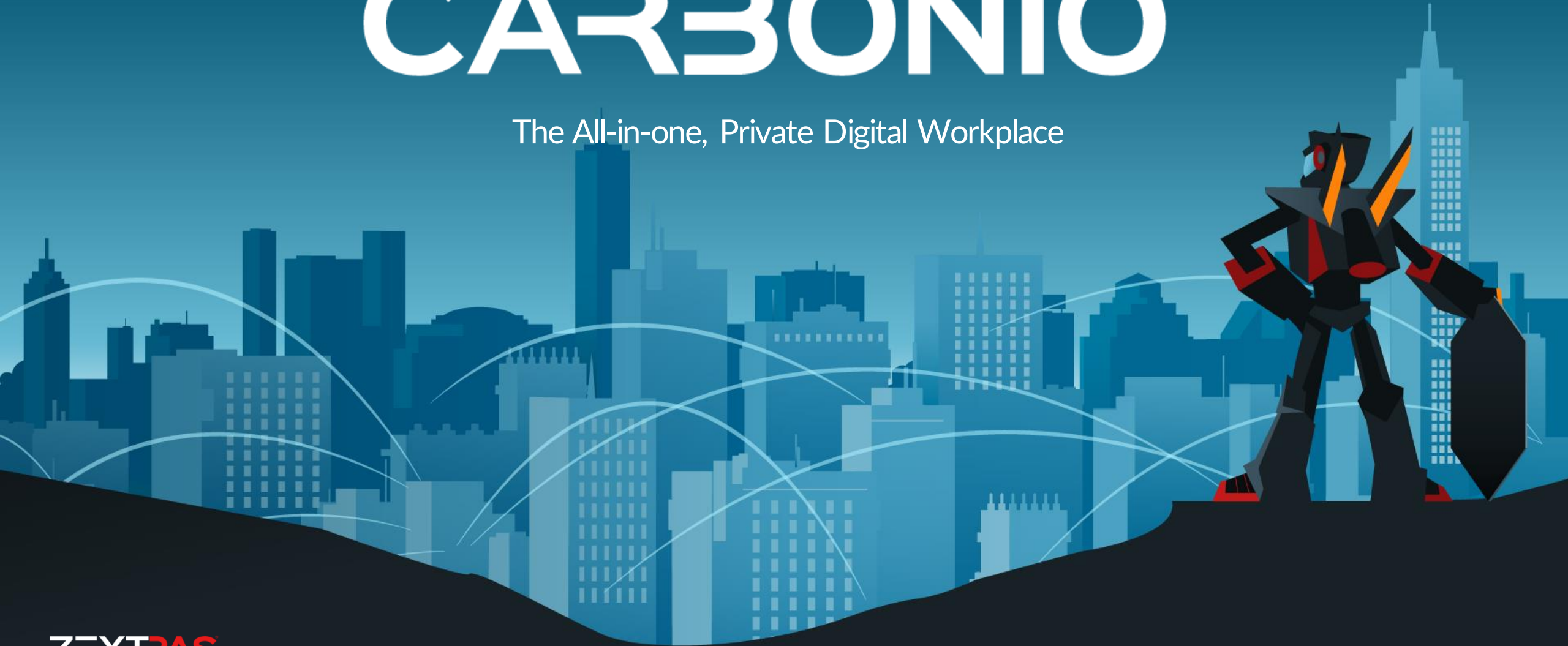# ZEXTRAS

CARBONIO

The All-in-one, Private Digital Workplace

ZEXTRAS

Since 2010 Zextras has been developing open-source email and collaboration solutions centered around digital sovereignty and ownership.

30,000
INFRASTRUCTURES

>90%
RENEWAL RATE

120 MILLION
USER WORLDWIDE

ZEXTRAS

120
EMPLOYEES
AND COUNTING

7 OFFICES
IN 5 COUNTRIES

THE FUTURE OF
THE DIGITAL
WORKPLACE

Total Control On Your Data

Fully-fledged Collaboration

Secure & Scalable Administration

ZEXTRAS

Embrace Digital Sovereignty.

