

INFRASTRUCTURE

Optimal information lifecycle management

Comarch Backup, Archive and ILM Solutions



COMARCH

Introduction

In the reality of today's business, the most valuable company assets are not buildings, equipment or even the employees. Its computer data!

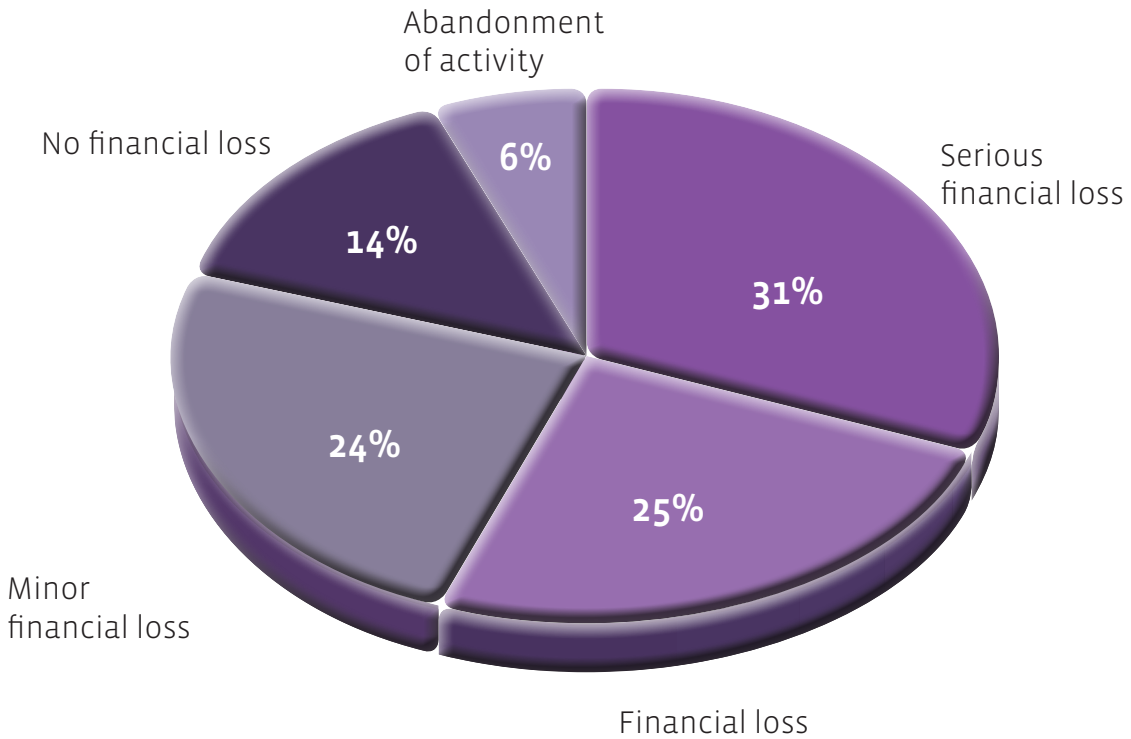
Every single computer and hard disk can malfunction, be damaged or stolen. Important files and data gathered within them can be irretrievably lost with no hope of getting them back. It is hard to imagine a loss of access to valuable data such as emails, software, finance, personnel, inventory, as well as project and customer databases information. For the business, the time and cost of retrieving lost data, combined with the cost of system stoppage can be too high. In an extreme case, if we lose key data, it can even lead to liquidation of the enterprise.

This is why it is worth maintaining the security of data, storing it safely, securing and archiving. **Comarch Backup, Archive and ILM Solutions** are modern solutions, which constitute a digital rescue for every company's critical data.

Challenges and possibilities

A loss of key business data - e.g. contacts to key customers, projects for new products, marketing campaigns - can have disastrous results for the enterprise. The factors causing loss of data can originate from various sources and have various forms:

- Hard disk failure
- Flooding of the building
- Installation short-circuit
- Theft
- Fire
- Accidental removal
- Electronic crime
- Computer viruses
- Software errors
- Absence of employee loyalty



Consequences of data loss for an enterprise

Why backup, archiving and ILM?

