

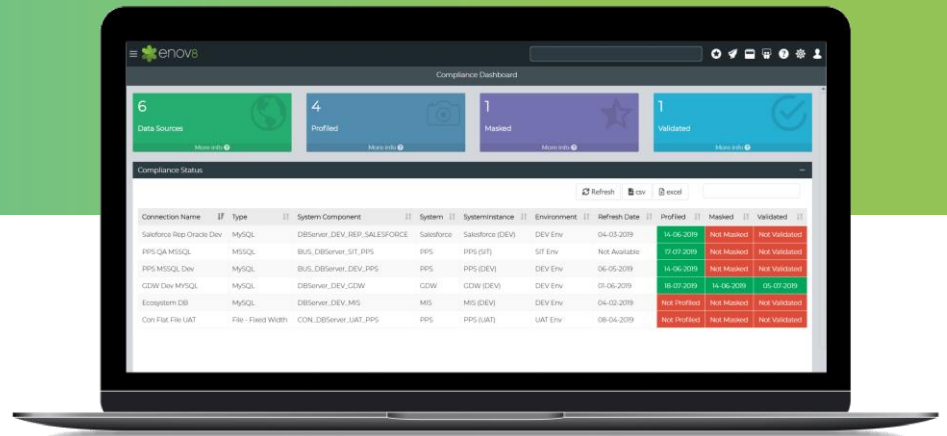
Data Compliance Suite

DevSecOps your Data and Risks.

Use automated intelligence to identify where security exposures reside, rapidly remediate these risks without error & centrally validate your compliance.

Product Benefits

- ✓ Understand your Data
- ✓ Rapidly Identify Risk
- ✓ Automate Remediation
- ✓ PII Compliance Validation
- ✓ Rapid Test Data Mining
- ✓ Avert a Security Breach
- ✓ Avoid Regulatory Penalties
- ✓ Painless to On-board
- ✓ Tech & Non-Tech Friendly
- ✓ DevOps-Able



Data Compliance Suite

Enov8 DCS is a specialist tool that brings together Data Compliance Best Practice and the agility of DevOps at an enterprise scale.

DCS helps you rapidly understand your complex data structures & identify where data resides, rapidly remediate security exposures through automated transformation routines, accelerate compliance validation auditing and simplify DevTest data consumption.

DCS supports:

AWS Redshift, Flat Files (Delimited & Fixed Width), IBM DB2, MSSQL, MYSQL, Oracle, Postgres & Sybase.

The Problem Statement

IT Projects need “production-like” data to effectively develop and test platform changes. However, that introduces “compliance” challenges, as independent of location or industry, organisations are responsible for ensuring that individuals data i.e. PII (Personally Identifiable Information) is continually protected from disclosure or misuse. The consequence of not complying to “privacy acts*” is significant both financially & reputationally.

**Privacy Acts including: APRA, GDPR, PDPO, PDPA, HIPPA, FCRA, ECPA etc.*

What is PII?

Personally Identifiable Information (PII) is any information that can be used to uniquely identify, contact or locate an individual.



Data Privacy Considerations

Key reasons you need to protect your data and the information it contains.

