Cephei

Framework for Risk, Pricing and Rapid Structured Products

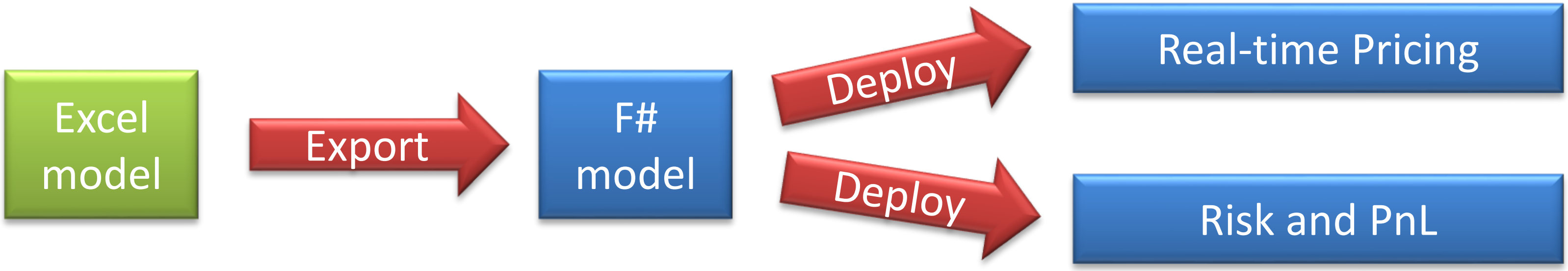
Cepheis

Introduction

- Vision
- Value proposition
- Target Market/Usage
- Architecture
- Offering

Vision

- Export financial model directly to code
  - Excel addin functions used like any other quant library to build model
  - Spreadsheet compiled to assembly/source
- Model deployed without change
  - For pricing
  - For Risk and P&L



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Value Proposition

- Faster Development
  - No recoding of Excel in procedural languages means faster cheaper change
  - Prototype models and explore profitability
- Better control
  - Model independent of Excel, can be locked on server
- Better Risk
  - Same model used for pricing/risk/capital

Target Market/Usage

- Structured Products
  - Custom product for each trade built in Excel using Cephei.XL Excel addin, but product saved as XML
- Rapid Development
  - No more translating Excel VBA to professional language -> F# code generated through addin
- System development
  - Cell<> framework replicates Excel flexibility, but calculated in parallel without Excel