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BACKUP

It is a method of protecting computer data through simultaneous creation of security copies on dedicated external large capacity carriers. A security copy enables the retrieving of information from the period prior to the failure's occurrence.

ARCHIVING

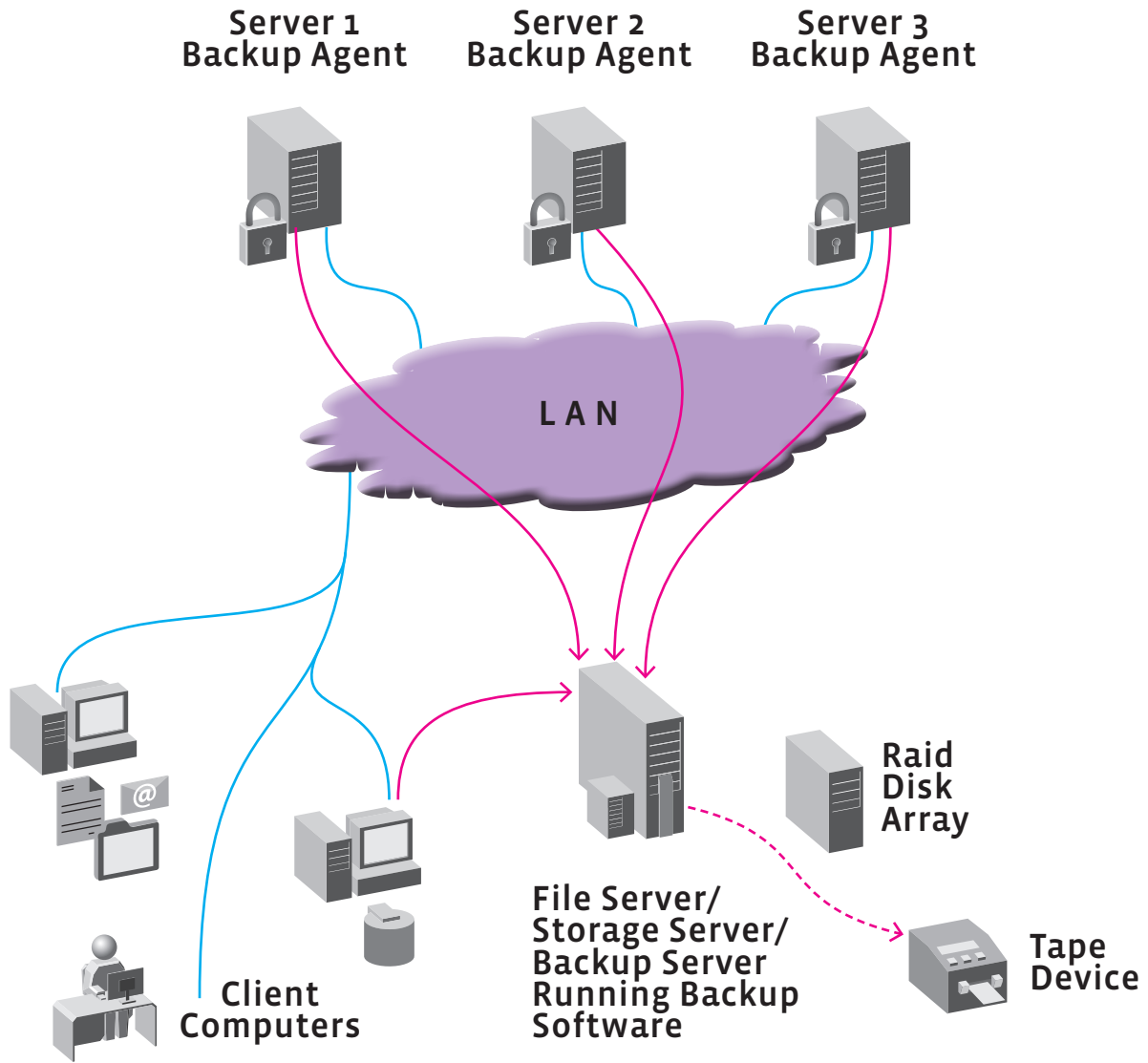
It is a process of data stratification into active, inactive and reference data and transferring appropriate data to the correct storage places. Access to data divided in such a way should vary, according to its business usefulness, e.g. transactional data will have a short access duration and historical data - a long one.

