

# ANTI-PIRACY: A Partnership Story

*Prevent counterfeiting by giving each product a unique, dynamic identity*

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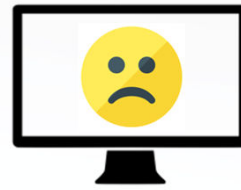
# Counterfeiting is a pervasive and growing problem .... driving the need for serialization



ICC estimates  
global  
counterfeiting  
could reach  
**us\$2.3  
Trillion**  
by 2022<sup>1</sup>.



Homeland Security  
reported a total of  
**US\$1.38  
Billion**  
(MSRP) in  
**Intellectual Property  
related seizures** in  
2016.<sup>2</sup>



**1 in 4**  
US consumers  
have been  
deceived into  
**purchasing  
counterfeit items  
online.**<sup>3</sup>



**1 in 3**  
Pharma companies  
are **not ready** for  
the **serialization  
requirements**  
stated in the FDA's  
Drug Supply Chain  
Security Act.<sup>4,5</sup>



America's food  
industry has a  
**\$55.5B**  
**safety problem**<sup>6</sup>.



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# Multi-faceted strategy for brand protection



Multiple technologies



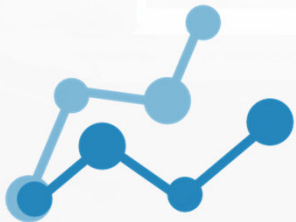
The “scare” factor



Forensic authentication



Rules-based system & analytics



End-to-end solution



Keep adapting



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# Link from HP -- Protect and track your product

A platform and set of tools to provide every unit its own identity and then protect it, track it, and enable engaging experiences from it.

**Assign a unique & deterministic identity**  
to each pack/product

**Connect all marks & metadata**  
e.g. product & tracking specific info

**Track & authenticate through digital experiences**

**Capture behavior data, analytics & insights**  
to improve your business



**ALL WITH 1 SINGLE DIGITAL MARK -- hidden or visible**

## 1 BRAND PROTECTION

Authentication  
Anti-counterfeit  
Product diversion

## 2 TRACK & TRACE

Supply Chain Efficiency  
Shrinkage/Product Loss  
Print Production Control

## 3 CONSUMER ENGAGEMENT

Brand promotion  
Acquisition & Retention  
Behavior tracking



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# Examples of marks supported by Link



