
UNIFACE
Conference
Face2Face| June 6 | 2018

Product Roadmap

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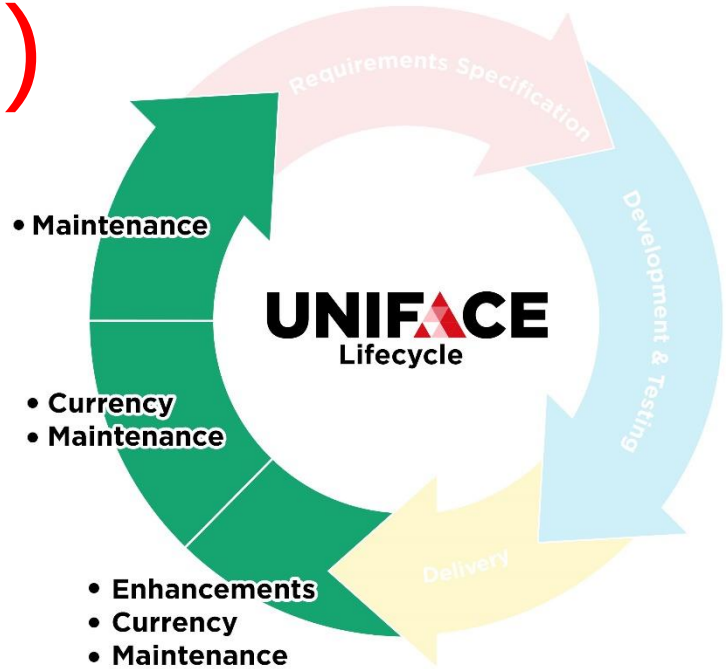
Agenda

- Recent news
- What we are working on now
- Looking into the future

Uniface 9 support (9.6 and 9.7)

- Uniface 9.6
  - Uniface 9.6.08 maintenance delivered September
  - Expected to be the final server pack delivered
  - Since December 2017 – Uniface 9.6 is Unsupported
- Uniface 9.7
  - Uniface 9.7.04 released August 2017
    - Oracle 12.2 support
    - Cloud deployment
    - CentOS Linux support
  - Uniface 9.7.05 will ship early July 2018
    - Security
    - Cloud windows server support
  - Uniface 9.7 will be in maintenance mode



Uniface 10

UNIFACE 10
Enterprise Edition

- Uniface 10.2 released September 2016
- Full client capability:
  - Mobile, Web, Client Server and Batch
- Frequent updates – 30+ patches
  - Focused around migration and performance
  - New features announced on Uniface.info
- Uniface 10.3 will ship early July.

Security – turning up the heat

- Security is a big focus area
- Teams are dedicated to security
  - Following the Uniface roadmap
  - Supporting technical support
- We have engaged an additional external consultancy company
- Security is more than the product we deliver
  - The tools we use to build and deliver Uniface
  - How we build and deliver it
  - The functionality available in Uniface
- Security is a shared responsibility

Security – what we've done

- Additional measures in the Uniface Product
  - Tamper proofing of the Uniface distribution – delivered in August
  - Increased attention on 3rd party technologies – on-going process
- Additional enablement for customers
  - Public/Private web service business logic specification
    - Option in Uniface 9.7
    - Default in Uniface 10.3 (changed behaviour)
  - Additional mobile/web features
  - PathScrambler encryption of login credentials

- Uniface.info and/or release notes for high level details

Uniface Cloud - Linux

- Supporting Linux cloud deployment:
  - Verify Uniface on the MS Azure and Amazon AWS platforms
  - Publish support in the Uniface PAM
  - Include in our testing and verification processes
  - OS Support: Linux (Redhat, SUSE, CentOS)
  - Database Support: Oracle, PostgreSQL and mySQL
- Delivered
  - Uniface 10 – Uniface 10.2.02
  - Uniface 9 – Uniface 9.7.04

Agenda

- Recent news
- **What we are working on now**
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Developing Uniface - Continuing our Agile journey

- Focused on Features
- Build teams around a feature
- Frequent patches
  - Main code line – Always a potentially deployable package
    - Private build environments
    - Increased use of feature branches
    - Changes in how we test
- Release as soon as the feature is Done!

Security - Visual Studio 2015 update

- Uniface is built using C++
- We are rebuilding Uniface using MS VS 20015 (Windows Platforms)
  - Uniface 10.3 and Uniface 9.7.05
- Fully supported by Microsoft
- Work has been needed through all of Uniface
  - Changes in C++ development techniques
  - Changes in MS C++ functionality
- Windows 64 bit GUI has been re-implemented
- Refactoring across the product

Visual Studio 2015 – the house of cards!

- ICU Unicode libraries (had to be) updated
  - Newer version=newer standards=newer functionality
  - Potential for incompatibilities in **display/layout**
    - We are accepting the new standards rather than changing Uniface to go against them
    - Only where using $NLS.
    - Example we found: DIS($NLS(short)) dd/mm/yy became dd/mm/yyyy
- SOAP Stack (had to be) updated
- C++ Compilers on most Linux and UNIX platforms (had to be)updated
- DLM updated (now DLM 9.1)
- Installer (had to be) updated

Visual Studio 2015 update – what it means for you

- Security – fully supported by MS
- We have seen a noticeable increase in performance
  - Uniface proc execution gave us +/- 20%
  - Not a ‘structured’ test, so your application may be different
- Refactoring resolved a number of bugs
- Higher level of quality
  - New tests, external testing, etc.
  - Cleaner code (also from TLS project)
  - Code changes put into Uniface 9.7.04 patches