ILM (Information Lifecycle Management)

It is a combination of technology, services and many other elements, which enable information lifecycle management. This means looking at the value of data from a business perspective - its management in time according to its value for the enterprise.

Tomorrow may be too late to duplicate key data

Przykładowy schemat backupu



A confidential data leak represents an average expense of \$ 268 000 accounting solely for legally sanctioned customer notifications of this fact.

Where should backup be provided?

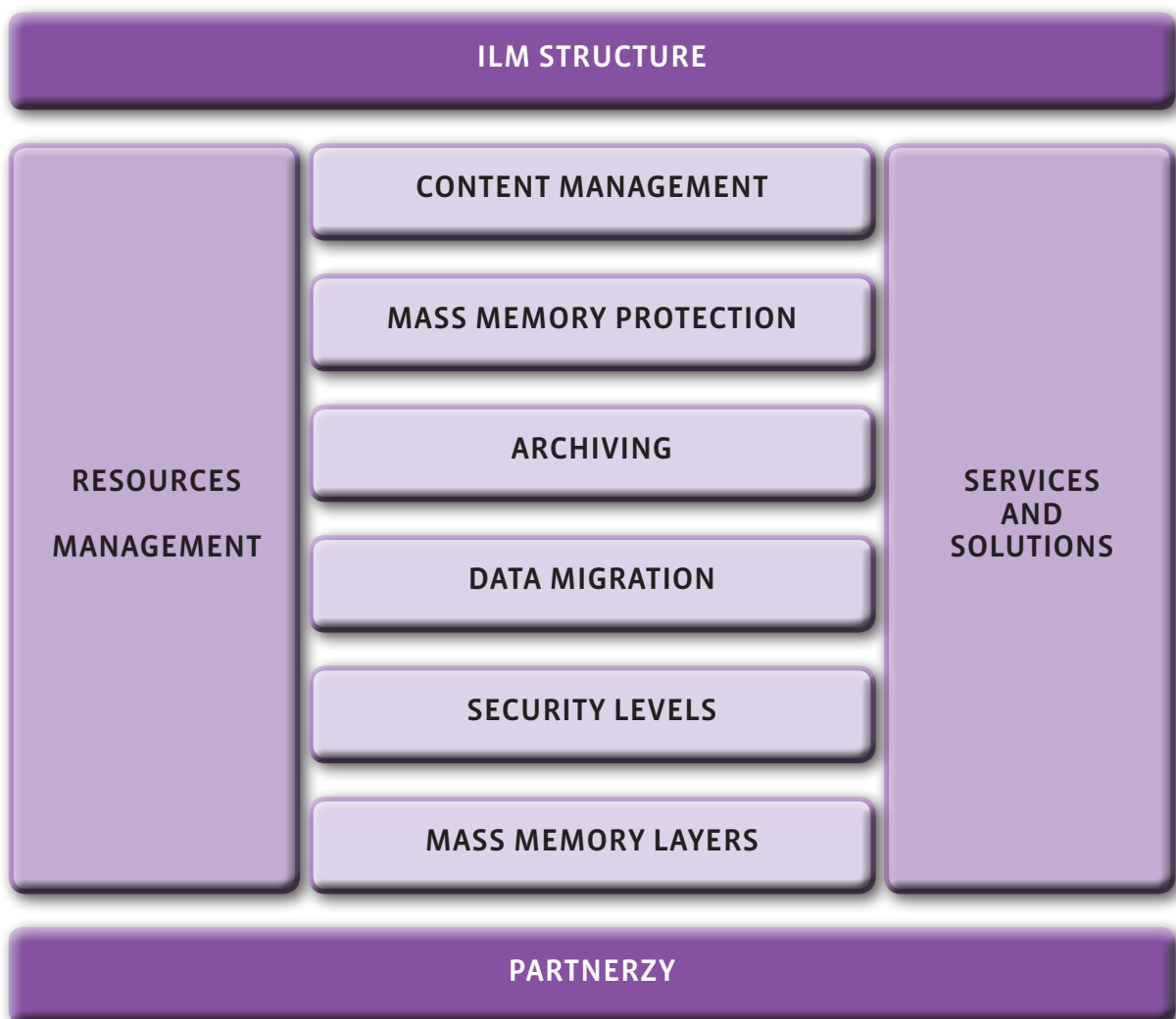
System

- Applications
- System files
- Scripts
- Customers' accounts

Data

- Documents
- Files
- Databases
- Everything

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Learn from the data failures that happen to other people.
You can prevent them.

Business and Operational Benefits

Comarch, as an experienced integrator of IT systems that has been active on the Polish market for many years, guarantees your company:

SECURITY	<ul style="list-style-type: none">• A higher level of data security• Full data security in single server networks and multiple server networks
SAVINGS	<ul style="list-style-type: none">• TCO minimization• Low exploitation costs• Management of a larger amount of data while involving fewer employees.• Lowering the cost of IT infrastructure through avoidance of the need to purchase additional hardware supplies• Reducing the time necessary to restore the system
RELIABILITY	<ul style="list-style-type: none">• High reliability of process conduct• Guarantee of uninterrupted backup and archiving systems
AVAILABILITY	<ul style="list-style-type: none">• Easy information management• Automated solutions requiring minimal supervision from their users• Decrease in the duration time of access to necessary data
INTEGRITY	<ul style="list-style-type: none">• Solutions which are in accordance with legal regulations concerning the time, method and location of data storage• Simple integration with existing business processes• Integration of backup and archiving solutions in one environment

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With the right backup software and technical knowledge, you can easily duplicate your valuable security data.

Solution/ service specification