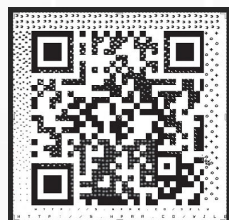
QR



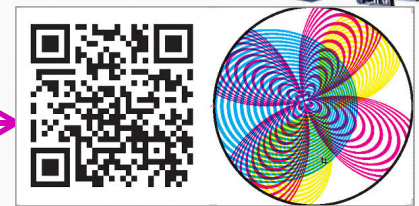
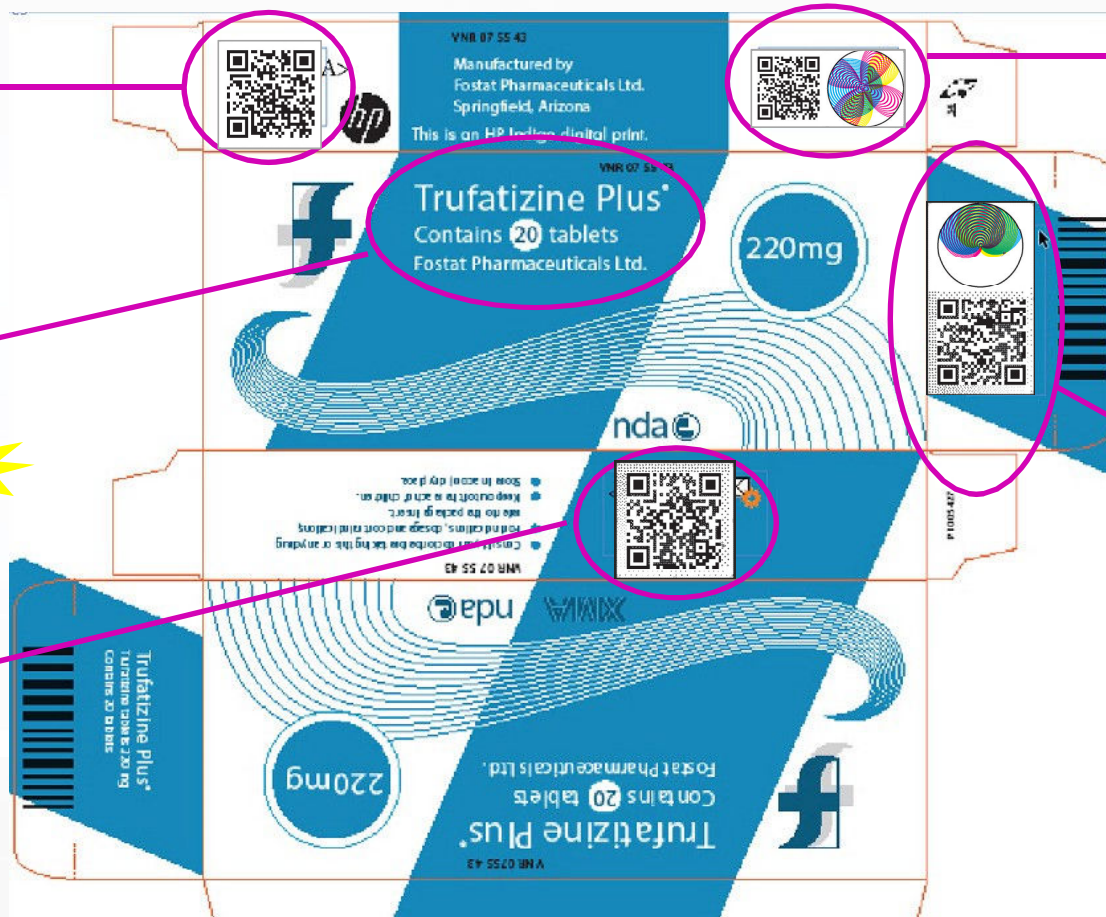
Watermark



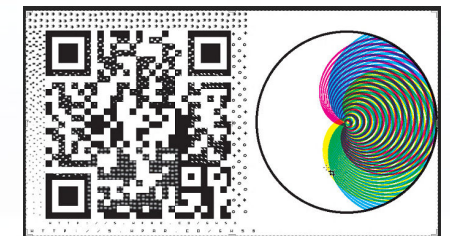
NEW!  
SGTIN



Secure QR



QR + Guilloche



Secure QR + Guilloche



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# Saving HP millions through fraud identification

Millions saved thanks to mobile authentication identification and Link Secure QR codes

## Product Authentication

- A unique secure QR code on the holographic labels
  - HP real time analytics of authentication for Brand Security Team
  - Enables pre-purchase marketing opportunities via smartphone.
- ✓ **On laser & inkjet supplies**
  - ✓ **1.5B authentication codes**
  - ✓ **Several million dollars saved**

People authenticating through Link Reader Mobile app:

- Law enforcement, customs, and auditors
- Channel partners
- Government contract bid requirements
- Consumers



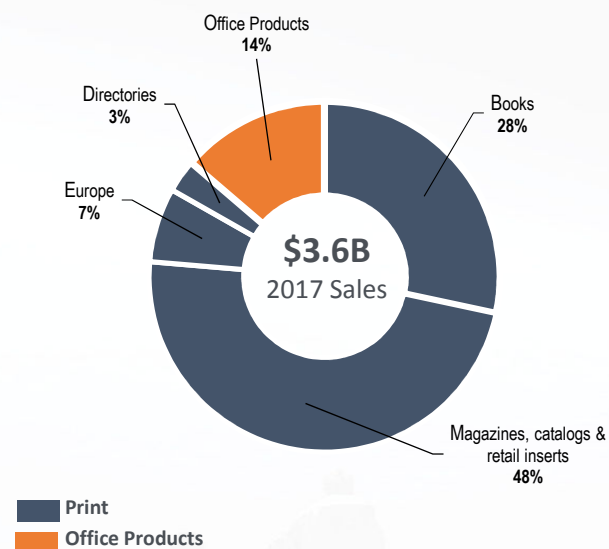
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# LSC Communications: A Global Leader

