


PCI DSS COMPLIANCE FOR PGEE

PCI DSS (Payment Card Industry Data Security Standard) is a comprehensive set of security standards designed to protect sensitive payment card information. It has been widely adopted worldwide, and is therefore important to PostgreSQL deployments and database installations in general.



CYBERTEC PostgreSQL Enterprise Edition (PGEE) helps customers to meet compliance requirements imposed by PCI DSS and many other standards.



**PCI DSS
Compliance
Levels**

LEVEL 1	Merchants process more than 6 million debit or credit card transactions annually (both in store and online).
LEVEL 2	Merchants process between 1-6 million transactions per year.
LEVEL 3	Applies to the businesses processing between 20,000 - 1 million transactions per year.
LEVEL 4	Applies to all the merchants who have less than 20,000 transactions per year.

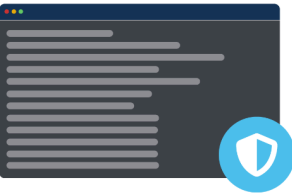




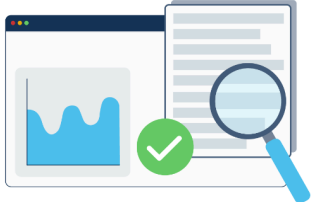
CYBERTEC PostgreSQL Enterprise Edition makes it possible to achieve the highest standards.

KEY COMPONENTS AND REQUIREMENTS OF PCI DSS:

With CYBERTEC PostgreSQL Enterprise Edition, you can solve all database compliance problems using just one comprehensive PostgreSQL product.



DATABASE SECURITY AND COMPLIANCE REQUIREMENTS

 <p>Encryption</p> <p>Card data must be encrypted, both at rest (TDE) and in transit.</p>	 <p>Access Control</p> <p>Limit access to authorized personnel only</p>	 <p>Secure Configuration</p> <p>Prevent unauthorized access:</p> <ul style="list-style-type: none"> • Strong passwords for all user accounts • Secure protocols (e.g., SSL/TLS) for network connections • Intrusion detection/prevention systems
 <p>Database Backup and Storage</p> <p>Secure regular off-site backups</p>	 <p>Secure Key Management</p> <p>Professional management of encryption keys</p> <ul style="list-style-type: none"> • Secure storage of encryption keys • Regular rotation and expiration of encryption keys 	 <p>Secure Configuration</p> <p>Permanent database audit:</p> <ul style="list-style-type: none"> • Log analysis and monitoring • Access control reviews • Compliance reporting

DATABASE CONFIGURATION REQUIREMENTS:

- 1. Server Hardening:** Regular database hardening:
 - Regular software updates
 - CVE management and security updates
- 2. Network Segmentation:** Prevention of unauthorized access.
- 3. Secure Protocols:** Protected client / server encryption
 - SSL/TLS encryption
 - Intrusion detection/prevention systems

DATABASE ACCESS REQUIREMENTS:

- 1. Role-Based Access Control (RBAC):** Database administrators must use RBAC to control access to sensitive data and database operations.
- 2. Auditing and Logging:** Databases must maintain audit logs of all access, including user authentication, database queries, and modifications.
- 3. Secure Password Policies:** Database administrators must enforce strong password policies for all users.

ADDITIONAL REQUIREMENTS:

- 1. Regular Security Assessments:** Identify vulnerabilities and ensure compliance with PCI DSS requirements.
- 2. Vulnerability Management:** Conduct regular security checks and vulnerability scans.
- 3. Compliance Reporting:** Report compliance with PCI DSS requirements on a quarterly basis.

By adopting PCI DSS, organizations can demonstrate their commitment to protecting sensitive payment card information and maintaining the trust of their customers. The updated standard provides a comprehensive framework for securing payment card data, enabling businesses to stay ahead of emerging threats and ensure the long-term security of their operations.

Organizations must carefully review these requirements and ensure that their databases meet all applicable standards to maintain compliance with PCI DSS regulations. CYBERTEC assists with this process and provides a solid database solution.

VERSION HISTORY

Version	Effective Date	Description	Author	Reviewed By	Approved By
1.X	2024-12-18	Initial version	Hans-Jürgen Schönig		
2.X	YYYY-MM-DD				
3.X	YYYY-MM-DD				

If you need further information

For more information, or if you have any questions about our range of products, tools and services, contact us. There's no obligation—send us an inquiry via email or give us a call.

Contact

 **CYBERTEC PostgreSQL International GmbH**
Römerstraße 19
2752 Wöllersdorf
AUSTRIA

 + 43 (0) 2622 93022-0
 sales@cybertec-postgresql.com