Security solutions for data loss prevention as well as long-term data storage are offered as part of **Comarch Backup, Archive and ILM Solutions**. Designing and implementing of advanced ILM (In-formation Lifecycle Management) and HSM (Hierarchical Storage Management) class solutions. You receive full range of comprehensive services:

- **Sizing and selection of components, hardware and software solutions, functional modules**

Comarch's certified and experienced consultants and engineers design backup system solutions for an existing infrastructure or for an infrastructure under construction, but above all, for the business services delivered with the use of this infrastructure. The solution is optimized individually for every customer, taking into account reliability, retrieval time, number of applications, amount of data, and backup windows

- **Integration with business applications and hardware infrastructure**

Adjusting the backup system to a customer's infrastructure and applications is guaranteed. A qualified engineer will carry out the selection of licenses, installation & configuration of customer software, configuration of business applications and configuration of the backup system.

- **Elaboration of backup procedures for COMARCH's own applications**

The customer has a guarantee that the procedures of copying and restoring data, duration, number, and the sequence of backup windows for individual systems will be elaborated comprehensively. Optimal

management of data carriers and their storage time is guaranteed.

- **Backup and archiving systems projects**

The systems are built on the basis of hardware delivered by Hewlett Packard, IBM, Seagate, TorageTek, Tandberg, Overland, Sun Microsystems, Fujitsu Siemens, Compaq, Sony, Brocade, and software produced by Veritas Netbackup and Backup Exec, Legato Networker, Computer Associates, HP Omniback or on the basis of the company's appropriate backup system.

- **Audits of existing systems**

Detailed efficiency audits, cost audits and security audits are carried out. The implementation of those solutions enables extensive savings, an improvement in efficiency of the systems and therefore an acceleration of processes in the company. Furthermore, they contribute to the improved security of the systems and as a result – the security of the company's strategic data.