## LSC AT A GLANCE

- + Global leader in traditional and digital print, print-related services and office products
- + Serves the needs of publishers, merchandisers and retailers
- + Service offering includes logistics, warehousing, fulfillment, supply chain management and e-services
- + Serves over 3,000 clients

## EXTENSIVE PRODUCTS & SERVICE CAPABILITIES



## GLOBAL PLATFORM WITH SIGNIFICANT SCALE



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“

**IN THE BOOK PUBLISHING INDUSTRY, TEXTBOOK PIRACY HAS LONG BEEN A PROBLEM FOR THE INDUSTRY AND IS AN INCREASING CONCERN FOR ALL PUBLISHERS. LSC IS INVESTING IN INNOVATIVE TECHNOLOGIES TO HELP PROTECT OUR CLIENTS' EXCLUSIVE INTELLECTUAL PROPERTY AND TO STEM THE TIDE OF PIRACY.**”

- Tom Quinlan, Chairman and CEO of LSC  
Communications: Q4 2016 Earnings Call





# Piracy Problems in Book Publishing

- Counterfeiting of legitimate product is easier than ever
- There are many avenues to market counterfeit product
- Consumers aren't concerned about product authenticity
- Lack of aggregated data and insights to identify Piracy Hot Spots

*Book piracy .....is costing publishers worldwide billions of dollars annually.*

Source: <https://www.internationalpublishers.org/policy-issues/piracy>



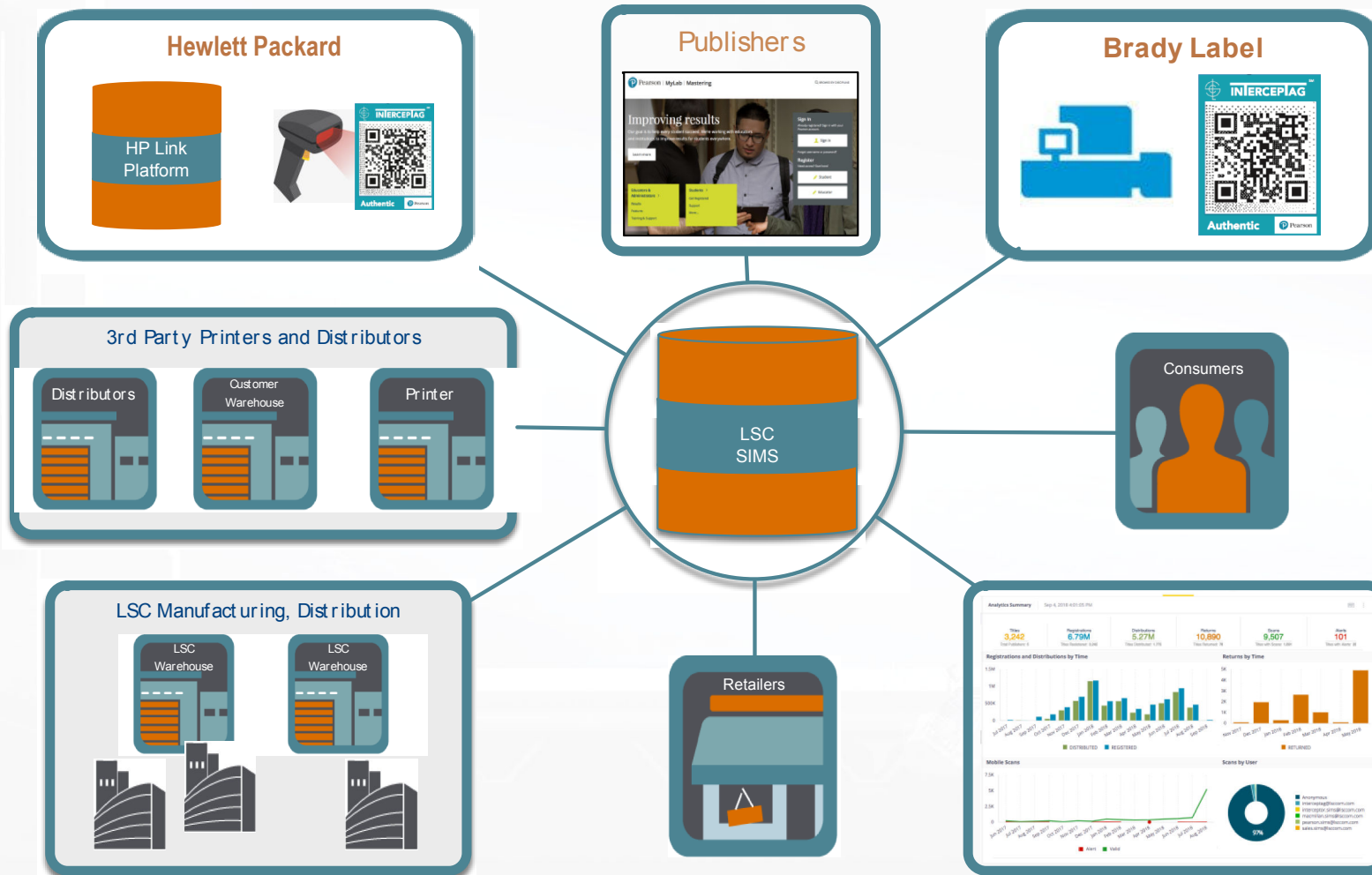
