New Strategy to Engage Mobile Computing Users and Developers

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Eidogen’s Apps: More than 40K Downloads

Note: Reaction101, Yield101, and SPRESImobile - Built Collaboratively with Molecular Materials Informatics, Inc.
MobileApps Support Real Scientific Workflows

- Bioactivity searching (e.g. kinase SAR)
- Commercial availability
- Synthesis planning
Science Apps of Today

• Largely Vertical, Point Solutions

• Development Requires Sophisticated Knowledge of Mobile Computing Development Environments

• Development Often Requires Knowledge of Cloud Computing/LAMP environments

• Only Some Enable App Integration (e.g. client-side standard filetype sharing)
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Things are about to change....
Introducing PP Mobile / Accelrys Science-Cloud

**What is it?**
- An iOS application for iPhones and iPads (Android devices in the future)
- A new Pipeline Pilot component collection

**What does it do?**
- Allow any Pipeline Pilot PDF and HTML report to be easily deployed to mobile devices
- Allow authoring of new Pipeline Pilot protocols to deploy dashboards and mobile-centered tasks and actions on mobile devices

**Comments, Questions, and Requests to Participate in the testing program:**
- Ton van Daelen, Product Manager, Accelrys Science Cloud (tvd@accelrys.com)
Deploying Protocols on Mobile Devices

Build protocols and enable for mobile using Mobile Collection

Protocol Author

Deploy protocols using Mobile App

Dashboards
‘Real-Time Project Status’

Tasks
‘Query Corporate Compound Collection’

Mobile Actions
‘Capture and Analyze Image’

Share protocol or report with other mobile users

Managers
Scientists
Lab Workers
External Partners
“Mobilize” Sophisticated Pipeline Pilot Protocols
“Mobilize” Sophisticated Pipeline Pilot Protocols

<table>
<thead>
<tr>
<th>Library</th>
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<tr>
<td>Testing</td>
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Leverage Mobile Device Capabilities

- Camera, Audio, GPS, other Peripherals, etc.
Embed and Deploy

Embed powerful applications within Pipeline Pilot protocols and deploy to mobile users.
Utilize Dynamic Graphs and Charts
Submit Long-Running Protocols “On-the-Go”

The Pipeline Pilot Mobile App lets you review reports and run routine tasks, and share these with co-workers and external collaborators through the Accelrys Science Cloud.

- Find out about what improvements we made to the App and about new protocols people have posted.
- See a list of protocols you have run previously. You can pull the results again or rerun with different input values.
- Search the library on your Pipeline Pilot server for protocols to run on your mobile device.
- Configure the app.
Share Protocol Reports

Results can be shared between mobile devices, from desktop to mobile, and from mobile to desktop.
Embed links in websites which will launch and execute protocols through PP Mobile.
### Share molecule data

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<tr>
<th>Molecule</th>
<th>Name</th>
<th>cas</th>
<th>mzc</th>
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Engaging Mobile Users and Developers
Summary

• Many Mobile Opportunities Exist in our “Space”

• Until Now, Science Apps Have Been Largely Vertical, Point Solutions

• A New “Game Changing” Mobile Collection / Mobile App Will Greatly Broaden the Scope of Apps in our Space

• Comments, Questions, and Requests to Participate in the Testing Program:

  ‣ Contact Ton van Daele, Product Manager, Accelrys Science Cloud (tvd@accelrys.com)
Acknowledgements

- Accelrys
  - Matt Hahn
  - Dave Rogers
  - Jung Ku
  - Ton van Daelen

- InfoChem
  - Peter Löw
  - Josef Eiblmaier
  - Valentina Eigner-Pito

- Maurizio Bronzetti
- Alex Clark
SPRESImobile - Update: Reaction Name Searching

SPRESImobile: 410,000 Chemical Reactions Freely Available