



Data Runs Deep in Every Organisation



It is at this time of year I need to complete my annual ISO 27001 compliance assessment, so it has led me down several rabbit holes into data definitions in the cloud and security sectors. This led me to think about words and phrases that are in common use, but do we really understand the differences?

However, sometimes data can be interpreted in different ways:

1. A database professional walks into a bar and joins 2 tables.
2. How much data can be stored in a glacier – a frost bite.
3. New data has claimed that only 51% of students left school with an acceptable grade in mathematics, safe to say I am part of the 32% who struggled with this.
4. What did the data say when it was drowning? I'm syncing.

A Lesson in Data Terminology



Interestingly, these have very distinct and different meanings.

- **Data Sovereignty** refers to the laws applicable to data because of the country in which it is physically located. The legal rights of data subjects (any individual whose personal information is being gathered, retained, or processed), and data protection requirements, depend on the location in which their data is stored. Accordingly, organisations will have different responsibilities for data in different geographical locations.
- **Data Localization** refers to a governmental policy that prohibits organisations from transferring data outside a specific location. It is a special case of data sovereignty.
- **Data Residency** is a decision by businesses to store data in a specific geographical location. Organisations might store data in a specific location to avoid legal requirements, take advantage of taxes, or for performance reasons. Once an organisation chooses a location for its data, it is subject to data sovereignty, which are the laws applicable in that region.

All this has an impact on your choice of cloud storage, especially when you have a hybrid cloud strategy. Each cloud deployment must adhere to separate, local legal requirements.

So, when considering where to store data, you need to understand where the data will be stored and the laws that apply in that location. Some useful pointers can be found [here](#).

Dipping into Data Lakes



Infor Tech TV is an interactive service provided by Infor for learning about Infor enterprise technologies with the topic of the day in this session being Data Fabric. This webinar explains the difference between Data Lakes, Data Fabric, and Data Warehouses.

Infor admitted that as frequently as they release software, they also release a whole raft of new names for things. When new functionality is introduced, the original name may not give a rich enough explanation, so data lake grew into data fabric which represents MORE. And Infor data warehouses remain an important part of the overall data strategy and should be used alongside data lakes, but they ring-fence specific data.

In the middle of all this, Infor offer ways to pull data from these data sources, (lakes, warehouses, and fabric) to extract and process the data downstream, and locally, with tools that integrate to BI to give actual insight instead of raw data. For those more technically minded this webinar digs far deeper into the storage and use of data: [HERE](#)

Some other useful resources that define the differences between data lakes, data warehouses, data fabric and other cloud data terms, in slightly less academic and technical terminology:

- [Data Fabric](#)
- [Data Lakes versus Data Warehouses](#)
- [More about Data Lakes](#)

And this [interview](#) with Joseph Pascarella and Massimo Capoccia discusses how Infor harnesses the power of data and AI.

Data Security Definitions



This article minces more words than are necessary into a research paper. Why use one word when a few sentences will do? It seeks to analyse and understand what data sovereignty really means.

In essence it drills down to ownership, control, and power. This can relate to an individual, a company, a location or even a country and becomes disputed when designing and architecting a system or solution.

Suffice to say, you need to be sure any contract into which you enter, (such as cloud storage), has this clearly defined, so that you retain control, ownership and the power to move, edit, and delete your own data, no matter where or how it is stored.

For the more high-brow of our readers – please see this [research paper](#)

Defining Industry 5.0 in Plain English



While we are discussing “meanings” let’s look at what the move from Industry 4.0 to 5.0 mean.

Industry 4.0 was all about integrating and connecting through IoT and smart automation. Now Industry 5.0 builds upon those fundamentals but focuses on being human-centric and sustainable, something unique in this day, and age of AI.

This [industry paper](#) canvassed some 360 manufacturing decision makers. It explores their challenges and progress to save costs, their efforts to adopt more efficient and resilient working practices and how they can support their employees whilst introducing sustainable policies.

This research found that skills shortage is still an issue:

An average of nearly four million people in the US left their jobs on a monthly basis, and a record number of job openings still remain in 2022

Technology adoption and usage is still being hampered by a lack of training:

Over half (55%) of companies are not investing in training in the use of new technologies.

Manufacturing 5.0 may be on the agenda but it’s not yet a reality:

79% say that less than 50% of their manufacturing process is currently powered by renewable energy.

For more details please refer to the report - Making way for Industry 5.0 [research report](#)

Upcoming Industry Events



- International Conference on Big Data & Data Analytics - 24-25 July 2023, Amsterdam, - [HERE](#)
- Works with Silicon Labs, Virtual Conference 22-23 Aug - [HERE](#)
- Gitex Global - Dubai 16-20th Oct - [HERE](#)
- International Conference on Advanced Manufacturing 2023 - Oct 30 to Nov 03, 2023 - [HERE](#)
- IoT Tech Expo Global 2023 - Thursday, Nov 30 & Friday, Dec 1, - [HERE](#)
- IEEE BigData 2023 Sorrento, Italy – 15-18th Dec - [HERE](#)

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