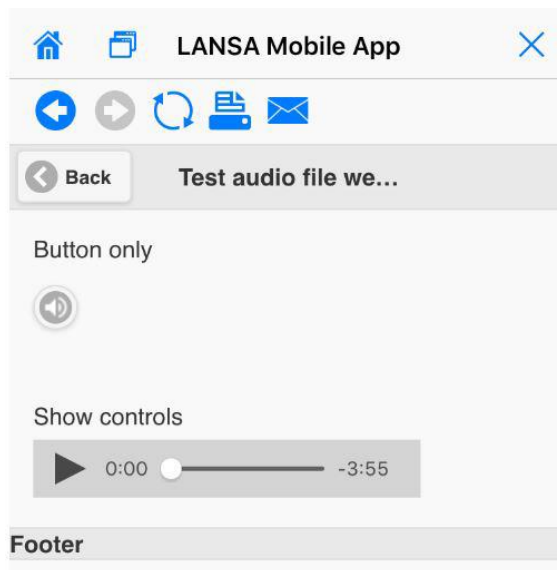
Weblets

WAM Weblets implementing the LongRange APIs are:

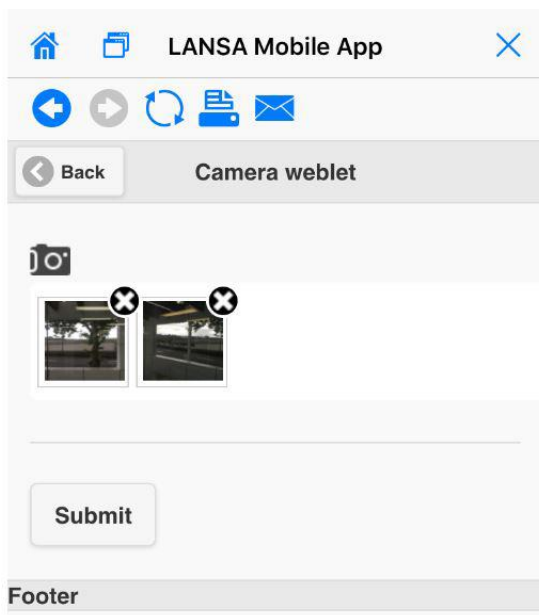
Audio:



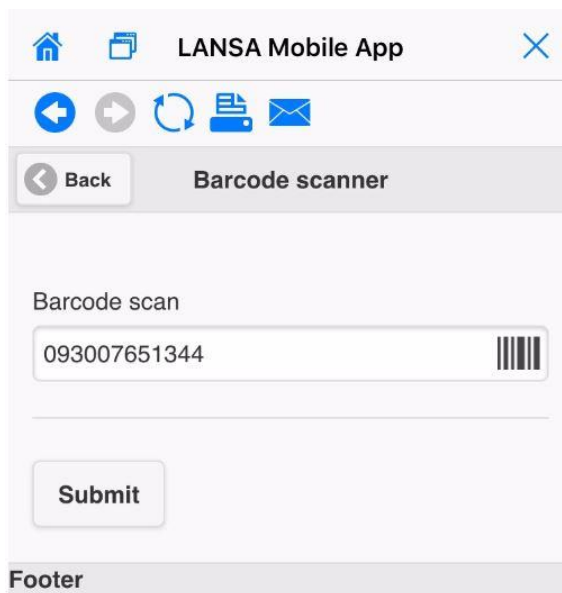
Audio files:



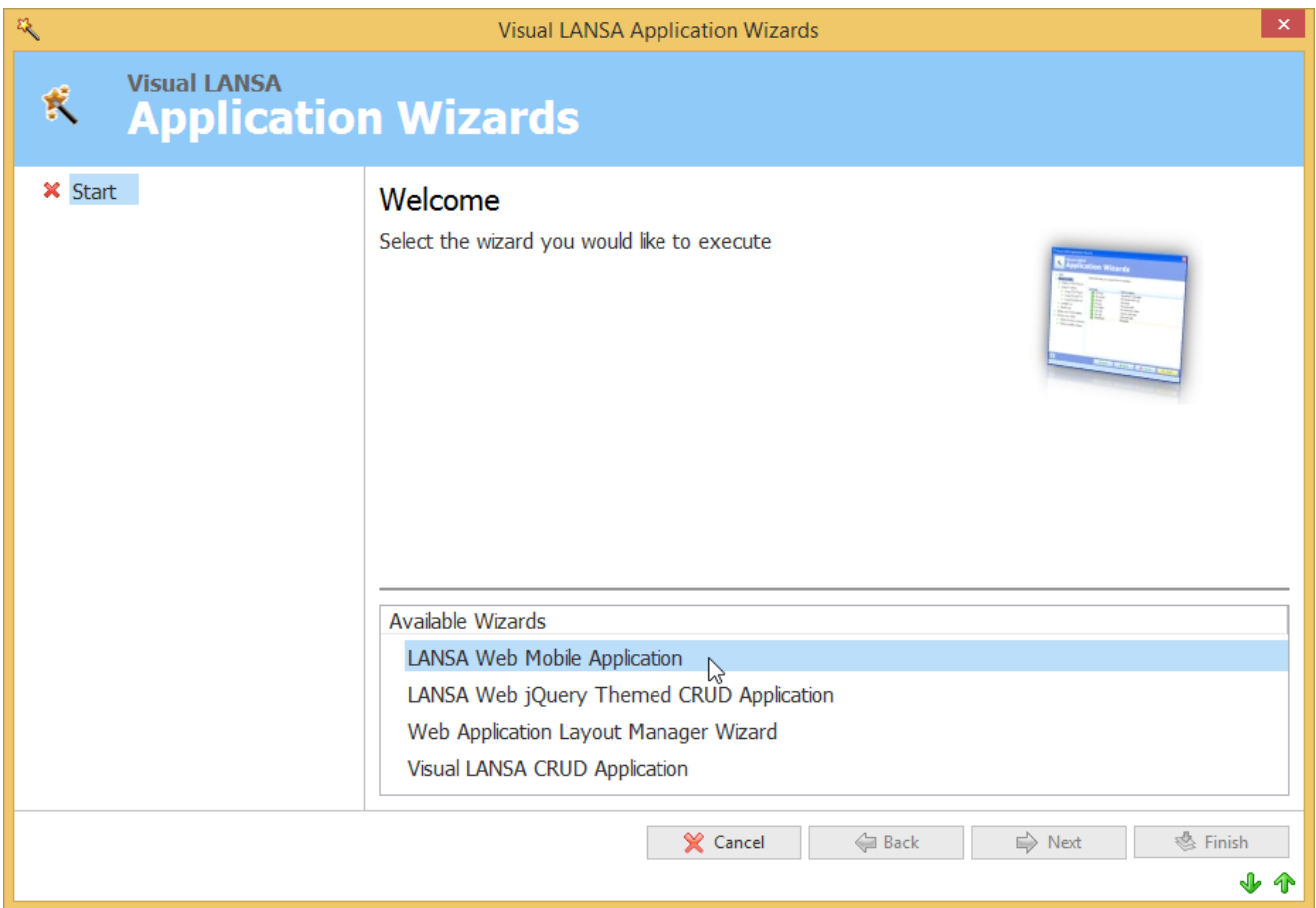
Camera (photos only):



Barcode scanners:



To see samples of the weblents, run the LANSAs Web Mobile Application Wizard in the editor:



5. Themes

Visual LANSA Version 14 introduces themes which are an integrated means to centrally control the appearance of Visual LANSA and Visual LANSA Web applications.



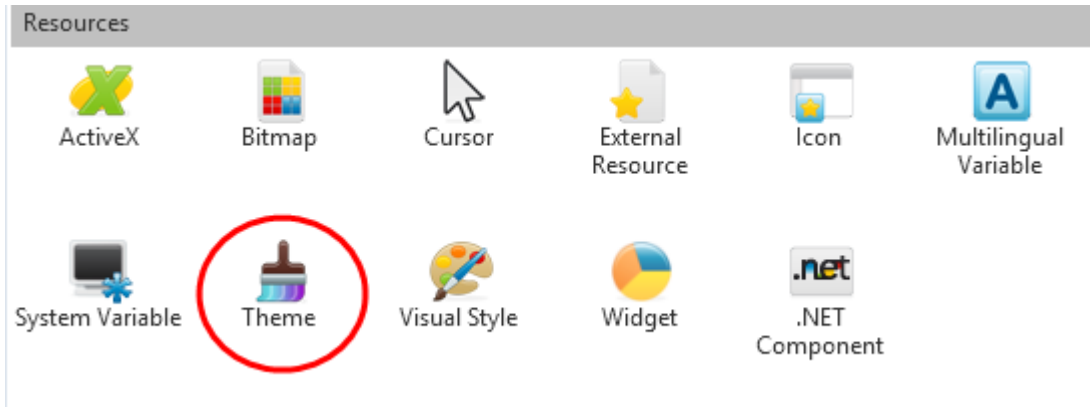
Themes provide a central place in which colors, fonts, and borders etc. are defined. Themes also have draw styles which can be applied globally to, for example, all buttons or popups, thus reducing the need to apply styles to individual controls. Theme draw styles can also be abstract, such as Title or Emphasis, to be used when required.

