

ESCAPE:

Preparing healthcare professionals for cyberattacks



Material for learners

Sicurezza informatica della rete sanitaria nell'era della trasformazione digitale. Con un'intervista speciale a Silvia Piai, Research Director per IDC Health Insights.

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Language	Italian



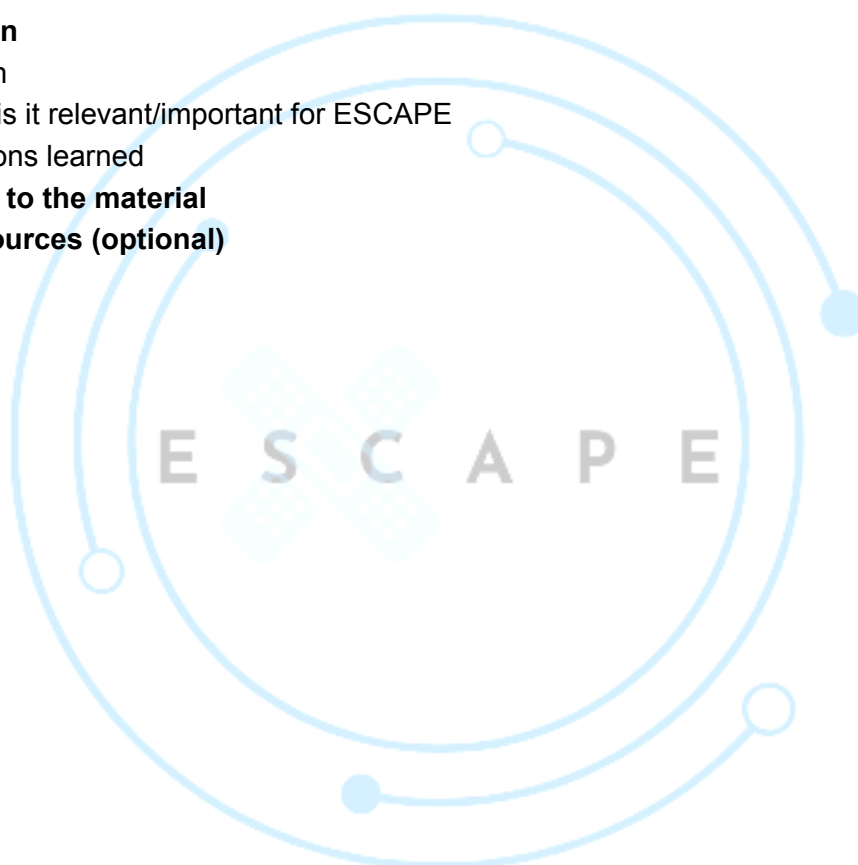
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1. Name of the material and description

Sicurezza informatica della rete sanitaria nell'era della trasformazione digitale. Con un'intervista speciale a Silvia Piai, Research Director per IDC Health Insights.

Health network cybersecurity in the age of digital transformation. With a special interview with Silvia Piai, Research Director for IDC Health Insights).

The article explores the current state of cybersecurity in healthcare. In an era of fast digital transformation, digital security development must keep up. The International Data Corporation (IDC) presents the Digital Age Networking (DAN), an intelligent, automated network, built using Alcatel-Lucent Enterprise Intelligent Fabric (iFab) technology, which facilitates the connection of users and devices to their specific applications in a secure way. In the same article Silvia Piai shares IDC's strategies and technologies regarding cybersecurity in the health sector.

Category	Mark if applies
Sector	<input checked="" type="checkbox"/> Healthcare
	<input type="checkbox"/> General public
	<input type="checkbox"/> Other
Topics covered	<input type="checkbox"/> Cybersecurity
	<input checked="" type="checkbox"/> Data protection
Situation type	<input checked="" type="checkbox"/> Prevention
	<input type="checkbox"/> Impact (i.e. when it is occurring or has occurred) on patient care.
	<input type="checkbox"/> Impact on all other activities not involving direct patient care.



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Language of the original materials	<input type="checkbox"/> Dutch
	<input type="checkbox"/> English
	<input type="checkbox"/> German
	<input checked="" type="checkbox"/> Italian
	<input type="checkbox"/> Spanish
Type of the material	<input checked="" type="checkbox"/> Guidelines or manuals
	<input type="checkbox"/> Case or examples
	<input type="checkbox"/> Training courses
	<input type="checkbox"/> Others

2. Description

In an era of fast digital transformation, digital security development must keep up. Digital Age Networking (DAN), is an intelligent, automated network, built using Alcatel-Lucent Enterprise Intelligent Fabric (iFab) technology, which facilitates the connection of users and devices to their specific applications in a secure way.

2.1. Origin

Alcatel-Lucent Enterprise (ALE) is a centenary company committed to developing technology solutions to aid the success of its customers, connecting people, devices and processes, while continuing to strive for a sustainable future.

2.2. Why is it relevant/important for ESCAPE

Through several surveys, IDC found that healthcare organisations report that cybersecurity is a top priority. Healthcare has long been, and remains, one of the sectors most targeted by hackers. For this reason, healthcare organisations are adopting new technologies, including cloud, mobile, IoT, Big Data and advanced data analytics systems, which bring vulnerabilities and therefore require a new way of looking at security.



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2.3. Lessons learned

The article aims to prepare healthcare professionals for cyberattacks by displaying risks and providing strategies and technologies for the prevention. Cyberattacks can result in data theft or lead to operational disruptions, damage to the hospital's reputation and fines for violations of regulations such as the Health Insurance Portability and Accountability Act (HIPAA) in the US and the General Data Protection Regulation (GDPR) in the European Union. An even worse situation is the possibility of causing harm to patients if some information is not delivered on time or is related to the wrong patient.

Because healthcare remains the sector most targeted by hackers, cybersecurity is a top priority.

In the paper, IDC provides specific recommendations for developing a strategic security plan that manages risk to meet the demands of today's transformational environment digital and describes the key aspects that a multi-layered network security technology should encompass by placing the four core disciplines of security (identity management, vulnerability management, threats and security) into a new dimension that enables scalability, speed, intelligence and automation. Specifically, Alcatel-Lucent Enterprise proposes Digital Age Networking (DAN), a multi-faceted approach to healthcare network cybersecurity that provides in-depth security for connected medical devices and applications across multiple layers.

3. Direct link to the material

<https://www.al-enterprise.com/-/media/assets/internet/documents/healthcare-cybersecurity-brochure-it.pdf>

4. Other resources (optional)

Digital Age Networking per la sanità
<https://www.al-enterprise.com/-/media/assets/internet/documents/digital-age-networking-for-healthcare-brochure-it.pdf>



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