CASE STUDY

INDUSTRIAL SHIELDS

BENEFITS OF CLOUD STORAGE

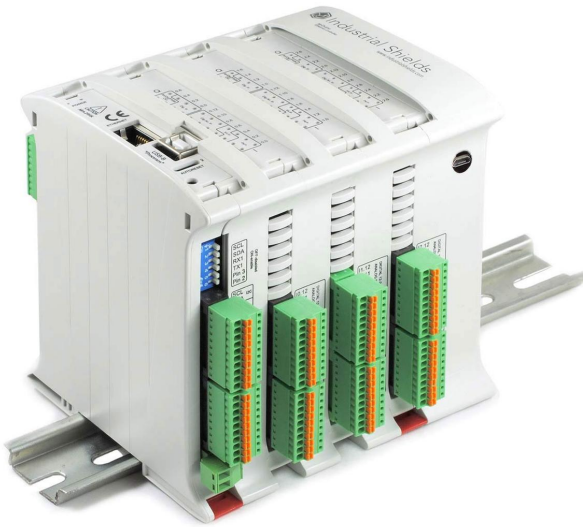
Industries, abundant but still certainly rudimentary, are going to become part of a large ecosystem that must communicate, something that we already see in the rest of the sectors but that we still see resistance in this one.

SUMMARY

The Industrial Cloud will be one of the main elements of what is already known as the fourth revolution, which is the one that will completely change the way of managing data thanks, in part, to the standardization of the Internet of Things and the hybridization of elements of reality.

This virtual space works by hiring certain services, each one that you need, that will allow you to manage your information and store it securely on the servers. You will have access through the use of the Internet, to different softwares, which will be the ones we use to modify our files, share them and store them safely.

At the same time, being in the Cloud, you can configure which user will be able to access, alter and edit a certain document. In this sense, it is also possible to protect confidential data with user control.



The main benefits of the cloud storage are:

- The reduction of obstacles and barriers.
- A considerable economic saving.
- Increase in the speed of information transmission, one of the main current problems in the industry.
- Compatibility with the specific demand that different industrial companies may have.
- The information remains secure, being practically inviolable.

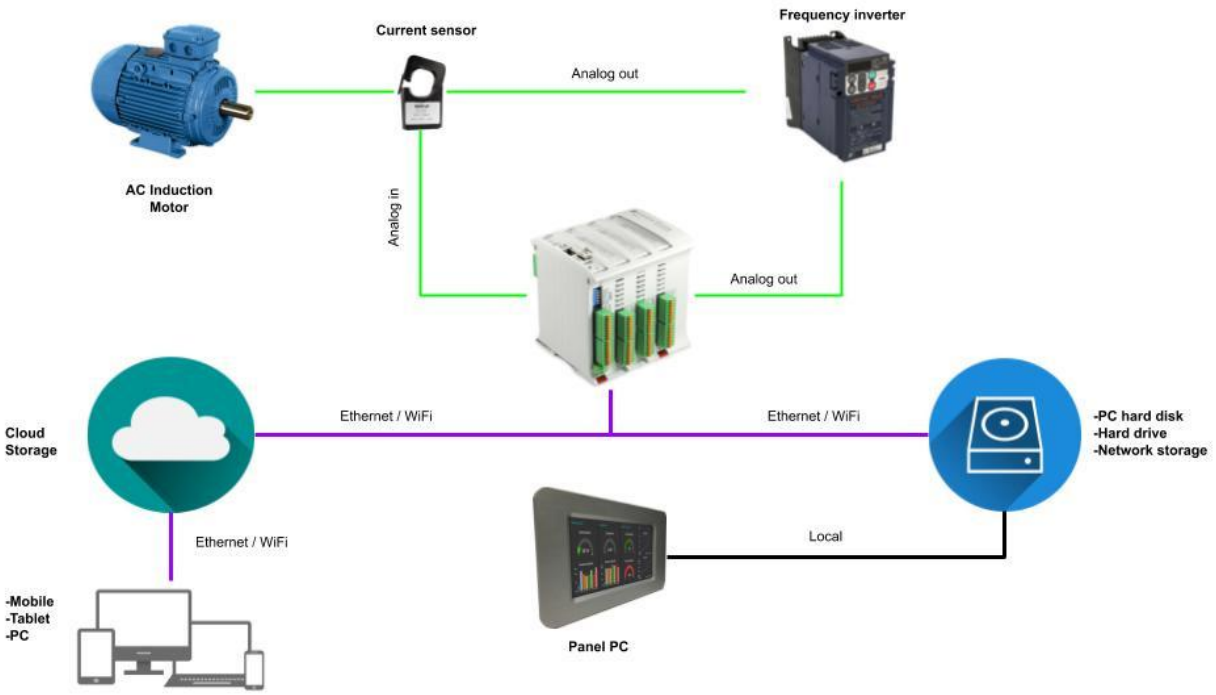
CASE STUDY

GOAL

The objective of this study is to design a system which have multiple data inputs from industrial machinery or user information which have to deal with that and process all the data to store it locally in devices such as PC hard disks, hard drive or network storage and for, after that, monitor this in a PC Panel. Another and the main option is to store all the information in the cloud, to be able to consult it anytime thorugh devices like PC, tablets or mobile phones.

CONCLUSION (HARDWARE)

This system is composed by a PLC, which is the brain in charge to manage the inputs from all the industrial machines and the data input from a users manager interface and its appropriate database. It also have the control over several outputs, whether they are analog, digital or relay, used to control more machines or devices. After that, all this information have to be stored here, two paths open; on the one hand, the data can be stored locally in physical devices such as the previously said and can be managed through a Panel PC. Or, on the other hand, it can be stored in the cloud with the objective to be accessed anywhere using all kind of compatible devices. Both PLC connections, the cloud and the local, are made by Ethernet cable or WiFi, depending on the final preferences and on the spects of the selected PLC. Having two kind of copies of the information is always a good idea; a local one to ensure that the original data is reliable and unchanged, and a cloud one to provide security and a wide range of accessibility.



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