

An aerial photograph of a public space with a grey stone tile floor. Several people are visible: a man in a dark suit walking towards the center, a man in a white shirt and dark pants walking away from the center, a man in a dark suit and a woman in a light-colored jacket standing together and looking at a device, and a person in a dark coat walking away from the center. The text "Medication safety belt with the Austrian e-card" is overlaid in red serif font.

**Medication safety belt with
the Austrian e-card**

Medication safety belt with the Austrian e-card

Overview

Pilot Project

Architecture

User Interface



Medication safety belt with the Austrian e-card

Overview (1/2)

- Potential savings of € 122 million by reducing adverse medication reactions and saving much more than 1,000 lives per year in Austria.
- Achieved by
 - examining interactions
 - checking multiple consumption
 - tracking the compliance of prescribed medication and over the counter products
- Participation of patients is voluntary, free, revocable at any time and conforms to the Privacy Act.
- Participation with a declaration and the e-card.
- Available in more than 1,200 public pharmacies and 50 pharmacies in hospitals.
- Checks of medications are based on national medication information database.

Medication safety belt with the Austrian e-card

Overview (2/2)

- The pharmacies are connected via VPN (virtual private network). The functionality can be integrated in the POS (point of sale) software of the pharmacies or used with a stand-alone client.
- The patients are connected via a web portal to see their dispensed medications and the documentation of the check results.
- The Medication safety belt will be the basis for the first application of the Austrian electronic health record.
- Integration of doctors, dentists and hospitals in the next phase.

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Pilot project by Austrian Chamber of Pharmacists

- Since February 2007 in Salzburg:
 - in more than 70 pharmacies
 - with more than 9,000 patients
 - more than 80% of the interactions solved immediately by the pharmacist
 - three interactions per patient on average
- The most common serious interactions:
 - Marcoumar / Aspirin
 - multivitamin supplements / osteoporosis drugs
 - cholesterol-lowering / Antibiotics

Medication safety belt with the Austrian e-card

Overview

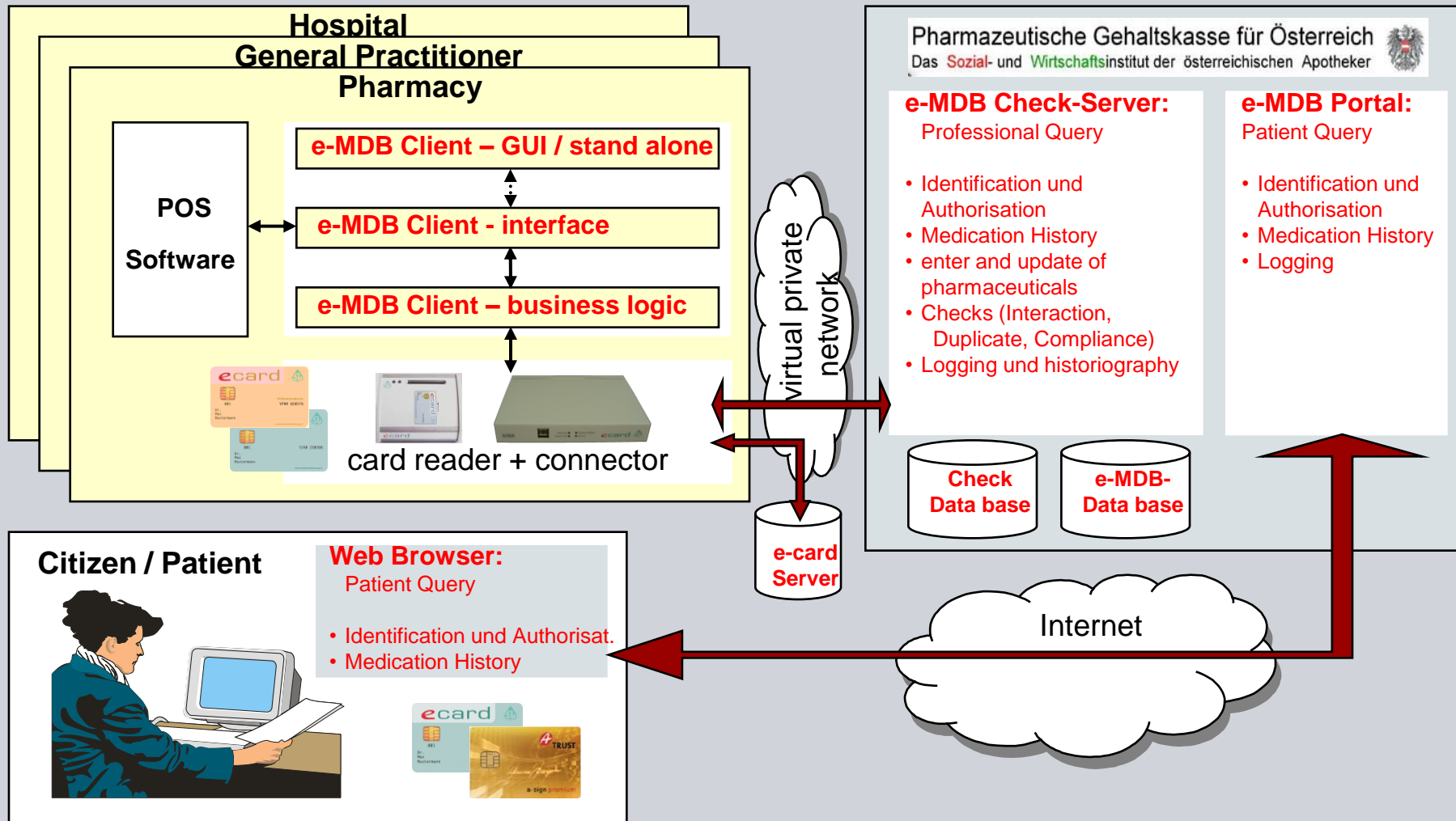
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Medication safety belt with the Austrian e-card Architecture



