2LA
The Kondor+ Specialists

Kustom Impact Analyser

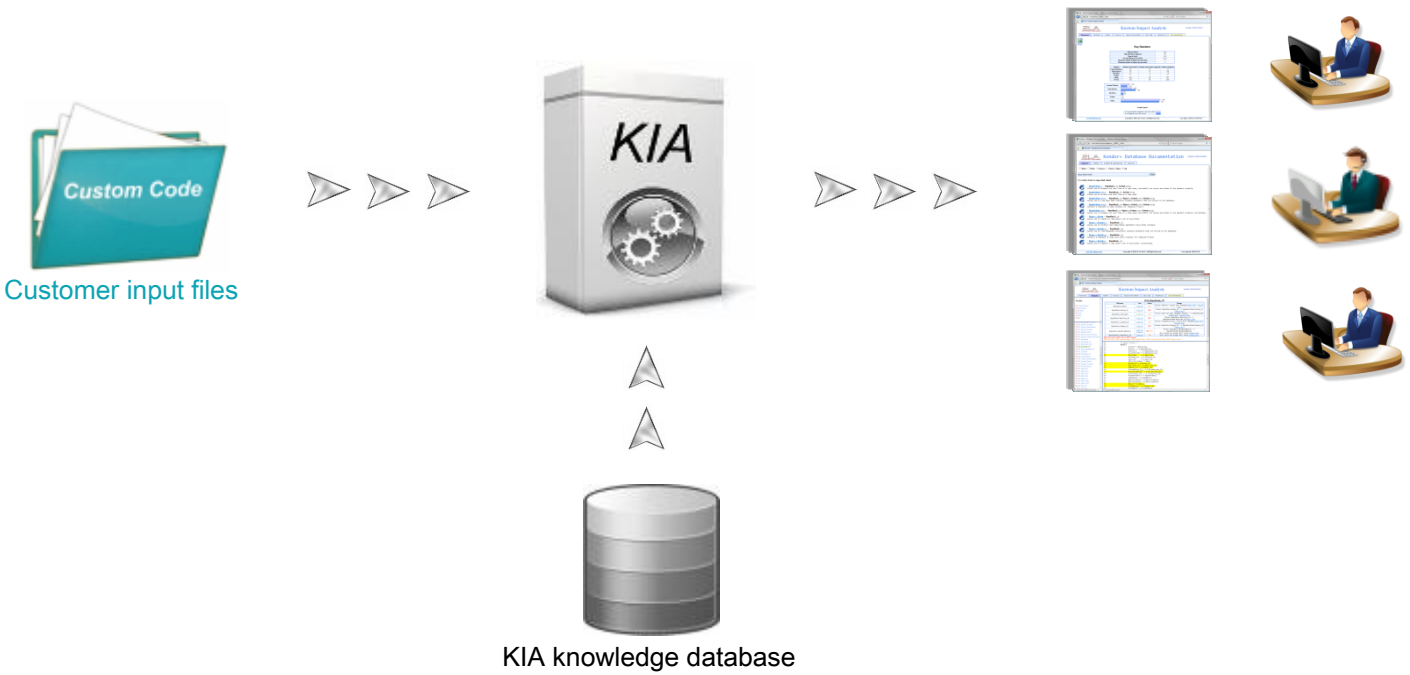
Predicting Kondor+ & K+TP Upgrade impacts on your custom code

What is the Kustom Impact Analyser?

The KIA analyses your customized developments and helps you saving time and money when migrating Kondor+ or K+TP.

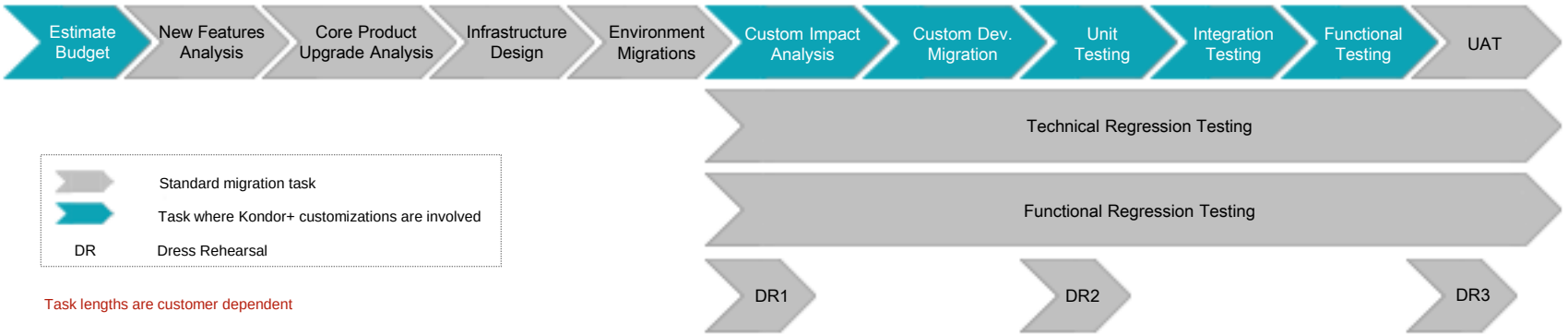
It generates a tailor made HTML report for the following audience:

- **Project Managers**
- **Business Analysts**
- **Developers**



Kondor+ 3.x Upgrade Project

A 3.X upgrade project may have new functionality as business drivers.
But preserving the company investment in the form of custom developments and interfaces is essential.



