PORTIMA USE CASE: REDUCE COSTS AND INCREASE EFFICIENCY WITH ECM PRIVATE CLOUD & RED HAT CEPH STORAGE

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About Portima

Portima is an IT company that develops an environment in which enables direct communication between insurers and brokers. Specifically, it facilitates the paperless exchange of contracts and contractual changes conducting business quickly and securely.

AFFILIATED COMPANIES

- Aedes
- Aedes Vlaanderen
- AG Insurance Belgium
- Allianz Belgium
- Alpha Insurance
- Amlin Europe
- Arag
- Arces
- Axa Belgium
- Baloise Insurance
- DAS
- Delta Lloyd Life
- Euromex
- Fidea
- Foyer
- Generali Belgium
- Jean Verheyen
- L'Ardenne Prévoyante
- Piette & Partners
- P&V Assurances
About Portima

- 3 Server Centers
- 10 Business Solutions
- +1,92M transactions
- 4000 brokers (12,000 users) -> 3000 Concurrent

- 63M messages emitted by companies to brokers, with 9,93M files attached.
- Brio more than 233M Documents Stored
- 96,8% RT*<1s
- BRIO4YOU Uptime 99,83%.
- Network Services Uptime 99,97%.
- *Response Time
Problem

- High number of Information Replication and dispersion of content replicas in Portima Systems.
- Costly storage with existing proprietary solutions.
- No Video upload and streaming capability.
- Need for long term storage.
- Current proprietary systems becoming discontinued.
- No storage redundancy with the actual proprietary systems
Problem

File storage is growing 10x faster than block storage.

Structured Data vs Unstructured Data:
- Can be displayed in rows, columns, and relational databases
- Numbers, dates, and strings
- Estimated 20% of enterprise data (Gartner)
- Requires less storage
- Easier to manage and protect with legacy solutions

- Cannot be displayed in rows, columns, and relational databases
- Images, audio, video, word processing files, e-mails, spreadsheets
- Estimated 80% of enterprise data (Gartner)
- Requires more storage
- More difficult to manage and protect with legacy solutions
Problem

What’s Hiding in Your Unstructured Data?

Source: Graphic adapted from January 2018 CXPA Presentation “The Why Behind the What,” Jim Kitterman
Challenge

- Private Cloud Storage.
- Scalable and highly available Architecture that can scale to Peta-byte.
- High Resilience rate, long term storage and redundancy in order to grant Business Continuity with minimal or no service disruption.
  - Add and remove servers from the cluster, allowing the replacement of hardware without any downtime;
  - Easily Migration Strategy(Capability to migrate or update the system).
Challenge

• Use different technologies and integrate with cloud based solutions for backup and archiving
• Contents Segregation & Secure information Access.
  • Controlled Access with Audit Features (ACLs, Audit Trail).
• Attractive User Interfaces, Intelligent Organization.
• Capacity to script metadata changes in bulk mode.
• Transfer of large files to/from 3rd parties.
• Smart and agile content Findings.
SOLUTION OVERVIEW
Hosting Independent Architecture

Independent platform that will expose its services through an HTTP API and will not add any load to the BRIO platform regarding content management.

- Public Interface.
- Brio Network Independent.
- Hosting Independent.
SOLUTION OVERVIEW

High Level Architecture

PORTIMA CLOUD STORAGE PLATFORM

Smaller, independent, and loosely coupled modules. Individual modules are responsible for highly defined and discrete tasks and communicate with other modules through simple, universally accessible APIs.

Couchbase
Content Metadata database, REST API, Full-Text Search (FTS), N1QL (SQL-based queries). High availability and disaster recovery.

RED HAT STORAGE
Content Storage, massively scalable, data analytics, media repositories, and backup and restore systems. Multiple language integration SDKs, unified storage (object, block, file).

RabbitMQ
Asynchronously connect services using message-based conversation patterns. Message-based communication is a reliable and scalable way to implement a service oriented architecture.

Users/ Brokers upload and stream Content into/from the platform.

Users

REST API

RPL Call

Syone

powered by Syone

supported by Caixa Mágica
SOLUTION OVERVIEW
Physical Architecture
Achievements

Architectural

- Decoupling
- Scalability
- Resilience
- Security
- Open and Service Oriented Architecture

Cost Reduction

- Reduce Content Dispersion
- Open Source Technologies
- Integrated platform for content sharing
- More Green and Paperless Office

Business Continuity

- Storage redundancy
- High Availability
- Disaster Recovery and Backup

powered by syone
Product Features

Document Indexing
- Documents Indexing
- Custom Automatic Document Numbering
- Content recognition and indexing
- Indexing Meta Data
- Supports innumerable formats
- Extendable meta data fields

Document Search
- Document content and meta data search
- Advanced search on all document attributes
- Scalable Document Search Engine
Product Features

Workflow Automation

- Rule based processing on incoming documents
- Setup individual rules and document actions
- Automatic and Manual workflow
- Document Routing
- Configure multi-level approvals
Product Features

Security

- Audit Trail
- User and Roles
- Advanced Access rights
- Encrypted Documents on file system
- Control repository access and improve compliance through fine-grained authentication, authorization, and auditing.
Product Features

User Interfaces

- Workflow Inbox
- Document inbox
- Intelligent Content Organization.
- Alerts and Notifications
- Reporting Dashboard
- Follow-ups and Chat
- Inbuilt Calendar, Email, SMS
- Operations Team Dashboards, monitoring and system health for Business Continuity.
Product Features

- Scanner
- Email
- Manual Upload
- Bulk Upload
- Automated Process for Mass Uploading
- Mobile Applications
- Web Services

Business Continuity:
- Robust, scalable, fault-tolerant, and extensible architecture to manage and control all your information content.
- Disaster Recovery and Backup.
Added Value

Knowledge Graph

Structured Data

Unstructured Data
Product RoadMap

2019
• Content Indexing & Full Text Search
• Third-Party Authentication Services
• GDPR Compliance
• MOREQ2010 Certified
• Content Encryption

2020
• Workflows Creation and Configuration.
• Image Processing and analysis
• Content Mining

2021
• Email Providers Integration(Capture emails and attachments)
• AI Decision Support
THANK YOU!