Hewlett Packard Data Retention Solution for the ISS Market

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HP DRAGON General Manager
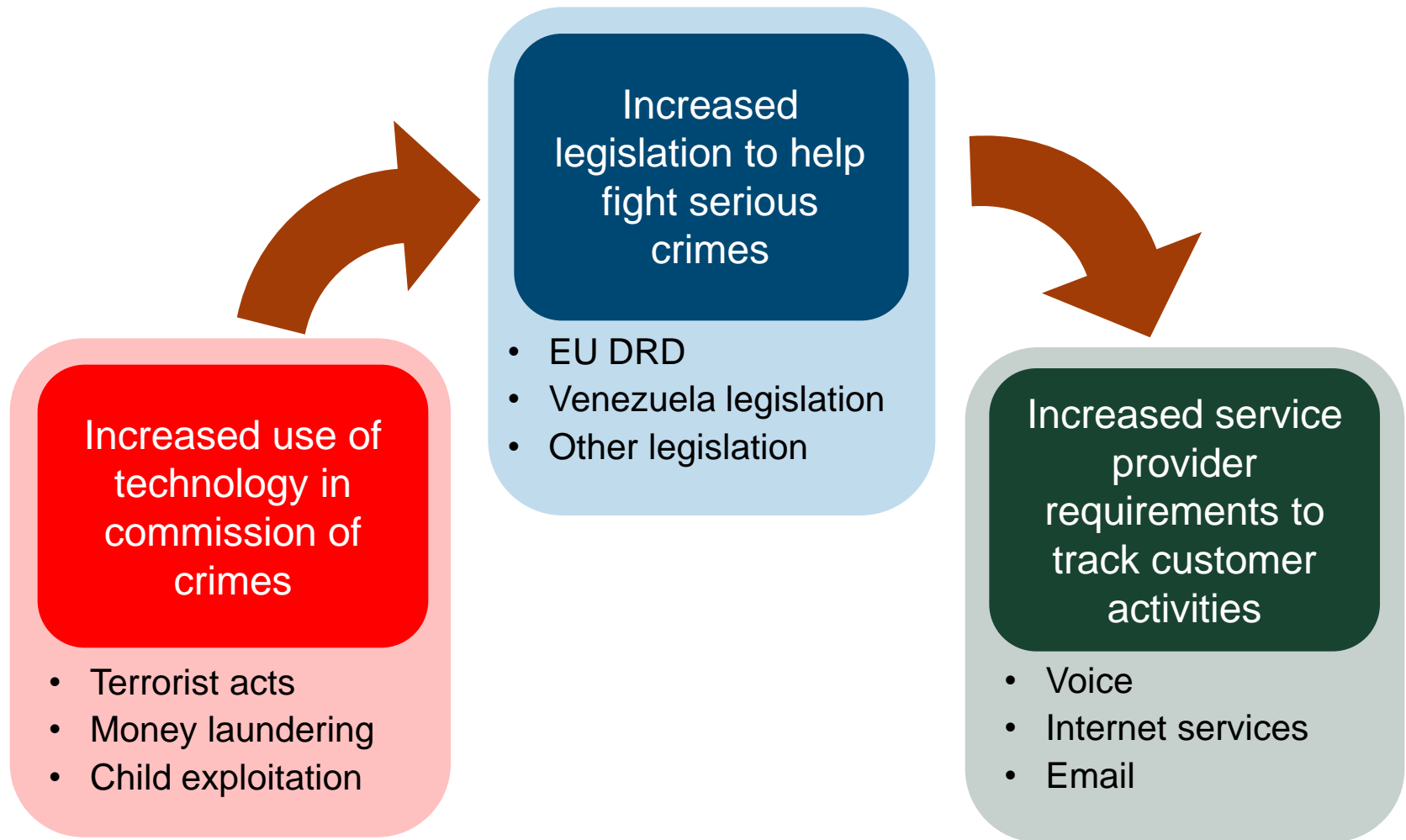Hewlett Packard Company

