

SECURITY INSID=OUT

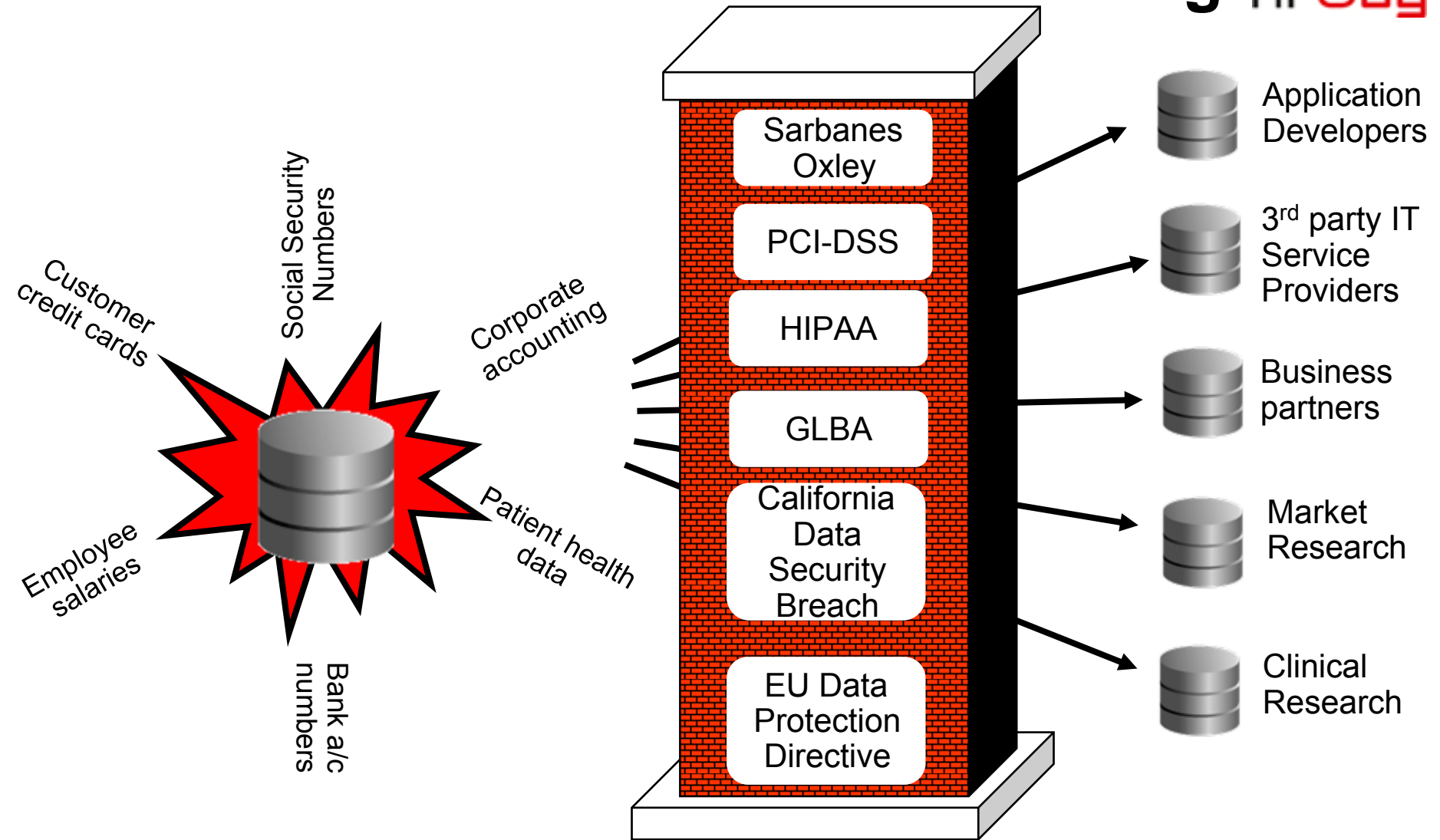
Complete Protection for Your Database,
Middleware, and Applications

The Oracle logo, consisting of the word 'ORACLE' in a bold, red, sans-serif font with a registered trademark symbol (®) to the upper right.