Themes are stored in the repository and they can be reused in all your applications.

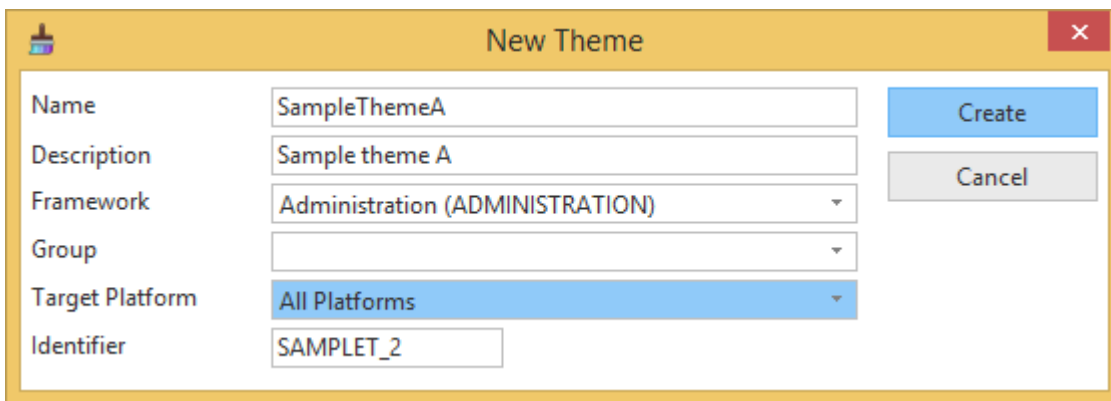
Unlike Visual Styles, themes use name matching at runtime which means that they can be changed dynamically. Visual Styles are supported for backward compatibility only.

Creating a Theme

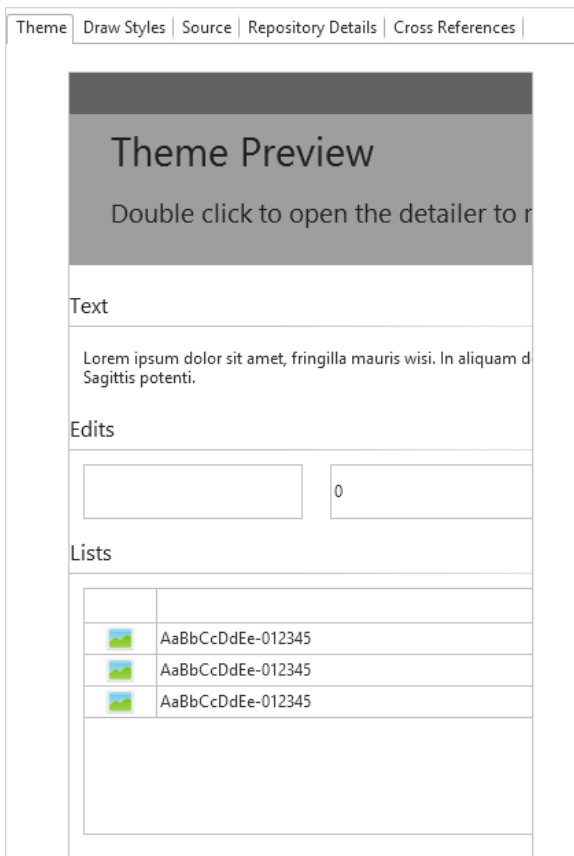
To create a theme, Choose File -> New -> Theme:



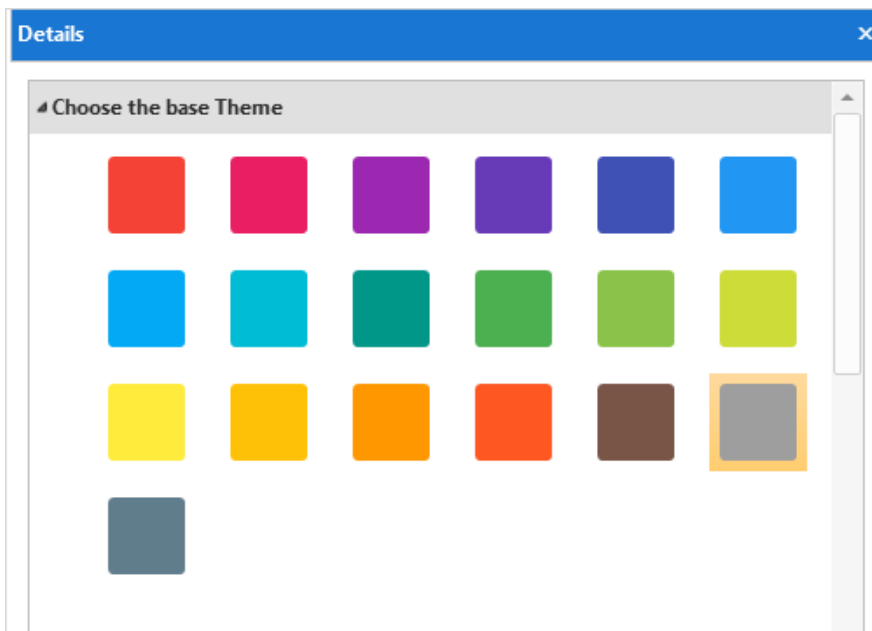
In the New Theme dialog specify the Target Platform of the theme, it can be Windows, Web Browser or both:



When the theme is opened in the editor, you can see a preview of the standard theme:



Double-click the preview to start defining the theme. The theme details are displayed in the Details tab. First choose a base theme:

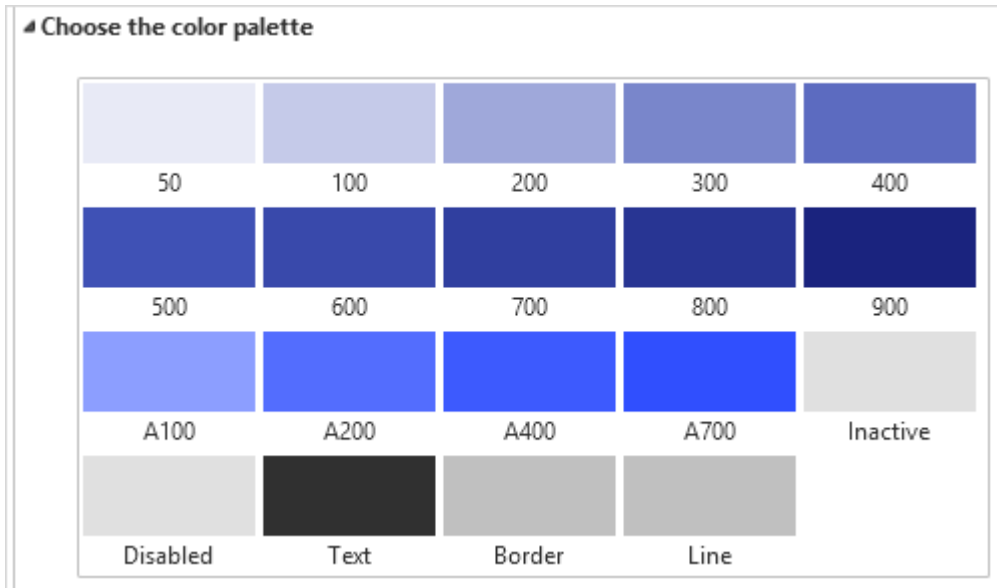


The base theme is one of the LANSA supplied themes used to define the colors in the color palette.

Themes are based on a particular color. We recommend that you create and use your own themes since LANSA shipped themes may change in the future.

Color Palette

When a base theme is selected, the colors in the color palette are updated. The colors in the palette provide a basic set of complimentary colors.



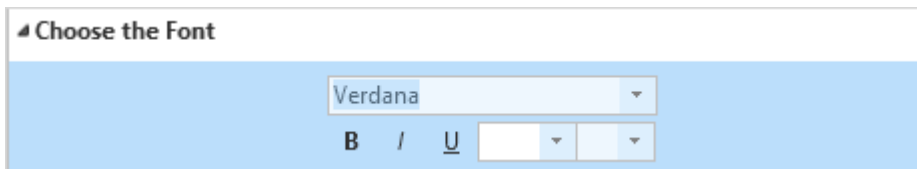
Colors 50 - 900 and the 4 accent colors, A100 – A700, are used in many places throughout a LANSA applications and are not intended to be changed on an individual basis. All additional color requirements should be managed via draw styles.