All together, an important part of the investment will be to estimate and migrate this custom code, in the following tasks:

- Estimate Budget
- Custom Impact analysis
- Custom Development Migration
- Testing phases (Unit, Integration and Functional)

Key to the project success is that the custom code migration is exhaustive.
The speed and effectiveness of the migration will determine an important part of the overall length of the upgrade.

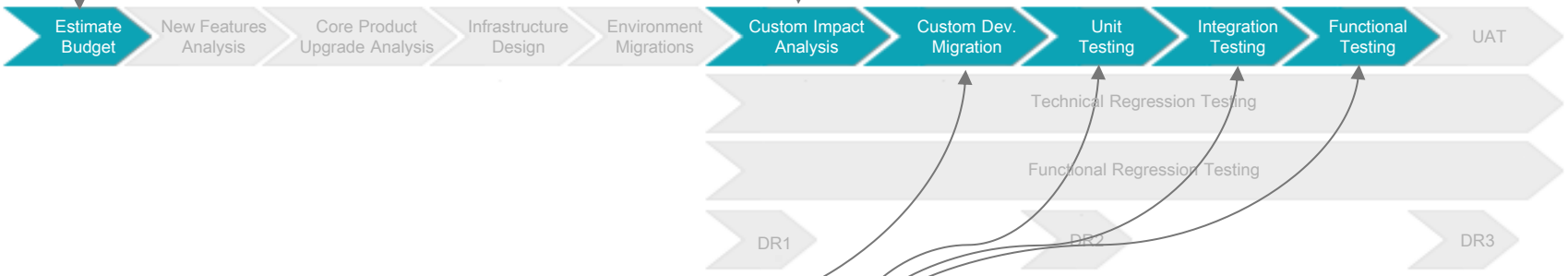
How KIA can help you migrating K+ or K+TP

Use standard project metrics?
Use sampling of code?

With KIA	Generation of DB of impacts provide exact number of impacts Use of KIA provides a finite metric of effort per module impacted

Analysis of the differences between the two K+ (or K+TP) versions at high level
Choice of fix methodology (i.e. all bonds or all Custom windows)
Identification of all impacts
Identification of change in both documentations at detail level
Identification of fixes to apply (new field name, change of choice,…)

With KIA	Database of all changes between the two K+ versions Creation of a report providing all the impacts Link between impacts and enhanced change documentation



Walk thru all files with changes identified
Walk thru all changes within a file
Code change

With KIA	The report of impacts facilitates the code change process Linked documentation reduces fix error

Load each change in an upgraded K+
Check all interfaces input / output
Run all changes to validate exhaustively

With KIA	Exhaustivity is guaranteed, only test what has changed! Interface changes are checked as well Re-run the KIA process to check everything is now compatible

KIA will impact all phases in a qualitative way, reducing risk, catching issues earlier. But also in a quantitative way, with accurate budget metrics and greatly reducing effort to identify, implement and validate changes required

KIA Added Value

Qualitative improvements

- Most upgrade projects overshoot on customization migration by 100%
- Except projects where prior analysis is equal to the migration phase!
- Items missed discovered at integration testing stage cost 5 times as much to fix
- Items missed discovered at Acceptance testing or later can delay the project, cost real money or create reputation risk

Quantitative improvements

	Manually	With KIA
Estimate number of changes and effort	40	2
Analyse differences between two K+ versions	40	0
Identify impacted modules	20	0
Identify changes to be made	80	10
Execute changes	40	10
	220	22

mandays

Sample CBA based on real migration experience.
The installation used the full range of Kondor+ asset classes (millions of trades).
Their customized development size was 3,000 SQL files (more than 2 millions of code lines).

The KIA lowers significantly project risk that could double the project cost.
And it pays itself by dividing at least by 5 the project effort around your custom code and interface migration.

