

EESZT INTRODUCTION

System of Electronic Health Services National eHealth Platform

Budapest, 18/09/2018, ESIF

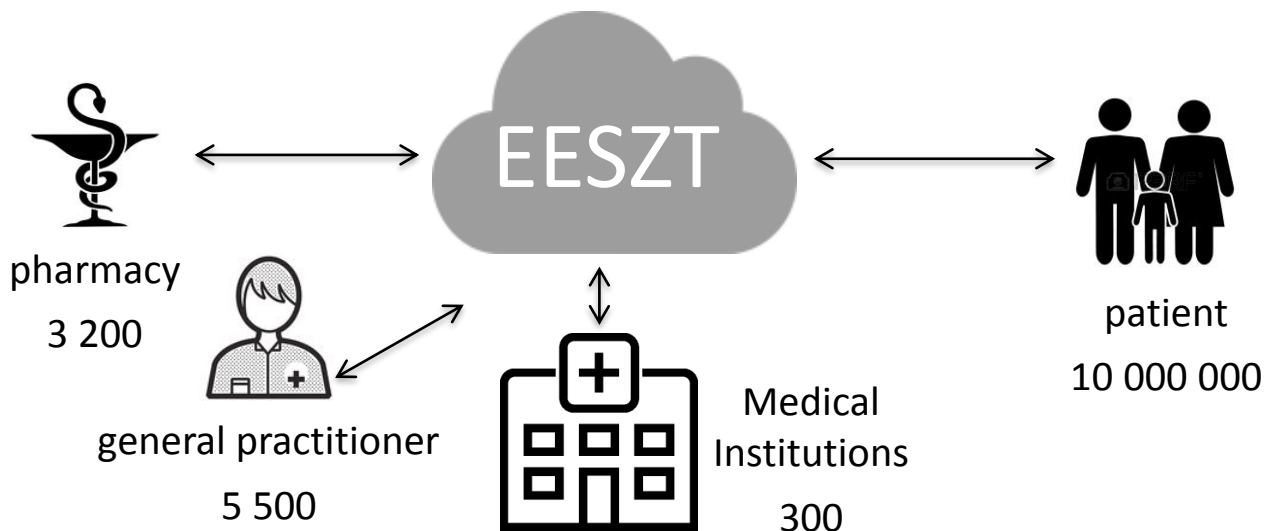
Zoltán Schweinitzer

schweinitzer.zoltan@partner.t-systems.hu

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MAIN GOALS OF THE PLATFORM

Central collection, storage and controlled sharing of Hungarian national medical data, support of a paper-free redeeming of prescriptions



PLATFORM CONNECTIONS

On-line connection between institutions

General practitioner systems

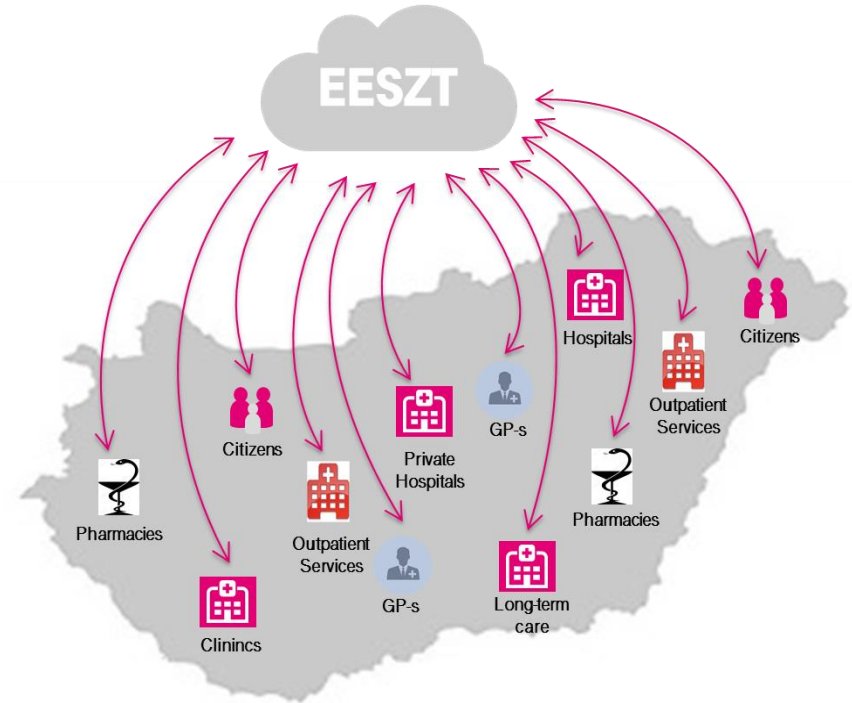
5 country-wide suppliers, further 10 smaller suppliers

