

CYBERTEC LakeHouse for Scalefield

The “Ocean front villa” experience

TABLE OF CONTENTS

TABLE OF CONTENTS.....2

TURNING LAKES INTO OCEANS OF INFORMATION..... 3

 DATA-DRIVEN DECISION MAKING WITH CYBERTEC..... 4

 LAKEHOUSE: LEVERAGING DATA AT ALL LEVELS..... 5

BENEFITS AT EVERY STEP OF THE WAY.....6

 EFFICIENT DATA INGESTION..... 7

 SCALABLE COMPACT STORAGE.....8

 ADVANCED ANALYTICS AND PROCESSING..... 9

 PROFESSIONAL USER EXPERIENCE.....11

CYBERTEC LAKEHOUSE FOR SCALEFIELD.....12

FULL STACK COMPLIANCE AND SECURITY.....14

 CERTIFIED FOR YOUR SAFETY.....14

 ADDITIONAL COMPLIANCE REQUIREMENTS.....14

VERSION HISTORY..... 16

TURNING LAKES INTO OCEANS OF INFORMATION

When people say that data processing is actually about databases, tables, structured vs. unstructured information, or maybe about analytics? Well, we see it differently ...



It is not about the data - it's actually what you can make of it. We strongly believe that the **purpose of data** is to drive wise decisions and to turn insights into action, serving your business.

DATA-DRIVEN DECISION MAKING WITH CYBERTEC

Using our technology allows you to make smarter decisions based on real data rather than on guesswork or hearsay. **CYBERTEC LakeHouse for Scalefield** has all the tools and means to help you make real decisions based on facts:

DATA-DRIVEN DECISION MAKING

The process of using data to inform and validate decisions.



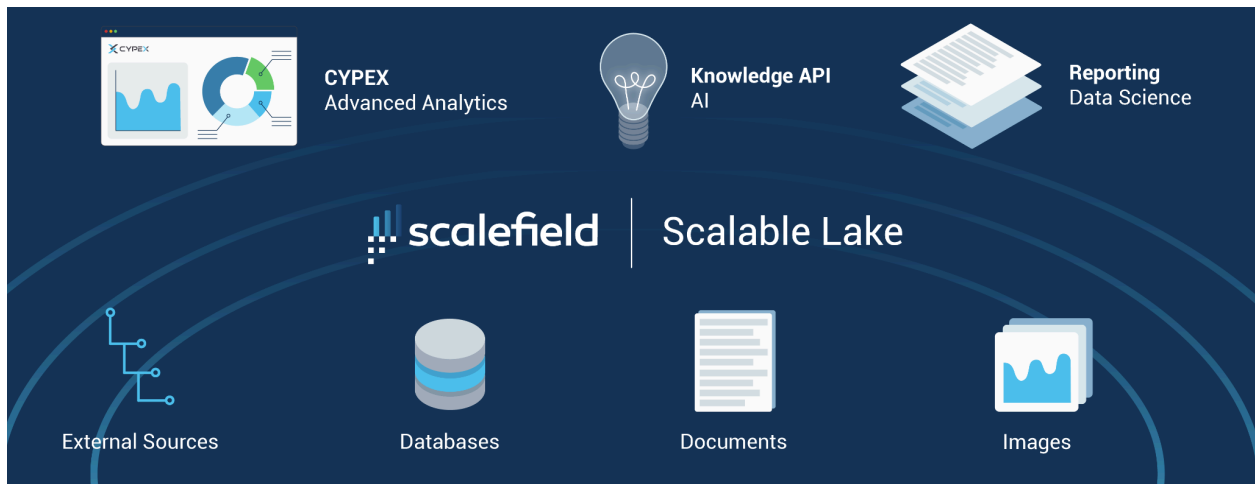
Customer benefits:

- Modern AI-based decision making
- Faster decision making
- Deeper insights into data
- Fact-based management



LAKEHOUSE: LEVERAGING DATA AT ALL LEVELS

A **professional LakeHouse** solution based on **PostgreSQL** and **CYBERTEC PGEE** allows you to leverage the power of your data and extract deep insights into your business **bringing data to life**:



“Real world solutions for real people”

CYBERTEC provides a comprehensive solution based on a PostgreSQL toolchain that helps you run and analyze data at scale.