Kustom Impact Analyser

Learn More…

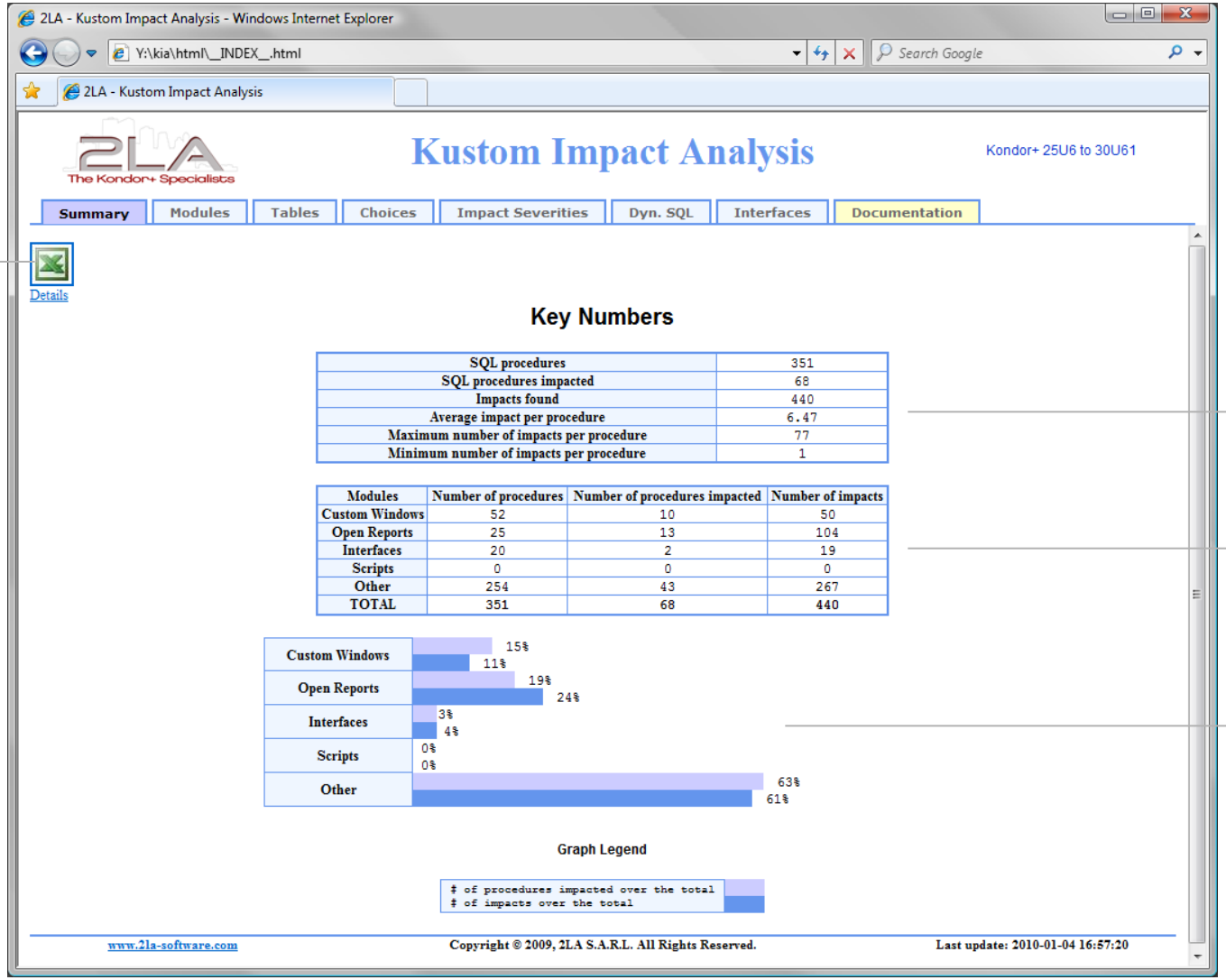
Key Features

The Kustom Impact Analyser…

- Provides Metrics on your SQL code
  - Number of files or procedures impacted
  - Total number of impacts
  - Number of impacts per file or procedure
- Points out where and how your:
  - SQL source code should be amended
  - Import & Export interface files should be changed (*KplusFeed* and *XML* formats)
  - KSQL reports should be reviewed
- Tells where the impacts are in your source code (line number but also highlighted line)
- Provides the underlying Kondor+ database documentation explaining the changes
- Enables an exhaustive validation during the development migration lifecycle through several runs
- Eases the test cases writing as it points out where the issues are
  - In which Kondor+ modules: Custom Windows, Interfaces, Open Reports, etc.
  - Which instruments are impacted
  - What has to be changed
- Provides different views to navigate within the impact analysis (technical or functional approach)
- Allows to focus the test efforts on the development pieces where the changes were performed

KIA Change Metrics

Excel document containing all the details (nb. of impacts per procedure, etc.)