The named colors have specific global uses and can be changed as required:

- Inactive** The color used for selected and focus list items when the list is not the focus control.
- Disabled** The color used for controls that are not enabled.
- Text** The default text color.
- Border** The default color for all borders.
- Line** The color of the vertical and horizontal lines in a list.

Font

Specify the base font that will be applied throughout the application:



LANSA will default to Verdana for all Visual LANSA Web applications, but it is recommended that a font be specified.

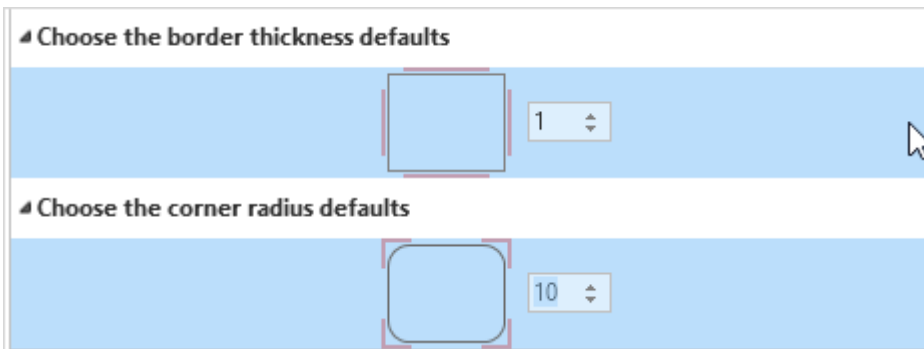
Background

Set the background color of the main web page if any:



Border Thickness and Corner Radius

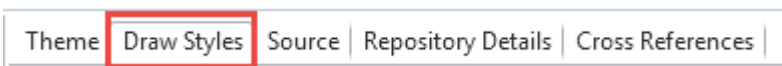
These settings set the default appearance of the control that defaults to having a border, for example, List and Edit. Change them as required:



The global theme definition is now ready.

Setting Theme Draw Styles

After defining the global theme, you can set specific draw styles. Switch to the Draw Styles tab in the ribbon:



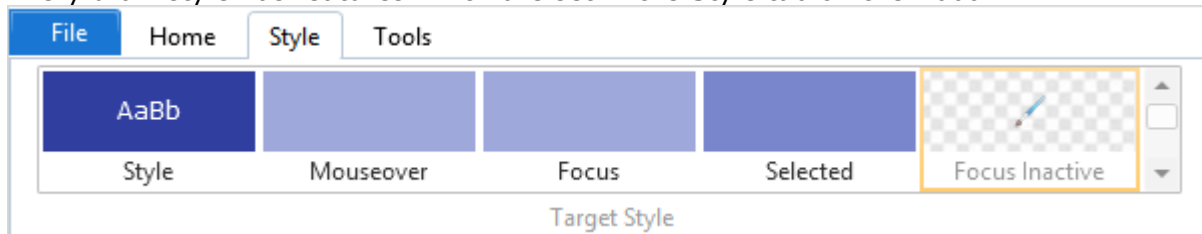
There are two kinds of draw styles:

Theme Draw Styles are abstract draw styles such as Title, Heading 1, 2, 3 and so on. These predefined names exist by default in all basic system themes. They have no particular meaning as such.

Control Theme Draw Styles apply specifically to the default appearance of controls. Thus, the Edit draw style applies to all input boxes such as fields and spin edits; List Item applies to all entries in the List control; Menu Item applies to menu items and so on.



Every draw style has features which are set in the Style tab on the ribbon:



- Style** The visual style applied to the *Style* property of the control.
- MouseOver** The visual style applied to the *MouseOverStyle* property of the control.
- Focus** The style applied to the control when it becomes the *Focus* control or the list *FocusItem*.
- Selected** The visual style applied to a list item when it is selected.
- FocusInactive** The style applied to a list item when it is the focus item but the list it not the focus control.
- SelectedInactive** The style applied to a list item when it is selected but the list it not the focus control.
- Pressed** The style applied to a control when the left mouse button is down.

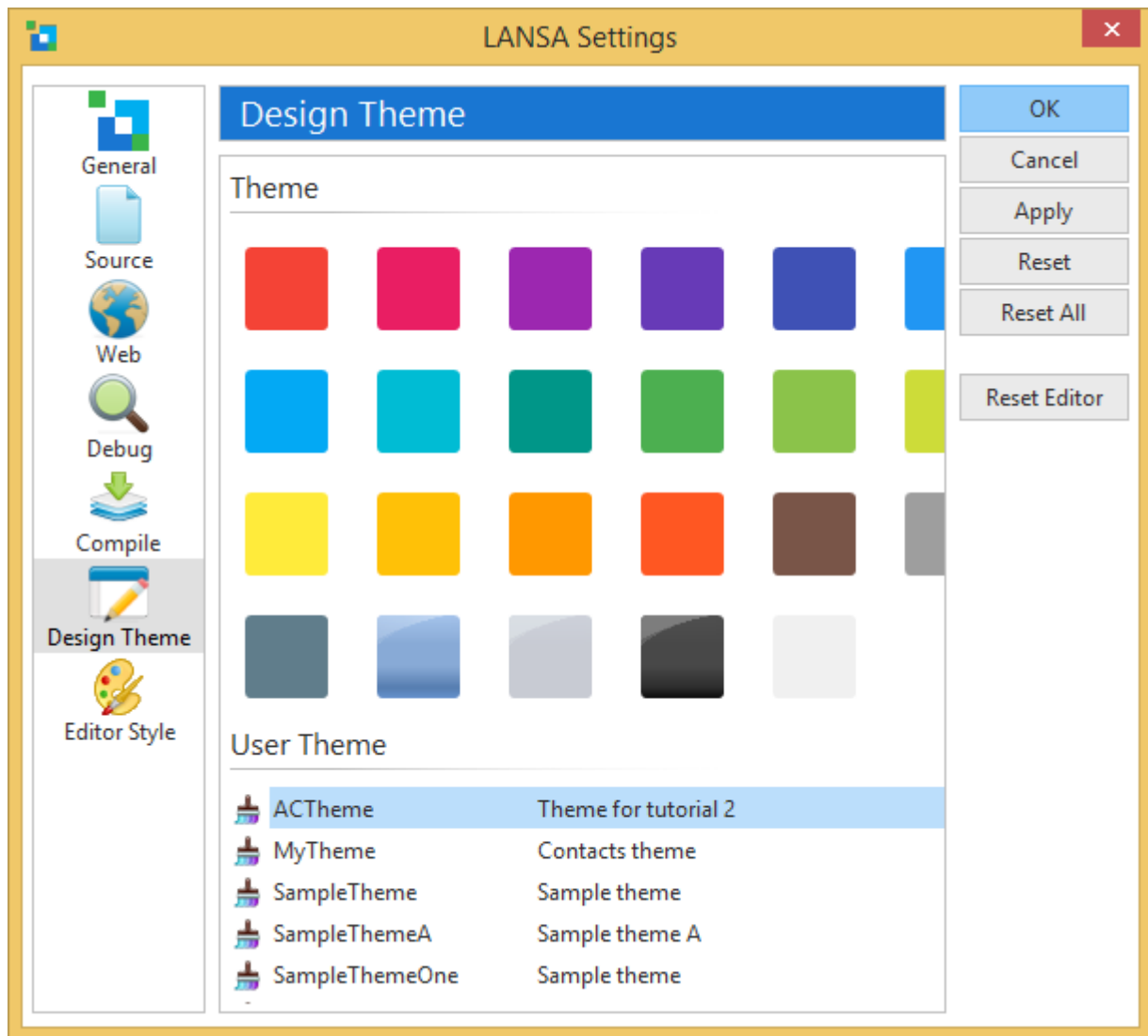
For example, to change the default MouseOver color for all push buttons in an application, you simply select the *PushButton* draw style and the *MouseOver* style, and then set the *Fill* color.

Applying a Theme to an Application

Design Theme

It is recommended you set a Design Theme for the editor so that you can see what the component will look like at runtime. This is not strictly necessary for web pages and forms which automatically adopt theme details, but reusable parts adopt theme information only at runtime unless a design theme has been set.

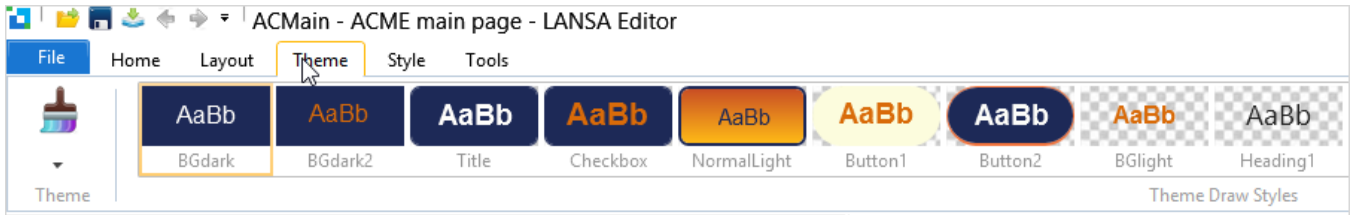
Use File -> Options -> Design theme to set the design theme:



Choose a user theme and click OK.

