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Medication safety belt with the Austrian e-card

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Siemens IT Solutions and Services

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- **Overview**
- Pilot Project
- Architecture
- User Interface

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.

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

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Medication safety belt with the Austrian e-card Architecture

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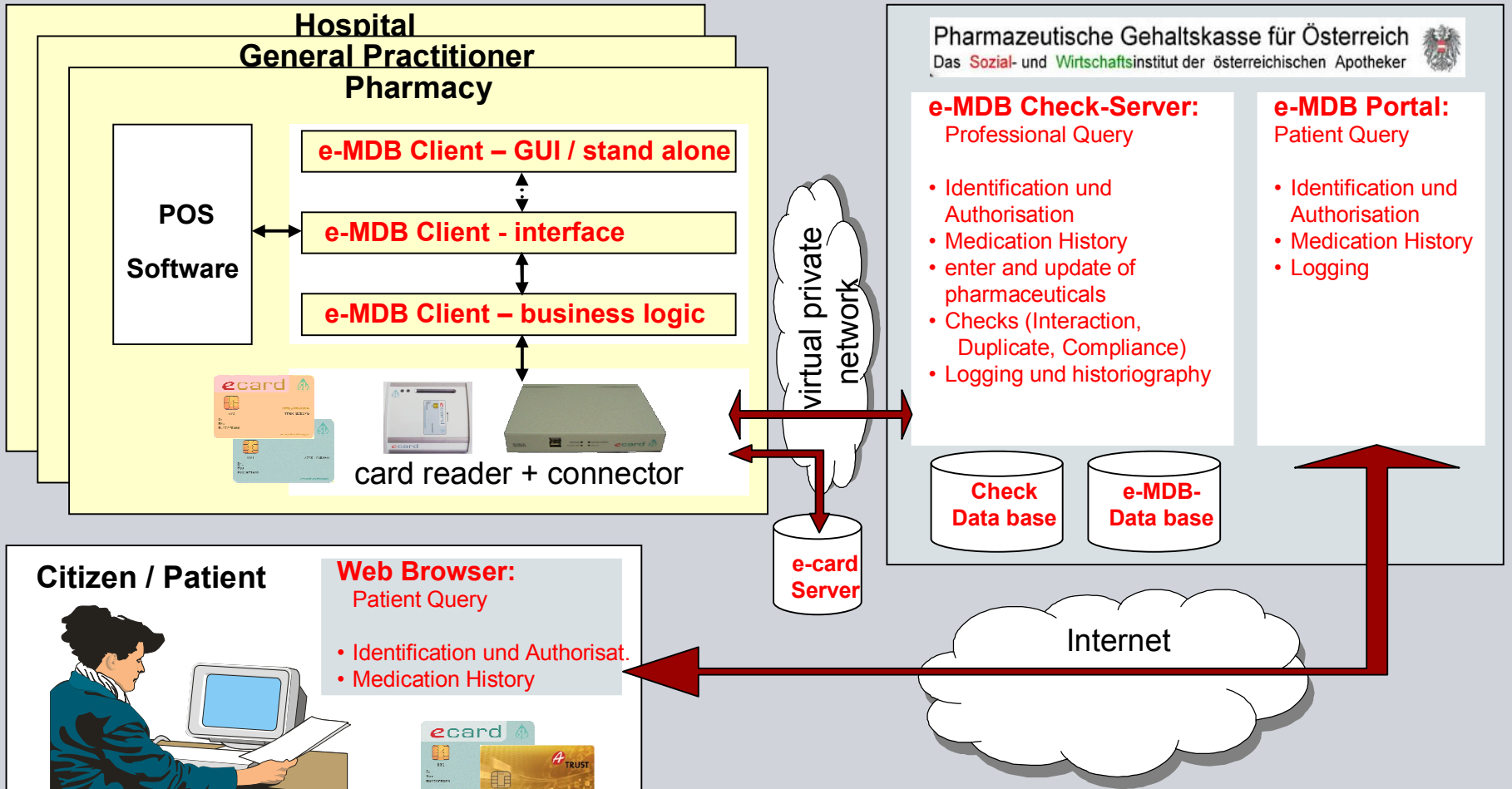