Pharmacies

3 country-wide pharmacy systems, further 5 smaller suppliers

Hospitals and outpatient systems

4 country-wide system suppliers, further 4 smaller suppliers



SOAP calls + WS-Security – SAML 2.0



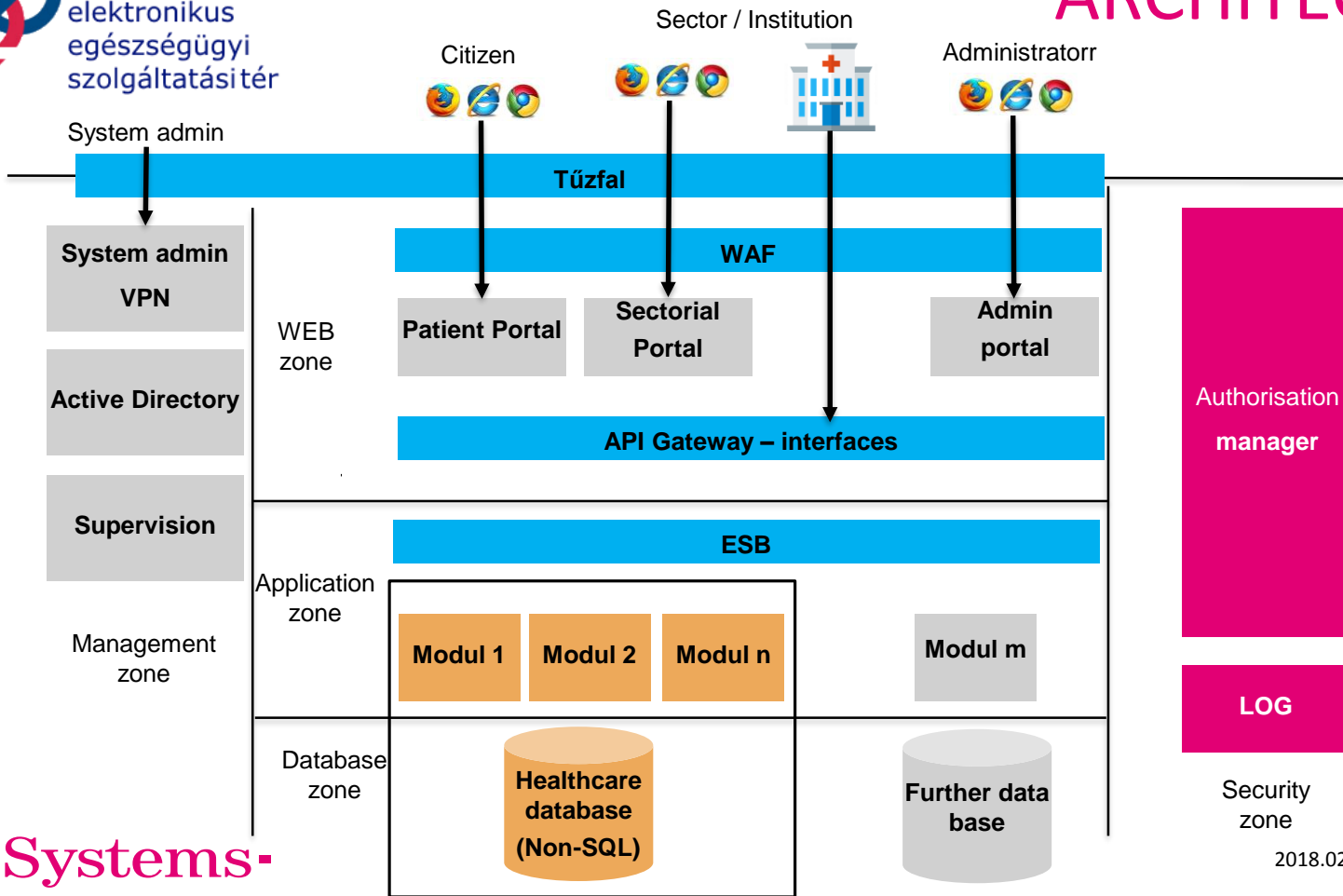
PLATFORM SECURITY REQUIREMENTS

Act L of 2013 on the electronic information security of state and local government organisations

41/2015 (VII. 15) BM decree on technological security requirements, requirements on secure information devices and products and requirements on security classification and security rating defined in Act L. of 2013. on the electronic information security of state and local government organisations.

