

WHAT'S NEW IN UNIFACE 9.4?

Uniface 9 offers all the benefits that customers have come to expect from Uniface, and more. It also makes these benefits available across a wider range of technologies. With the new capabilities introduced in Uniface 9.4, developers can quickly produce complex, secure, global Web 2.0 applications that can be deployed on any platform.

WELCOME TO UNIFACE 9.4

After 25 years on the market, Uniface has a large global customer base, and an unusually loyal one. One of the main reasons for this loyalty is that Uniface greatly increases developers' productivity, particularly when it comes to building and maintaining enterprise applications.

Another reason customers keep coming back is that Uniface allows them to take advantage of the latest trends in technology – such as web-based service delivery – without the need for their developers to learn a lot of new technical detail overnight. Because Uniface takes care of the technology aspects, you can upgrade applications to the latest platforms fast and start seeing benefits immediately.

With the introduction of Uniface 9, the benefits of the Uniface development environment are now available across an expanded range of technologies, and with additional features. The latest rollout of Uniface 9 is version 9.4.



Figure 1: RIA application with a dockable fly-out tree driven menu.

NEW FUNCTIONALITY IN UNIFACE 9.4

Uniface 9.4 introduces Dynamic Server Pages (DSP) which support RIA functionality through web widgets, enhanced and specialized proc functions, and ID-based binding. This new DSP feature gives developers much more flexibility in laying out screens.

Web widgets offer a more complete set of interface controls than traditional HTML controls, and give applications the richness and interactivity that end-users expect from Web 2.0 applications. New Uniface web widgets like date picker and combo box add convenient functionality such as browser-side validation, plus styling features that make it easy to give pages a new look and feel.

The new DspContainer widget allows developers to build RIA web pages using multiple DSP components; it is possible to combine multiple data sources in one widget. Rich tree and tab widgets can be easily built with this technology.

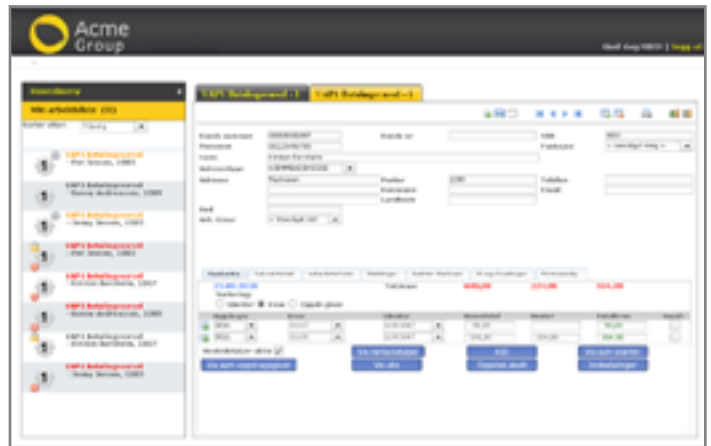


Figure 2: RIA language independent application, integrated with Uniface Flow.

UNIFACE WORKFLOW INTEGRATION

Uniface 9.4 introduces a new integrated Business Process Modeling Workspace that provides direct access to the Uniface Flow Process Studio, the environment for creating and maintaining process and organization models to drive workflow automation. That addition makes Uniface into a completely integrated development environment for building composite applications.

Developers can easily combine business functionality and workflow using a single central repository, web server and installation medium. They can conveniently accommodate the ever-changing needs of end-users by directly updating the workflow process associated with a business application.

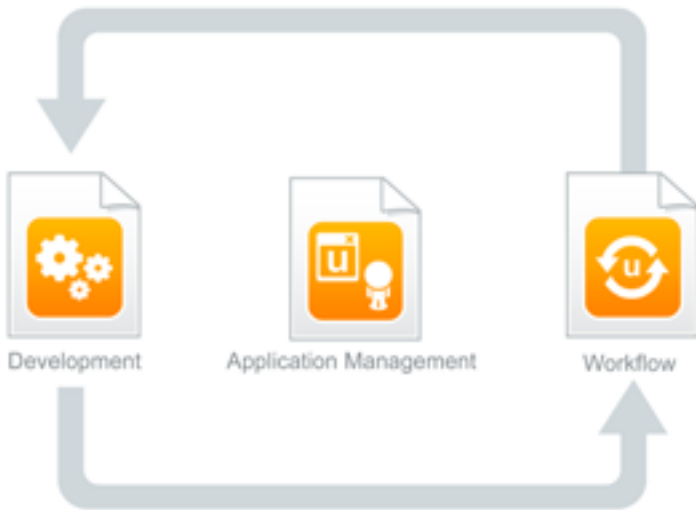


Figure 3: Uniface 9.4 integrates workflow and application development in one application suite.

