



Ansaldo Energia protects its ecosystem

2019

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THE FUTURE

The multinational company has chosen Kaspersky as a strategic partner to secure plants, machinery and the industrial chain on its digital transformation journey.

Ansaldo Energia operates in the power generation sector, developing its technologies in alignment to the digitization, decarbonization and decentralization main trends.



Energy, Oil and Gas

- Headquartered in Genoa, Italy
- Has plants, projects and customers all over the world

With over 4,000 employees, 2,500 of whom are in Italy, Ansaldo Energia is one of the leading international players in the power generation sector. Its position is unique because it adopts an integrated model that includes the construction of turnkey power plants, the supply of equipment (gas and steam turbines, generators and microturbines) and the provision of services (management support and maintenance), as well as activities in the fields of nuclear power and frontier research.

Challenge

When it comes to IT security, Ansaldo Energia has partnered with Kaspersky since 2013. The company protects all endpoints with the most innovative technologies, including the Kaspersky Endpoint Detection and Response (EDR) reactive component, now applied to over 5,000 distributed and centralized nodes.

Looking ahead, however, data and equipment protection is becoming much broader and more strategic, due to the convergence between the worlds of IT and OT (Operational Technology i.e. everything concerning the world of production plants), also made possible through the application of IoT technologies.

“In recent years, there have been some important moments that have changed the course of the history of Ansaldo Energia,” explains Luca Manuelli, CDO of Ansaldo Energia. “The joint venture with Shanghai Electric, which opened up the Chinese market to our company, and then the acquisition of the Alstom large turbine business unit. But the most significant change factor is the digital transformation journey we embarked upon a few years ago. A journey which, for us, among other things, means adopting smart machinery, connecting production plants and, in the near future, introducing innovative processes such as predictive maintenance. These are important steps that give us a boost in terms of efficiency and competitiveness, but at the same time open up numerous questions when it comes to cybersecurity.”

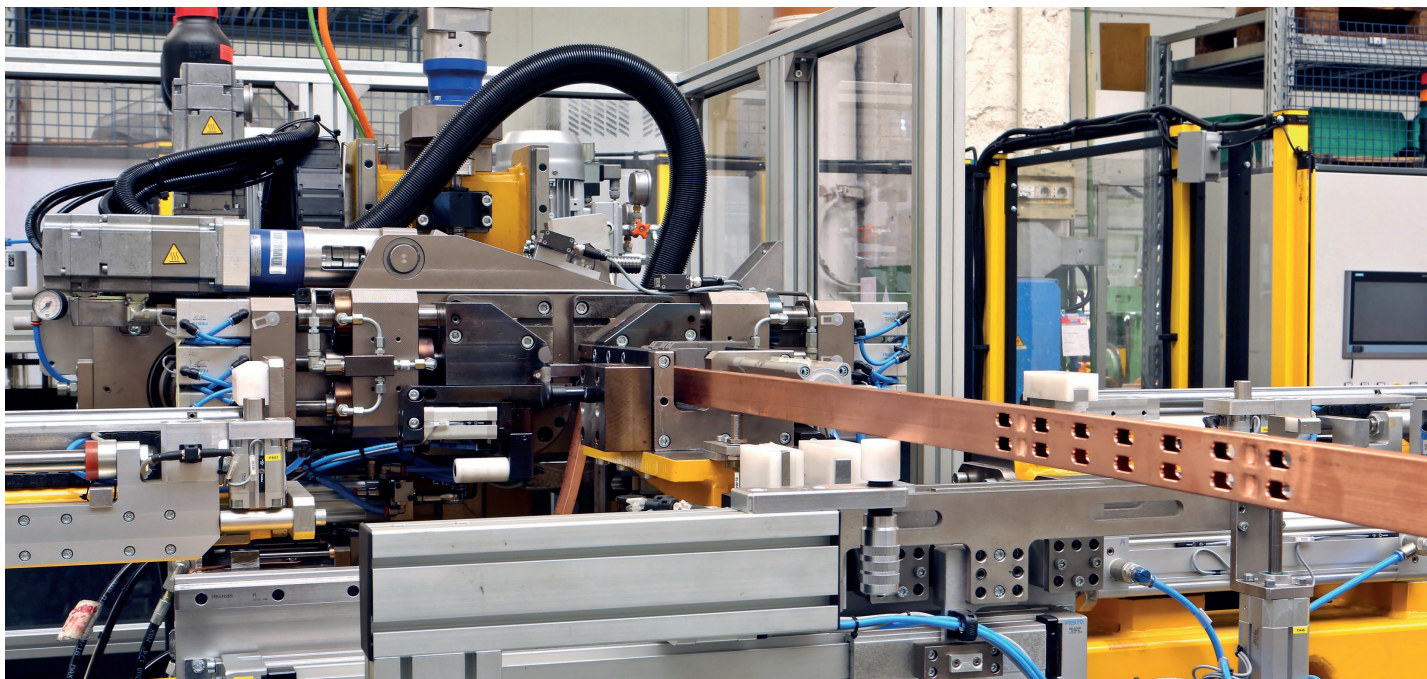
The Kaspersky solution

For Ansaldo Energia, the issue of cybersecurity is particularly complex, because its business model envisages close collaboration with the supply chain (for example suppliers of parts for the construction of plants) as well as the provision of services (such as power plant management support and maintenance). In order to offer intrinsically safe solutions, all the links in the chain must be secured, and therefore the approach to the protection of data and equipment has to be holistic in nature.

Faced with the complex challenge represented by the convergence of IT and OT, Ansaldo Energia has therefore made a strategic choice: not to focus on a single solution or technology, but rather to identify a partnership model to apply upon the journey of digital transformation.

“We have chosen Kaspersky as a strategic security partner because we have seen in it not only the expertise to protect our industrial systems and networks, but also the ability to work alongside us to create an offer of value for other operators in our ecosystem.”

Luca Manuelli, Chief Digital Officer,
Ansaldo Energia



4,000
employees

€1.5b
turnover

9%
of investments
in research

“We have chosen a collaborative model and we have chosen Kaspersky as one of the strategic partners,” says Manuelli, “because it has what it takes to enable us to take on such a difficult challenge. On our journey, we are connecting up new smart production machinery that will mean we can gather all the data we need to monitor and control activities, even those regarding maintenance, into a single data source, so as to minimize the risks of downtime. Today, our monitoring center controls the machines of over 70 customers worldwide in real-time.”

From IT to OT, a strategic step

Functional coverage, now implemented on over 5,000 traditional endpoints, will be extended to the industrial sector with antiviruses and network solutions (probes that monitor activities in a non-intrusive way in order to identify anomalous behavior).

“Kaspersky is supporting us on several fronts,” explains Manuelli, “for example working with us to create the first Industry 4.0 lighthouse plant. This test is helping us understand the risks of digitization and how to eliminate them, so we can then apply solutions and processes to all the plants.

“The strength of the partnership with Kaspersky,” continues Manuelli, “is the ability we have to design intrinsically safe equipment and plants together. With the advent of smart technology, cybersecurity is becoming a strategic element for the entire ecosystem of our market, from suppliers to end customers, so much so that it is now included as a requirement in calls for tenders.”



Security

Protection of industrial data
Protection of plants to ensure
operational continuity



Control

Protection of plant
monitoring activities



Performance

Enabling predictive maintenance

Cyber Threats News: www.securelist.com
IT Security News: business.kaspersky.com
www.kaspersky.com/fraudprevention

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