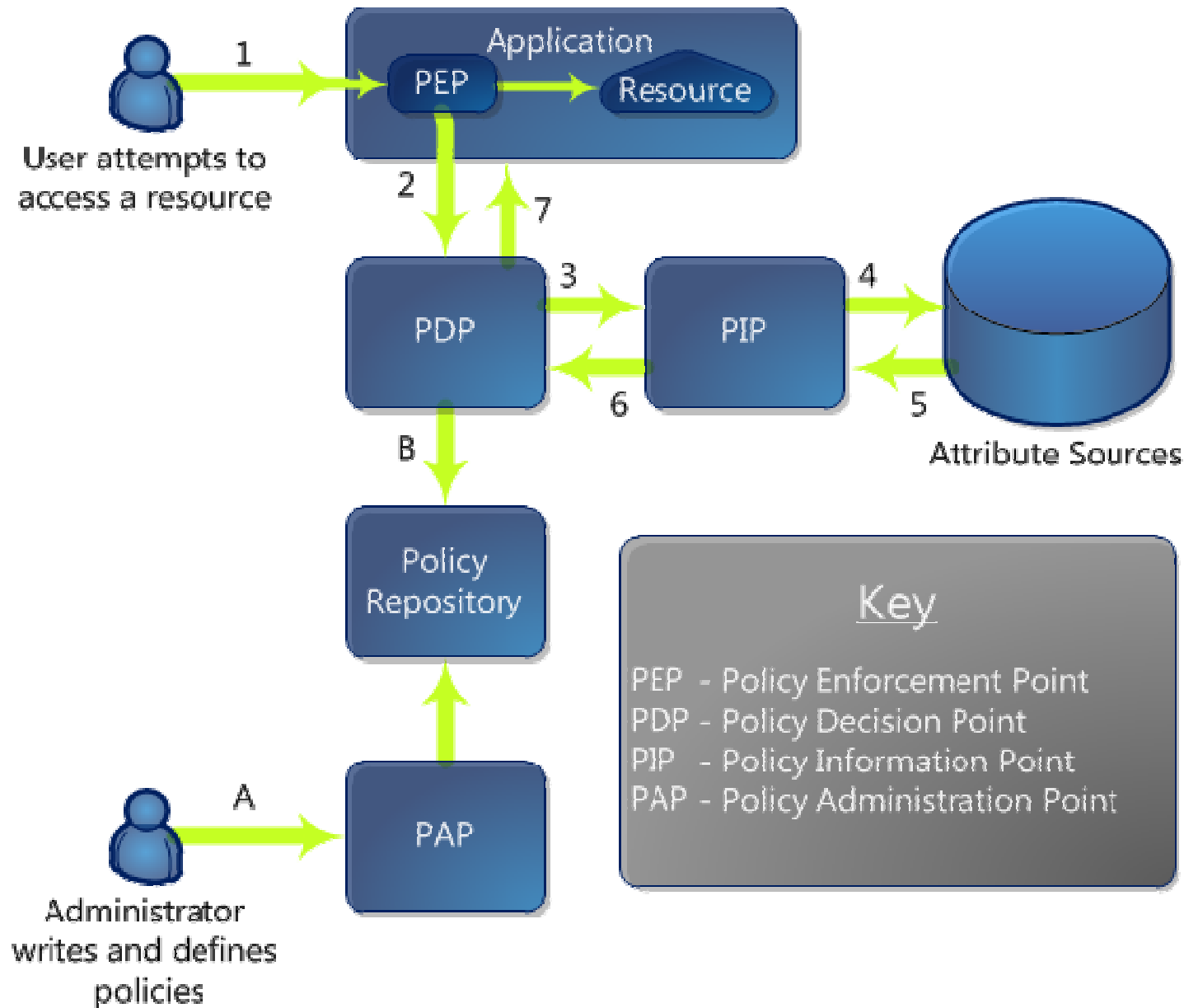## No. 1 security concern of large companies is…
## THE INSIDER THREAT (IDC)

- **86%** of the insiders held technical positions (CERT)
- **90%** of them were granted system administrators or privileged system access when hired (CERT)
- **64%** used remote access (CERT)
- **50%** of those people were no longer supposed to have this privileged access (Source: Carnegie Mellon, DOD)
- **92%** of all the insiders attacked following a negative work-related event like termination, dispute, etc. (CERT)

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# Does Entitlement Management Mitigate Insider Threat?