BENEFITS AT EVERY STEP OF THE WAY

Customer benefit at every step of the way:

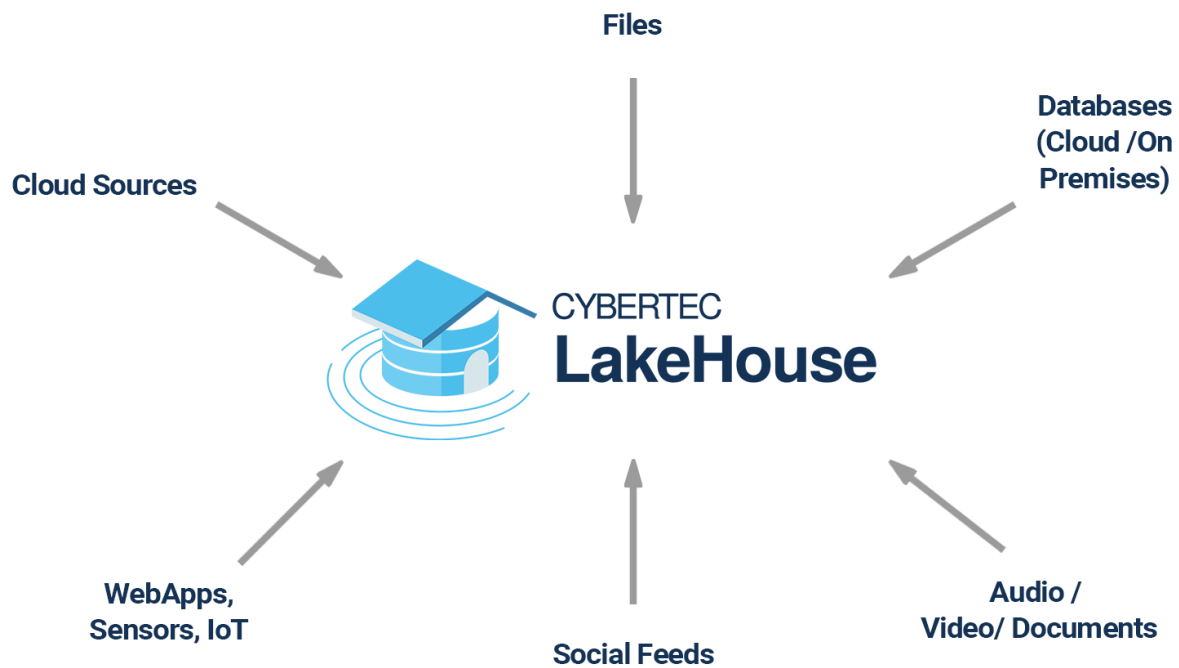
- Efficient data ingestion
 - Load data at lightning speed
 - Massively parallel processing
 - Multiple data sources
- Scalable storage
 - Store large amounts of data
 - Efficient storage formats
 - Easy to scale
- Advanced analytics and processing
 - Clustered PostgreSQL
 - Using advanced AI
 - Integration with advanced tooling (Python, R, etc.)
- Professional user experience
 - Built-in browser interface
 - Direct API access



“High Return for high-flying enterprises”

EFFICIENT DATA INGESTION

Easily ingest data into the **CYBERTEC LakeHouse** from various data sources such as **Oracle**, MS SQL, Parquet, **cloud services**, and much more using our pluggable system architecture:



Customer benefits:

- Import data at scale
- Advanced scheduling
- Easy automation
- Compliance-aware processing