On-Premises Deployment

Private Clouds Deployment

Private Communications

Data Protection Regulations Compliance

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ZEXTRAS CARBONIO

USERS
Team up and collaborate, even remotely

Email productivity
Group chats
Video Meetings (external users included)
File management and sharing
Collaborative co-editing on word processor, spreadsheet, presentation
Mobile Parity

CORE
Complete E-mail Server

Advanced Webmail
Anti virus / anti malware
Anti spam/ anti phishing
Data Sovereignty
Multitenancy

ADMINS
Carbonio adapts to your needs, not vice versa.

Advanced Storage Manager
Real-time Backup and Restore
High Availability
Admin Delegation
Pay-per-use model
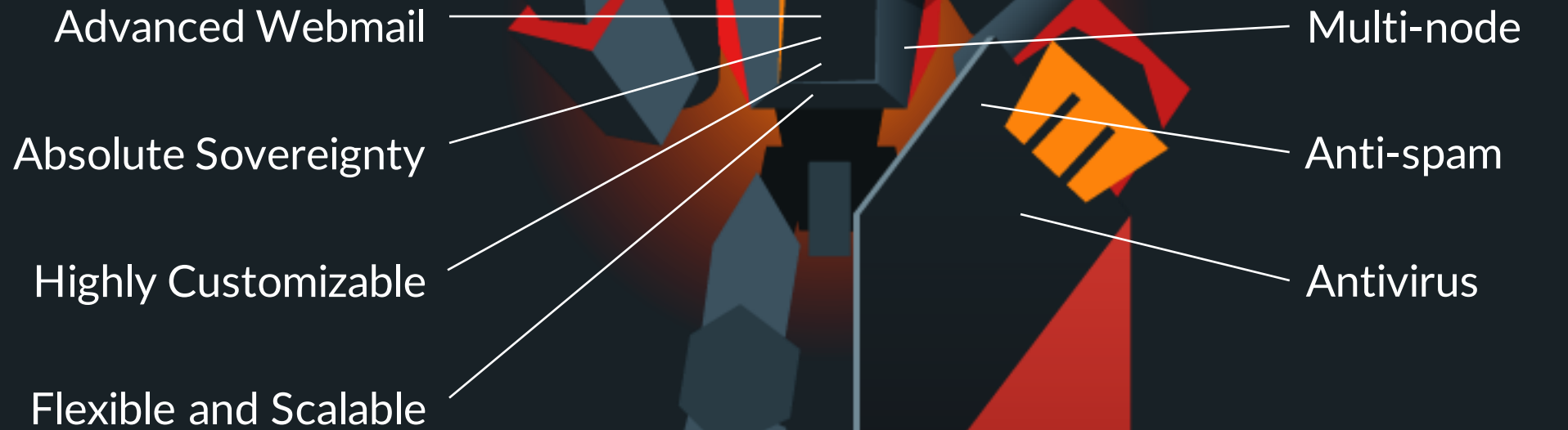
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Deployment Options

On Premise

Private Cloud

Hybrid

Carbonio is vendor agnostic: it is compatible with any cloud / IaaS provider

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ZEXTRAS CARBONIO

Multi-tenant

Advanced Webmail

Multi-node

Absolute Sovereignty

Anti-spam

Highly Customizable

Antivirus

Flexible and Scalable

ZEXTRAS

Advanced Webmail

- Modern **React-based** Client
- **E-mails, contacts, calendars**
- Anti spam / anti phishing
- Anti virus / anti malware
- **Secure sandbox**
- **Secure** access via 2FA , SAML , QR-Code
- **Share** any objects with colleagues: email accounts, contacts, calendars, folders,
- **Sync** with **Outlook** and sync **mobile devices**

Built-in Antispam & Antivirus

Antispam / anti phishing

- Automatic blocking unsolicited bulk e-mails and spam
- E-mail header and body text analysis
- DNS blocklists
- Heuristic and statistical/Bayesian scoring framework
- Automatic purge of spam folder
- Automatic source updater

Antivirus / anti malware

- Scanning infrastructure inbound and outgoing e-mails
- Real-time server-side scanner
- Automatic attachment scanning
- Scanning archives and compressed files ZIP, RAR, Tar, Gzip, etc.
- Detecting malware, cryptolockers, trojans, Microsoft macros, worms, etc.
- Automatic database updater

Secure sandbox preview for e-mail attachments, files, and files sent via chat. They are previewed without being downloaded or executed.

