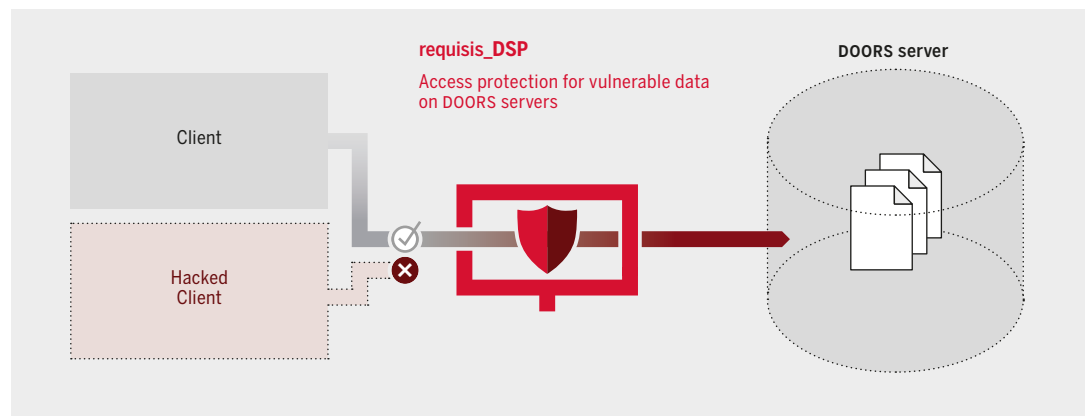


Solutions for IBM Rational DOORS

Easy, efficient and effective protection
for vulnerable data on the DOORS server.

requisis_DSP

requisis_DSP is a security solution for DOORS that uses a simple, cost-effective idea to fix architectural vulnerabilities. Vulnerable data on the server is shielded by a proxy server, which not only monitors the data stream between client and server, but also blocks unauthorized access – and logs it.



THE PROBLEM

Many companies store large numbers of confidential and secret documents in DOORS databases. Because all access right checks are performed by the client software, data and passwords on the server are unprotected. Until now, there has only been one quite elaborate patch to tackle this vulnerability, which fixes the problem by using IBM's "Server Side Security".

THE SOLUTION

As a simple and efficient security solution, *requisis_DSP* (DOORS Security Proxy) offers a fast and pragmatic alternative: A unique certificate is created for each person and is used to authenticate all DOORS users mapped to the person. The connection from the client is not established directly to the DOORS database, but to *requisis_DSP*.

For each read and write access, the system checks whether one of the stored users has read or write authorisation. Only then the request is forwarded to the server. If a manipulated client or hacking tool attempts to read or write data from the server without permission, the requests are not passed to the server.

requisis_DSP is simply installed on a Linux or Windows server. The DOORS server is "hidden" behind a firewall, so that access is only possible via *requisis_DSP* and, if desired, administrator PCs. Clients connect to *requisis_DSP* instead of the DOORS server. A public key infrastructure (PKI) creates the required certificates in no time at all. Additionally SSL encryption secures all communication without impacting server performance.

requisis_DSP

LEAN, FLEXIBLE, SECURE

requisis_DSP works passively, reading all authorisation information from the data stream, so there is no additional impact on the server, which is probably busy enough already. In addition, *requisis_DSP* can react flexibly to threats such as unauthorised reading of data – by interrupting communication with the “bad guy” or by notifying the administrator or security personnel.

Last but not least, *requisis_DSP* can log authorised and unauthorised access to DOORS modules. A transfer to other systems – for example for threat analysis – can be implemented via a customising project.

MORE INFORMATION ABOUT THE SECURITY VULNERABILITY CVE-2018-1457

<https://requisis.com/en/doors-security-issue.html>

PROTECTION DURING READING AND WRITING

- > Prevent non-administrators from accessing user data and password hashes from other users
- > Protection against misuse of access data: Since each certificate is only valid for specific DOORS users, other user data cannot be loaded from the server
- > Protection against brute force attacks on password hashes, since the hashes cannot be read
- > Protection against the replacement of passwords on the server
- > Access checks for all items on the server: modules, projects, folders, etc.
- > Capable of logging all access requests

LIMITATIONS

- > No check at object or attribute level – this is done exclusively in the client, since the entire module is loaded from and written to the server at once
- > No distinction between write, delete and purge
- > No check of view authorisations

We would be delighted to talk with you about the benefits of *requisis_DSP* in more detail! Contact us for further information:

product-support@requisis.com
Telephone +49 30 536 506-666
1-844-REQUISI, ext. 666

requisis *Outstanding in Engineering*

REQUISIS is synonymous with efficient requirements engineering and the development of custom business applications. Major German auto makers and automotive suppliers rely on our know-how. Operating out of offices in Berlin and Stuttgart, the company maintains a nationwide footprint to provide requirements management, project support, process optimisation and software development services with cutting-edge expertise. The spectrum of deliverables is complemented by effective training programs.

REQUISIS GmbH

Walter-Benjamin-Platz 8, 10629 Berlin, Germany
Telephone +49 30 536 506-700; Fax +49 30 536 506-300

Willy-Brandt-Straße 54, 70173 Stuttgart, Germany
Telephone +49 711 528 529-700; Fax +49 711 528 529-300

requisis.com, info@requisis.com