# The evolution of IntercepTag

- **2015** – Customer look to LSC for a solution to counterfeit books
- **2016** - LSC and CXL explore anti-piracy options – White Paper
- **2017** - LSC partners with HP and Brady to leverage HP Link technology
- **2017** - LSC develops SIMS – Secure Identity Management System
- **June 2017** – LSC goes live with IntercepTag Production & Technology Platform.
- **2018** – Pearson, Macmillan, McGraw Hill, Norton, Dover commit to 20M units



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# IntercepTag Ecosystem



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LSC COMMUNICATIONS

# LSC IntercepTag Platform

## ANTI PIRACY

Good Book / Bad Book  
Data-driven insights

## TRACK & TRACE

Units,  
Cartons,  
Palettes

## CHANNEL MANAGEMENT

Terms of sale,  
Distribution,  
Returns



## VIRAL SOCIAL REFERRAL

Leverage the enthusiasm of  
your readers

## KNOW YOUR CUSTOMER

Detect, analyze and predict  
trends in content consumption

## OTHER USES OF CODES

Rentals  
Access Codes



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LSC COMMUNICATIONS

# IntercepTag: Forensic-based features identify “first fake”



LSC COMMUNICATIONS

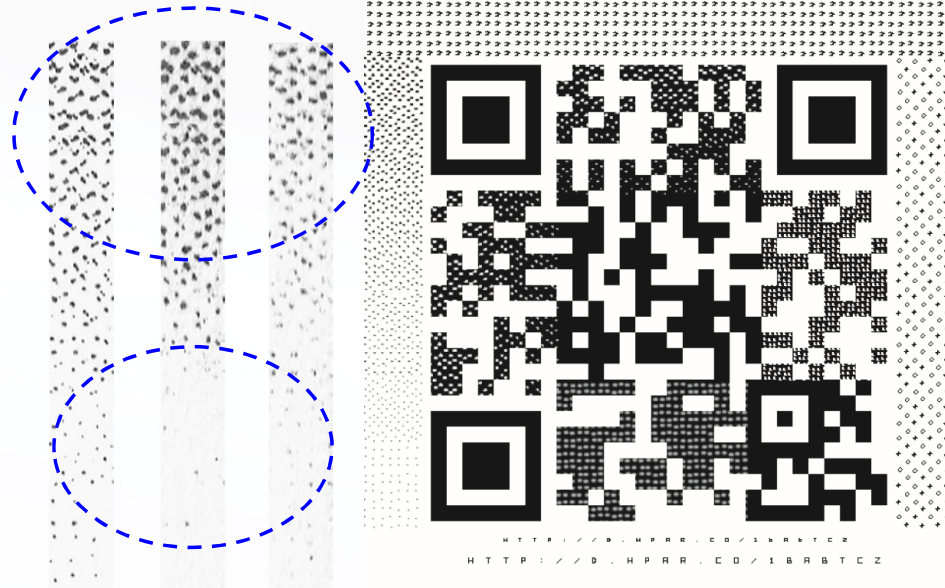


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# IntercepTag – HP Link SQR Scan