UNIFACE DATA SECURITY

More and more, we see Uniface business applications being used 24/7, accessed in public places, and deployed worldwide. These trends necessitate tighter security standards, particularly where sensitive information is involved.

Safe transport and storage of application data are a key aspect of security, and Uniface has provided encryption and decryption methodologies for many years. However, to meet the growing need for stricter data security, Uniface 9.4 has been extended with new, easy-to-use functions that make the latest security standards directly available to Uniface developers.

The new proc functions, \$encode and \$decode, support a wide variety of encoding and encryption algorithms. This development makes it straightforward for developers to encrypt and decrypt data using encoding schemes such as Base64, hexadecimal and URL-based encoding.

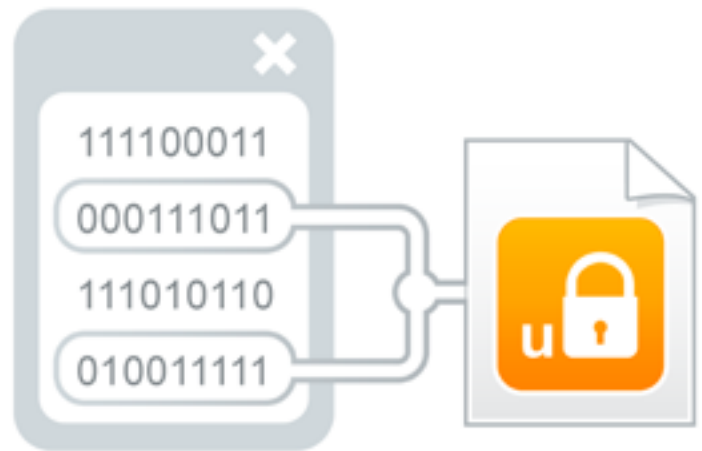


Figure 4: Data security in Uniface 9.4 uses all known encoding and decoding standards.

GLOBALIZATION SUPPORT

With the release of Uniface 9.4, the product now supports sorting, number formatting, and date and time formatting based on language, region, country and locale. This makes it even easier and more effective to support a global user base with a single Uniface application suite. Uniface checks the locale for which a given end-user has configured their browser or application, and instantly switches the settings for sorting and formatting data to those of the appropriate region or country.

Sorting is based on the Unicode Collation Algorithm plus locale-specific comparison rules from the Common Locale Data Repository, (<http://www.unicode.org/cldr/>) a comprehensive source for this type of data.

Formatting of numbers, dates, times and currency amounts is done according to the conventions of a chosen locale. This includes translating month and day names into the selected language, choosing appropriate abbreviations and ordering fields correctly.

Language	Swedish German	z < ö ö < z
Usage	Dictionary Telephone	öf < of of < öf
Customizations	Upper first Lower first	A < a a < A

Figure 5: Uniface 9.4 supports character sorting for different languages and applications.

SENDING AND RECEIVING HTML OR RICH TEXT EMAILS

Today's business applications rely heavily on email messages as a medium for exchanging data with end-users. The way those emails are formatted is becoming important, since standard layouts and use of logos allow recipients to recognize the origin of an email immediately. Companies are therefore setting standards for emails, often reflected in a companywide HTML style sheet, and compliance requires the email to be produced in HTML or rich text.

The Uniface email integration function UPOPMAIL has therefore been enhanced to support sending of both HTML and rich text emails, including messages with attachments and inline objects. Uniface 9.4 applications can also receive and process incoming emails in HTML or rich text formats.

NOTE: You can learn more about the new functionality described above from tutorials in the updated Uniface 9.4 library. You can also watch hands-on examples in the Uniface YouTube channel.

To learn more, visit: www.uniface.com

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