Agenda

- Trends in communications data retention

- Implications for service providers

- The big challenge – IP-based services

- HP DRAGON overview

- Summary

- Why HP?
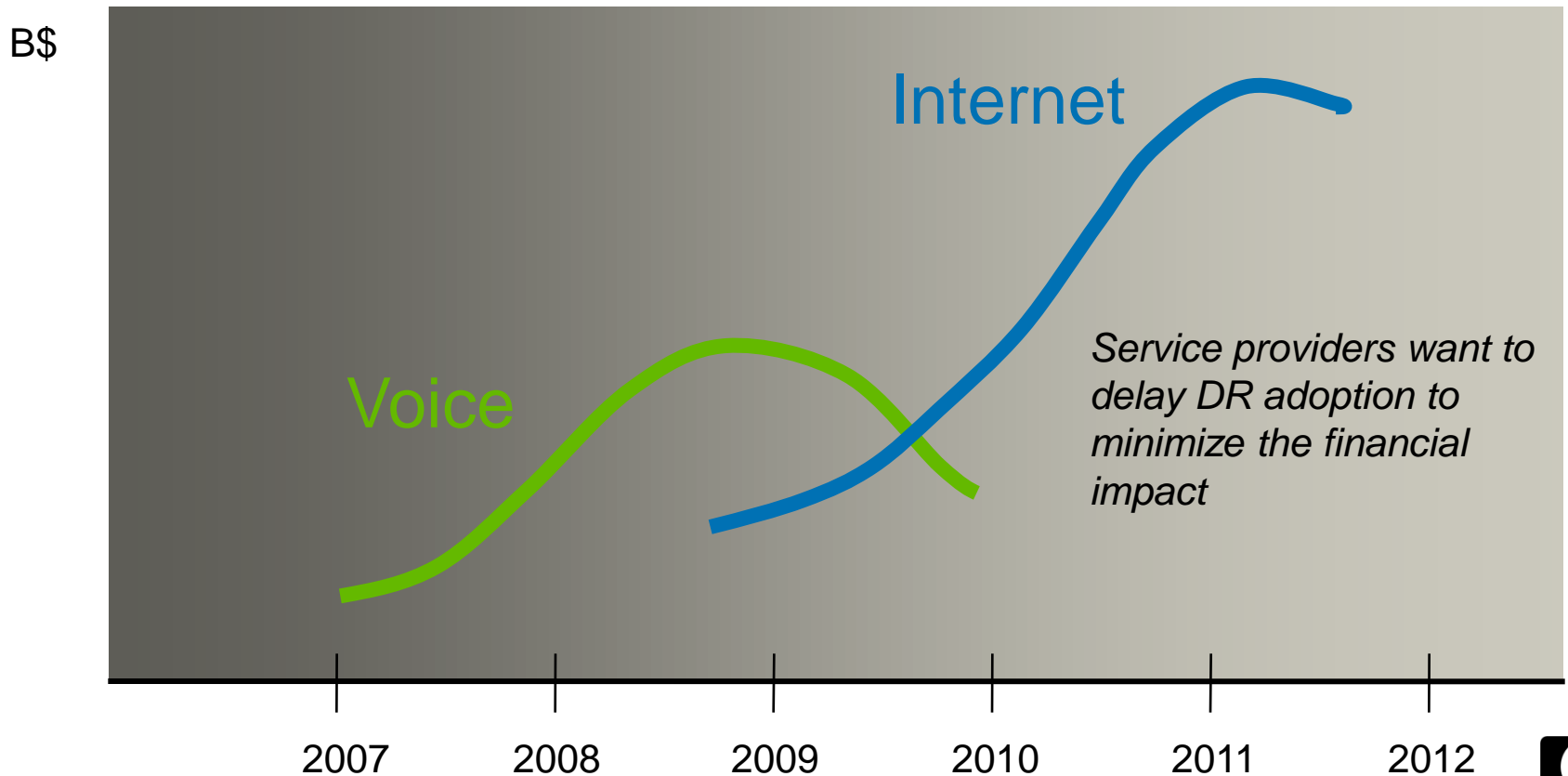
- Q & A

Trends in Communications Data Retention

Why has data retention become so important?

