



The German E-Rezept ePrescription-workflow on FHIR

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Who am I?

- Hendrik Jablonski
 - B. Sc. IT-Systems Engineering
 - M. Eng. Telematics
- IT Architect @gematik
 - Co-author of eHealth-record specifications (“Patientenakte”)
 - One of the key architects in the ePrescription project
 - FHIR “newbie”



From rags to riches

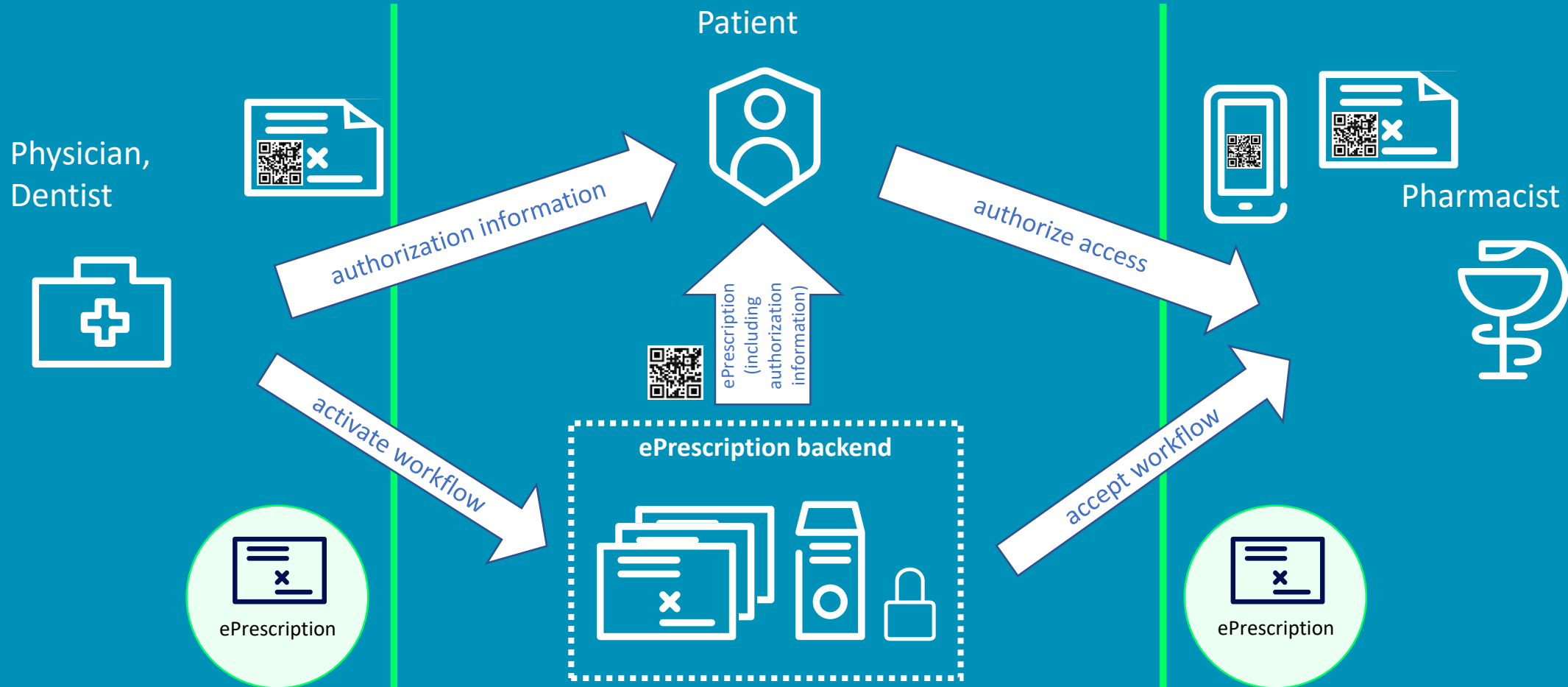
- What you have:
 - a paper based voucher system
 - in a federated, self-administrated environment
 - that is regulated by hundreds of contracts and policies

- And you are mandated to:
 - ...digitize „it“

From rags to riches /2

- Starting off with:
 - Basic RESTful Medication*-resources (Medication, MedicationRequest, MedicationDispense)
- Ending up with:
 - A workflow-server, handling status-changes on Task-resources
 - Where the Task references and uses other resources as in-/out-parameters
 - Process-improvements (e.g. sanity + drug-safety checks, patient awareness)
 - Generic/template for further process definitions (narcotics, wheelchairs, etc.)

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Main ePrescription resource-profiles

Task

- Main workflow-resource
- Ownership in Task.for (patient, others in future)
- Status-change by \$operation
- In/out-parameters as referenced resources

MedicationDispense

- Patient information for added value in eRx-App (digital package insert)
- To be stored in eHealth-record (ePA)
- To be used for Rx interaction check

Communication

- Query for availability request, delivery options
- Forward authorization information to representative
- Assignment to mail-order-pharmacy

Location

- Pharmacy physical location
- Opening hours
- Delivery options
- Contact information
- ...

Bundle/Composition

- ePrescription receipt
- Proof of successfully completed workflow
- Beneficiary = pharmacy
- Further development for additional workflow types, beneficiaries, etc.

Others

- Binary
- AuditEvent
- \$operation
- Operation-Parameters
- CodeSystems+ValueSets
- ...

Lessons learned & best practice

- Learning by sampling
- From being dependent from dependencies
- Deep dive into what's already there –
cut off the idea of a digital copy from the analogue way

- just be child again... start playing

Contact

- During DevDays, you can reach me here:
 - Via Whova App – Speaker’s Gallery
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Q&A