User attempts to access a resource

**Application**

PEP → Resource

1

2

7

3 PDP → PIP 4

6 5

B

Attribute Sources

Policy Repository

A

Administrator writes and defines policies

PAP

**Key**

PEP – Policy Enforcement Point
PDP – Policy Decision Point
PIP – Policy Information Point
PAP – Policy Administration Point
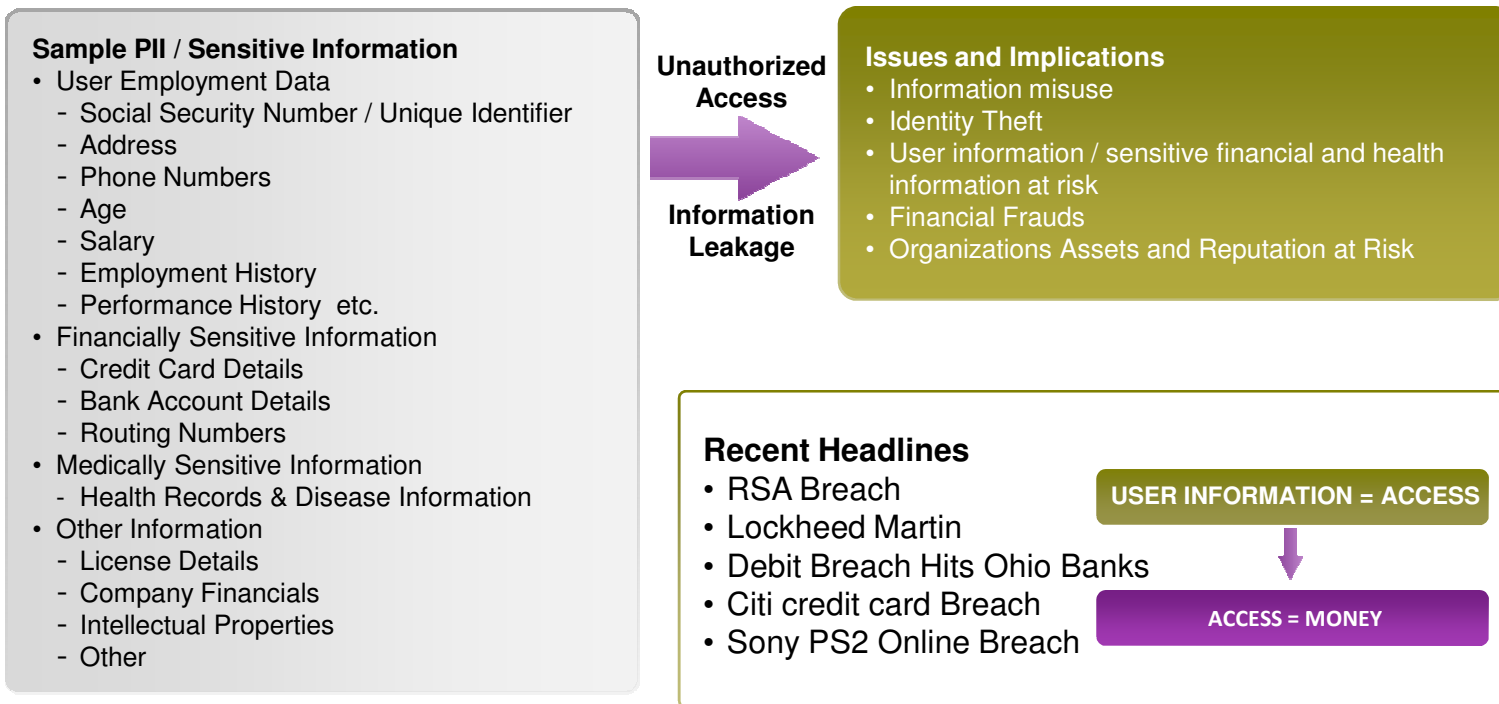
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# Why worry about Internal data access?

- We have a robust access control system. Should data loss be on our minds?

- We have set up a fine-grained entitlement system to ensure access to information is controlled at a granular level. We surely don't need data-level protection

- What options for data protection are available?

- Yes, Access Control systems only control which applications users have access to, not what data they can access.

- FG Entitlements provide protection based on user roles and group memberships. It does not obscure data that may be unnecessary for the user to see, but sensitive to the process or individual

- At a high level deciding between data encryption and masking is important. Encryption may be expensive and render the data useless, and masking has many techniques:
  - Non-deterministic randomization
  - Blurring
  - Nulling
  - Repeatable masking
  - Substitution
  - Specialized rules
  - Tokenization

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# Need for Data Security

**Business Problem:** Organizations need to improve Business Agility by Enabling Applications and Information access using web, mobile and cloud technologies while ensuring Sensitive Information in secured and protected while at rest, in motion and during transactions.

## Personally Identifiable Information and Sensitive Data

**Sample PII / Sensitive Information**
- User Employment Data
  - Social Security Number / Unique Identifier
  - Address
  - Phone Numbers
  - Age
  - Salary
  - Employment History
  - Performance History  etc.
- Financially Sensitive Information
  - Credit Card Details
  - Bank Account Details
  - Routing Numbers
- Medically Sensitive Information
  - Health Records & Disease Information
- Other Information
  - License Details
  - Company Financials
  - Intellectual Properties
  - Other

**Unauthorized Access**

**Information Leakage**

**Issues and Implications**
- Information misuse
- Identity Theft
- User information / sensitive financial and health information at risk
- Financial Frauds
- Organizations Assets and Reputation at Risk

**Recent Headlines**
- RSA Breach
- Lockheed Martin
- Debit Breach Hits Ohio Banks
- Citi credit card Breach
- Sony PS2 Online Breach

**USER INFORMATION = ACCESS**

**ACCESS = MONEY**

**"Any data loss puts a financial organization at risk of financial losses, regulatory non-compliance, lawsuits, reputational risk and overall business damage"**

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# Data Lifecycle

# MphasiS – An Overview

## Our Clients
We represent over 200 of the Global 1000

### Leading Best-Shore Organization

- Over $1BB in revenue (FY 2010)
- Headquarters in Bangalore, India
- Clients across the globe in multiple industry sectors
- A part of the Hewlett-Packard ecosystem (~60% owned by HP)

### Global Delivery

- Balanced delivery through local (onshore), regional (near-shore), and remote (far-shore) facilities
- Over 40,000 professionals

### Matrix Services Model

- Applications, Infrastructure, Business Process
- Dedicated industry-centric business units
- Multiple solutions and services
- Technology agnostic

### Recent Accolades

- 7th among the top 20 IT exporters (NASSCOM)
- 18th among the top 20 BPO companies (Dataquest)
- 23rd in "The world's best performing tech companies of 2009" (Bloomberg Business week)
- 68th in India's 500 Most Valuable Companies-Private Sector (Business Today)

Balanced Global Delivery

Account Dedicated Experts, On-Site

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# Thank you

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