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ZEXTRAS CARBONIO
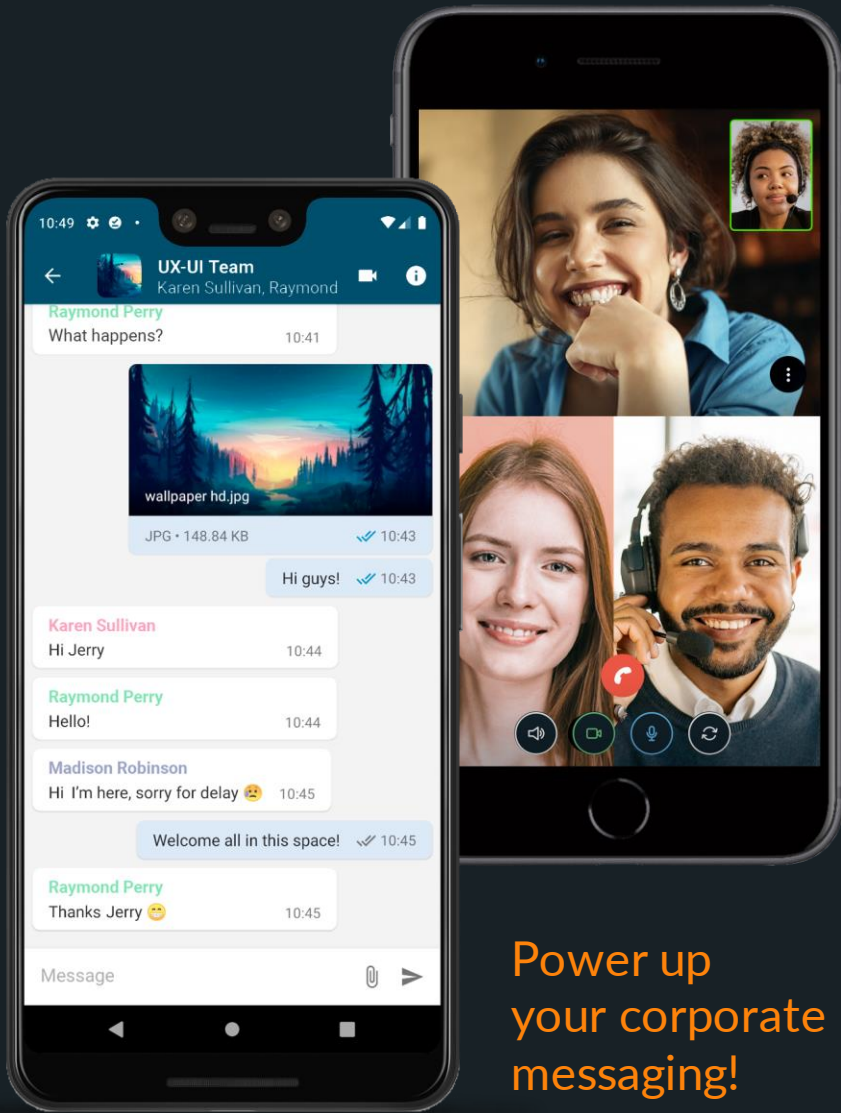
File Management

Collaborative Co-editing / Real time co-editing

Native Mobile Apps

Chats and Groups

Scalable Video Meetings

ZEXTRAS

Text and video chats

1:1 and Group Chats

Create both chats and video chats with multiple members and have everyone take part in discussions.

Video Meetings

Ideal for seamless communication, whether it's for short user-to-user calls or extensive video conferences involving external participants.

Power up
your corporate
messaging!

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Meeting Rooms

Video Meeting
When e-mails and chats are not enough, make a video meeting. Thanks to Carbonio scalable video server, you don't have to worry about network downtime.

Waiting room
Moderators choose who can participate in the meeting through a list of requests by the users in the waiting room.

