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What is
Identity
Management

1.
What is IM?

The paradigm shift that changes everything

The heart of the fourth industrial revolution

Identity Management combines the computerized automation processes of Industry 3.0 with the disruptive possibilities introduced by **Technology 4.0**

data and analytics   **cloud computing**   **machine learning**
artificial intelligence   **internet of things (IoT)** **cyber-physical systems**

This is an **epochal change** that leaves no sector unaffected.

NO IM, NO PARTY

Identity Identity Management is the **essential prerequisite** for any application of **Technology 4.0** to the industry.

2.
Why?

Data, the key to the future

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"The most valuable resource in the world is no longer oil, it is data."
(The Economist, 2017)

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The most valuable resource? 'Good' data

Not all data is 'good'. The **5Vs** characterize high-quality data:

- **VOLUME**
- **VARIETY**
- **VELOCITY**
- **VERACITY**
- **VALUE**

That is, it is essential to collect a large amount of diverse data in real-time and subject it to verification and strategic selection.

Identity Management, the assurance of the 5Vs

Identity Management is the **control center** that **enables the application of the 5Vs to your company's data**, wherever they are stored: in the cloud, physical environments, private servers (or a combination of the above).

3.
I already have data!

The era of *digital twins*

Why do I need additional data beyond what I already collect?

Data, Make it big
Your company collects and analyzes **only a minimal portion** of the data it could have access to. Thus, the first two Vs are already lost: volume and variety.

A 'digital twin'
The Technology 4.0 transforms your entire company into data: people, machinery, software, fleets, objects, devices, communication flows. Everything.

4.
How is the digital twin born?

The physical reality of your business transforms into data

Data collection

First and foremost, by being able to collect and organize **structured data** (those that can be easily inserted into a spreadsheet) and **unstructured data** (those that cannot be inserted into a spreadsheet, such as media, images, scans, etc.) from various diverse sources.

Digitalization

Secondly, by **digitizing what is not digital**. Through **sensors** and the Internet of Things (**IoT**) in Industry 4.0, all physical objects acquire a digital representation and become (and provide) data.

Tecnology 4.0

These 'digital twins' can be managed, interconnected, and integrated without volume limitations, with **maximum computational power**, and can communicate and interact in highly flexible and scalable ways.

5.
Why collect all this data?

A multitude of application fields

TO GROW

Big data and machine learning enable **advanced analytics** that directly translate into a **competitive advantage**.

From data to the future

Descriptive level

At the descriptive level, data signifies **waste elimination** and **real-time diagnostic** and **decision-making** processes, as you can visualize every minute activity of your company on an **interactive dashboard**.

Predictive level

The predictive level, developed based on **algorithms**, provides you with **insights** and indispensable **models** to create the future of your business in the form of highly **innovative strategies and applications**.

6.
Why is IM
a control center?

Security first and foremost

IM, the hearth of 4.0

The starting point for everything is the **4.0 infrastructures and architectures**. Building, managing, and protecting them necessarily involves activating processes of **authentication**, **authorization**, **and accounting**. That is, **Identity Management**.

Never without IM, in 3 steps

Authentication

Safely identify the machinery, object, person, device: **I want to know who you are**.

Authorization

Enables or denies selective access to data, applications, databases, physical locations: **I want to control what you can do**.

Accounting

Records every information transaction: operations, access, communications. **I want to have an accurate account** of every digital trace.

A powerful ecosystem for the future

The 4.0 infrastructure starts from here to create a secure, highly complex, interconnected, scalable, and real-time monitorable **digital ecosystem**.
Savings, competitiveness, and **efficiency** are just the initial benefits. The truly disruptive value of the 4.0 lies in opening up **a world of new possibilities** – operational, productive, managerial – fully tailored to your assets: **your company, but with superpowers.**

We can help you implement Identity Management in your company.

Call or write to us

+39 0464 076063
info@airpim.com

Thank you!

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