

RFID: Addressing, Event Management and Network Services

Introduction

Apologies from Sastry Duri

sastry@us.ibm.com

Apologies from me

George Roussos
Birkbeck College
University of London

g.roussos@bbk.ac.uk

Why RFID now

- Passive RFID chips
 - no need for battery
 - low cost
 - potentially very low cost (less than 5c)
- But: functionality is limited and offloaded on the network
- Major supply chain initiatives
 - EPCglobal within SG1
 - vendor push: Wal-Mart, Metro, Tesco, various Japanese
- Other applications becoming commonplace
 - e-passport ICAO regulations

This tutorial

- What does it take to build an **open networked** RFID system of global reach?
- Auto-identifiable objects as part of the net
 - deeply embedded
 - highly mobile
 - version 0.1beta of ubicomp?
- What technology is available, what needs to be built or improved
- Some implications of use

Overview

- 8.30-9.30 Introduction and applications
- 9.30-9.45 Break
- 9.45-10.45 RFID Basics
- 10.45-11.00 Break
- 11.00-12.00 Addressing
- 12.00-13.30 Lunch
- 13.30-14.30 Middleware (event processing)
- 14.30-14.45 Break
- 14.45-15.45 Network services
- 15.45-16.00 Break
- 16.00-17.00 Security and privacy
- 17.00-17.00 Discussion and wrap-up