External Users
External users can be invited to the meetings.
They will get the invitation through an e-mail.
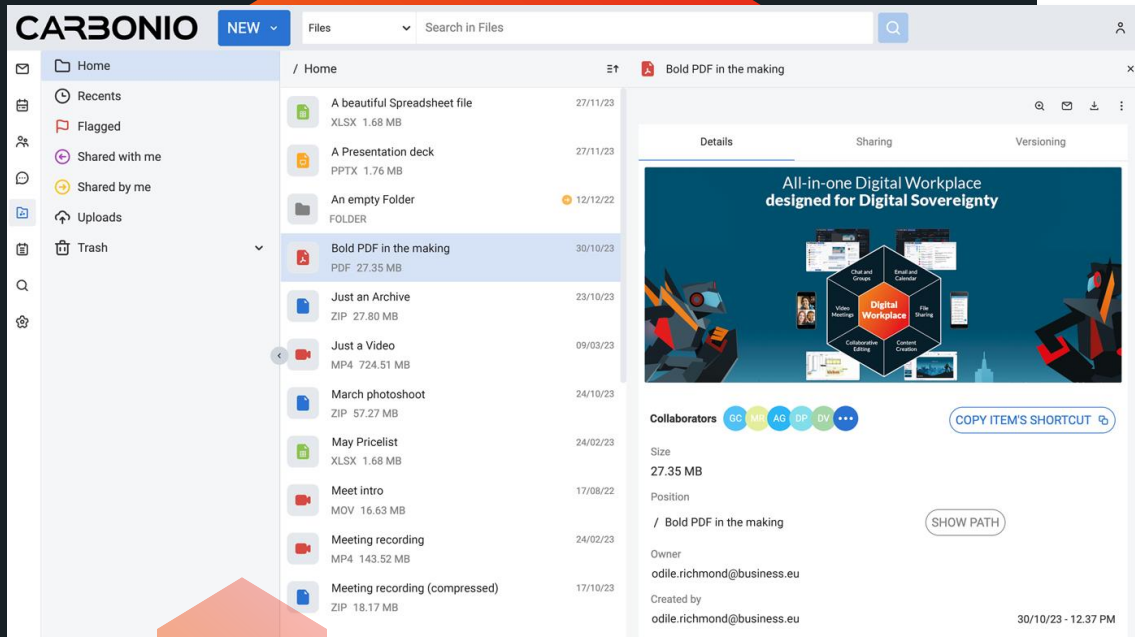
Meeting recording
After a meeting, the recording will be available to the moderator in the Files folder. Only room moderators can start the recording and participants are immediately notified.

Communication
on a whole new level

Manage your files effectively

File Management

- A **personal archive** to manage, browse, upload, and download your files.

- **File versioning:** no need to keep track of changes.

- **Private** and **Shared folders**.

- Internal and external **file sharing**.

- **Secure sharing** to protect documents with a password before sending them out.

- **Directly integrated** with your e-mails **attachments**
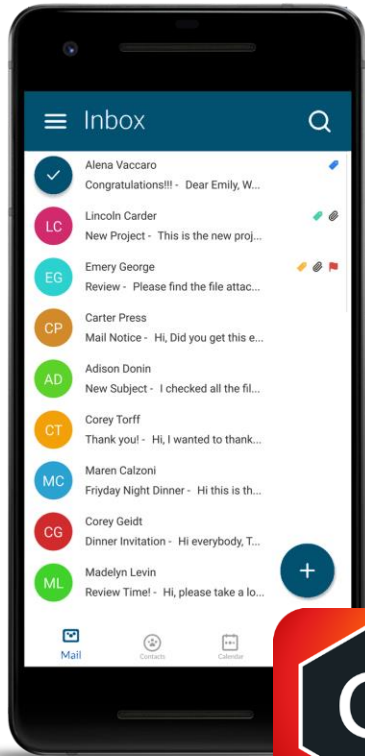
Collaborative Editing

- **Co-editing** features to modify your documents in real-time.

- Word processor, spreadsheet, presentation

- Multi-node **clusters** and **load balancer** capable.

