Migration to JavaFX

- The Challenge: HiDPI
  - *Java UI (Swing) doesn't take a scale-factor from Windows – sizes in dots*
  - *FullHD monitors show applications in too small visual dimensions*
  - *no promises for fixing in nearest future (OpenJDK 9 – 7/27/2017 ?)*
  - *suggestion to use JavaFX as new UI having correct DPI processing*

- First approach – min efforts – scale programmatically
  - *cannot fix not-accurate results in XYLayout internal calculations that lead to incorrect alignments of visual components (ADF JClient '2004)*

- Suggested standard – migrate to JavaFX
  - *so much differs in language and "thinking" approach (Java 8)*
  - *too many programs to migrate, including common appl. framework*
  - *ADF has no binding model for JavaFX, UI needs to use ADF-for-Swing component model*

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Application Framework Stack

Application Client

View

Model
Control

| Swing UI | JavaFX UI |
| UI related | UI related |

Local App. Framework

ADF Bindings for Swing

Oracle App. Dev. Framework

ADF-to-WDS Adapter

- MDI style
- ADF bound

Application Server

Appl. Repository

Web Data Service

Database