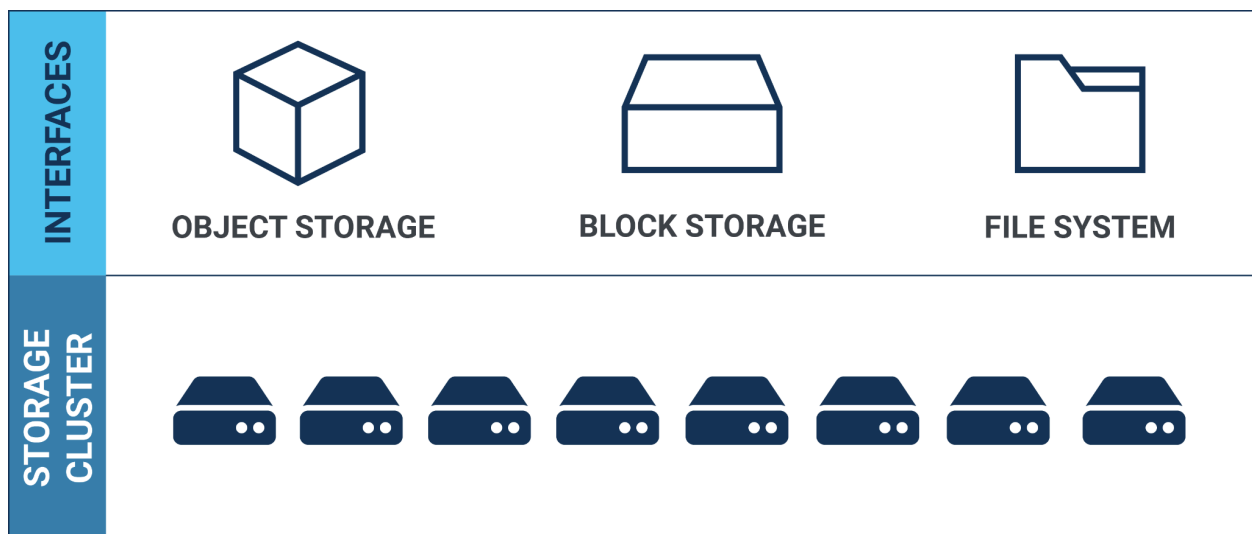


SCALABLE COMPACT STORAGE

Our storage layer is highly scalable and offers cost-efficient options to store data as part of the classical “Lake House Architecture”, which has been widely adopted by the industry.

Use storage infrastructure of your choice, including but not limited to:

- On-prem storage
 - SAN and NAS hardware
 - Servers with local storage
 - Distributed S3 storage
- Cloud storage
 - SAN and NAS hardware
 - Servers with local storage
 - S3 storage



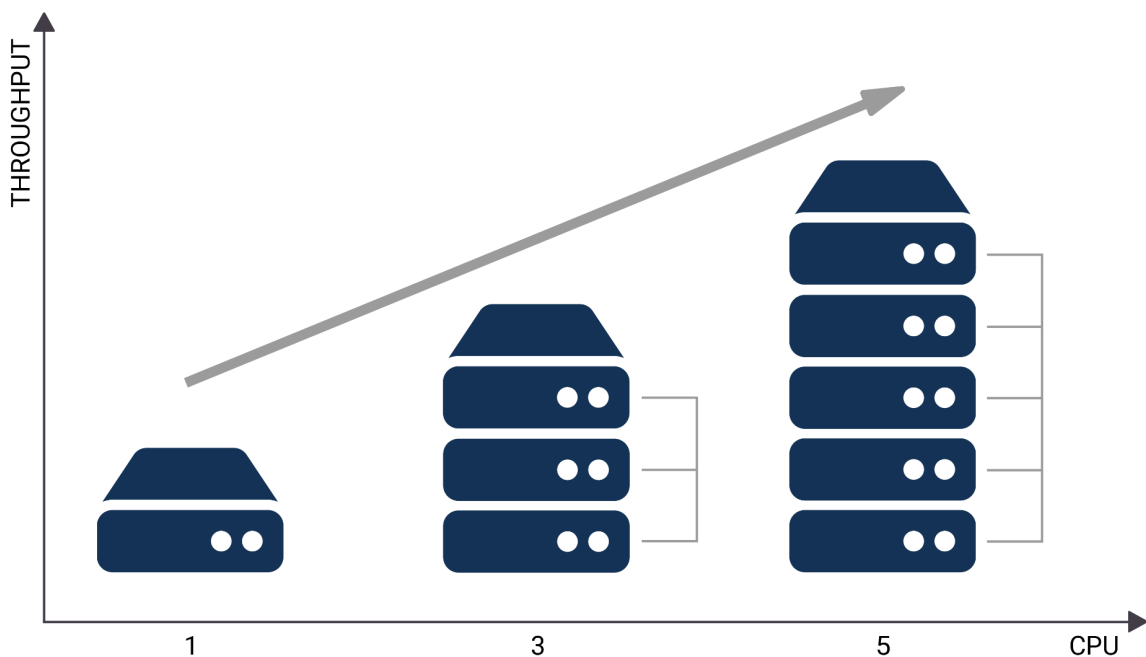
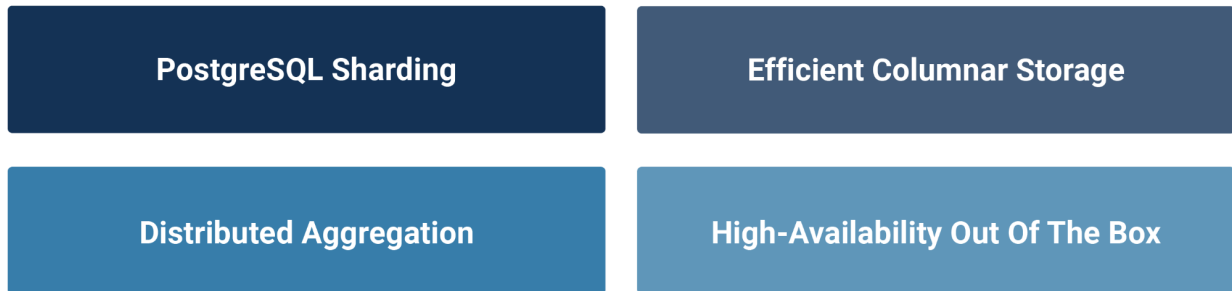
Customer benefits:

- Multiple storage options
- Cost-effective solution
- Flexible and scalable storage

ADVANCED ANALYTICS AND PROCESSING

POSTGRES SQL SCALABILITY BY THE POSTGRES SQL COMPANY

CYBERTEC relies on **scalable database technology** based on various techniques, providing us with high scalability and massively parallel processing while maintaining an easy-to-use SQL interface:

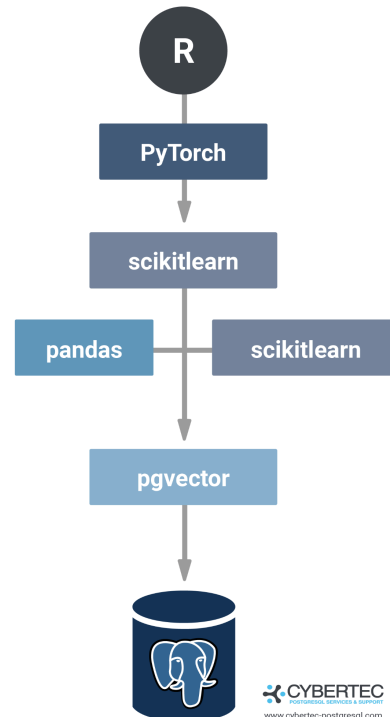


- Full High-Availability
- High Scalability
- Maximum efficiency

ARTIFICIAL INTELLIGENCE FOR REAL PEOPLE

Use a variety of machine learning tools, including but not limited to:

- PostgreSQL including pgvector
 - Semantic search
 - Multilayer graph indexes
- Popular Python libraries
 - pandas
 - scikit-learn
 - PyTorch
- Comprehensive R infrastructure
 - Financial models
 - Advanced statistics and modeling
- Easy LLM integration
 - Semantic text processing
 - Intelligent analytics



Customer benefits:

- Fully GPU-enabled
- Easy to add libraries
- Simple integration of existing models
- Support for pgvector