Increased legislation to help fight serious crimes

- EU DRD
- Venezuela legislation
- Other legislation

Increased use of technology in commission of crimes

- Terrorist acts
- Money laundering
- Child exploitation

Increased service provider requirements to track customer activities

- Voice
- Internet services
- Email

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Data retention trends

Two *waves* are expected…

B$

Internet

Voice

Service providers want to delay DR adoption to minimize the financial impact

2007   2008   2009   2010   2011   2012

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Implications for Communications Service Providers

Implications for communications service providers

A comprehensive implementation strategy is key to mitigating risk and managing costs long term

- Mitigate risk to the company's reputation

- Accurate interpretation of legislation

- Manage the continuous change of services and legislation

- Anticipate data retention system supporting processes

- Develop a flexible data retention solution strategy

- Data retention system is a cost of doing business

Data retention system requirements

- Multi-source data collection, correlation and aggregation
- Highly scalable in performance and capacity
- Strict security and control of stored data
- All user actions must be auditable
- Compliance with privacy legislation
- System and data cannot be used for other purposes
- Extensible to include future service offerings
- Flexibility for future compliance requirements

The Big Challenge – IP-based Services

The big challenge – IP-based services

- Voice data retention is well understood

- Internet services and next generation networks are complex

  - Significantly greater complexity in network infrastructure compared to voice

  - High ratio of source IP events to IP data records

  - Intelligent processing of source IP event data to optimize system performance

  - Data isn't always available at the source when needed
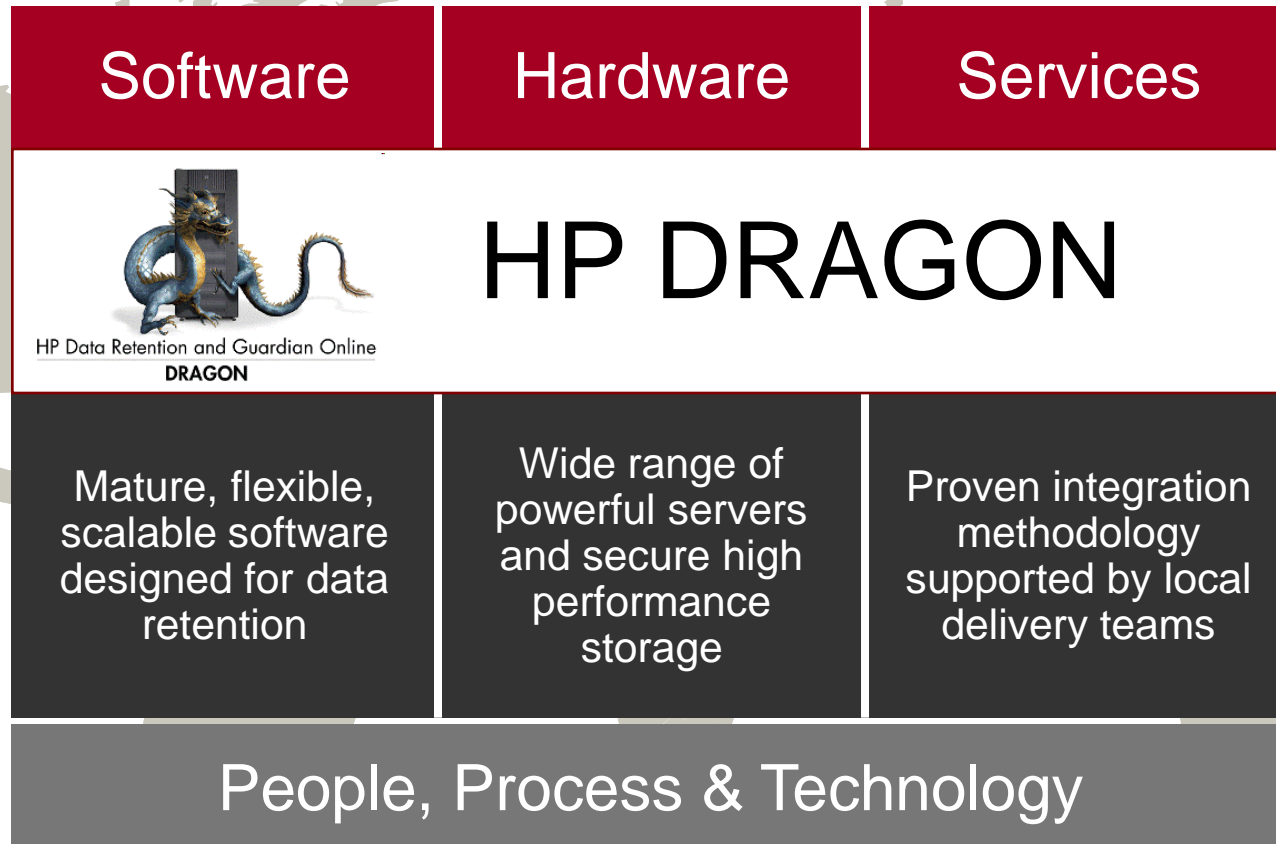
  - Time synchronization