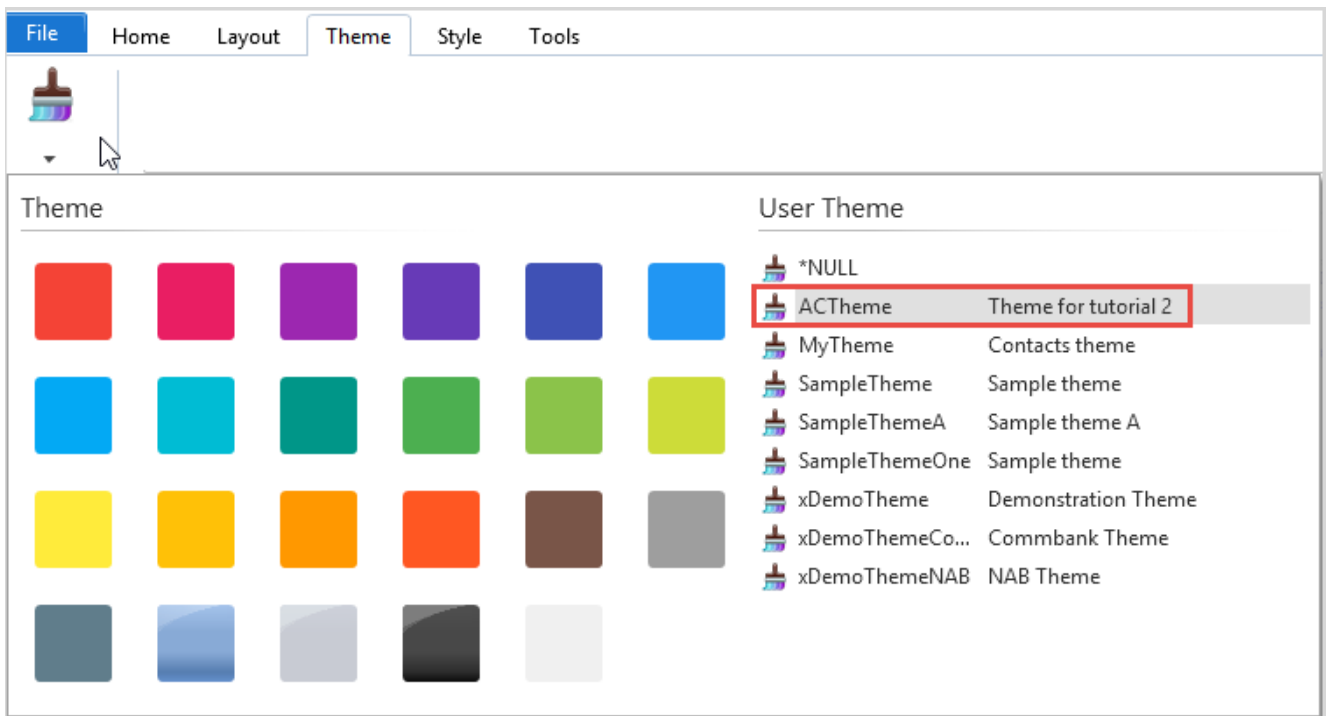
Applying the Theme

To apply a theme to a component, open the component and switch to the Theme tab in the ribbon.



The design theme's draw styles are shown in the ribbon.

Use the *Theme* drop-down button on the far left to select the theme for the component:



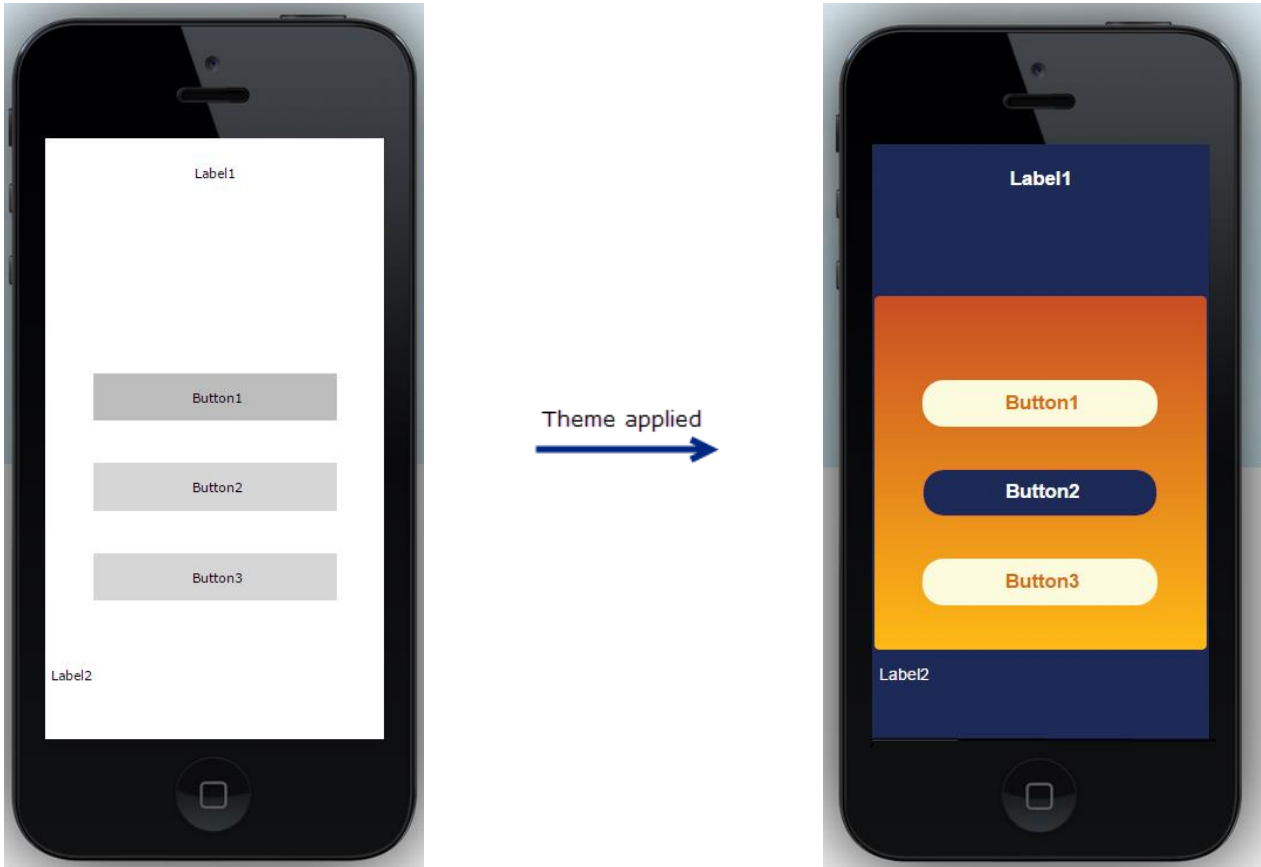
The selected theme is applied to the Theme property of the component.

```
Begin_Com Role(*EXTENDS #PRIM_WEB) Theme(#ACTheme)
```

Themes can also be applied programmatically.

```
#Com_owner.Theme <= #ACTheme
```

When the Theme is applied, the application adopts the styles defined:

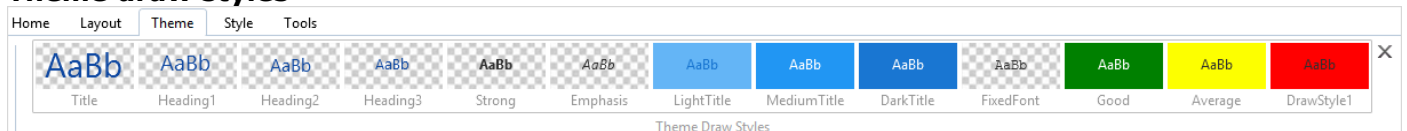


In addition to the global theme, theme control draw styles are applied to controls.

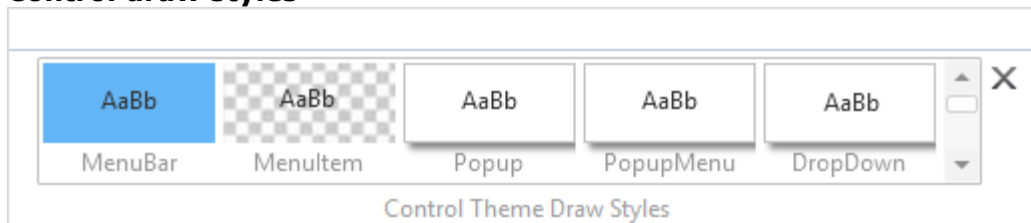
Manually Applying Draw Styles

The theme draw styles defined in the design theme appear in the Theme tab on the ribbon. As in the theme editor, there are two separate sections for styles on the tab:

Theme draw styles



Control draw styles



You can manually apply theme draw styles to any control in the open component. (You can also use control theme draw styles in this way, but this less common.)