Working together remotely, made easy
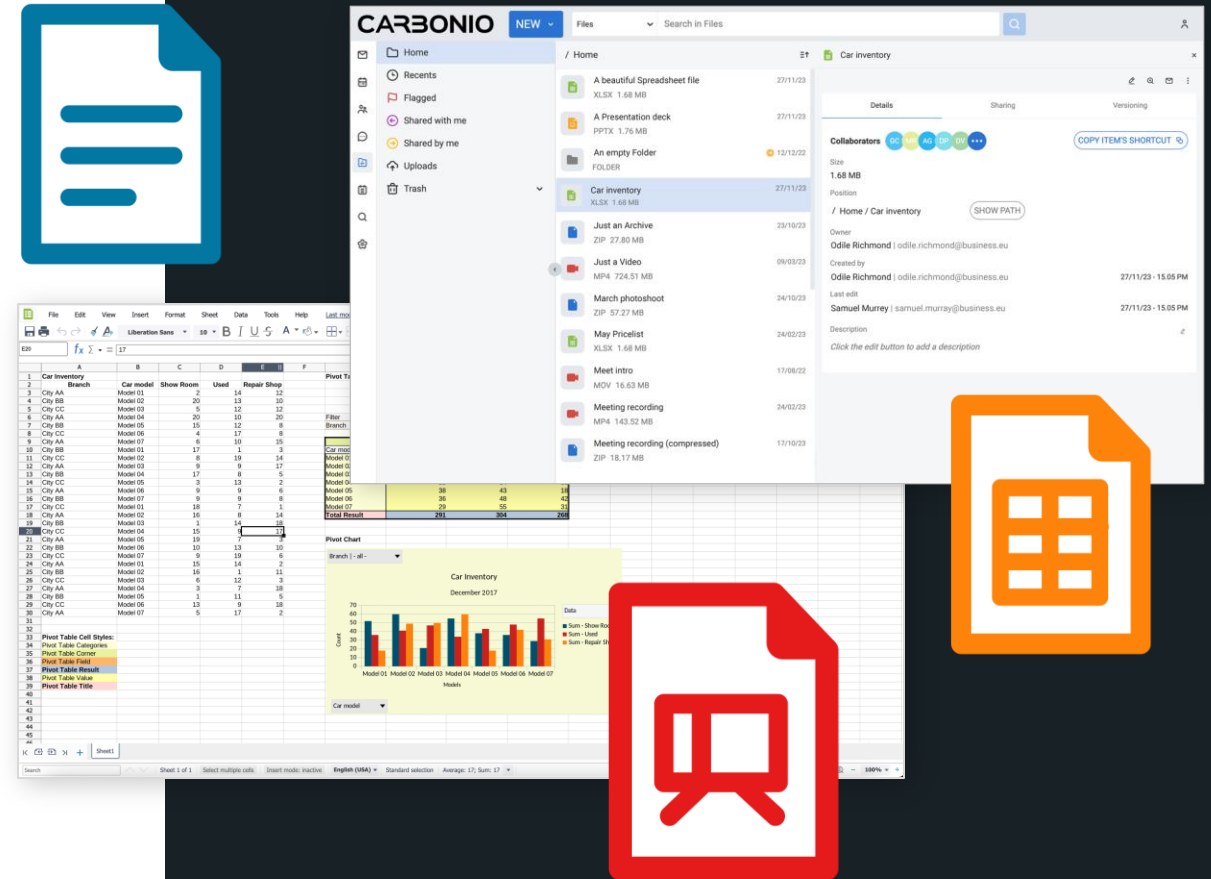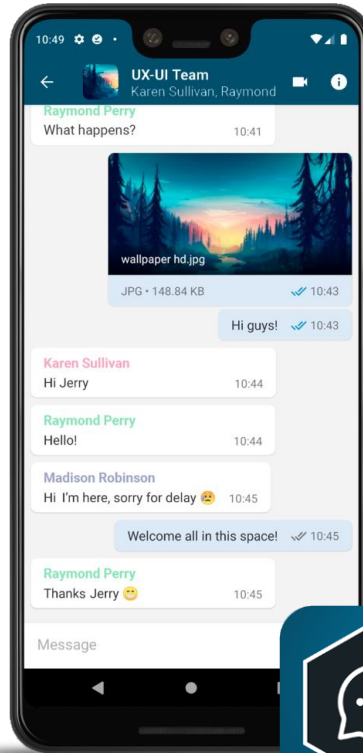
Native Mobile Apps

Communicate on the move, from iOS
and Android smartphones and tablets

MAIL

Manage **multiple identities** in one app.