Database Security Enterprise Manager Data Masking Pack

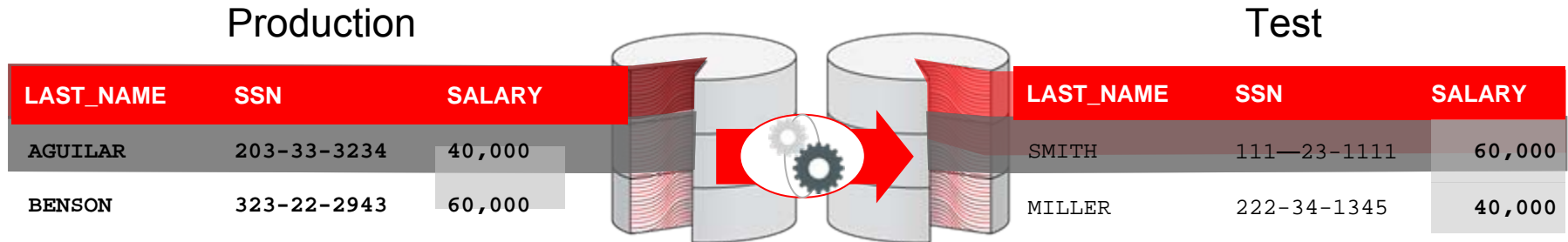
Antun Vukšić
Principal Consultant, Oracle Hrvatska

Business Drivers for Data Masking



Secure Test System Deployment

Oracle Data Masking



- Deploy secure test system by masking sensitive data
- Sensitive data never leaves the database
- Extensible template library and policies for automation
- Sophisticated masking: Condition-based, compound, deterministic
- Integrated masking and cloning
- Leverage masking templates for common data types

Oracle Data Masking

Comprehensive and Extensible Mask Library

Format Library

The Format Library contains a collection of ready-to-use masking formats which can be used when creating a masking definition.

Search

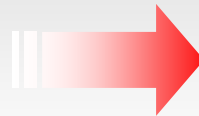
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<input checked="" type="radio"/>	American Express Credit Card Number	Character	3737652673504728	~10 billion unique American Express credit card numbers
<input type="radio"/>	Discover Card Credit Card Number	Character	6011119415762055	~10 billion unique Discover Card credit card numbers
<input type="radio"/>	MasterCard Credit Card Number	Character	5450028508701930	~10 billion unique MasterCard credit card numbers
<input type="radio"/>	Visa Credit Card Number	Character	4485866837369032	~10 billion unique Visa credit card numbers
<input type="radio"/>	Generic Credit Card Number	Character	6011924613720064	~10 billion unique generic credit card numbers

Mask formats for common sensitive data



Accelerates solution deployment of masking

Extensible mask routines



Enables customization of business rules

Define once, apply everywhere



Ensures consistent enforcement of policies

Oracle Data Masking

Application Integrity and Sophisticated Masking Techniques

EMPLOYEE			CUSTOMER		
<u>EMPID</u>	<u>NAME</u>	<u>TITLE</u>	<u>CUSTID</u>	<u>NAME</u>	<u>REP_ID</u>
12	SMITH	SALESREP	200	ACME	12
13	JONES	CSR	201	BIG BOX	15
14	ELLISON	CEO			
15	FERNICOLA	SALES MGR			

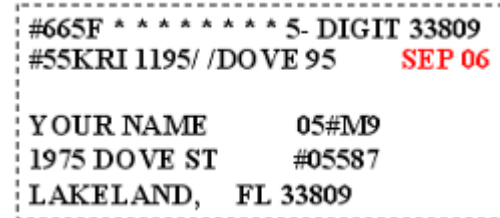
SUPPORT	
<u>CUSTID</u>	<u>CSR_ID</u>
200	13