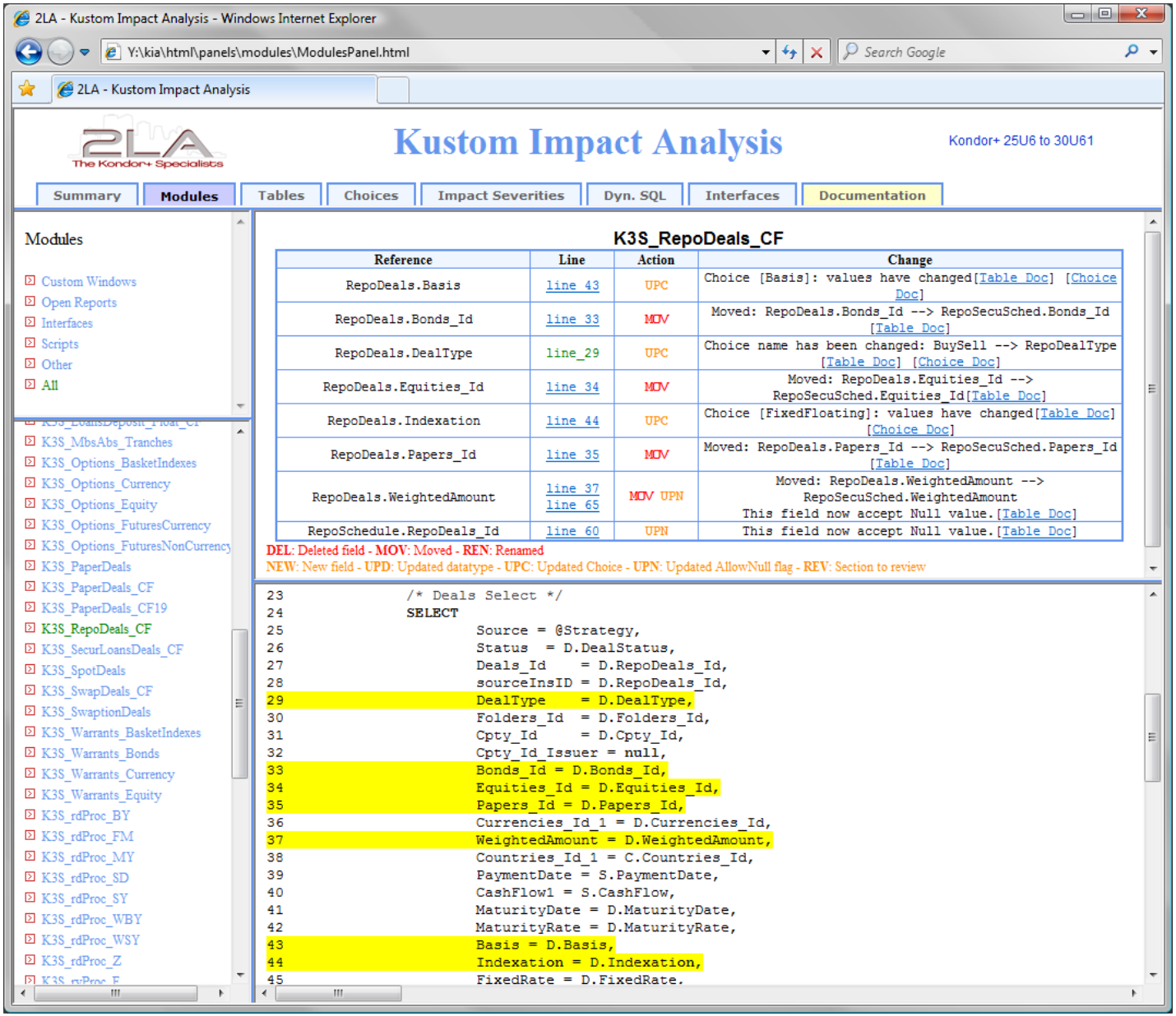


Statistics
- Nb. of files processed
- Nb. of impacted files
- Nb. of impacts
- Average nb. of impacts
- Max. nb. of impacts
- Min. nb. of impacts