All your mails, contacts and appointments in one place.
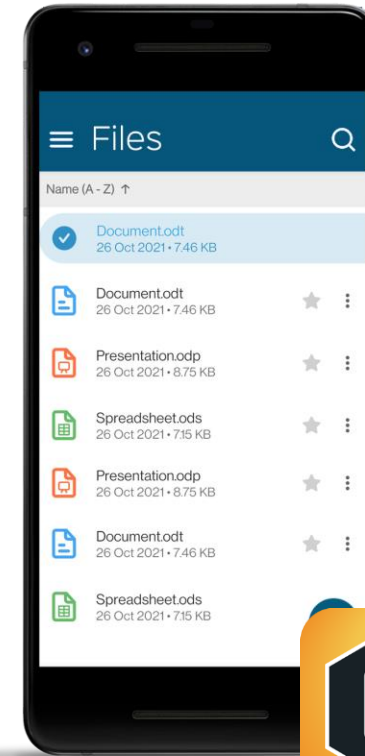
CHATS

Access all your chats

1 to 1 and Group video calls

Meeting rooms

FILES

Your files are always with you

Document preview for all kinds of files

Advanced Storage Manager
Save up space, increase your ROI

OPTIMIZE YOUR
RESOURCES

Multi-tiering capabilities

Object storage support

Compression and **Deduplication**

OPTIMIZE YOUR
PERFORMANCE

Hierarchical Storage Management
Automatically move **less frequently accessed data** to the **slower** storage device.

Flexible Storage Integration
Choose between **object storage, block storage or a hybrid** of the two to configure your infrastructure based on your needs.

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Scalability

Carbonio can **scale up** when you need.

- Vertically (scale-up storage on the fly)

- Horizontally (scale-out nodes on the fly).

Balance resources by moving accounts across different nodes.

Grow your business without upfront costs

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Object Storages - On Premise / On Cloud

Add and remove storage capacity on the fly.

No downtime.

Use **object storage buckets** from any vendor as storage units for your server on premise. Choose a generic connector or a vendor' specific connector, such as:

1. Amazon
2. Scality
3. Yandex
4. Alibaba
5. Swift

6. EMC
7. Cloudian
8. Ceph
9. OpenIO
10. Any S3 compatible storage

ZEXTRAS

Real Time Backup and Restore

- **Real-time backup** that decreases the RPO and prevents losing any data.

- Five restore modes, from a **single item** to the **whole infrastructure**.

- **Disaster recovery** made simple with the real-time backup.

- Support for backup on **external storage** devices not to worry about how much space is left.

- **Space savings** up to 50% with automatic file compression.

- Data protections regulations **compliant**

ZEXTRAS

Backup

Geo-redundant

Copy the complete backup path to a selected secondary path. This will allow you to have a copy of the backup as it was at the start of the Export operation that can be stored in a safe location outside the infrastructure.

Space Saving

Zextras Carbonio reduces the backup size using space optimizations. The space used by backup files is reduced by more than 50% compared to other products.

ZEXTRAS

Backup

External path

Any S3 bucket can be configured to set the backup path on an S3 bucket. No need for provisioning of the space with situations where you either pay a lot for unused space or you don't have enough space to save the backup.

SmartScan

Run manually or schedule for daily scans to find inconsistencies and corrupted files. When these files are discovered, they will be moved to a dedicated folder in the backup path. At the same time, the correct file will be substituted for the corrupted file.

Retention
Data retention is the period of time you want to keep the data in the backup. Carbonio allows to configure the retention, up to "infinitive". Everything older will be deleted automatically so there would be no space used by old useless files and data protection regulations are respected.

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Restore

Timespan

Recovers everything that falls inside a timespan by indicating a starting and ending date for a specific account. This can be done in the original folder or a dedicated folder.

Item

It is possible to pinpoint a single item, whether through a search based on the date or some information present inside the item, to be recovered to its original folder.

Account restore

An account can be restored into a new account maintaining the original one.

Undelete restore

Allows to restore all removed items from the Trash folder into the original mailbox within a given interval of time.

External source

Import a snapshot inside your system and recover everything as it was at the time the snapshot operation took place.

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High Availability

- An **Auto-Failover**

- **Active/Active** cluster

- **Granular control** per user

- **Heartbeat** with autoswitch

- Support for **multiple replicas**

Never going
to let you down!

ZEXTRAS

25

High Availability

Application approach

Carbonio HA uses the **application approach**. Its smart nature extensively improves the availability of servers, which is also considered **more economical** compared to other methods.

Geographical distribution

There **is no restriction** on the geographical distribution of nodes. The infrastructure can be scattered in different physical networks e.g. one server **in Paris** and another **in London**.