HP Data Retention and Guardian Online (HP DRAGON)

What is HP DRAGON?

Complete end to end data retention solution

| Software	Hardware	Services
HP DRAGON		
Mature, flexible, scalable software designed for data retention	Wide range of powerful servers and secure high performance storage	Proven integration methodology supported by local delivery teams

People, Process & Technology

HP DRAGON key features

- Open, modular and flexible architecture
- High performance collection and query of data through parallel design
- Strong security across user, data and system functions
- Powerful LEA request management system
- Multiple xDR format management
- Data repository alternatives with data compression
- Hierarchical archives for optimum storage management
- Multi-tenancy to support multiple countries, companies, MVNO and hosted services

HP DRAGON architecture

High level overview
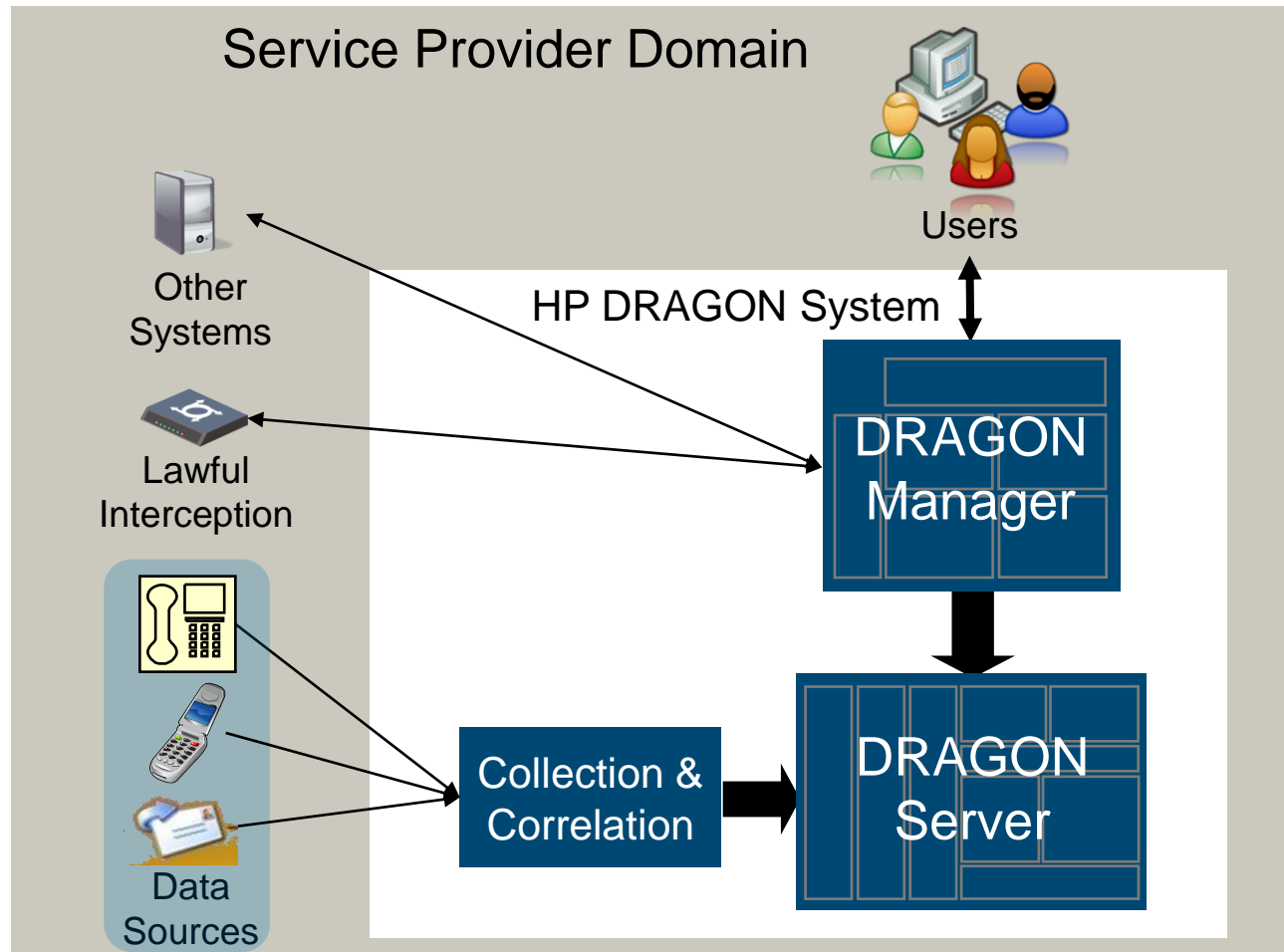
HP DRAGON architecture