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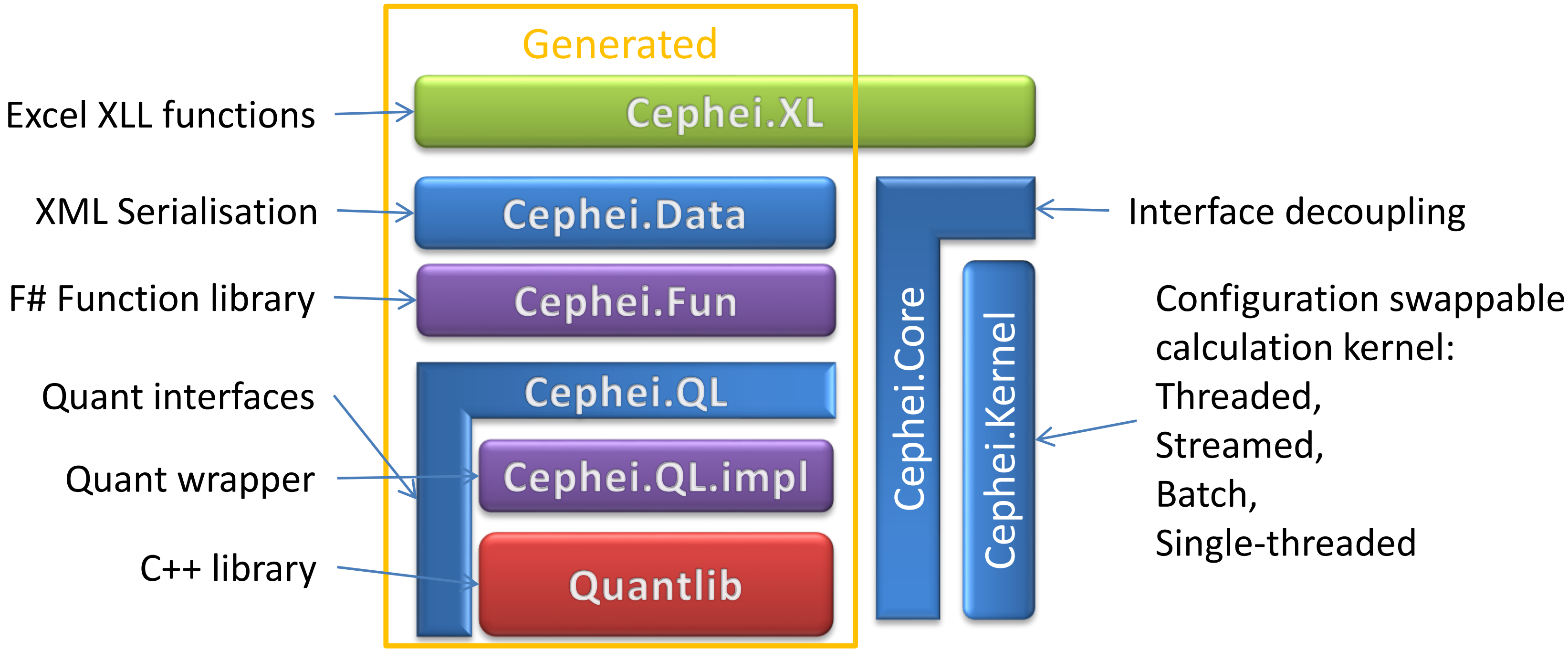
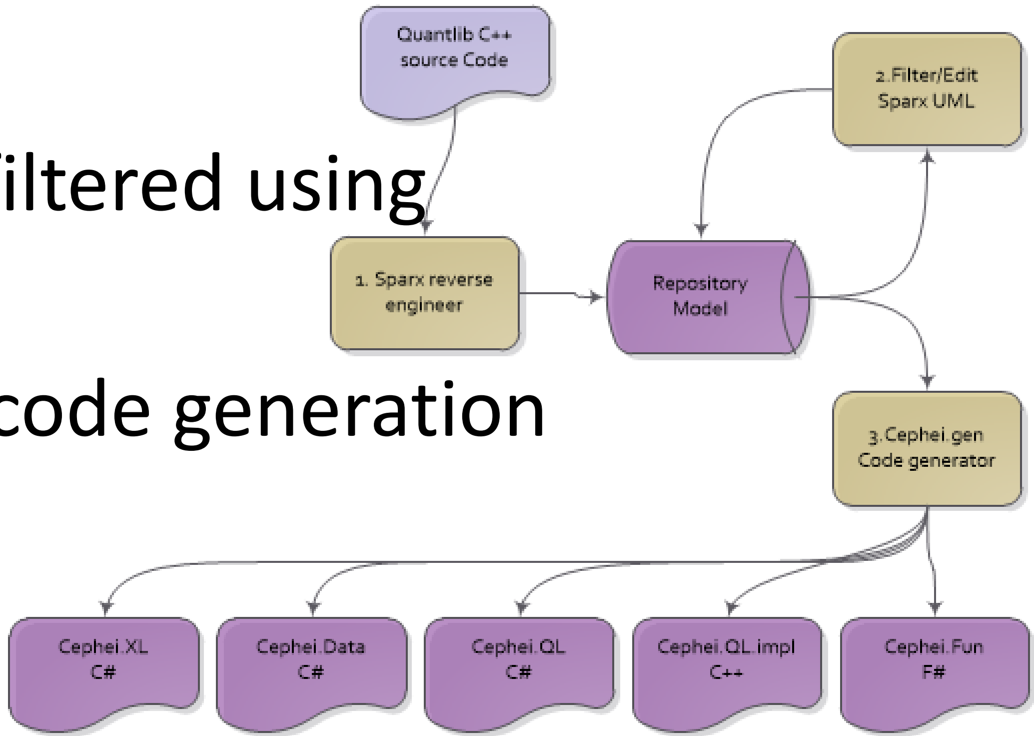
Architecture



Generation

1. Source-code is reverse engineered into UML repository
2. Internal classes filtered using Sparx EA tool
3. Comprehensive code generation of all layers



Cepheis

Offering

- Software Package
  - Cephei.XL Excel XLL addin with dependants
- Foundation Framework
  - Package plus tools for server application & integration
- Code generation for proprietary libraries
  - automated process from C++ library to F# & XLL
- Consulting / systems integration