Base: NIST SP 800 53 rev4 Security and Privacy Controls for Federal Information Systems and Organizations







Performance

3 000 000 transactions / 10 hours (only prescription 800 000 / day on average)

850 ms average response time

Size

4 separate environments

Virtual machines: 224 pcs (84 pcs production)

Dual-site operation → **extreme reliability, disaster recovery**

Clustered components → **horizontally scalable**

AUTHORISATION MANAGEMENT

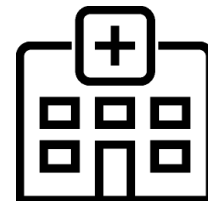
L0: Authentication

L1: Functional layer

L2: Role layer

L3: Module layer

**L4: Patient
authorization check**



AUTHORISATION MANAGEMENT

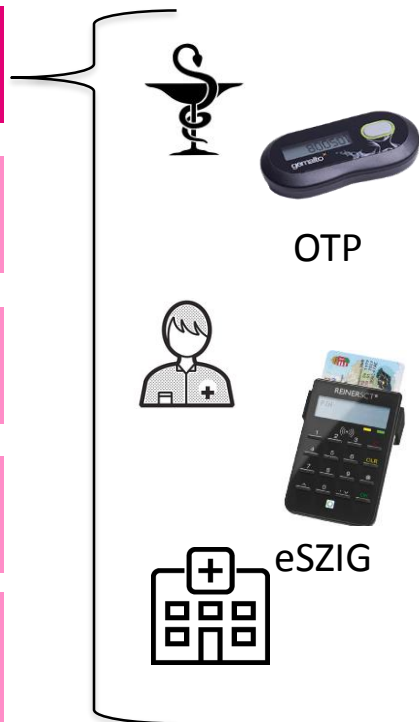
L0: Authentication

L1: Functional layer

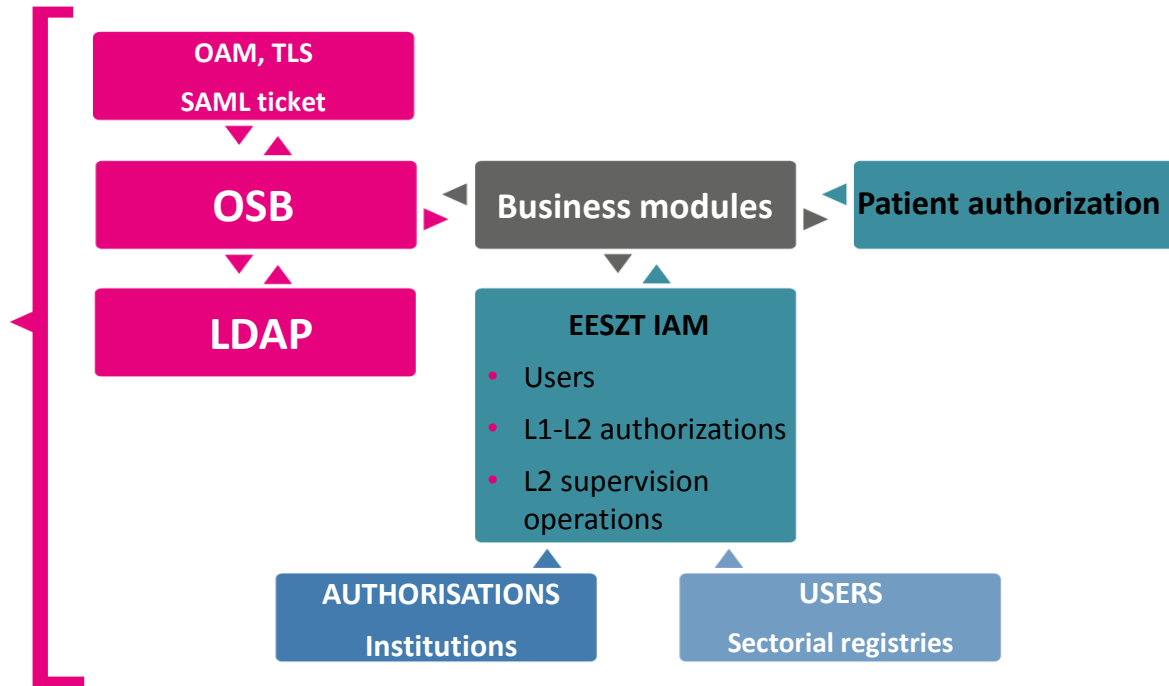
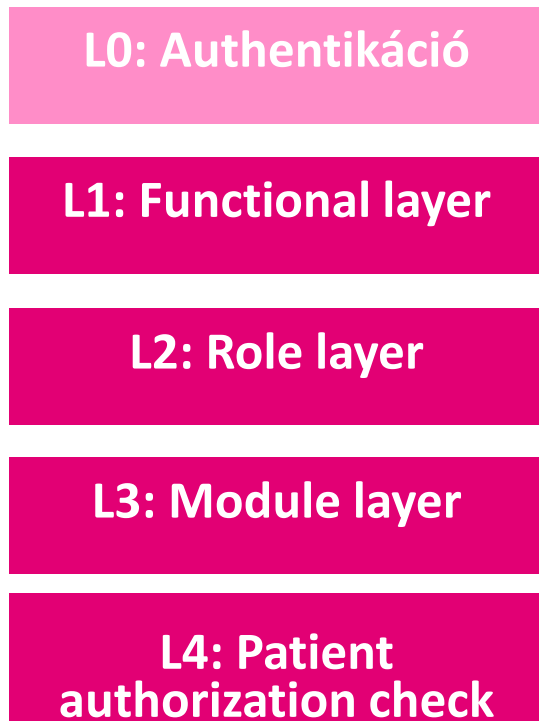
L2: Role layer