Automatic Referential Integrity



Condition-based Masking

Compound Masking



Automatic Referential Integrity



Ensure application consistency while eliminating manual maintenance

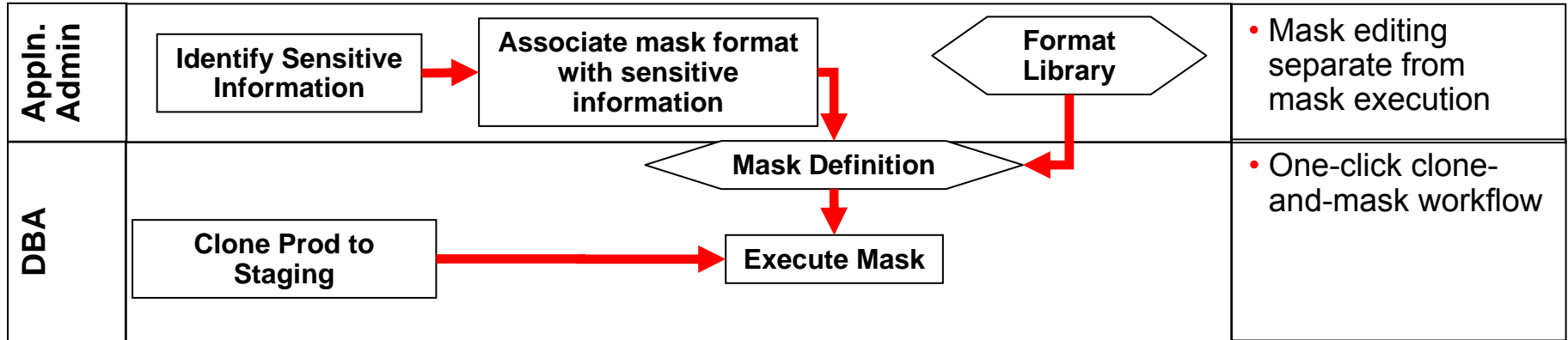
Sophisticated masking techniques



Apply context-sensitive business rules

Oracle Data Masking

High performance, Workflow-based and Optimized for Oracle



High Performance



Rapid creation of test systems

Workflow-based



Improved security via segregation of duties

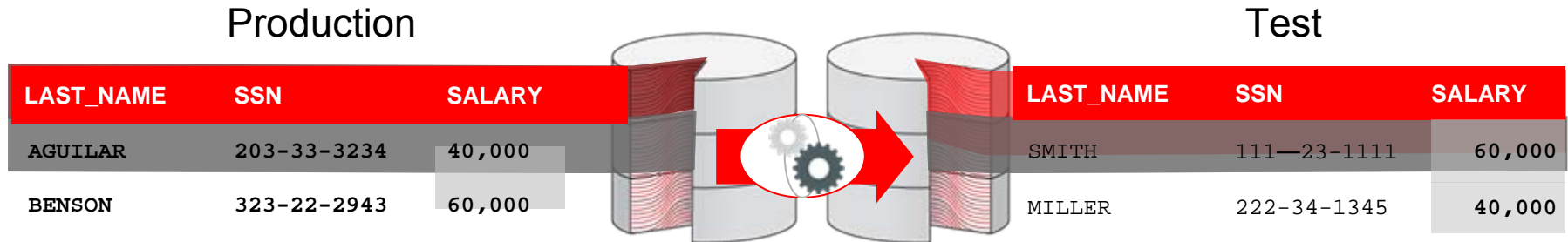
Optimized for Oracle



Increased productivity in Oracle environments through integration with cloning, flashback.

Secure Test System Deployment

Oracle Data Masking in EM 11g



- **NEW:** Masking of heterogeneous databases via database gateways
- **NEW:** Command line (EMCLI) support for data masking actions
- Deploy secure test system by masking sensitive data
- Sensitive data never leaves the database
- Extensible template library and policies for automation
- Sophisticated masking: Condition-based, compound, deterministic
- Integrated masking and cloning
- Leverage masking templates for common data types

Integration with Non-Oracle data

- Connect to non-Oracle from an Oracle env.
 - Transparently access non-Oracle data using Oracle SQL
- Makes the non-oracle look like a remote Oracle
 - Location Transparency
- Target specific Gateways
 - DB2, SQL Server, Teradata, Sybase, Informix
- Generic Gateway
 - Gateway for ODBC

Support and availability

Support

- Oracle Database 9.2 through 11.2
- All Oracle Applications on the above DB platforms
- Available in
 - Oracle Enterprise Manager Grid Control 10.2.0.4 → 11.1
 - Oracle Enterprise Manager Database Control 11.2

Q&A



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