What is Rifidi?

- Rifidi is a complete RFID Application Platform
  - Leading set of Prototype and Testing Tools
  - Open Source RFID Middleware Platform
  - ALE and Workflow development tools
  - Based on Eclipse and OSGI w/ Lightweight Emphasis
  - Open Source Ideals – Business Ready Purpose

- Rifidi is an open source RFID community
  - Numerous Contributors – UofA, PennState, IBM, FossTrak
  - Corporate and University Usage – PennState, IBM, HP
  - Over 20,000 downloads strong, Active Forums
  - Developer Contributions to LLRP-TK and other RFID toolkits
Rifidi Toolkit

“Software Defined RFID”

• The premier Prototyping Suite in RFID today
  – Designer – Create Visual Workflows to simulate RFID Processes
  – Emulator – Develop and Test with Software Defined Readers
  – Tag Streamer – Load Test and simulate large RFID data streams
Rifidi Edge Server

• Cutting edge RFID Middleware Platform
  – Lightweight, High Performance Platform based on OSGI and Java
  – Built with module update and hot deploy features
  – RFID customization of high performance CEP/ESP Engine (Esper)
  – Standards compliant ALE Engine built on top of Esper and FossTrak TDT
  – Combine ALE and CEP modules to create dynamic RFID applications

• Supported by Development & Monitoring Tools (Future)
  – Close integration to our Prototyping Suite
  – Eclipse Based tools to develop RFID Workflows
  – Eclipse and Web Based Monitoring tools for Production Operations
  – Sophisticated Alerts and Alerts definition toolkit
Edge Architecture

ERP/Back-End Systems

OSGi Based / Plug Ins

Communication Layer

Application Engine Layer

Sensor Abstraction Layer

RFID

Reader API

Alien

LLRP

other

CEP Rules Engine

ALE

JMS

WS
Rifidi Workbench

• Development Platform for ALE and RFID
  – Eclipse Based UI Centric Development
  – Graphical Support for Building ALE
  – Build Sensor Plug-ins and customize RFID data collection
  – Workflow tools for custom RFID application
  – Future support for other ALE Engines
Conclusion

- Open Source – Business Ready
- Go beyond ALE – Middleware Platform
- Product Agnostic Development
- Ease of Use and Low Barrier to Entry
- Come visit booth 1322 for more information