Here a draw style Title is applied to a label:

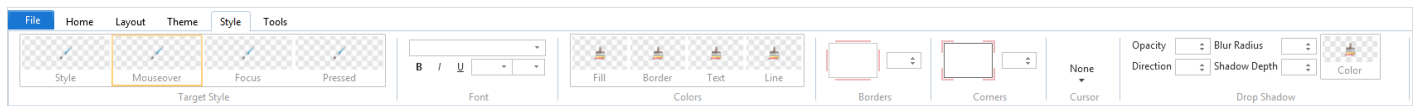


“Ad Hoc” Styles

Themes are a very effective way to define the general look and feel of an application. However, the reality of an application design means that there are always scenarios where a global setting does not produce quite the right result.

Borders are a good example of this. When two controls with a single pixel border are next to each other, the border width doubles. You could define Draw Styles with specific borders set to zero that could be applied as required, but as the requirement is very specific, the simplest course of action is to apply local styles to the control as required.

Local styles are applied using the Style tab in the ribbon:



Theme/Style Hierarchy

Themes and styles in LANSa are cumulative. The hierarchy of processing is as follows:

- Default Appearance** The default appearance of the control is applied.
- Themes** Theme draw styles are layered on top. When a Theme is applied, theme draw styles are applied to the control. For example, if a normal push button has a draw style that makes the font bold and underlined, the button will have bold, underlined text and all other styling will remain as is.
- Styles** Individual styles are used to define the final detail if required. If a local style is then applied, which makes the font blue, the button will have bold, underlined and blue text. Other than that, it will look like a button.

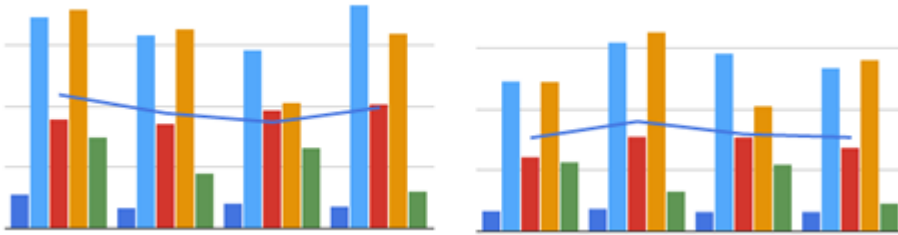
6. WAM Related Enhancements

New Weblets

These new Weblets are all included in the generated sampler pages when selecting the LANSA Web Mobile Application from the Tools Wizard in the IDE.

New Google visualization charts

New charts using Google's visualization API. They create more interactive and modern looking charts than the image charts they replace.



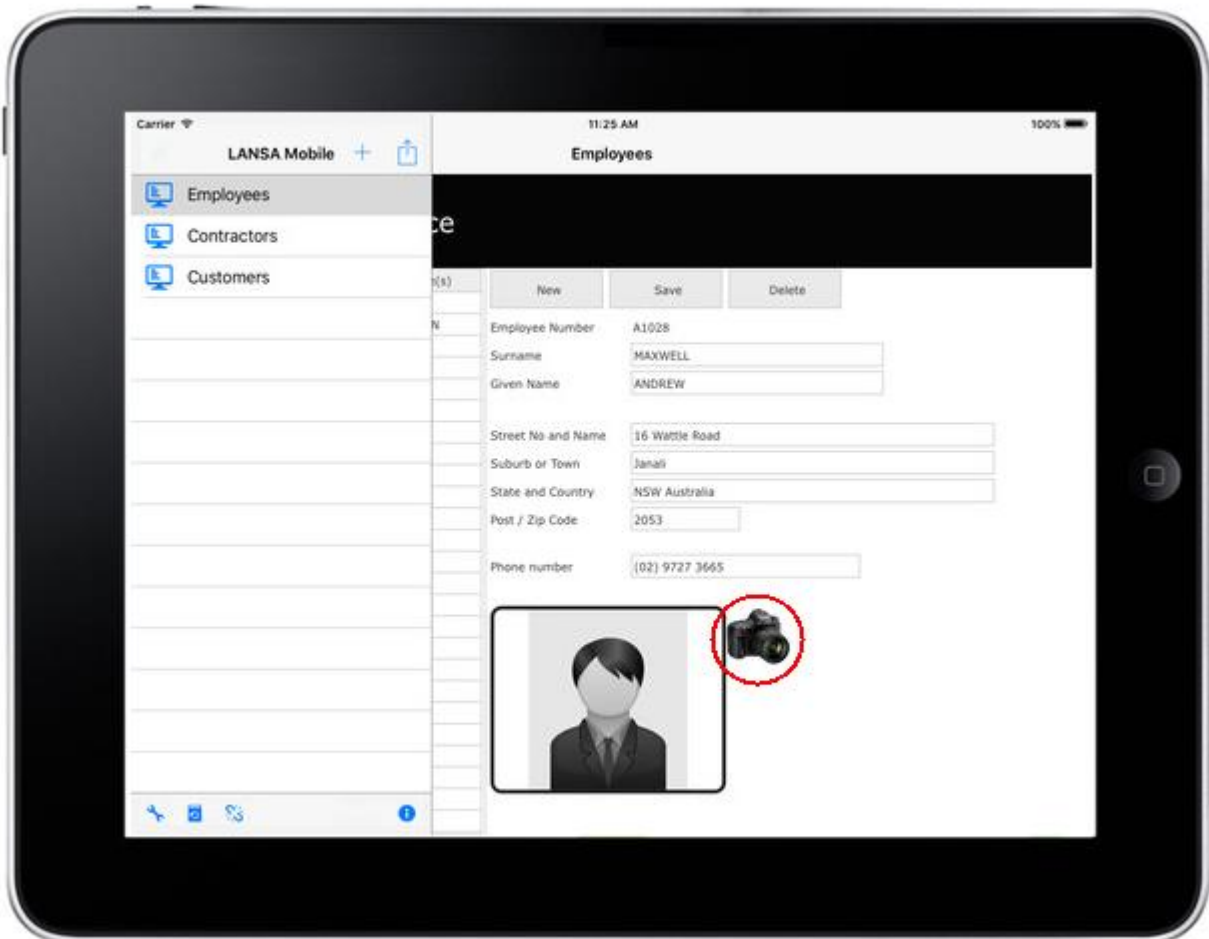
Geochart

New chart type. Allows you to show data on a map (worldwide, regional or country level).



Mobile app weblets

New weblets to provide you access to the Camera, Microphone (Audio) and barcode scanners when you are running inside the LANSA Mobile app. This is available for jQuery Mobile Technology Service.

**JSON capabilities outside WAMs or LANSA:**

You can request data from LANSA WAMs from your web pages, even if they are not WAMs.



Weblet Property Display Enhancements

When editing WAMs, related properties are now grouped together for ease of use.

Also, properties which are dependent on another “parent” property are conditionally shown only when their parent property has been specified.

The screenshot shows a 'Details' window with a 'Properties' tab. The root element is `<xsl:call-template>`. The properties are organized into several expandable groups:

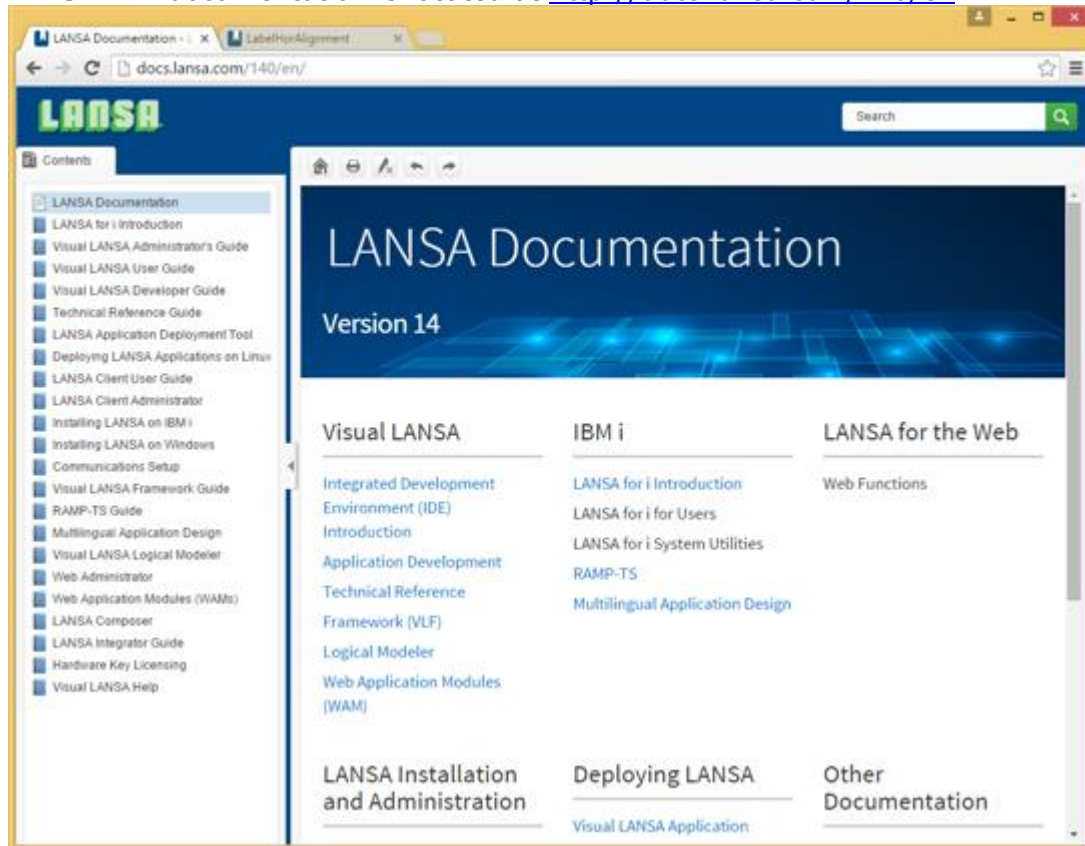
- name**: `std_ggeo_chart_v2`
- With Parameters**
 - `name`: `concat('o', position(), '_LANSA_22351')`
 - `chartType`: `Region geochart`
 - `hide_if`: `False`
 - `pos_absolute`
 - `width`: `Auto`
 - `height`: `Auto`
 - `fontSize`
 - `fontName`
- Chart data source**
 - `dataList`
 - `sourceWamName`: `$lweb_WAMName`
 - `sourceWrName`
- Geographical settings**
 - `region`: `053`
 - `resolution`: `countries`
 - `domain`: `"`
- Chart colors**
 - `colors`: `Theme`
 - `bgColor`: `Theme`
 - `datalessRegionColor`: `Theme`
 - `defaultColor`: `Theme`
 - `markerOpacity`: `1.0`
- Legends**
 - `legendList`
 - `legendColor`: `Theme`

7. Documentation

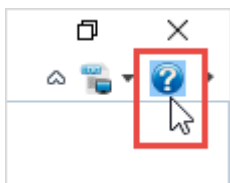
Documentation Available Online

All LANSAs guides and context-sensitive help pages are now provided online in HTML5 format.

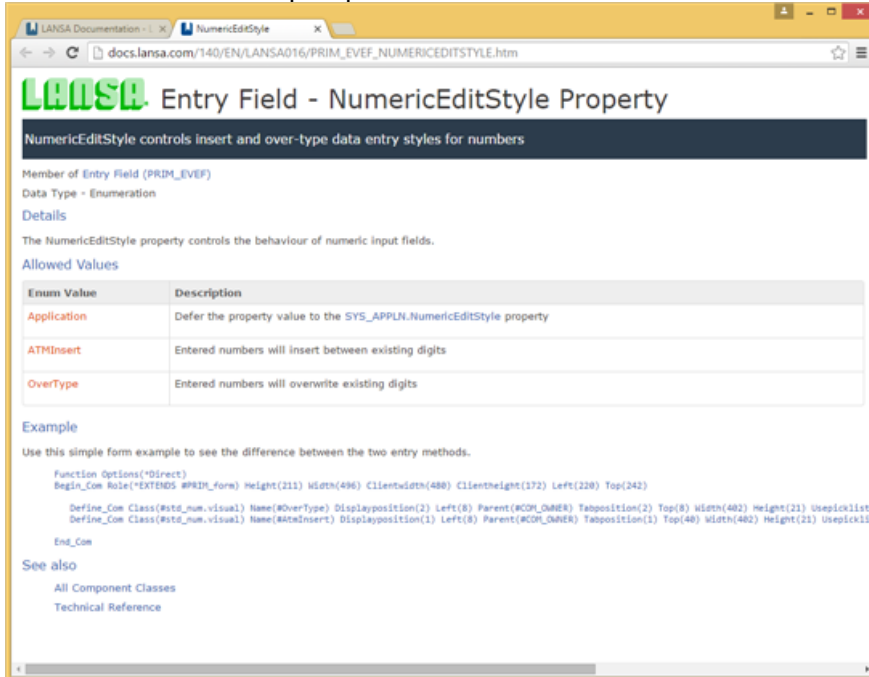
LANSAs V14 documentation is located at <http://docs.lansa.com/140/en>



The documentation home page can be accessed from the editor:



Context-sensitive help is provided in a browser window when F1 is pressed in the editor:



Command and BIF Reference Enhancements

The Quick Reference for commands and built-in functions has been expanded to summarize the applicable platforms:

Client/Server Support Built-In Functions

Built-In Function	Description	IBM i	Windows	Linux	RDML	RDMLX	Notes
CALL_SERVER_FUNCTION	Calls a function on a server.	Limited	Y	Y	Limited	Y	Note 2
CHANGE_IBMI_SIGNON	Changes the password of the user profile on the IBM i server.	Limited	Y	Y	Limited	Y	Note 2
CHECK_IBMI_SIGNON	Checks the status of the user profile on the IBM i server.	Limited	Y	Y	Limited	Y	Note 2
CONNECT_FILE	Connects a file to a server. See Database Connection Notes	Limited	Y	Y	Limited	Y	Note 2
CONNECT_SERVER	Connects to a server. See Database Connection Notes	Limited	Y	Y	Limited	Y	Note 2
DEFINE_ANY_SERVER	Defines details of a LANSAsite system to be used as a server.	Y	Y	Y	N	Y	
DEFINE_DB_SERVER	Defines database for redirected files. See Database Connection Notes	N	Y	N	Y	Y	
DEFINE_OS_400_SERVER	Defines an IBM i server machine.	N	Y	N	Y	Y	
DEFINE_OTHER_SERVER	Defines a non-IBM i server system.	N	Y	N	Y	Y	
DISCONNECT_FILE	Disconnects a file from a server.	Limited	Y	Y	Limited	Y	Note 2
DISCONNECT_SERVER	Disconnects from a server.	Limited	Y	Y	Limited	Y	Note 2

8. Deployment Tool

A number of enhancements and extensions have been made to the Deployment Tool.

Cloud Deployment

The MSI and MSP files produced by the Deployment Tool may be deployed into Cloud environments such as Amazon Web Services (AWS). These environments are designed to be easily deployable and scalable.

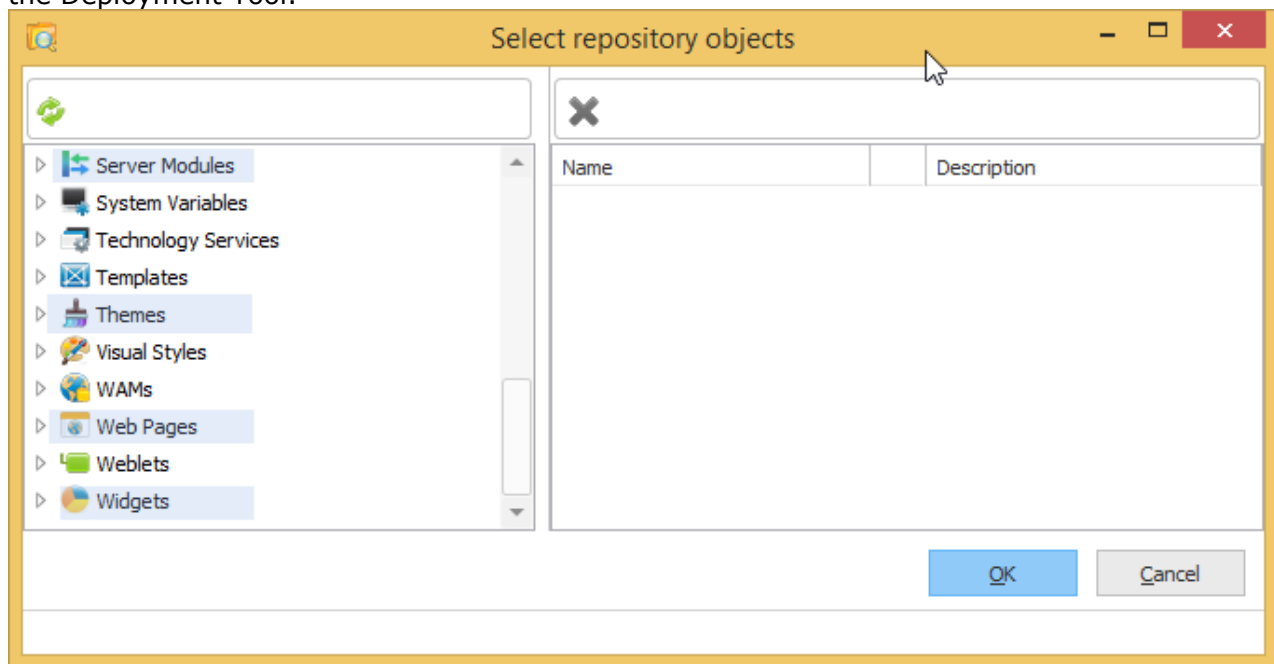


LANSA provides a virtual machine image, templates and scripts for deploying a LANSAs application into AWS. Tools for deploying to other Cloud providers will be supplied in the future.

