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# Digital Sovereignty

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## Security and privacy

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Name	Initials	student number
Alexander Nygaard Thomsen	AT	201911329
<b>Lecturer: Christian Damsgaard Jensen</b>		

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# 1 Executive Summary

The purpose of this report is to examine, expand and define the organization's current dependency on non-EU technology, evaluate the key risks associated with this direction, analyse and propose EU alternatives. The goal is to identify and map a road to digital Sovereignty.

The current political climate is quite inhospitable and it has become apparent that world leaders make drastic, snap decisions that bring large implications to the technological landscape, where big tech can be leveraged as political thus inherently changing the risk of reliance on such services. Thus companies, with such reliance, risk getting caught in the crossfire.

Services where there is a heavy reliance, from companies such as *Microsoft*, which hosts Azure Active directory (AD), used for identity management and *SharePoint* and *OneDrive*, which Lifeline Health Technologies (LHT) uses as a file sharing service, could suddenly become unavailable.

A loss of this service, which would be tantamount to loss of many years of technological IPs and achievements which could lead to unquantifiable damage to the company. Thus, in this in-climate weather, a EU alternative for these services, is quintessential.

The main findings of this report is an overreliance on

- Microsoft Azure Services, where cloud hosting is indeterminate and jurisdictional exposure is somewhat vague. Thus EU laws may be hard to apply
- process and regulatory mismatches - Data is easily given up to 3rd party cloud services without regard for compliance (EU MDR)
- A thorough documentation is needed of other cloud solutions, specifically regarding SaaS tools
- main risks

Examples for some EU-alternatives :

- Univention - German based software for identity & access management. A self hosted AD, requiring a virtual machine. Can then handle all authentication, along with other features such as single sign-on (SSO) and multifactor authentication (MFA)
- Scaleway - A cloud hosting service, to host VM's for infrastructure purposes.

Thus Univention can be hosted by Scaleway, thus removing the dependency on a Microsoft service. In addition, the company's productivity suite, can be replaced by libre-office

## 1.1 overall conclusion

## 2 Introduction

This report addresses the current and ongoing challenges that is present within Lifeline Health Technologies ApS due to the merger between Mediscan ApS, an established manufacturer of ultrasound electronics equipment for the health industry. And HealthSync Mobile ApS, a younger, digital health oriented company. The two former companies originates from two different times, with differing missions and complex implementatitons.

The complexity created by thtis merger and associated difficulties, due to differing it-landscapes, has prompted the executive team, to commission this report to highlight, identify and analyse the requirements and dependencies, related to digital Sovereignty with a focus on non-EU providers. The purpose of this report therefore becomes to identify risks within the newly formed, yet disjointed, It invironment which LHT has inherited, with its included assets, and how dependencies has could cause problems regarding regulatory compliance, operation stability and long-term autonomy from non-EU actors.

The scope of this report covers the broader themes of digital Sovereignty, including identity and access management, data-storage, infrastructre and process mismatches, aswell as the risk associated with a futrure migration along with a focus on jurisdictional factors that arises when handling sensitive data or other regulated information.

The overall structure of this report is, an overview of the current technology and service landscape of LHT, and a accompanying dependancy analysis. These two tie into the risk assessment of the current status. This is followed by an evaluation of possible EU-alternatives to implemented services and comparison of the current implementatitoon. Lastly a recommended migration Strategy is proposed.

### 3 Current Technology and Service Landscape

## 4 Dependency Analysis

- 5 Risk Assessment
- 6 EU-Alternatives
- 7 Comparison of current and proposed solution
- 8 recommended migration strategy
- 9 conclusion