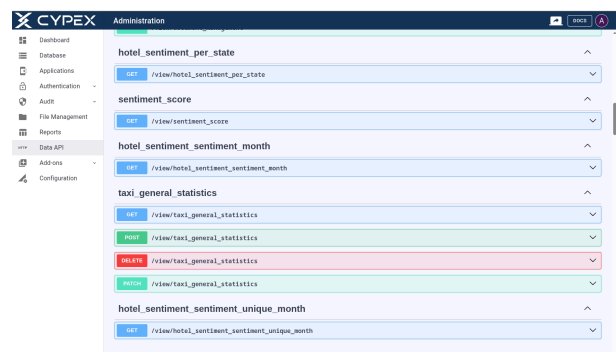
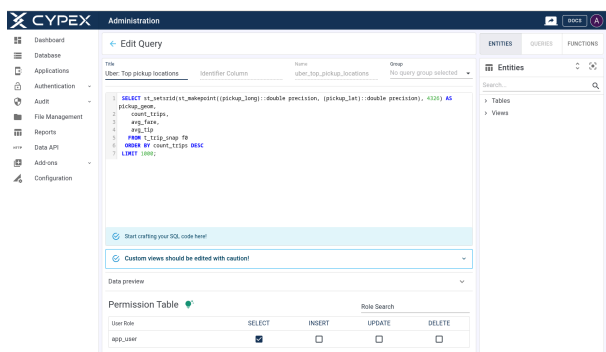
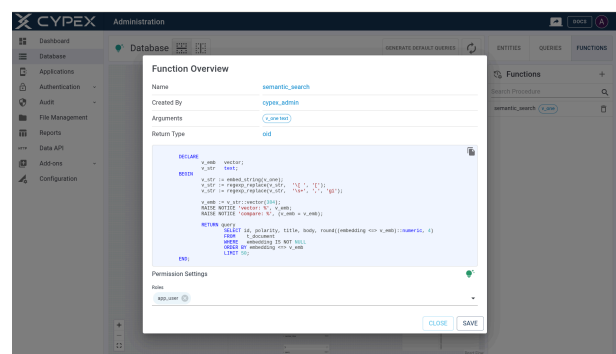
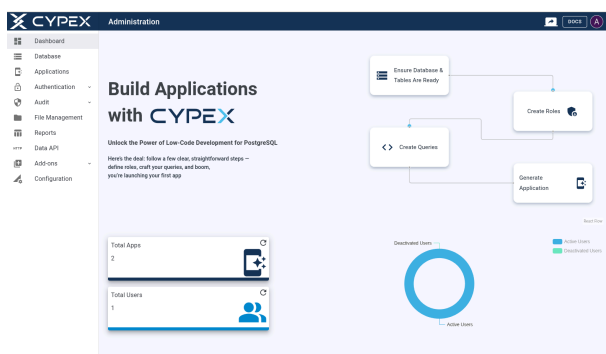
PROFESSIONAL USER EXPERIENCE

Our **CYBERTEC LakeHouse for Scalefield** product comes with an easy to use interface allowing you to analyze, visualize and monitor your data.

Our **low code platform CYPEX** allows you to quickly get a handle on your data and create beautiful solutions such as ...

- Enterprise dashboards
- Forms and workflows
- Maps and GIS data

CYPEX provides easy to use APIs out of the box with zero effort and provides fully compliant access to data.



CYBERTEC LAKEHOUSE FOR SCALEFIELD

CYBERTEC LakeHouse for Scalefield is offered as a product tailored to your needs. We support various platforms such as:

- On-premise deployment
 - Plain metal servers
 - Virtual machine
 - Kubernetes / OpenShift
- Cloud-based services
 - MetalStack
 - Microsoft Azure
 - Amazon Web Services (AWS)
 - Google GCP
 - Huawei
 - Alibaba Cloud

More platforms are available on request.

Services	Supported
Scalable data ingestion	✓
Scalable storage	✓
Advanced job scheduling	✓
Support for Machine Learning / AI	✓
LLM support	✓
Graphical user interface	✓
CYPEX Low Code development platform	✓
Access to CYBERTEC Enterprise Support	✓
Cutting edge SLAs	✓
Access to the CYBERTEC Support Portal	✓
Access to CYBERTEC PostgreSQL Enterprise Edition (PGEE)	✓
Including Data-At-Rest-Encryption	✓
Advanced compliance related features	✓

Easy deployment inside Scalefield	✓
Efficient graphical deployment	✓
Simplified graphical administration	✓
Full support for Kubernetes, etc.	✓
"Continuous training" subscription included	✓
Access to comprehensive training material	✓
Assisted learning to grow your team	✓
Access to training at the CYBERTEC HQ in Austria	✓

FULL STACK COMPLIANCE AND SECURITY

Compliance, security and data privacy are of key importance. In a world in which data is the most valuable thing, focusing on protection and professional security is important.

CYBERTEC is fully aware of those requirements and drives the movement towards ...

- more secure
- more sustainable
- fully compliant

... data processing and professional IT.

CERTIFIED FOR YOUR SAFETY

We are fully ISO 27001 and TISAX certified.