For further information, refer to Cloud Customizations and Cloud Tutorials.

Support for Visual LANSAs Web Objects

The new object types associated with Visual LANSAs Web (VL-Web) development are supported in the Deployment Tool.




The object types are:

- Server Modules
- Themes
- Web Pages
- Widgets

Additionally you may note that objects for WAM development are NOT available in the Deployment Tool unless your current environment is enabled for WAM Development. Similarly object types relevant to Web Event development (i.e. Web Components) are only shown if they are supported in your current environment.

Execution Parameters Extended



Execution parameters	
Require Elevation	Yes
Language (LANG)	[Current]
Process to Execute (PROC)	*LICENSES
Function to Execute (FUNC)	[None]
Form to Execute (FORM)	[None]
Partition Identifier (PART)	[Current]
LANSA User (USER)	[QPGMR]
Create X_START Shortcuts	Yes


The option Require Elevation has been added in the Execution Parameters to indicate if the Application should be installed with Administrators Rights.

Templates installing the Web Server have been modified to have this value set as Yes.

The option Create X_Start Shortcuts has also been added as an option in Execution Parameters to indicate whether shortcuts should be created when installing the MSI.

Additional LANSA Features Extended

Two new options are available in the Additional LANSA Features grouping.

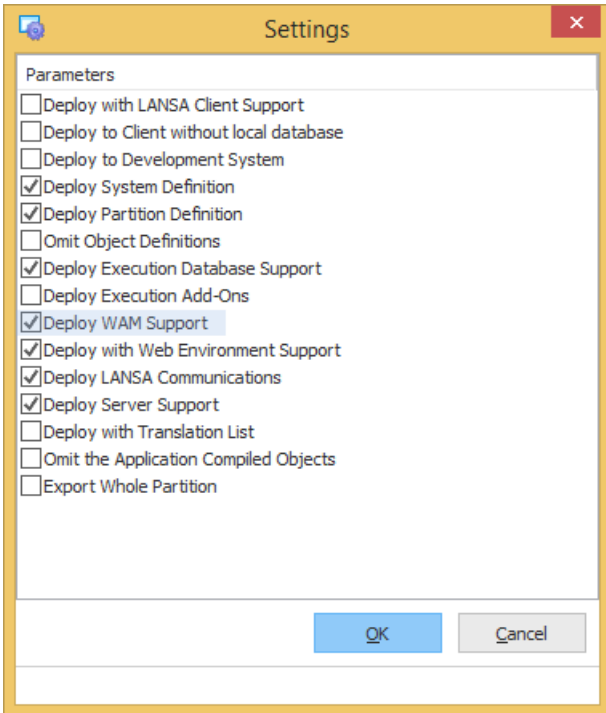


Additional LANSA Features	
Install Listener	Yes
Install Web Administrator	Yes
Install IIS Plugin	Yes
Install VL Web Runtime	Yes
Install Web Images	Yes
Install Java Service Manager	No
Install LANSA Integrator Studio	No
Install Visual LANSA Framework	No

- Install VL Web Runtime must be included when deploying a VL-Web Application.
- LANSA Integrator Studio can be deployed as required.

Package Settings Updated

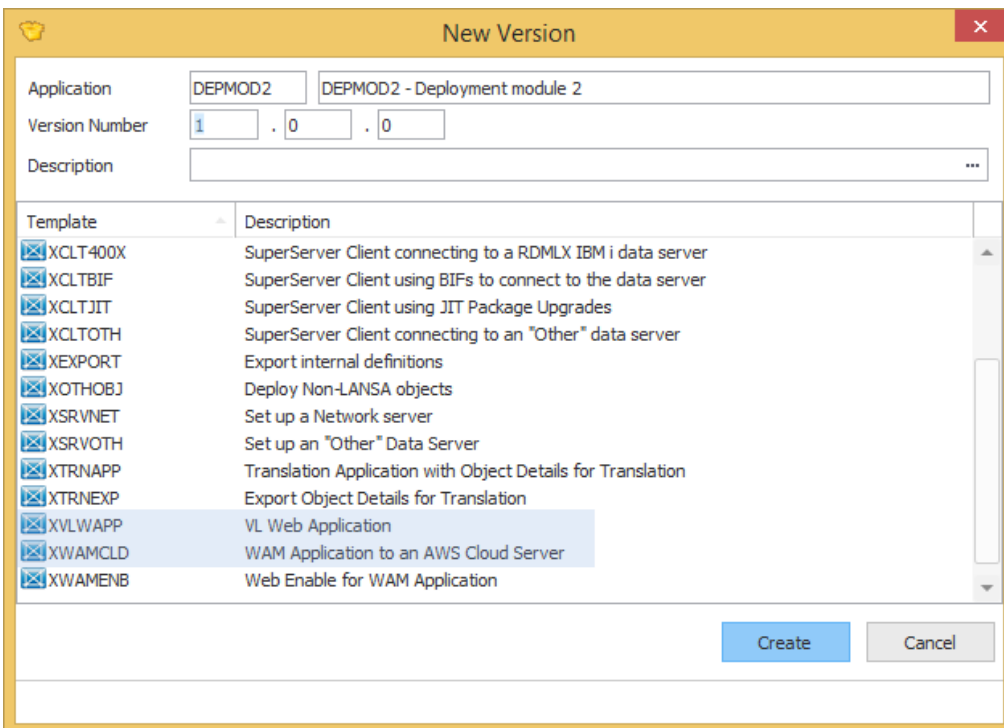
The options available in the Package Settings have been updated.



The option Component Support has been removed. Component support will always be included in any MSI or MSP file. A new option Deploy WAM Support has been provided. This option will only be available if the current partition is enabled for WAM Development.

Template Changes

The templates provided with the Deployment Tool have been updated to reflect best practice and the latest features available.



New templates have been provided for deploying a:

- Visual LANSAs Web Application
- WAM Application to an AWS Cloud Server

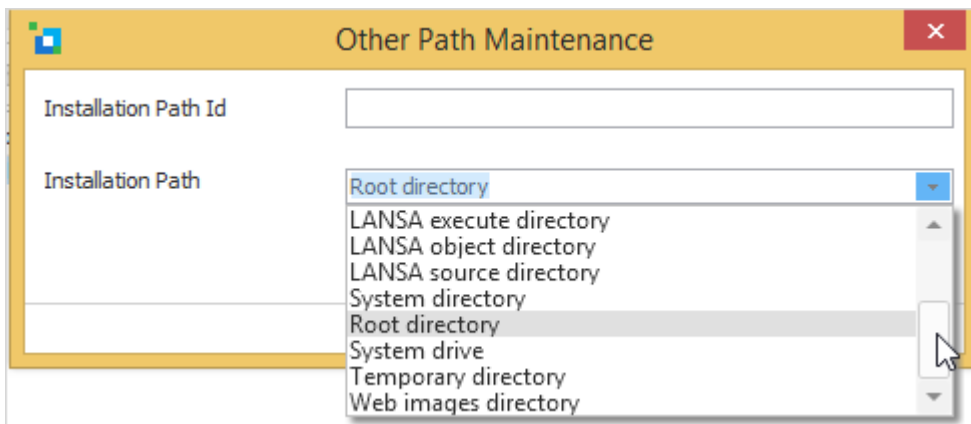
Templates removed:

- XCLT400
- XCLT400X
- XCLTJIT
- XCLTOTH

If you upgrade your Visual LANSAs installation you may still have these templates but they are not recommended for use as they use the SuperServer XRUN parameters for server connection. The recommended template for SuperServer applications is XCLTBIF.

LANSA Root Folder Supported for Non-LANSAs Object Deployment

The LANSAs Root Folder has been added as a supported destination for non-LANSAs objects.



9. Other Enhancements



LANSA Integrator

A Typical Visual LANSAs installation now includes LANSAs Integrator. Note that LANSAs Integrator requires a Java install as a prerequisite. For Java version details, please refer to the LANSAs Supported Platforms document located at:

<http://www.lansa.com/support/supportedversions.htm>

Note that in a Typical VL installation, Integrator will not be installed if a supported Java version is not found.

If Integrator is selected in a Custom Visual LANSAs installation then the installation will only proceed if a supported version of Java is

already installed on the machine.