L3: Module layer

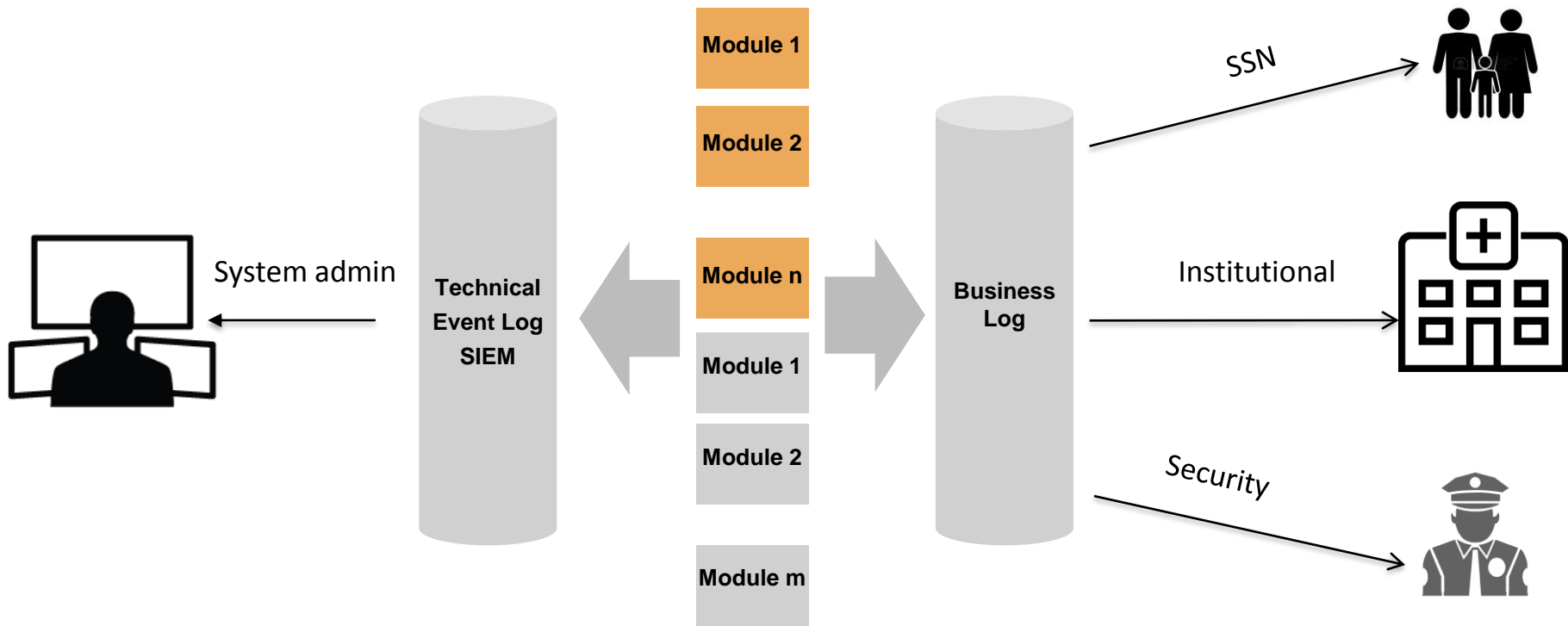
L4: Patient authorization check



AUTHORISATION MANAGEMENT



ENSURE A CLOSED SYSTEM



THANKS FOR YOUR ATTENTION

Zoltán Schweinitzer

schweinitzer.zoltan@partner.t-systems.hu

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