cluster shapes heavier,  
smeared

dots lighter and/or  
absent



original B&W color  
copy copy

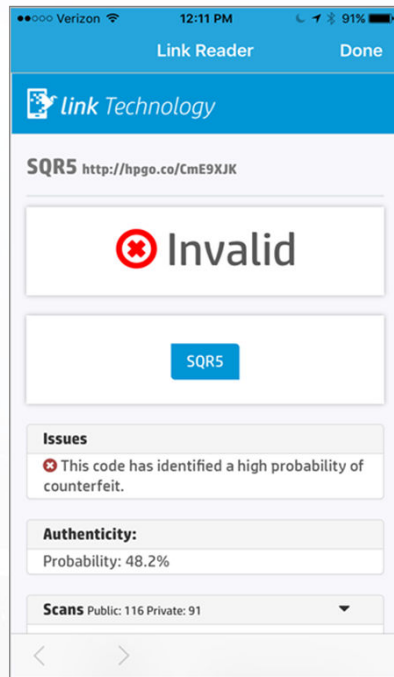
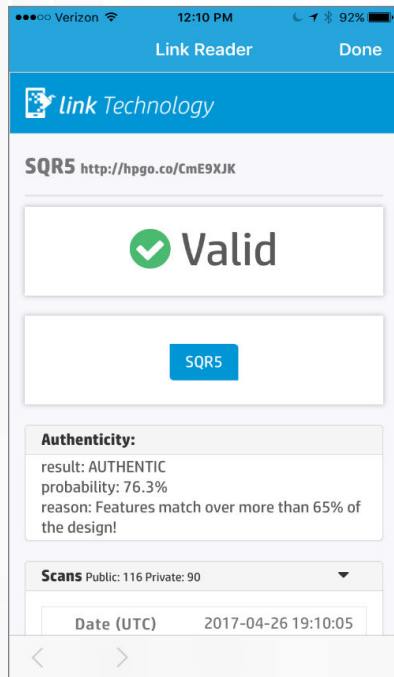
Authentication – detection with Link App