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Medication safety belt with the Austrian e-card User Interface

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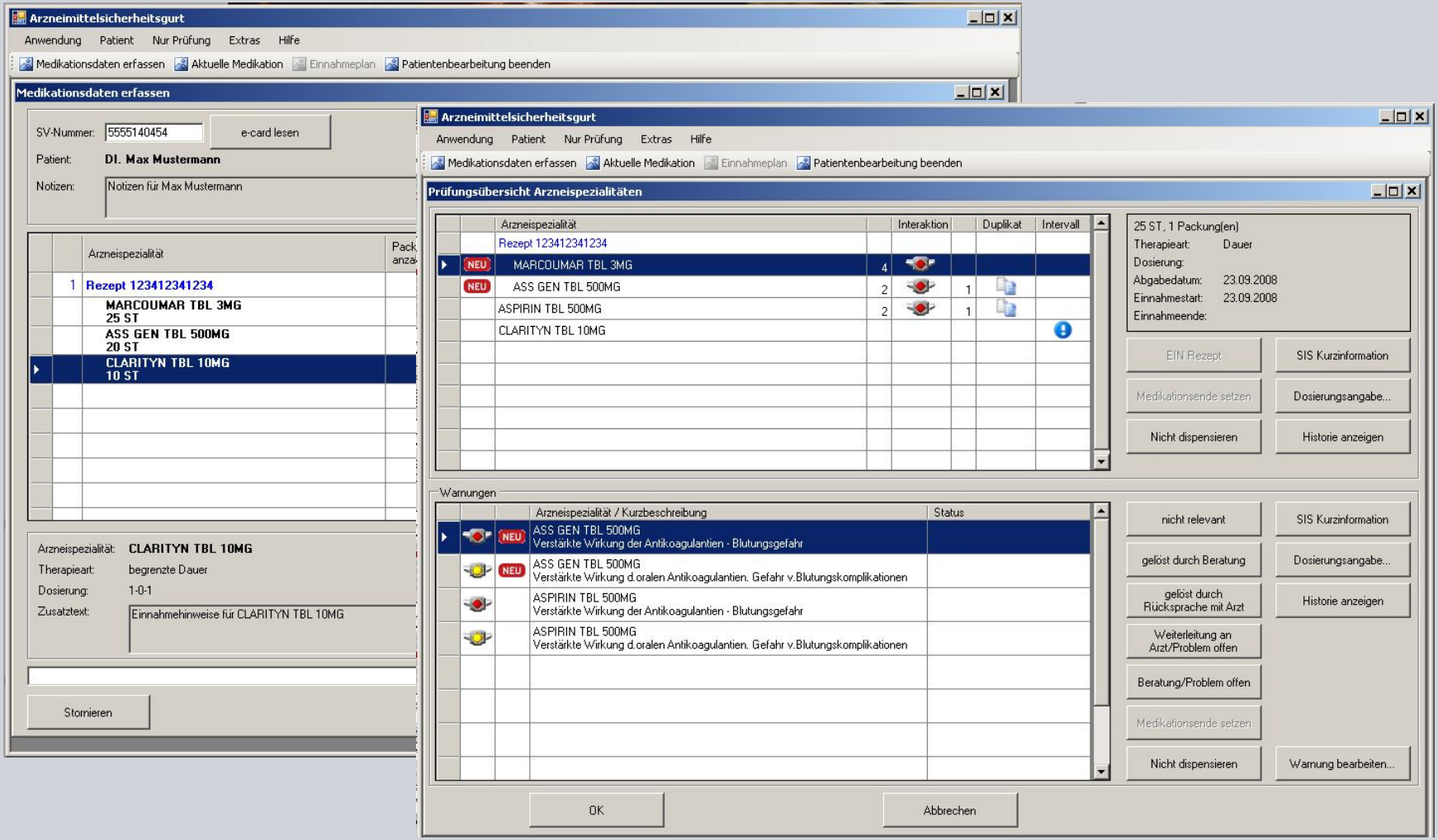

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