

EPIC

Intelligence Within

"From the errors of others,
a wise man corrects his own."

Publilius Syrus (85 -43 BC)

RFID ARCHITECTURAL FLAWS



- ✦ **No** tag corruption detection
→ **Corruption straight to customer**
- ✦ **No** tag error correction
→ **Single error = failure**
- ✦ **No** transmission error correction
→ **Poor RFID system performance**

EPIC



✦ Integration of advanced forward error correction with RFID

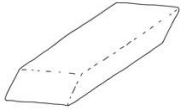
- 4 PhD, 6 engineer effort
- 2-year development program

✦ Multiple patents pending

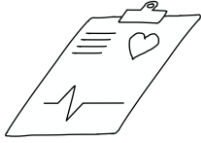
✦ Radical transformation of RFID

- Tag reliability – data corruption is **detected and repaired**
- Dramatic (**5x**) increase in tag lifetime
- **Guaranteed** data integrity
- **~6 dB increase** in reader return sensitivity

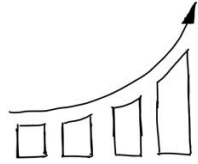
BENEFITS



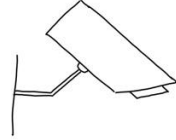
Error Correction



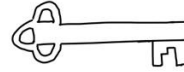
Health



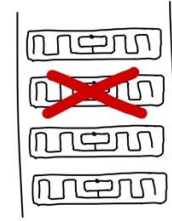
Performance