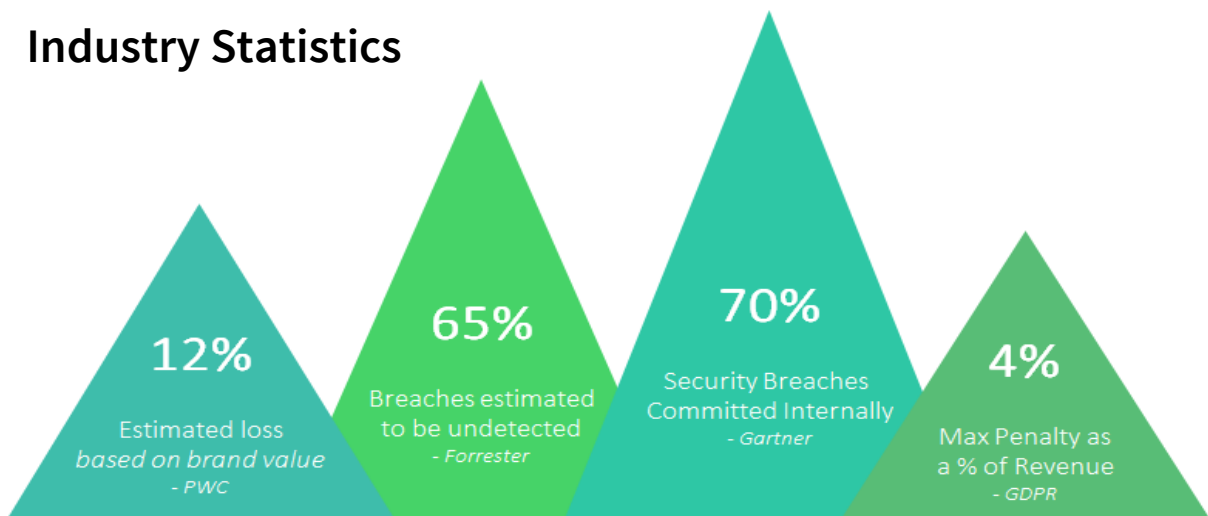
- Loss of data can have significant impact on individuals (customers).
- Mismanagement can lead to “compliance” penalties (fines & Sanctions).
- Companies are exposed to financial risk (brand damage & lawsuits).
- Regulations are continually changing & evolving.
- Information breaches are becoming more and more common.

The Challenge

Data is complex & identifying & addressing data security exposures are non-trivial.

- Platform are inherently large & complex (seas of data, billions of data points)
- Risks are often well hidden (needles in haystacks).
- Data security operations are manual (and therefore error prone & expensive).
- Remediation takes times (usually months of analysis and engineering effort)
- Success depends on competence of engineers, platform SMEs & often luck.

Industry Statistics



The DCS Solution

DCS helps organisations address their Data Compliance need by providing a set of features (automated capabilities) that replace traditional manual “Data Management “ methods. DCS features streamline IT project data operations, ensure quality through consistency and uplift compliance, security & audit.

Key Features



Automated Profiling

Understand your data & risks through inbuilt data analytics



Rapid Remediation

Rapidly build data masking & transformation methods on the fly & execute



Simple Validation

Test that previous “Production Patterns” are removed



Compliance Reporting

Simplify Compliance with Coverage Reports & Audit Trail



Data Mining

Rapidly find data to support IT project & DevTest endeavors



DevSecOps

Integrate Data & Risk Operations into your CI/CD tool chain

Features Overview

Data Profiling

Data is complex and in most organizations there are tens of millions (if not billions) of sensitive data points.

DCS Profiling uses artificial intelligence methods to automatically find these areas of risk and cut down on weeks of analytics effort per platform.

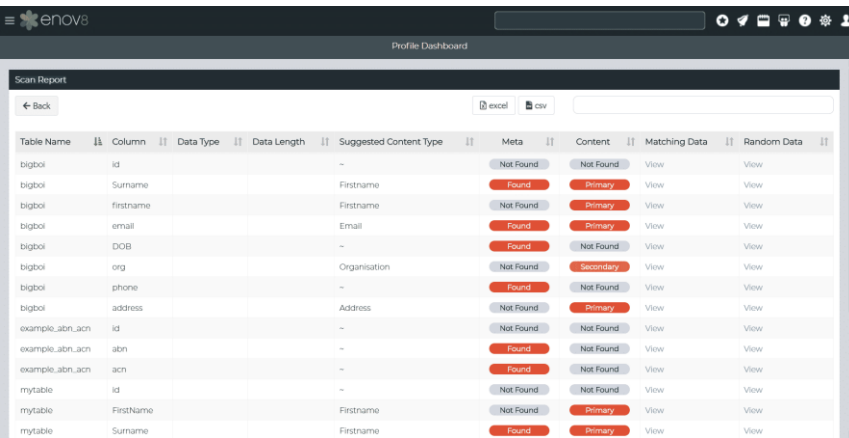
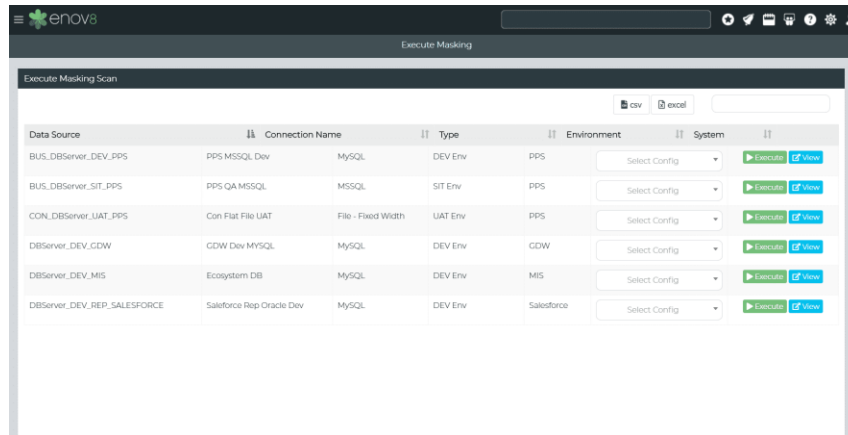