Details per Kondor+ technical module

Graphical representation of these details

It shows what should be changed and how…



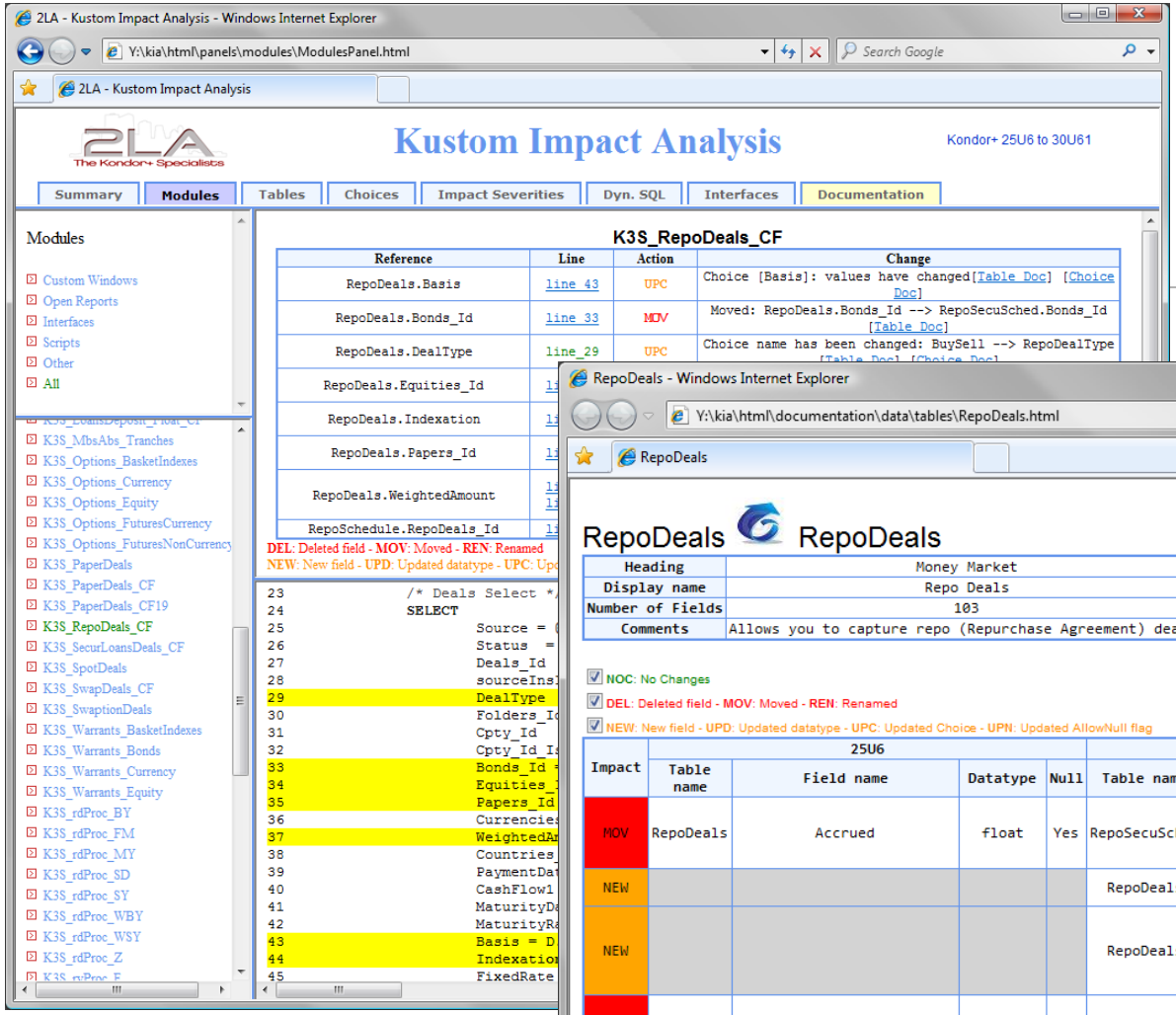
Module Selection

Procedure Selection

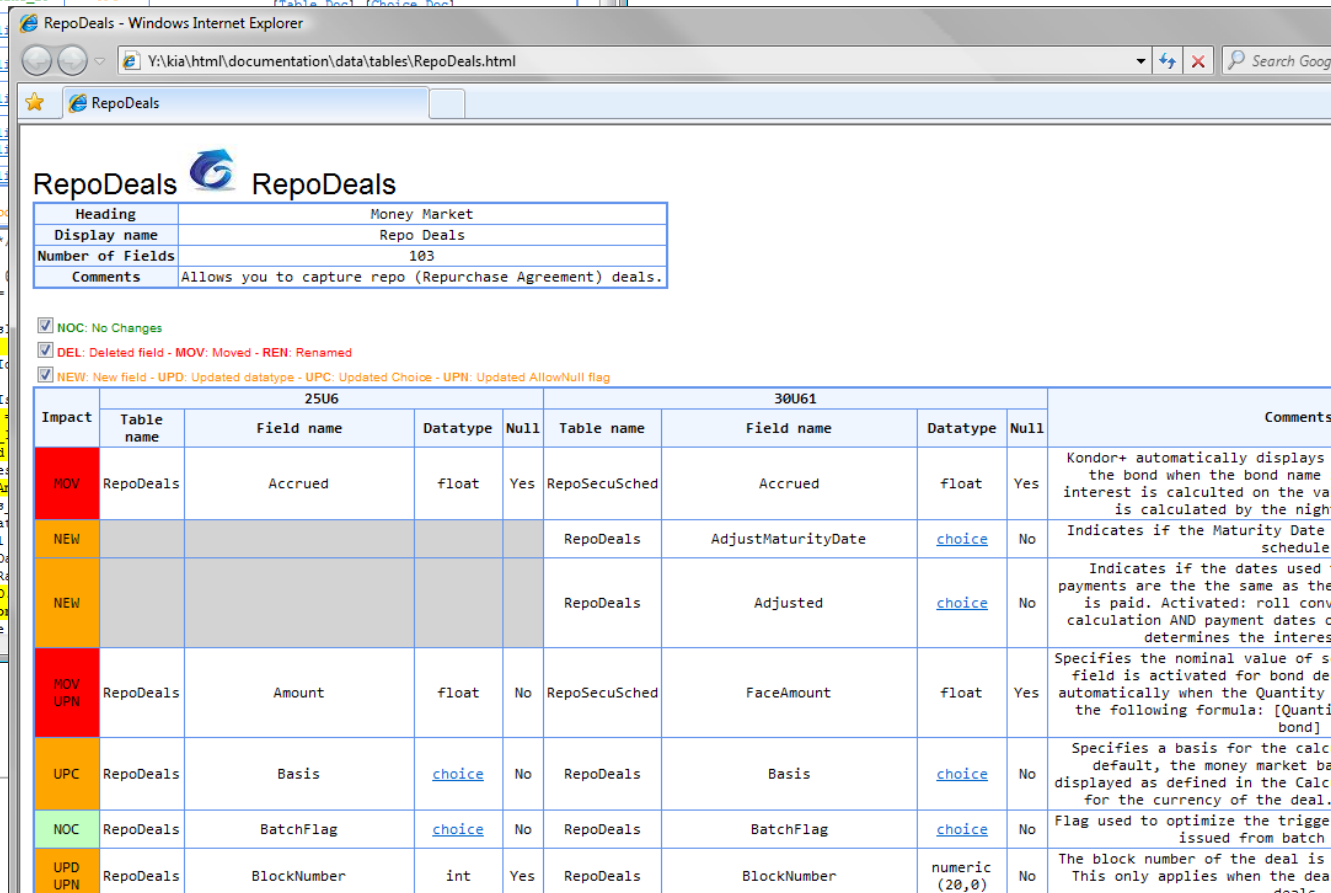
