



Enterprise Password Assessment Solution

# The Future of Password Security is Here



## EPAS – Enterprise Password Assessment Solution

The number one risk of any IT security architecture, no matter how thorough and extensive, remains the human factor – mainly the way users interact with the IT environment through the use of passwords.

Random sampling has shown that more than half of all passwords used in corporate environments do not satisfy minimum security requirements.

**At least 60% of passwords used in companies do not satisfy minimum security requirements**

EPAS is a development by Detack GmbH and its Swiss partner Praetors AG. It is an on-premises SaaS solution for automatic and regular password strength assessment and enforcement for a wide range of systems. EPAS addresses the overwhelming issue of maintaining secure passwords in large, heterogeneous environments containing Microsoft A/D, IBM System z, SAP and more.

Combining more than a decade of security auditing experience, EPAS offers the unique combination of German thoroughness and Swiss privacy protection. EPAS employs only legitimate cipher text extraction methods and therefore creates no system stability risk for the target. EPAS is fully scalable and allows for simultaneous audits of millions of accounts.

### Password Strength

Password policies commonly enforce length requirements and composition requirements. Their effectiveness against current password recovery attacks is very low. A policy does not restrict the use of dictionary words and known derivations, i.e. substituting the @-symbol for an "a". The strength of a password – its resilience against attacks – can best be evaluated using structural entropy.

Attackers use different methods to recover passwords. The most commonly used is the dictionary attack. Millions of dictionary words – including literature and published passwords from password leaks on the internet – are used to create the respective hashes. These are then compared to password hashes stored on a server.

### Universal Password Assessment

EPAS analyses the objective strength of passwords in selected target systems. Weak passwords are vulnerable to malicious cyber attacks. EPAS is able to assess unsal-

ted, statically salted, as well as dynamically salted passwords. It is customized for system specific encryption.

### Detailed and Legally Compliant Reporting

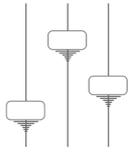
EPAS generates audit reports for each audit job. An executive summary provides full text and graphical data to visualize and explain the passwords' overall quality.

Included are recovery reasons, structure, compliance status and various other statistical data. Passwords are never displayed in clear text.

### Built on 15 Years IT-Security Experience

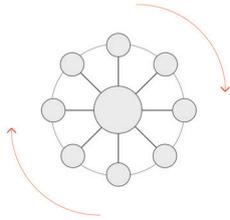
The development of EPAS is based on more than 15 years of IT-security auditing. Audit samples show that, statistically, at least 60% of all passwords do not fulfil minimum

security requirements. EPAS is the only solution to offer a legally compliant view of your enterprise password landscape.



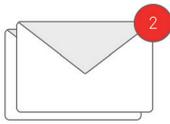
## Customizable Password Assessment

EPAS assesses recovered passwords against two criteria: a customized password policy and an objective, entropy-based set of rules. EPAS can simulate various attack methods used by cyber criminals, such as dictionary or brute force attacks.



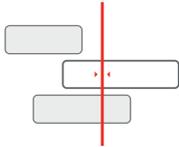
## Password Re-Use Report

Recovered passwords are checked for multiple use. A password can either be used several times by the same user on different systems or one password can be used by several users. Both situations pose a high security risk and are subject to risk mitigation measurements.



## Notification by E-Mail

Automatic notification is used to prompt users to change their passwords if these are too weak or do otherwise not comply with defined audit parameters. The same feature automatically notifies the service administrator of a completed password audit job and the availability of a report.



## Audit Jobs & Job Queuing

An intelligent job and queuing system permits programmable regular password auditing with no job collisions or task planning. EPAS is highly scalable. It can process simultaneous parallel tasks and can audit millions of accounts on different systems over a single weekend.



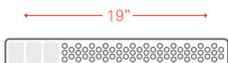
## Made for Enterprises

EPAS supports more than 30 systems and databases, ranging from IBM, SAP, Oracle to Microsoft. EPAS employs only legitimate, vendor-approved methods for retrieving password data from target systems, avoiding to crash targets or the false detection of malicious activities by antivirus or malware detection tools.



## Trusted Computing and Encryption

All data EPAS processes is permanently encrypted. Trusted Computing is used to seal the platform. EPAS employs various hardware and software monitoring elements to detect physical or software intrusion attempts. Security failsafe mechanisms log events and shut down in case of intrusion attempts.



## Small but Powerful

EPAS uses GPUs (graphics processing units) for fast encryption algorithms. Thanks to its compact construction, EPAS is installed in computer centers in standard 19" racks. EPAS is an On-Premises SaaS Solution and is subscription based, ensuring state-of-the-art technology at all times.

# On-Premises SaaS

EPAS is an on-premises SaaS solution and delivered through appliances which are integrated into the client's data centre. It is a "subscription-based service", meaning

all hardware remains the property of the service provider at all times. Software updates and hardware upgrades are included in the yearly subscription fee.

## Supported Standard Target Systems

IBM System i - iSeries - AS/400  
IBM System p - pSeries - RS/6000 AIX [Mass definition possible]  
IBM System z - zSeries - S/390 RACF (z/OS, z/VM)  
IBM Lotus Domino Application Server  
Microsoft Active Directory Accounts  
Microsoft Windows Local Accounts [Mass definition possible]  
BSD Operating System [Mass definition possible]  
Linux Operating System [Mass definition possible]  
Sun Solaris - SunOS [Mass definition possible]  
Apache Basic - httpasswd  
SAP NetWeaver - ABAP AS  
LDAP Authentication Server

## Supported Application Specific Data Storage

MSSQL System Accounts [Mass definition possible]  
MySQL System Accounts [Mass definition possible]  
Oracle System Accounts [Mass definition possible]  
PostgreSQL System Accounts [Mass definition possible]  
Sybase ASE System Accounts [Mass definition possible]  
DB2 Database Custom Application  
Informix Database Custom Application  
MaxDB Database Custom Application  
MSSQL Custom Database Application  
MySQL Database Custom Application  
Oracle Database Custom Application  
PostgreSQL Custom Database Application  
Sybase ASA Database Custom Application  
Sybase ASE Database Custom Application

*“ EPAS has helped us to increase our password security tremendously – a security problem we knew about and had to solve, but before had no means to truly control or monitor.”*

- A LARGE INTERNATIONAL INSURANCE



**SECURE  
METRIC  
TECHNOLOGY**



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