How we develop and distribute applications in MATLAB

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Challenges

• Data-availability and analysis is core to understanding in R&D

• Difficulties in finding solutions
  • Time consumption  (== $)
  • Systematization    (Clear and structured code)
  • Maintenance       (Comments, updating)
Examples

• One Java program with 4000 lines of code in one function
• Very complex graphical programming
Solution

- Business idea: develop & distribute software application for R&D
- Examples: sensor acquisition, image analysis, AI, statistics
- Academia & Industry
Business areas

Products & Services
- Software applications
- Licensing

Consulting
- Tailor-made applications
- Drives project to Products & Services and Joint Ventures

Joint Ventures
- Co-development with scientists and engineers
- Forms new companies
Applications framework

Installer
- OS specific
- Installs the Booter (only)

Booter
- Java (executable)
- Stardots CLOUD
- Auto updates
- Licensing
- Executable download
- MCR installs
- Dynamic splash

Main Application
- MATLAB compiled application
- Interfaces
- Computing
- Visualization
- Databases
- Console
- Logs
- Exception handling
Why MATLAB?

• Stardots main application language
• Field-tested analytics
• Superior visualizations
• Strong programming language
• Speed of development
• Cross platform
• MATLAB compiler + MATLAB Runtime
MATLAB application

Intuitive UI controls

Real-time visualizations

Advanced analytics
Big Data databases
Evolved Horizon™

- Sensor and actuator acquire, storage and analysis
- Flexible, Robust and Powerful
- Arduino
- Analytics & export
- Patent pending approach (PCT)
Closing remarks

• Large interest and need from R&D

• Harness the power & speed in MATLAB

• We are open for new projects and ideas