Procedure Impacts

Procedure Source Code

…with the relevant documentation links…

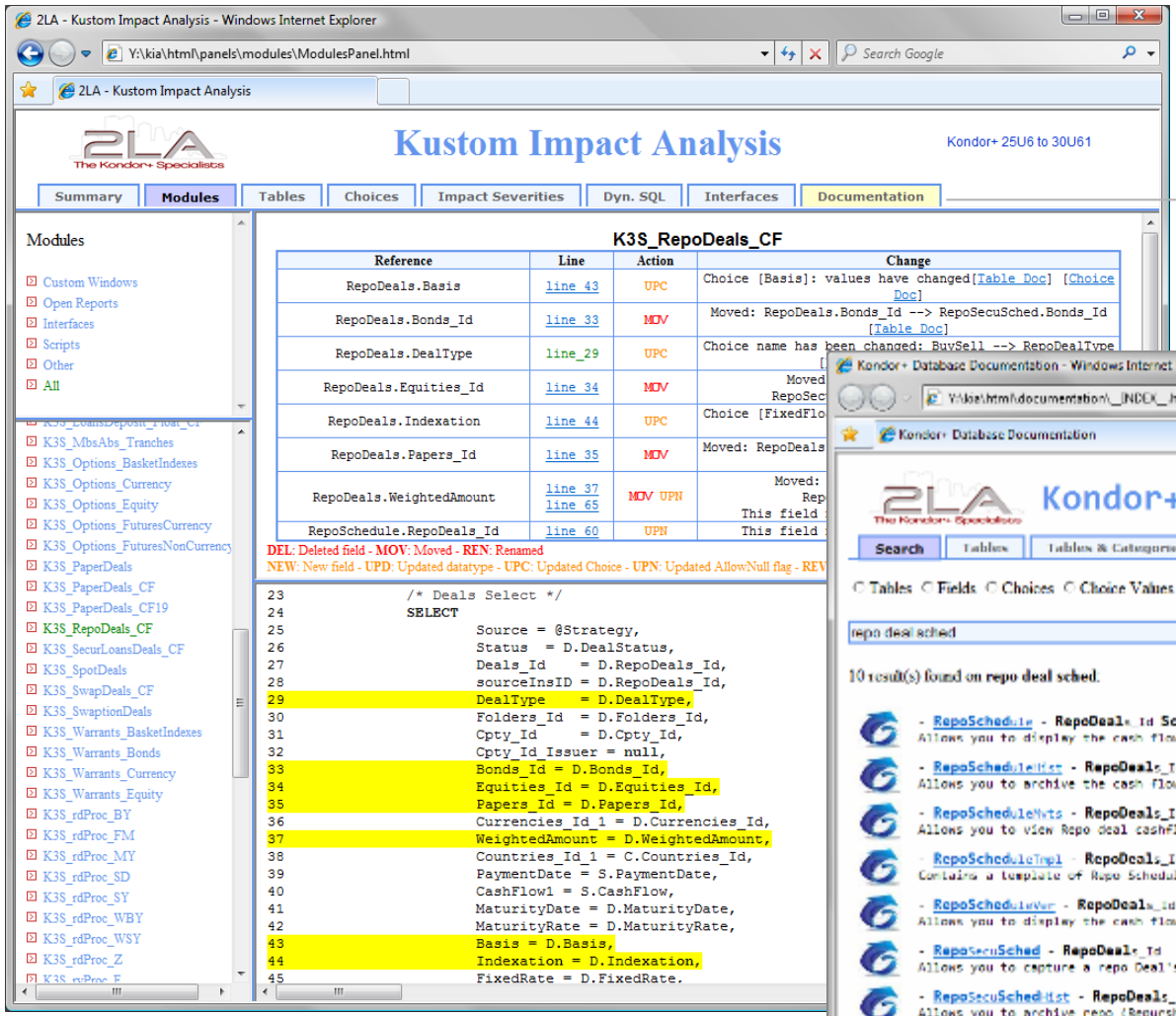


Click on the documentation links associated to each impact raised…



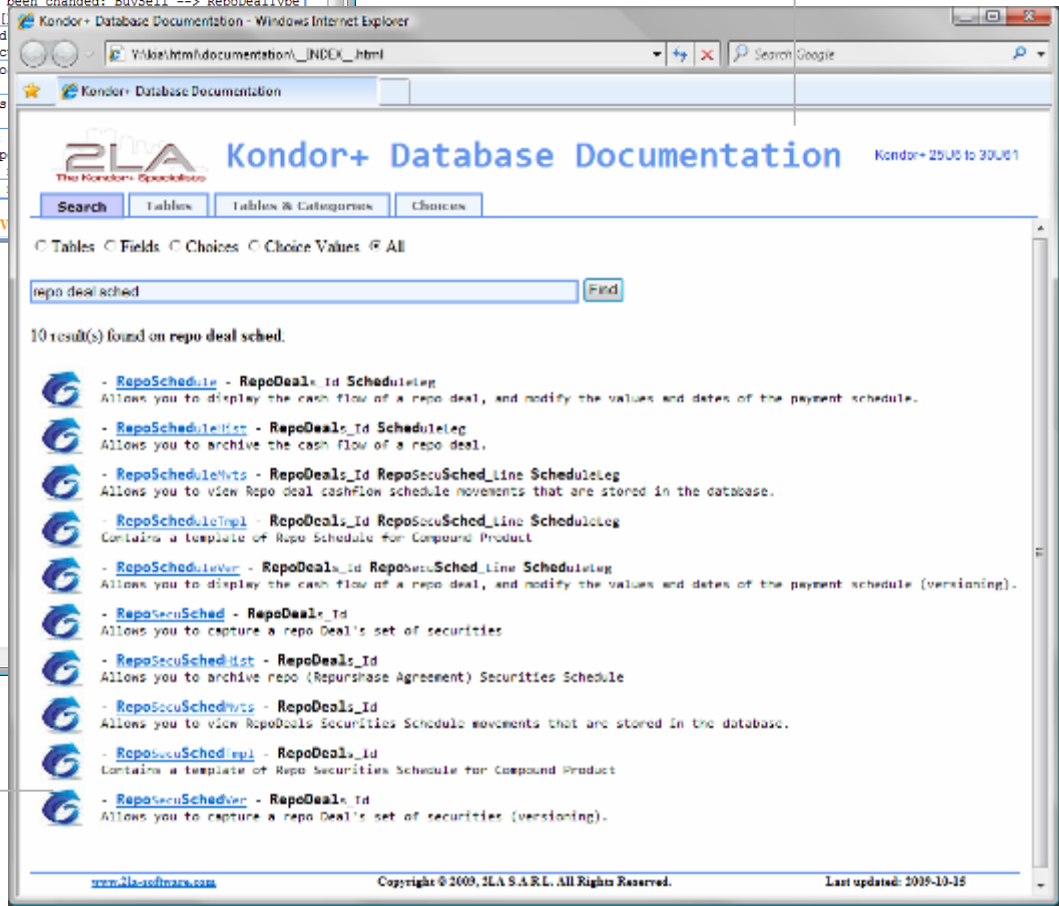
…to get the full documentation details