Table Name	Column	Data Type	Data Length	Suggested Content Type	Meta	Content	Matching Data	Random Data
bigboi	id	-	-	-	Not Found	Not Found	View	View
bigboi	Surname	-	-	Firstname	Found	Primary	View	View
bigboi	firstname	-	-	Firstname	Not Found	Primary	View	View
bigboi	email	-	-	Email	Found	Primary	View	View
bigboi	DOB	-	-	-	Found	Not Found	View	View
bigboi	org	-	-	Organisation	Not Found	Secondary	View	View
bigboi	phone	-	-	-	Found	Not Found	View	View
bigboi	address	-	-	Address	Not Found	Primary	View	View
example_abn_acn	id	-	-	-	Not Found	Not Found	View	View
example_abn_acn	abn	-	-	abn	Found	Not Found	View	View
example_abn_acn	acn	-	-	-	Found	Not Found	View	View
mytable	id	-	-	-	Not Found	Not Found	View	View
mytable	FirstName	-	-	Firstname	Not Found	Primary	View	View
mytable	Surname	-	-	Firstname	Found	Primary	View	View

Data Masking

Remediating your PII data with masking scripts is often challenging. Engineers can spend months building scripts. Scripts that don't work or are difficult to maintain.

Using the profiling information, DCS Masking removes this pain (and human errors) by generating the security routines on the fly.

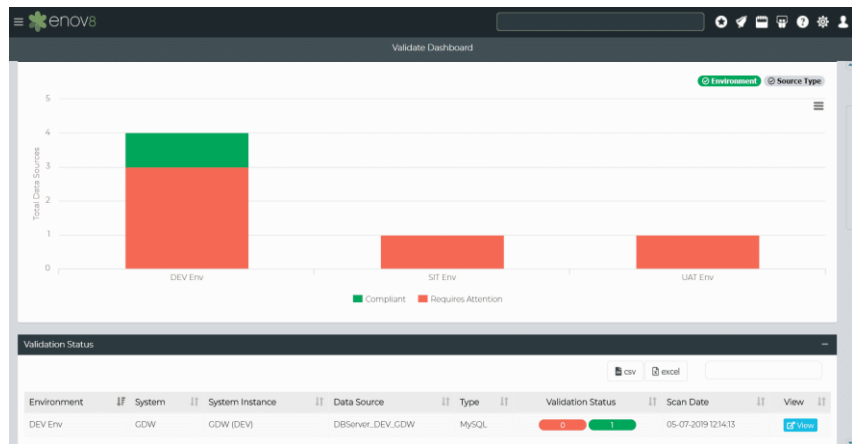


Data Source	Connection Name	Type	Environment	System
BUS_DBServer_DEV_PPS	PPS MSSQL Dev	MySQL	DEV Env	PPS
BUS_DBServer_SIT_PPS	PPS QA MSSQL	MSSQL	SIT Env	PPS
CONL_DBServer_UAT_PPS	Con Flat File UAT	File - Fixed Width	UAT Env	PPS
DBServer_DEV_GDW	GDW Dev MySQL	MySQL	DEV Env	GDW
DBServer_DEV_MIS	Ecosystem DB	MySQL	DEV Env	MIS
DBServer_DEV_REP_SALESFORCE	Salesforce Rep Oracle Dev	MySQL	DEV Env	Salesforce

Data Validation

Not sure if the data has already been remediated? Not sure the remediation process has been successful? Not sure how to validate or test compliance?