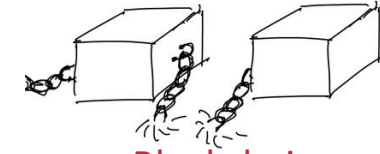
Privacy



Security



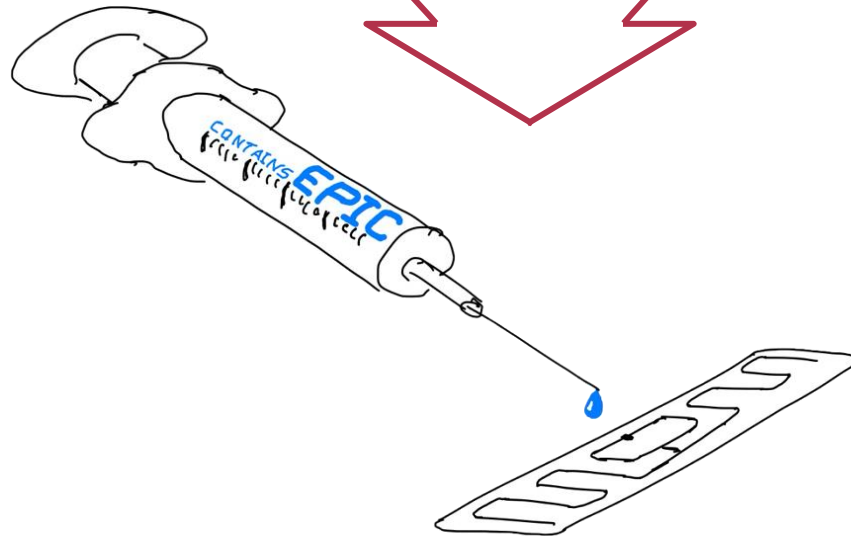
Yield



Blockchain



Authentication



EPIC
Protect

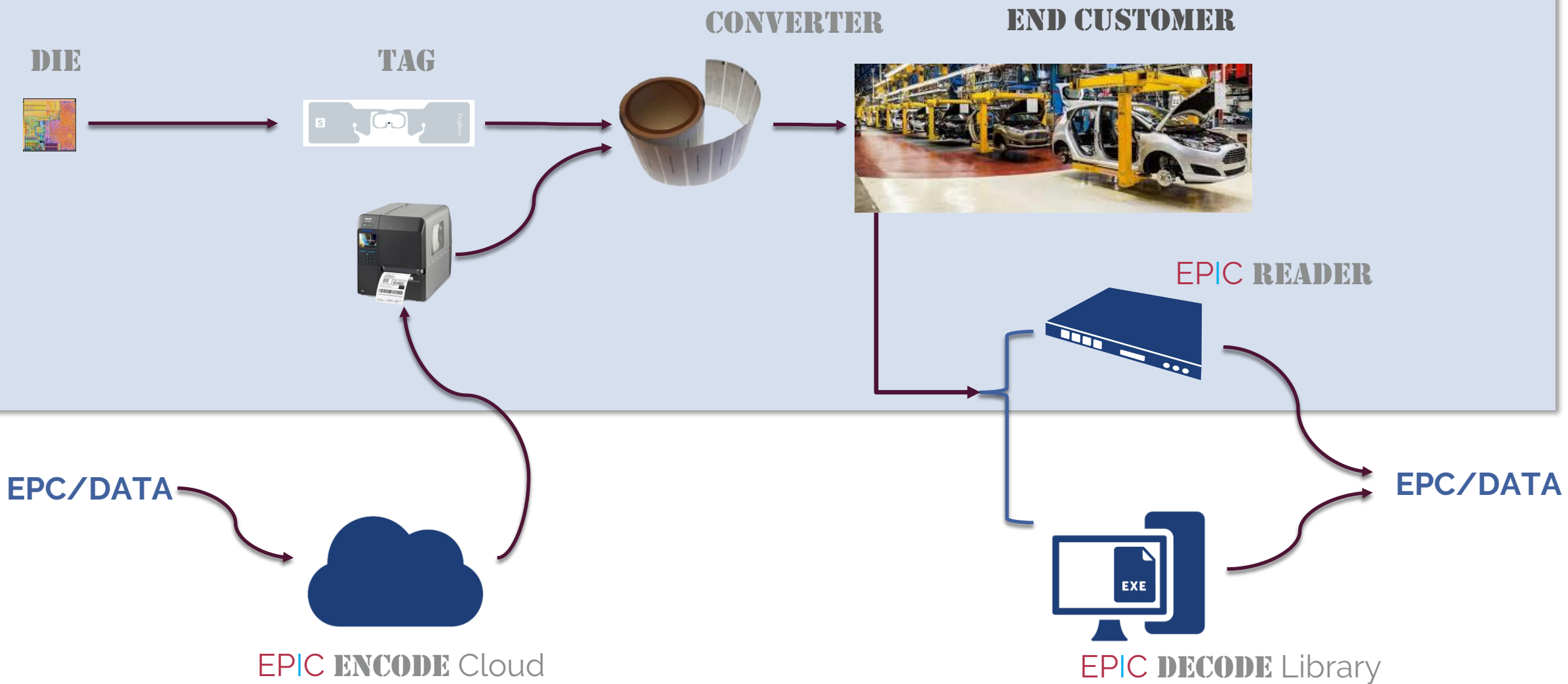
✦ EPIC Tag

- **5x** lifetime of standard tag
- **Guaranteed** data integrity
- Corrects up to **15 tag errors**
- Security enhanced

✦ EPIC Reader

- **→ 6dB ←** increase in sensitivity
- Preserves **ALL** tag benefits
- Mixed EPIC/Legacy environments
- **No decrease** in reader speed

ZERO CHANGES to Infrastructure or Processes



- ❖ **Multiple Patents Filed**

- ❖ **Guaranteed data**

- ❖ **Tag health monitoring**

- ❖ **Advanced features**

- Authentication

- Privacy

- Full Blockchain support

- Enables Encryption

EPIC
Intelligence Within



✦ Unparalleled supply chain

- ODM for Fortune 500
- Environmental testing
- Broad certifications

✦ Hardware

- Mil-Spec and Telecom Testing
- 100% out-going test
- Continual surveillance testing

✦ Software

- Source control (BitBucket)
- Bug tracking (Jira)
- Peer code review
- Automated regression testing