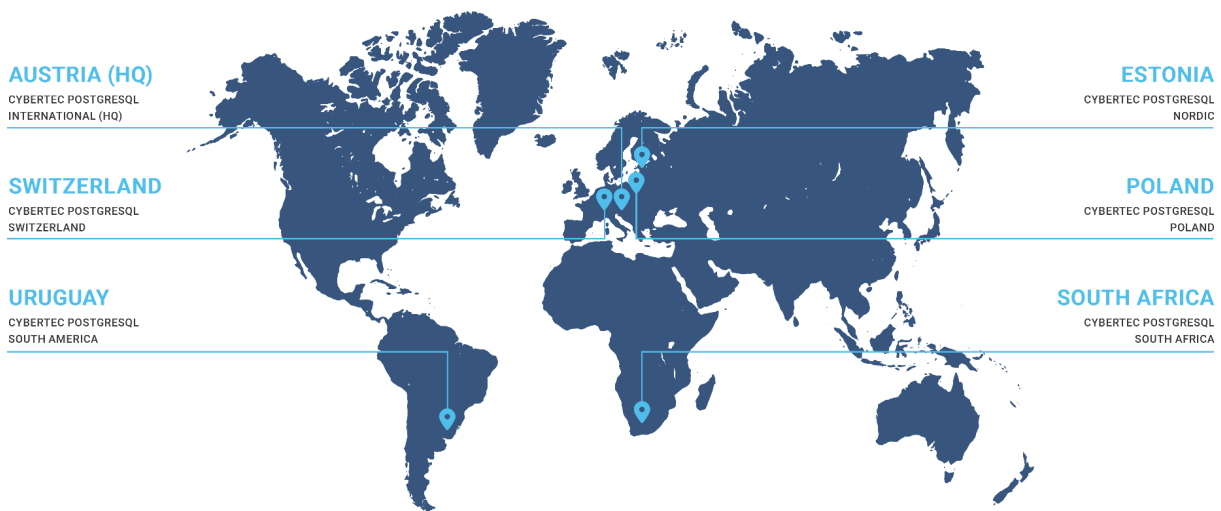
logos

In addition to our certifications we honor important compliance requirements including but not limited to:

- | | |
|--------------------|---|
| • GDPR: | European legislation |
| • POPI-A and SFCA: | African regulations |
| • DORA: | European financial requirements |
| • BSI: | German security standard |
| • PCI-DSS: | Credit card and payment related |
| • HIPAA: | Health Insurance Portability and Accountability Act |

ADDITIONAL COMPLIANCE REQUIREMENTS

For additional compliance requirements, please contact sales@cybertec.at.
We will help you with your request.

**AUSTRIA (HQ)**CYBERTEC PostgreSQL
INTERNATIONAL (HQ)**SWITZERLAND**CYBERTEC PostgreSQL
SWITZERLAND**URUGUAY**CYBERTEC PostgreSQL
SOUTH AMERICA**ESTONIA**CYBERTEC PostgreSQL
NORDIC**POLAND**CYBERTEC PostgreSQL
POLAND**SOUTH AFRICA**CYBERTEC PostgreSQL
SOUTH AFRICA**CYBERTEC PostgreSQL
International (HQ)**

Römerstraße 19
2752 Wöllersdorf
Austria
Phone: +43 (0)2622 93022-0
E-Mail: office@cybertec.at

CYBERTEC PostgreSQL Nordic

Fahle Office
Tartu mnt 84a-M302
10112 Tallinn
Estonia
Phone: +372 712 3013
E-Mail:
nordic@cybertec-postgresql.com

**CYBERTEC PG Database Services
South America S.A.**

Misiones 1486, Piso 3
11000 Montevideo
Uruguay
E-Mail:
latam@cybertec-postgresql.com

**CYBERTEC PostgreSQL
Switzerland**

Bahnhofstraße 10
8001 Zürich
Switzerland
Phone: +41 43 456 2684
E-Mail:
swiss@cybertec-postgresql.com

CYBERTEC PostgreSQL Poland

Pl. Inwalidów 10
01-552 Warsaw
Poland
E-Mail:
poland@cybertec-postgresql.com

**CYBERTEC PostgreSQL
South Africa**

No. 26, Cambridge Office Park
5 Bauhinia Street, Highveld Techno
Park
0046 Centurion
South Africa
Phone: +27(0)12 881 1911
E-Mail:
africa@cybertec-postgresql.com

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

VERSION HISTORY

Version	Effective Date	Description	Author	Reviewed By	Approved By
1.X	2025-06-02	Initial Draft	Abhipsa Padhi	Hans-Jürgen Schönig	