…and a documentation search engine



Click on this tab

…to have access to the documentation tool and its Google like Search Engine…



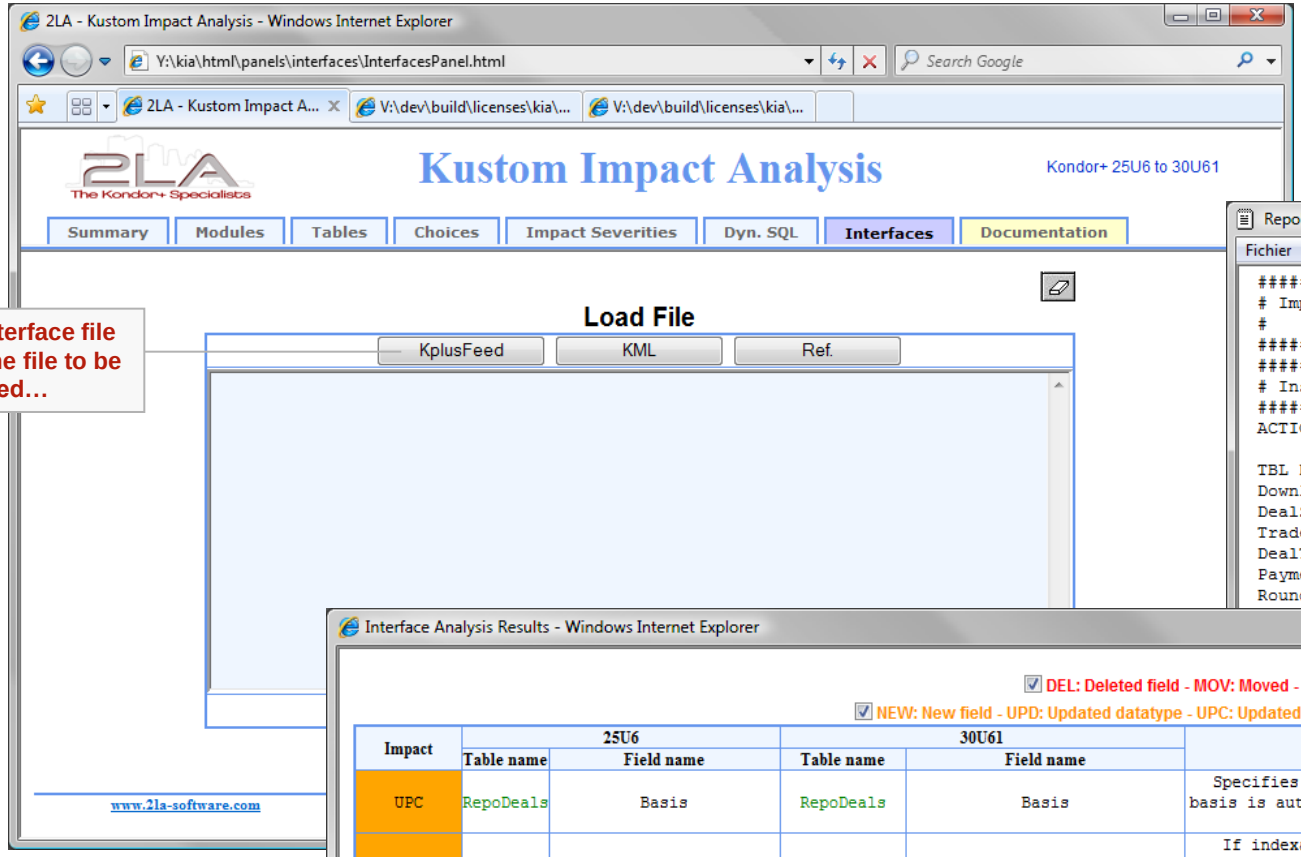
…then select the data model part you want to dive in