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Medication safety belt with the Austrian e-card User Interface

The screenshot displays the 'Arzneimittelsicherheitsgurt' (Medication Safety Belt) software interface, which is used for managing medication safety with the Austrian e-card system. The interface is divided into several panels:

- Top Panel:** Contains menu options (Anwendung, Patient, Nur Prüfung, Extras, Hilfe) and navigation buttons (Medikationsdaten erfassen, Aktuelle Medikation, Einnahmeplan, Patientenbearbeitung beenden).
- Medikationsdaten erfassen (Left Panel):**
 - SV-Nummer: 5555140454 (with 'e-card lesen' button)
 - Patient: **DI. Max Mustermann**
 - Notizen: Notizen für Max Mustermann
 - Table of medication data:

Arzneispezialität	Packanzahl
1 Rezept 123412341234	
MARCOUMAR TBL 3MG 25 ST	
ASS GEN TBL 500MG 20 ST	
CLARITYN TBL 10MG 10 ST	
 - Arzneispezialität: **CLARITYN TBL 10MG**
 - Therapieart: begrenzte Dauer
 - Dosierung: 1-0-1
 - Zusatztext: Einnahmehinweise für CLARITYN TBL 10MG
 - Buttons: Stornieren
- Prüfungsübersicht Arzneispezialitäten (Right Panel):**
 - Table of medication safety checks:

Arzneispezialität	Interaktion	Duplikat	Intervall
REUZ MARCOUMAR TBL 3MG	4		
REUZ ASS GEN TBL 500MG	2	1	
ASPIRIN TBL 500MG	2	1	
CLARITYN TBL 10MG			
 - Summary: 25 ST, 1 Packung(en); Therapieart: Dauer; Dosierung: ; Abgabedatum: 23.09.2008; Einnahmestart: 23.09.2008; Einnahmeende: ; Buttons: EIN Rezept, SIS Kurzinformation, Medikationsende setzen, Dosierungsangabe..., Nicht dispensieren, Historie anzeigen
- Warnungen (Bottom Panel):**
 - Table of warnings:

Arzneispezialität / Kurzbeschreibung	Status
REUZ ASS GEN TBL 500MG Verstärkte Wirkung der Antikoagulantien - Blutungsgefahr	
REUZ ASS GEN TBL 500MG Verstärkte Wirkung d.oralen Antikoagulantien. Gefahr v.Blutungskomplikationen	
ASPIRIN TBL 500MG Verstärkte Wirkung der Antikoagulantien - Blutungsgefahr	
ASPIRIN TBL 500MG Verstärkte Wirkung d.oralen Antikoagulantien. Gefahr v.Blutungskomplikationen	
 - Buttons: nicht relevant, SIS Kurzinformation, gelöst durch Beratung, Dosierungsangabe..., gelöst durch Rücksprache mit Arzt, Historie anzeigen, Weiterleitung an Arzt/Problem offen, Beratung/Problem offen, Medikationsende setzen, Nicht dispensieren, Warnung bearbeiten...

At the bottom of the interface are 'OK' and 'Abbrechen' buttons.

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