- **Consulting, training and maintenance services**

As part of the service, Comarch assures guaranteed response times, repairs and restoring the efficiency of the systems. You will be provided with comprehensive support as far as assistance, diagnostic testing and remote or on-site repairs are concerned. Assistance services are delivered 24h a day, 7 days a week, 365 days' a year.

The suggested solutions and services meet the strict legal and formal requirements within the scope of archiving and storage of data in all institutions.

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Comarch Backup, Archive and ILM Solutions prevent the loss of valuable data, guarantee secure and long-term data storage and optimal information lifecycle management.

Comarch SA has a quality assurance certificate covering:

- All IT services delivered
- Product trading in IT services, including those of dual purpose with adherence to Internal Audit System criteria.
- Operations aimed at the maintenance of confidential information

Archiving and backup systems are created by Comarch as security devices protecting the customer's IT systems from a possible failure. The archiving method in use depends on the specificity of a concrete system and on the needs resulting from the type of business conducted.

Archiving and backup can be part of the outsourcing services package provided by Comarch, in which case the customer sections off a certain aspect of their enterprise activity and passes them on to Comarch. In this case, this is the guarantee of customer IT systems security in the event of a failure. Outsourcing is an excellent method for raising the quality, optimizing the activity and transferring the risk related to the functioning of the IT area onto a professional external company. It makes it possible to reduce the costs related to the maintenance of the company's own IT resources.

Back up your critical data

Automate the process

Protect your security duplicates

Control your work while creating the duplicates

Uppdate your security duplicates frequently

Store your old substitute duplicates

Prepare a backup strategy

Comarch's partners in data storage



Comarch

Comarch is the leading provider of IT business solutions in Central Europe, which comprehensively supports customer relationships and optimizes operational activity and business processes. The specialist knowledge, which we pass on to our customers in the form of integrated IT systems in the telecommunications, finance services, public administration and SME sectors are the chief asset of the company. Comarch specializes in ERP, CRM, sales support, Electronic Document interchange and knowledge management systems, which are sup-

ported by comprehensive, professional services and advanced R&D activity. From the moment of its foundation 15 years ago, Comarch developed into an international network employing over 3000 senior specialists, in Europe, USA and in the Middle East. Comarch customers include the world's largest corporations and over 40,000 small and medium sized enterprises in Poland.

The benefits of cooperation with Comarch

Professionalism – highly qualified engineering and managerial personnel

Experience – we have been active on the market for 15 years, we have over 2000 customers in telecommunications, finance and banking, industry, trade and services and public administration and 40 000 among small and medium sized enterprises.

Stability – we are a stable company active globally.

Knowledge – we are a partner of the largest IT providers in the world, such as: Sun Microsystems, Hewlett-Packard, IBM, Cisco Systems, Check Point, Juniper Networks, Siemens, Avaya, 3Com Corporation etc.

Development – continuous monitoring of the IT market, solutions, costs, trends

Contact details

In case you are interested in the offer or have any questions, please contact us on itservic-es_consulting@comarch.com.

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Comarch is a leading Central European IT business solutions provider specializing in forging business relationships that maximize customer profitability while optimizing business and operational processes. Comarch's primary advantage lies in the vast domain of knowledge accumulated in and applied to our software products. These products incorporate highly sophisticated IT solutions for businesses in all vertical sectors. Comarch has a multinational network of offices employing over 3500 highly-experienced IT specialists in Europe, the Middle East and the Americas.

ComArch Spółka Akcyjna with its registered seat in Kraków at Aleja Jana Pawła II 39A, entered in the National Court Register kept by the District Court for Kraków-Sródmieście in Kraków, the 11th Commercial Division of the National Court Register under no. KRS 000057567. The share capital amounts to 7,960,596.00 zł. The share capital was fully paid, NIP 677-00-65-406

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