Speed

Carbonio HA uses a **bus shared between nodes**. It works **extremely fast** thanks to the memory map structure.

Replication Technology

Using the replication even losing half of the servers won't impact the availability of the infrastructure.

Heartbeat Technology

A component that constantly monitors how fast the server replies based on the CPU or memory loads.

ZEXTRAS

Secure Authentication

Multiple authentication methods
allow you to secure the activities
on the platform and mobile apps.

- SAML

- Two Factor Authentication

- QR auth for mobile apps

- Active directory / LDAP Support

- PreAuth Support

ZEXTRAS

Two Factor Authentication

******

- Based on **TOTP (Time-based One-time Passwords)**

- Use a **secondary device (iOS or Android)** and **any Authenticator App** supporting TOTP to authenticate your logins.

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SAML

- **Domain level** SAML authentication to configure different endpoints for different domains

- SAML authentication supports both **Identity Provider** Initiated **and Service Provider Initiated** SAML authentications.

- You can **use any SSO provider**, configuring metadata.

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QR code

- You can **easily authenticate on the Mobile Apps** by **scanning your QR code once.**

- A QR code is generated so that users can easily **scan it by any Authentication App** of their choice to be used for accessing their account through 2FA.

Multi tenancy

Carbonio can handle multi-tenant environment: Scale and easily delegate admin rights, remaining in control of all tenants.

- Easy granular **right management** for platform's admins.

- Choose **how many admins** your platform must have.

- **Increase or decrease** the number of admins when you need to.

- **Assign granular rights** to each admin, according to their specific role.

Delegate
while keeping control!

ZEXTRAS

ActiveSync

MOBILE DEVICES

OUTLOOK

Your data at your fingertips, wherever you go:

- **E-mails, contacts, calendars**

- **Files, attachments, shared items**

- **Live messaging, conversation history**

Through your smartphone using native apps for Android and iOS.

Sync your webmail with Outlook for Windows and Windows Mail App.

No Outlook connector is needed.

Access the global address book to find your colleagues' e-mail addresses in the general contacts tree.

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ActiveSync

- Synchronization through the **EAS protocol** (Microsoft Outlook or **any other client supporting the protocol**).

- The **only** solution that allows you to **synchronize the shared items** (folders, contacts, calendars) through the EAS protocol.

- Mobile Device Management with **remote wiping** and **application control.**

- Create **Allow/Block/Quarantine** policies and **customize** the ABQ **messages** sent to the account for different locales through their devices.

- Create a **log of all the operations** an account performed.

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White-label

Carbonio is fully white-labeled, by design: make it truly yours with **your logo and brand colors.**

