

Taking RFID to the Next Level

An Overview of Class 3 Sensors

Intelligent & Active Packaging Technology from
Information Mediary Corporation
www.informationmediary.com

- Current RFID technology addresses the concepts of track & trace:
What is it? Where is it?
- **More importantly: *What's happening to it?***
- Opportunities exist to collect & utilize smart sensor data in
 - medication compliance
 - temperature & cold chain logistics
 - anti-tamper and product diversion/counterfeit
- IAP™ enables smart packaging solutions beyond simple ID

Step 1: ECM Tag (Electronic Content Monitor)

- Flexible printed circuit board with 13.56 Mhz RFID and sensor inputs
- Disposable, programmable, adaptable, low-cost single-chip design
- Able to connect a number of different input sensors (e.g. temperature)
- Monitors printed electronic traces and resistor arrays
- Does not emit RF interference
- Works with CertiScan 13.56Mhz RFID system

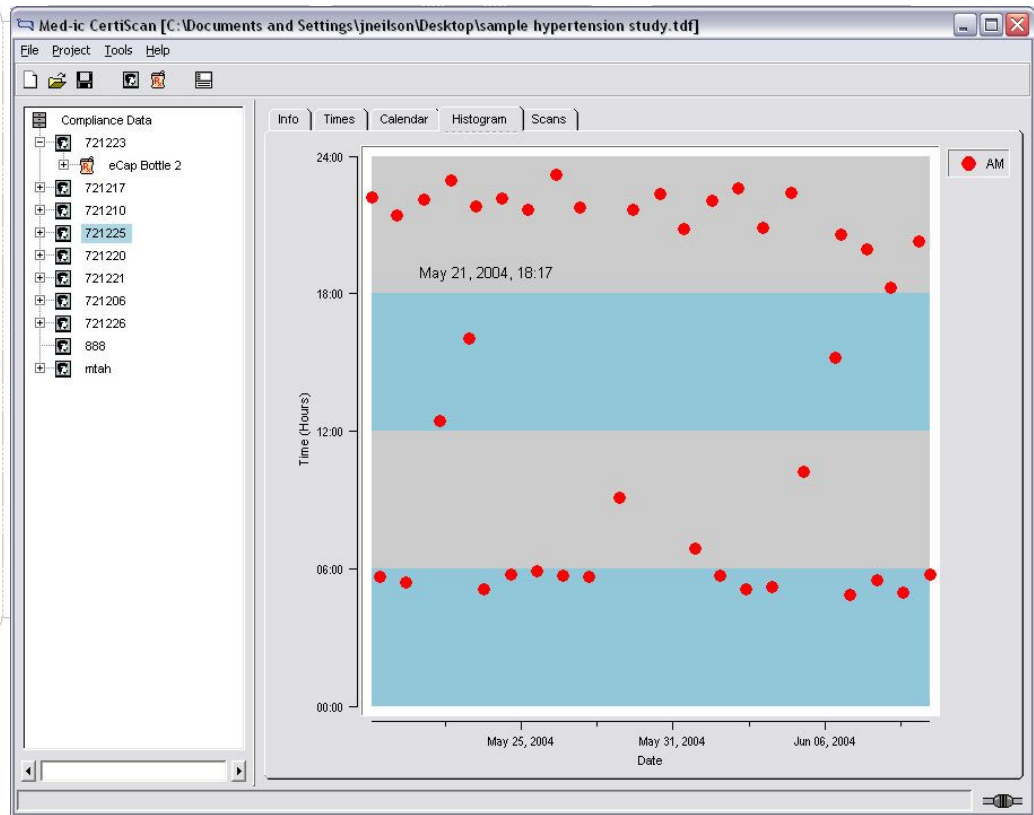
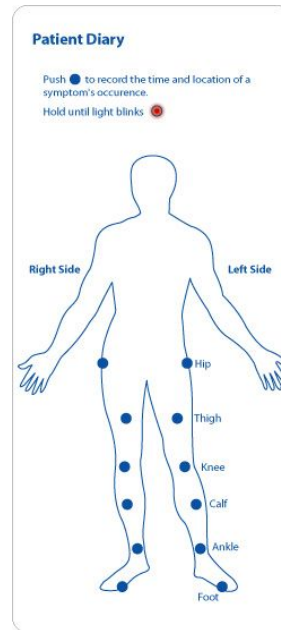