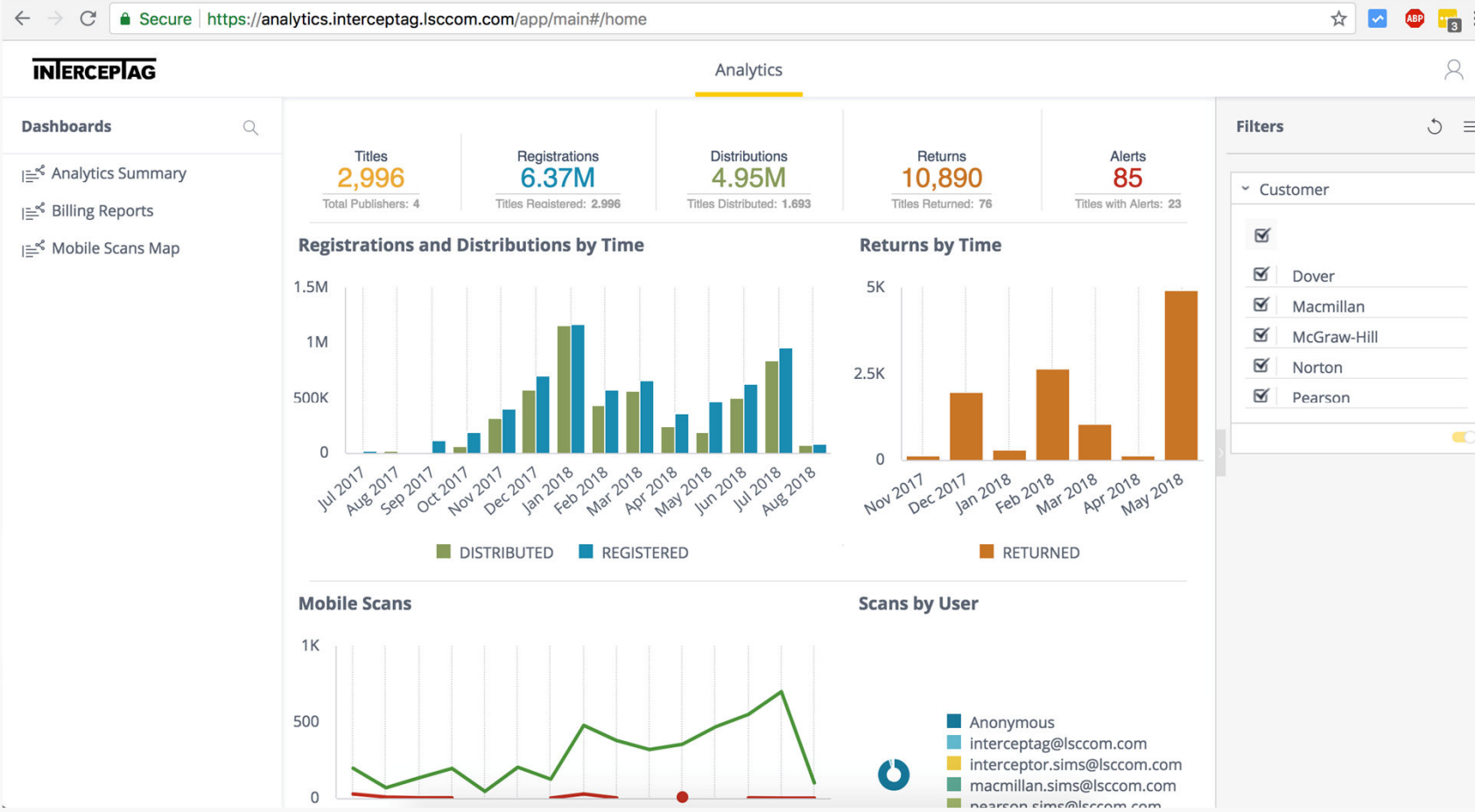
# Scan Validation – Authentic or Counterfeit

Mobile Application (iOS or Android)

Desktop Application with High-definition Scanner



# Analytics



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*Brady Corporation....*

*A valued LSC Partner*



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# Why LSC Chose Brady

- **Extensive Experience Working with Large Volume Clients**
  - Great working relationship with HP since 2009
  - Many additional Fortune 100 Clients
- **Experience in Large Volume Variable Text Printing with Indigo**
  - Ability to understand and design effective processes to manage large volumes of variable text to meet LSC's needs
- **System Integration and Data Management**
  - Ability to download and store large volumes of Link serial codes
  - Ability to manage the data effectively without duplication
- **Fast Turnaround of Large Scale Program**
  - 4 week turnaround from first contact



# Why LSC Chose Brady

- **Direct Access to Design Engineer**
  - Worked closely with design engineer to discuss layers of security features
  - Quick proof signoff process
  - Short lead time
  - Cost competitive solution
- **Certified as a Best Practice Security Provider**
  - Certified by NASPO International (ANSI / NASPO standard)
    - Milwaukee, WI USA since 2004
    - Chain of Custody Documentation
- **Financial Stability**
  - 104-year-old company with F'17 sales of US\$1.1 billion



people

## Brady Corporation

We create solutions that identify and protect people, products and places – helping businesses be safe, secure and productive.

- Founded in 1914
- Headquartered in Milwaukee, WI, USA
- F17 revenue of \$1.1 billion
- 6,400 employees worldwide
- 31 manufacturing facilities
- Doing business with 89% of the Fortune 100 companies

products

places



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# Thank You!

Find Link in the HP Security Solutions booth  
to learn more.



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[www.linkcreationstudio.com](http://www.linkcreationstudio.com)



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# Questions?



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