Customizable login page: insert your logo, choose the colors and the background image you want.
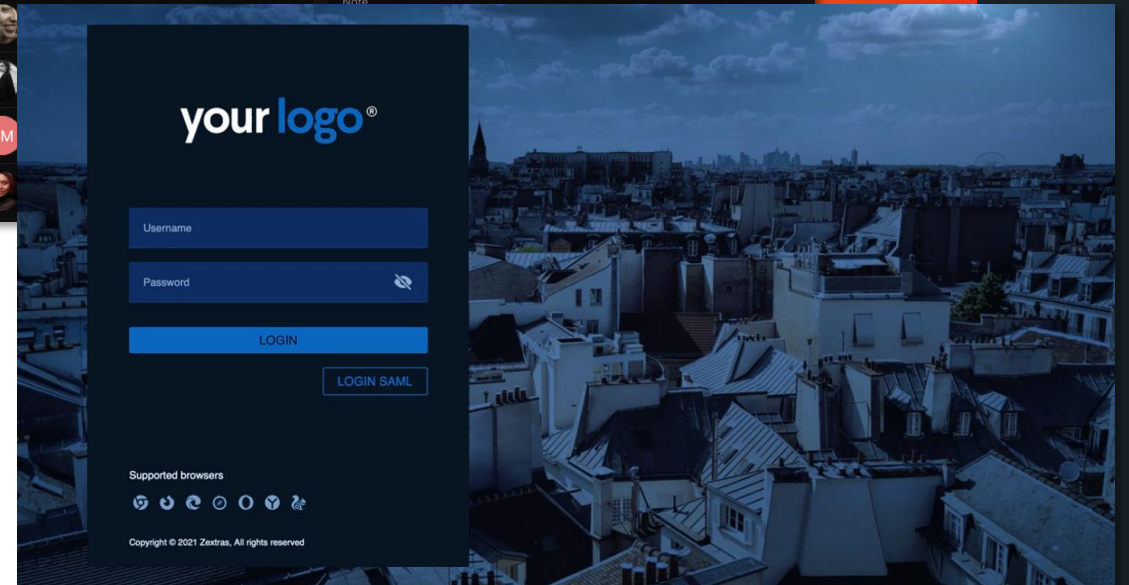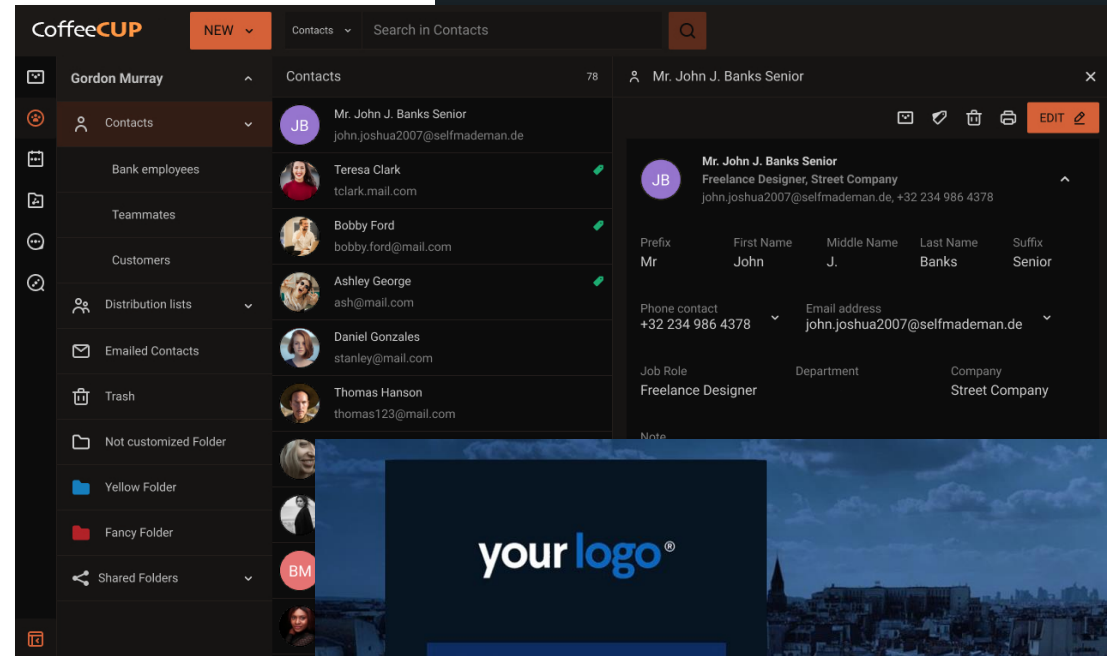
Highly customizable interface

ZEXTRAS

Designed for Privacy

- **Data sovereignty** - You choose where to deploy Carbonio and store your data.

- **Control** – The Data Controller is enabled to make controls required by data protection laws.

- **Right to be forgotten** – You can delete specific data, also from the backup

- **Flexibility** - Admins can manage granular privacy settings

- **Anti lock-in** - Data is saved in *open format*, so that system admins can easily access autonomously.

Excellent for
Regulated Enterprises & Public Sector

Ideal for organizations that want/ have to keep control on their data due to

- Sensitive data processing

- National regulations

- Industry-related regulations

ZEXTRAS

Excellent for
MSPs, Service providers

Providers can create their own SaaS digital workplace for companies that need data sovereignty. They can offer:

- Flexiblility

- Scalability

- CapEx to OpEx

- Simplified operations

- White–label / Multitenancy

- Digital Workplace features

ZEXTRAS

How you can get Carbonio

Carbonio is an open-core product based on Carbonio Community Edition.

Technical Customer Service always included.

24/7 technical support

Licensing is adaptable to fit your needs:

- Choose the best configuration for each license
- Change it as you want
- Flexible calculation and payment
- Flexible length

- Professional Services, up to fully managed service
- Specific support on *your* infrastructure
- Deployment
- Migrations

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