Integrating with and extending JChem for Excel

Tamas Pelcz



When?

- You have an existing in-house Excel integrated application
- Custom corporate data source, web services
- You make an Excel integrated tool for different purposes, but also want structure integration
- You have various custom VBA macros, but need cheminformatics functionality

Why?

- You want the cool structure rendering in your application what JChem for Excel has
- You need other cheminformatics capabilities of JChem for Excel
- But you do not want to worry about these

Possibilities

- Customizable UI
- API
 - VBA
 - Built in macro language of Microsoft Office
 - COM Add-Ins
 - VSTO Add-Ins
 - External Applications interfacing with a running JChem for Excel
- Read write JChem for Excel specific workbooks without Excel
 - Binary: Apache POI
 - XML

Customizable Ul

- Change, customize, redefine using XML
 - JChem for Excel, menu and toolbar in Excel 2003
 - JChem for Excel Ribbon in Excel 2007
- We will provide many reusable actions
 - 2D Clean, 3D Clean, Add-Remove Explicit H
 - Put your favorite formulas on the UI
- Combine actions together
 - Convert to Image, Copy, Convert from Image
- Execute action with specific Option
 - Edit structure with xDraw

API

- AddStructuresToColumn
- GetStructuresFromColumn
- GetStructuresByFormula
- ImportFromFile
- More to come....

Demonstration

- **Custom UI**
- **VBA Sample**
- **External C# Application**