Widgets for Using IBM I Resources from JavaScript in a Browser

LUI Connector provides developers an interface to request the use of IBM i resources from JavaScript in a browser. The LANSAs Connector widgets allow RDML developers to use this interface.

LUI Connector is a JavaScript library with APIs for resources provided by IBM i servers. The APIs interface with LUI Connector Service Provider software installed on an IBM i server.

With the Connector widgets you can:

- Change the current user's password
- Call a command
- Read or write to a data area
- Read or write to a data queue
- Send an email
- Read or write to a message queue
- Retrieve an object list
- Call a program
- Get a system value
- Send and receive messages from a web queue.

New Built-in Functions

WebQ_Receive and WebQ_Send Built-In Functions to can be used to receive and send text data from and to a specified data queue. For more information see:

WEBQ_RECEIVE and **WEBQ_SEND** in the Technical Reference Guide.

DELETE_LANSAs_OBJECT Built-In Function allows RDML functions to be written and executed to delete LANSAs objects in a partition of a LANSAs for i master system. This Built-in Function is supported on IBM i only. Refer to **DELETE_LANSAs_OBJECT** in the Technical Reference Guide for the list of object types that are supported.

Supported New Versions of Third Party Software



SQL Server 2014 Express SP1 is shipped with LANSA.

When installing Visual LANSA, if the option to create a new database instance has been selected, the new database instance will be created with SQL Server 2014 Express SP1. Likewise during a Visual LANSA upgrade, if you are offered the choice to upgrade an existing database instance, it will be upgraded to SQL Server 2014 Express SP1.



Support for SQL Anywhere 17.



Support for Visual Studio 2015.

Upgraded Third-Party Libraries

Third-party libraries have been upgraded:



jQuery Core 1.10.2



jQuery UI 1.11.4



jQuery Mobile 1.4.5



CKEditor 4.5.1

MySQL Support on Linux 64-bit and Windows



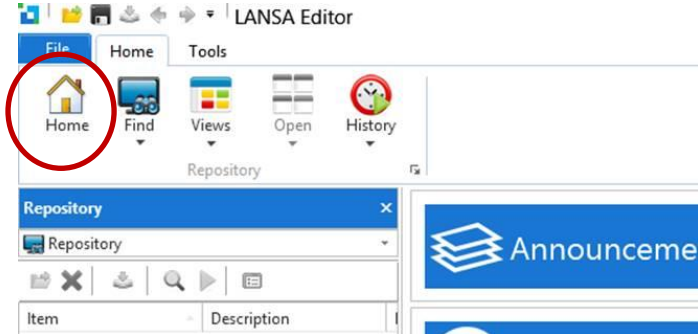
MySQL databases are now supported by LANSA systems on Windows and 64-bit Linux operating systems.

Allow Visual LANSA Component Definitions with the Same Name as a Repository Object

Up until now it has not been possible to create local components using the same name as a repository field or a component. This restriction has been lifted.

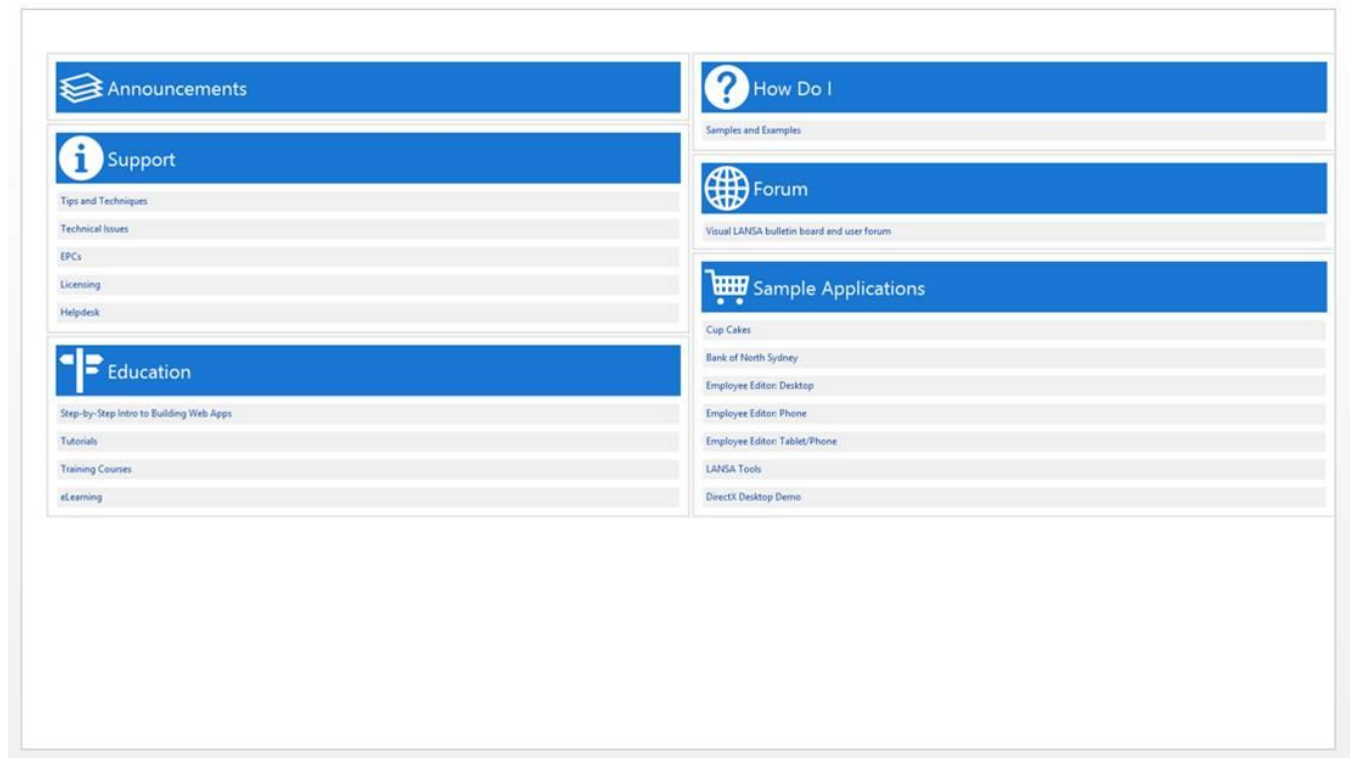
New Home button the in VL IDE

The VL IDE now contains a new Home button:



Using this new Home button, you have access to:

- New Announcements
- Support pages
- Education
- How Do I
- The new Visual LANSA Forum
- All kind of Sample Applications, like the LANSA Tools (see page 2 of this newsletter)



End of Support notice (LANSA V12)

With the release of V14, the Support for LANSAs Version 12 Service Pack 1 will end on 16 May 2016.

From 16 May 2016 LANSAs will provide an Extended Support Service ("ESS") to all maintenance paying customers at the latest EPC level of V12 SP1 version of LANSAs.

NEW: Visual LANSA Forum

There is now a Visual LANSA Forum:
<http://vlforum.lansa.com.au/index.php>

There are three sections – “Questions & Answers” and “Tips and Techniques” are open to all comers. “Product Announcements” access granted to just a few.

The screenshot shows the Visual LANSA Forum website. The header features the Visual LANSA logo and the text "Visual LANSA Forums Peer support for Visual LANSA". A search bar is located on the right. Below the header, there are quick links for "Quick links" and "FAQ", and buttons for "Register" and "Login". The main content area displays a table of forum sections:

VISUAL LANSA	TOPICS	POSTS	LAST POST
Questions & Answers This Q&A forum allows users to post and respond to "How Do I Do" questions. Please do not use to report (suspected) errors - you must use your regional help desk for this. The information contained in this forum has not been validated by LANSA and, as such, LANSA cannot guarantee the accuracy of the information.	0	0	No posts
Tips and Techniques This forum allows developers to post programming tips and coding techniques that may be useful to other Visual LANSA developers. The information contained in this forum has not been validated by LANSA and, as such, LANSA cannot guarantee the accuracy of the information.	1	1	Using Icon Fonts by BrendanB Tue Nov 24, 2015 10:36 am
Product Announcements Read-only forum. Used to announce new releases of LANSA.	1	1	LANSA Version 14 General Avail... by petedraney Thu Nov 05, 2015 11:14 am

Below the table, there is a login/register section with fields for "Username:" and "Password:", and a "Login" button. There are also links for "I forgot my password" and "Remember me".

The "WHO IS ONLINE" section shows: "In total there is 1 user online :: 0 registered, 0 hidden and 1 guest (based on users active over the past 5 minutes). Most users ever online was 9 on Wed Nov 25, 2015 1:58 pm".

The "BIRTHDAYS" section shows: "No birthdays today".

The "STATISTICS" section shows: "Total posts 2 • Total topics 2 • Total members 19 • Our newest member **René Houba**".

At the bottom, there are links for "Contact us", "The team", and "Delete all board cookies". The footer text reads: "Powered by phpBB® Forum Software © phpBB Limited".