Step 2: CertiScan™ Data Retrieval Tool



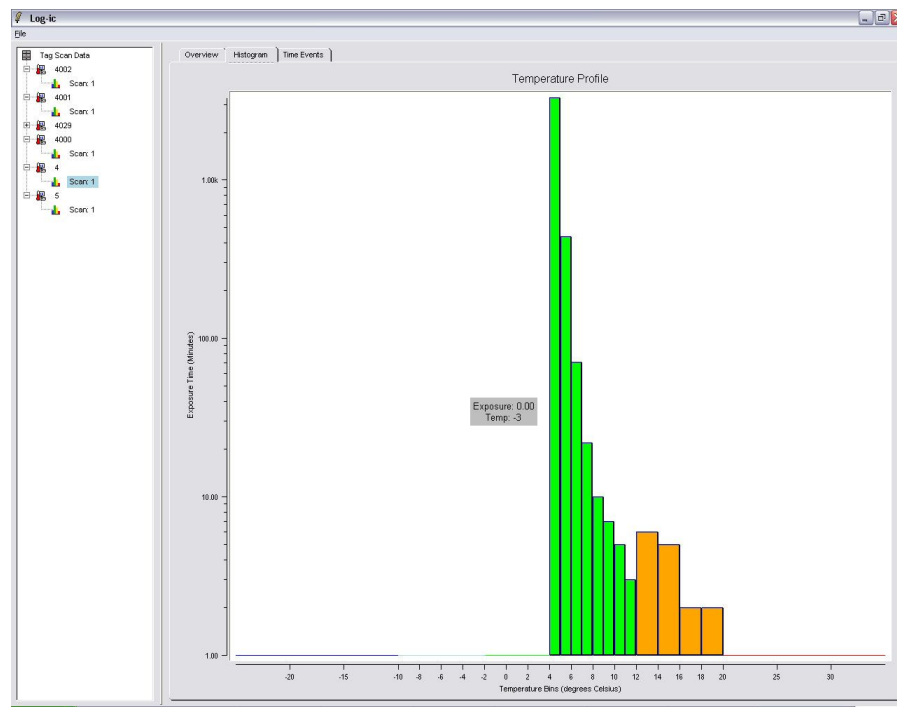
- 13.56 Mhz RFID system capable of retrieving large amounts of data at high speed.
- 2 way communication allows programming of sensors with dynamic measurement and monitoring points.
- Custom front-end GUI using CertiScan API tools.
- Works with all IAP™ compliant designs.

Med-ic® Electronic Compliance Monitor



Med-ic® and eCAP™ record when a patient removes a dose from a blister package or bottle and record patient feedback to the disposable Med-ic® Electronic Patient Diary.

Log-ic™ Cold Chain Temperature Monitor

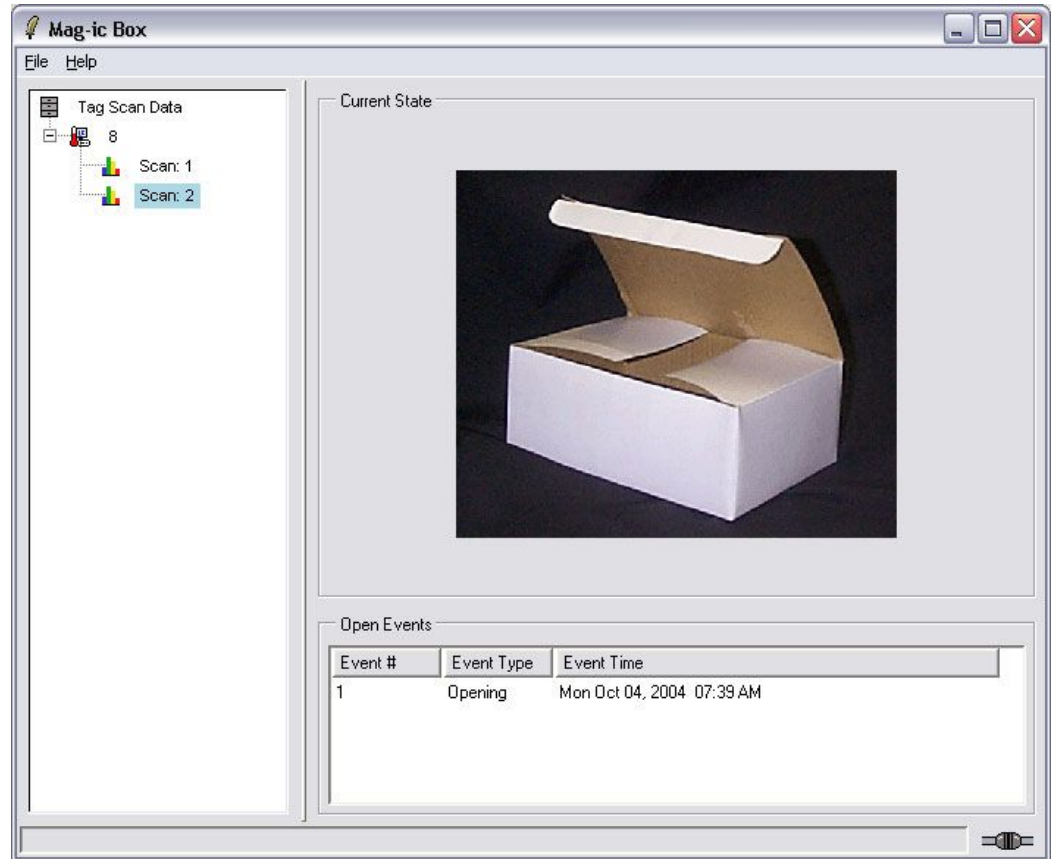


Log-ic™ tags monitor environmental conditions and warn of dangerous excursions.

Mag-icBox™ Anti-Tamper Packaging Monitor



Actual Sensor sample printed with XINK ink.



Conductive ink sensors change properties, e.g. when the hinge of a box is opened and closed

XINK UHF Printed Antenna Technology

- Silver ink derived from IAP™ implementations as “paper wire” and sensors has made the transition to low-cost printed UHF antenna drastically reducing the cost per tag.
- Produce antennas on industrial printing presses.
- Printed antennas manufactured at over 150ft/min.
- Easy switch for label converters.
- Requires no curing.
- Low Ag consumption



XINK printed antennas achieve read ranges equal to or exceeding standard tag benchmarks

IMC's Growing Family of Intelligent Active Packaging Technologies