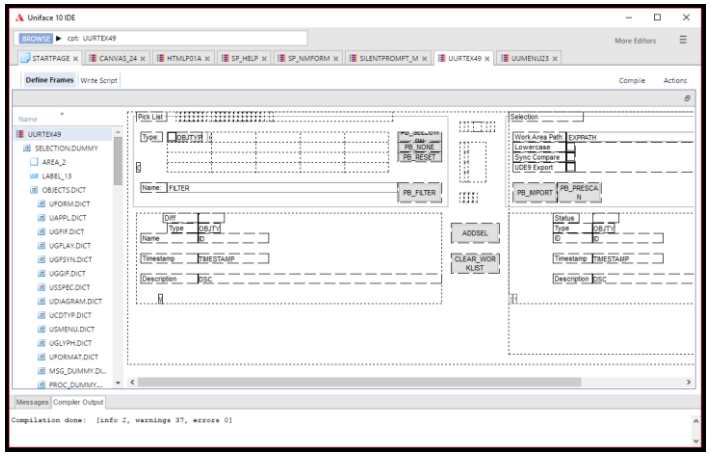
TLS Driver – Client Server & Web

- Transport Layer Security based on Open SSL www.openssl.org
- TLS Network Driver – OpenSSL layer over TCP/IP
  - Choice of OpenSSL encryption ciphers (performance impact)
    - Application characteristics and requirements
      - Chatty or large amounts of data
    - Policy requirements
      - Is there customer standards?
- Will be delivered in Uniface 10.3 and Uniface 9.7.05

Uniface 10.3 - expect early July 2018.

Maturing and Expanding functionality

- Migration/version up
- IDE performance
  - Large repositories
  - Overall IDE developer experience
- Finalized repository - Structure, optimization and tooling to get there
- Create table utility
- Umeta.xml



Uniface 10.3 - expect early July 2018.

Maturing and Expanding functionality

- Developer utility integration (Additional menu & user defined tabs)
- GFP Integration
- Load Definitions (MS SQL being finalized).

Security Features included

- MS Visual Studio 2015
- TLS Driver
  - Client Server
  - Web (probably!)
- Web Services, etc all previously delivered in Uniface 9.7.x

Migrating to Uniface 10.3

Migration has been an important part of the Uniface 10 project

- Under the hood, new migration tooling
- Undergone a thorough testing program
  - Internal apps and customer apps we have ‘in house’
  - Migration ‘roadshow’ conducting test migrations ‘on site’
- Continual feedback to development
  - Uniface 10.3 has one dedicated ‘migration team’
  - Objective is to make migration easy, simple and painless
- Testing continues
  - Additional on-site test migrations

Uniface Cloud – Adding Windows to the PAM

- Supporting Windows: (Uniface server functionality)
  - Verify Uniface on the MS Azure and Amazon AWS platforms
  - Publish support in the Uniface PAM
  - Include in our testing and verification processes
  - OS Support: Windows Server 2016
  - Database Support: MS SQL, Oracle, SQL Server, PostgreSQL, mySQL

- Uniface 10.3
- Uniface 9.7.05

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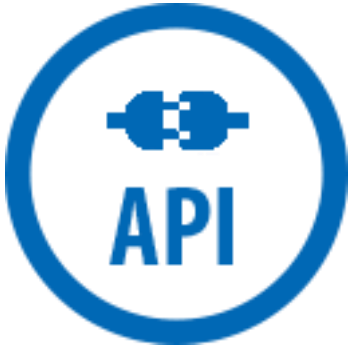
Security – ongoing plans

- Memory management
- UpopMail over TLS (probably a new U2.0 driver)
- LDAP over TLS
- Ongoing

Uniface 10 – IDE enhancements – short term



- Load Definitions (Oracle and PostgreSQL)
- 64 bit IDE
- Uniface Coding - enabling more from the Scintilla Editor
  - Code completion - expand the current functionality to include Statements and Operations
  - Right to Left Support
  - There is a lot of Scintilla capabilities to enable
- Fast Form
- Open Uniface IDE API's and Plugins
  - Provide customers with options to extend the IDE functionality.
  - Business opportunity for Uniface partners
  - Helps manage 'homebrew' development practices
- Tiny Noticeable Things (TNT)

Uniface 10 – Shorter term

- Version Control – Next major project
- Phased approach
  - Phase 1 – Workarea support
    - Uniface 10.3 timeframe (delivered by maintenance updates)
    - Ability to import and export from a version control file type
    - Granularity to work as small or as large as required
  - Phase 2 Synchronization with Version Control storage
    - Will focus on Git (we have previously talked about SVN)
    - We want to use the Git client functionality, and not redevelop what Git has already provided.

Uniface Community Edition

UNIFACE 10
Community Edition

- Free to use development release
- Encourage new Uniface developers
- Encourage existing customers to use new features
- Encourage new/more Uniface initiatives
  - New applications
  - New additions to the IDE
  - New contributions to samples, GitHub project, etc.
- Expect in 2018 timeframe

Uniface 10 – Longer term

- Web Services usability
  - Current Uniface capabilities are quite strong.
  - Implementation can be made easier and more productive
  - Eliminate/reduce the need for 3rd party/external technologies.
- Enhanced debugging
  - Need to enhance and expand current debugging capabilities
  - Needs to be graphical, integrated, modern, etc.

Uniface Mobile – longer term

- Offline application execution
  - Compile resources into the app
  - Run after install with no network
- Offline application data
  - Some functionality now available (Datastore)
  - Large datasets
  - Data synchronisation
  - Upgrading

IoT – Internet of Things

- The internetworking of connected devices

- IoT requires the collection, management and reporting of data
- Uniface is a very compelling solution for IoT data
  - Scalable
  - Portable across on-premise and cloud platforms
  - Integration options including RESTful API, JavaScript, 3gl
  - High availability
  - Management of structured and unstructured data


Thank You & Questions
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