DCS Validation removes these concerns and challenges by automatically validating data that has been cleansed by looking for "high risk" production patterns.



Compliance Heat Map

Compliance Details

Masked

System	DEV Env	ST Env	SIT Env	UAT Env	SVP Env	DR Env
CDW	14-06-2019	NA	Not Masked	Not Masked	Not Masked	Not Masked
H-Core Customer	NA	Not Masked	Not Masked	Not Masked	Not Masked	NA
ICS	NA	NA	Not Masked	Not Masked	NA	Not Masked
Message Broker	NA	NA	Not Masked	Not Masked	NA	Not Masked
MIS	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked
Moodle	Not Masked	NA	Not Masked	Not Masked	NA	NA
IQM	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked
RPS	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked
Substance	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked
SAP	Not Masked	Not Masked	Not Masked	Not Masked	NA	Not Masked
SAS MD	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked	Not Masked
Sub-System 1	NA	Not Masked	Not Masked	Not Masked	Not Masked	NA
Sub-System 2	NA	Not Masked	Not Masked	Not Masked	Not Masked	NA

Legend: ■ Compliant ■ Required Attention

Compliance Reporting

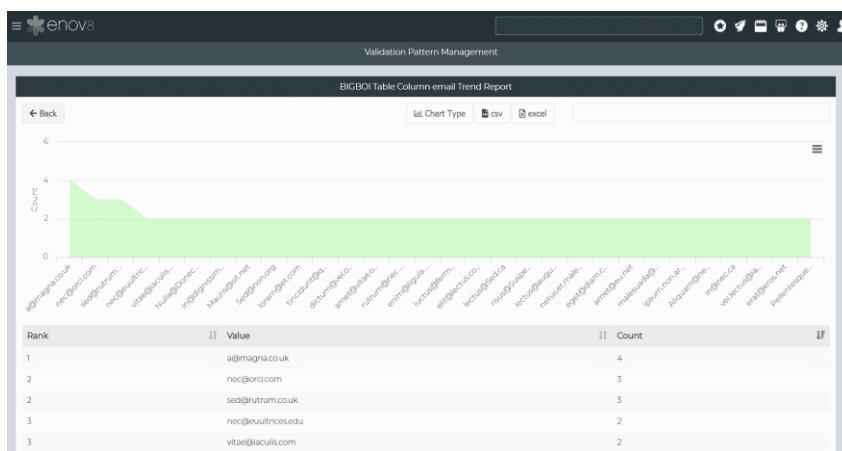
Organizations IT environments are large and complex and knowing what is where can be difficult.

DCS Compliance removes the problem by giving you a bird's eye view of "PII compliance" across your IT & Test Environments. A centralized capability to support Audit, Security & Compliance teams alike.

Data Mining

Having "production-like" data available is one thing, however knowing where to find data that will support IT Projects (development & Test) is another.

DCS Data View helps simplify and standardize the task of data mining through allowing the centralized creation and publishing (sharing) of "data mining routines".



Data SQL Results

Public SQL Library

Customer info

Showing 1 to 2 of 2 entries

id	Surname	firstname	email	DOB	org	phone	address
1	Dwy	Lacy	dui.Cum.sociis@pediac.ca	1986-03-01	Ut Erat Sed Institute	(04) 7039 6626	666-2886 Mallostda Avenue
2	Green	Lora	autorquis.tristique@conectuctus.org	1979-01-31	Lorem Tristique Aliquet PC	(06) 1921 0106	4971 A St.

DevSecOps

Data is often neglected by DevOps as it historically fell into the "too hard basket".

DCS (DevOps Edition) offers Restful APIs, Webhooks and DataOps libraries so data and security operations can be added to the Delivery tool chain.