Key modules

Collection and correlation

- Powerful collection and preparation of incoming data optimizes the retained data
- Multiple, simultaneous data flows to support multiple services

Security

- Role based access controls provide strong security management
- Robust security and encryption to protect data privacy
- User action logging and audit controls to validate security
- Optional integration with external security authentication systems

HP DRAGON Manager

- LEA request management for data retention and lawful interception
- Graphical user interface and work management to optimize request processing
- Integration with external systems to increase productivity

HP DRAGON Server

- Data repository optimized for query performance and capacity
- Data storage alternatives to best integrate with existing infrastructure
- Thorough data destruction to protect privacy

HP DRAGON Customers

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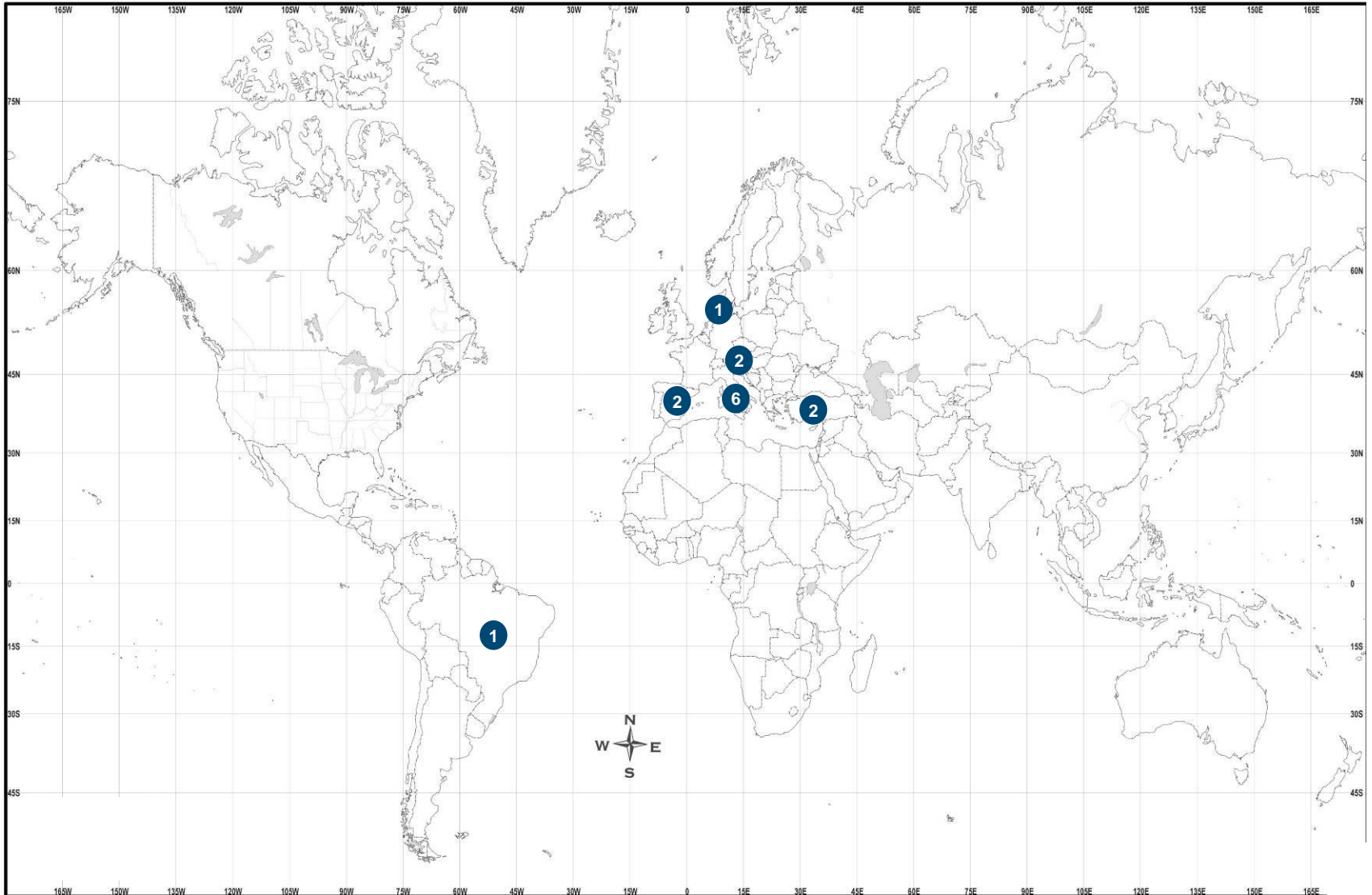
Data retention solution comparison

	HP DRAGON	Repurposed technology	Data warehouse	Custom Development
Data collection	●	◐	○	○
BSS/OSS integration	●	◐	○	◐
External integration	●	◐	○	○
Scalability	●	◐	●	○
Flexibility	●	○	◐	◐
Data management	●	○	●	○
Security	●	◐	○	○
Auditing	●	○	◐	○
Capital expense	●	◐	○	○
Operating expense	●	◐	◐	○

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HP DRAGON alliances

Partners in Intelligence Support Systems leadership

- HP has broad strategic alliance with Cisco
- HP DRAGON is a Cisco data retention solution partner

- Oracle relational database

- Sensage grid storage technology

- Intelligence support system interface standards
- HP is voting and contributing member

- HP also has partnerships with other lawful intercept and data analysis companies

The HP DRAGON advantage

- Purpose-built for xDR data retention based on HP expertise and intellectual assets

- Proven capabilities through 10+ year history of many varied and complex customer deployments

- Multi-dimensional scalability in performance, capacity and functionality

- Thought leader in ETSI and other industry standards

- Long-term product roadmap

- Investment-wise approach to meeting data retention requirements

The HP advantage

- Uniquely capable of delivering the complete end-to-end data retention solution
- Communications, Media and Entertainment team committed to service provider success
- HP's broad range of hardware, software and services
- HP's energy-efficient system solutions help reduce cost and energy consumption
- Over 69,000 services professionals in 170 countries

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Know the DRAGON

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Thank you
Gracias
Merci
Bitte
Grazie
Děkujeme vám

Technology for better business outcomes