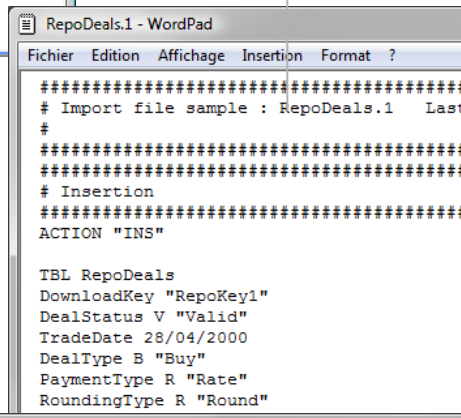
It also analyses your interface files

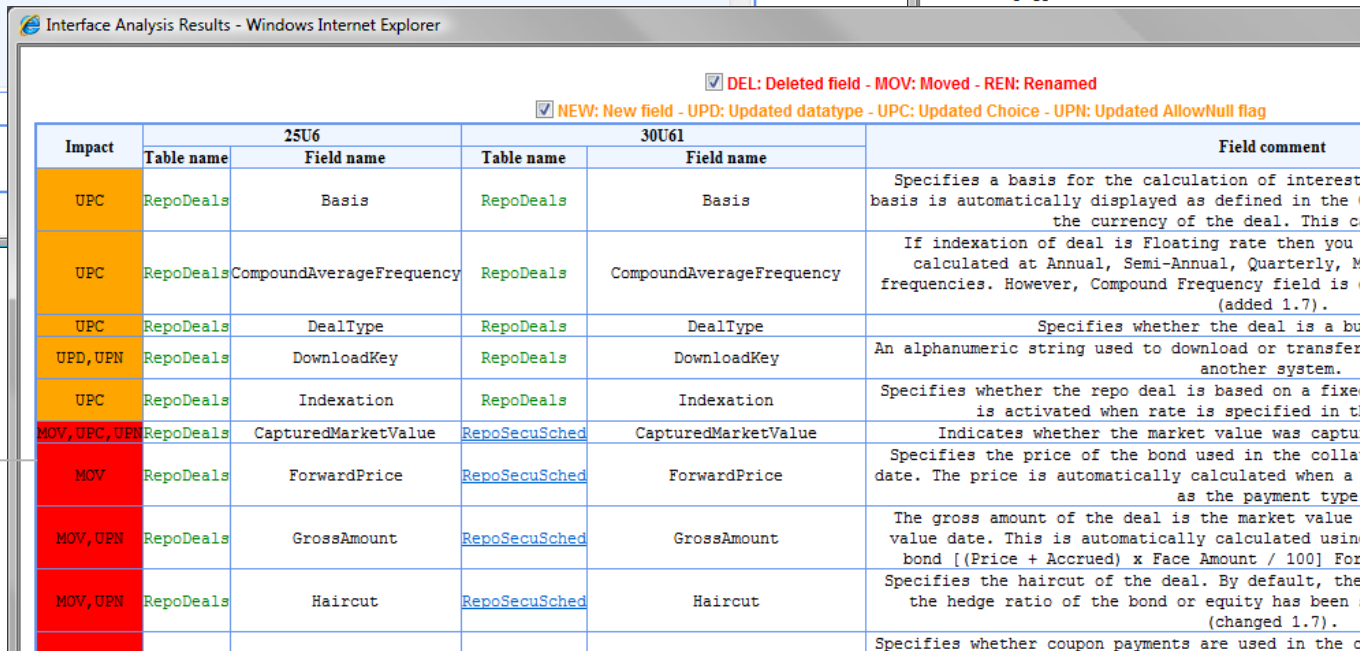
Example of interface file analysed

Select the interface file format and the file to be analysed…

…to get the result of the impact analysis







Impact	25U6		30U61		Field comment
	Table name	Field name	Table name	Field name	
UPC	RepoDeals	Basis	RepoDeals	Basis	Specifies a basis for the calculation of interest basis is automatically displayed as defined in the the currency of the deal. This c
UPC	RepoDeals	CompoundAverageFrequency	RepoDeals	CompoundAverageFrequency	If indexation of deal is Floating rate then you calculated at Annual, Semi-Annual, Quarterly, M frequencies. However, Compound Frequency field is (added 1.7).
UPC	RepoDeals	DealType	RepoDeals	DealType	Specifies whether the deal is a bu
UPD,UPN	RepoDeals	DownloadKey	RepoDeals	DownloadKey	An alphanumeric string used to download or transfer another system.
UPC	RepoDeals	Indexation	RepoDeals	Indexation	Specifies whether the repo deal is based on a fixe is activated when rate is specified in t
MOV,UPC,UPN	RepoDeals	CapturedMarketValue	RepoSecuSched	CapturedMarketValue	Indicates whether the market value was captu
MOV	RepoDeals	ForwardPrice	RepoSecuSched	ForwardPrice	Specifies the price of the bond used in the colla date. The price is automatically calculated when a as the payment type
MOV,UPN	RepoDeals	GrossAmount	RepoSecuSched	GrossAmount	The gross amount of the deal is the market value value date. This is automatically calculated usin bond [(Price + Accrued) x Face Amount / 100] For
MOV,UPN	RepoDeals	Haircut	RepoSecuSched	Haircut	Specifies the haircut of the deal. By default, the the hedge ratio of the bond or equity has been (changed 1.7).
					Specifies whether coupon payments are used in the c