



EHTEL

eHealth Interoperability Workshop

**ePrescribing and cross-border
medication management**

Brussels 01/06/2004

Company profile

- **Established in 1994 by the important actors in healthcare**
- **“e-health” company**
- **Activities in the Benelux and Ireland**
- **Network of 12.000 physicians and more than 300 healthcare organisations (hospitals and clinical laboratories)**
- **2001 integrated in Medimedia Group worldwide (34 countries) publisher of drug directories and medical journals/magazines**

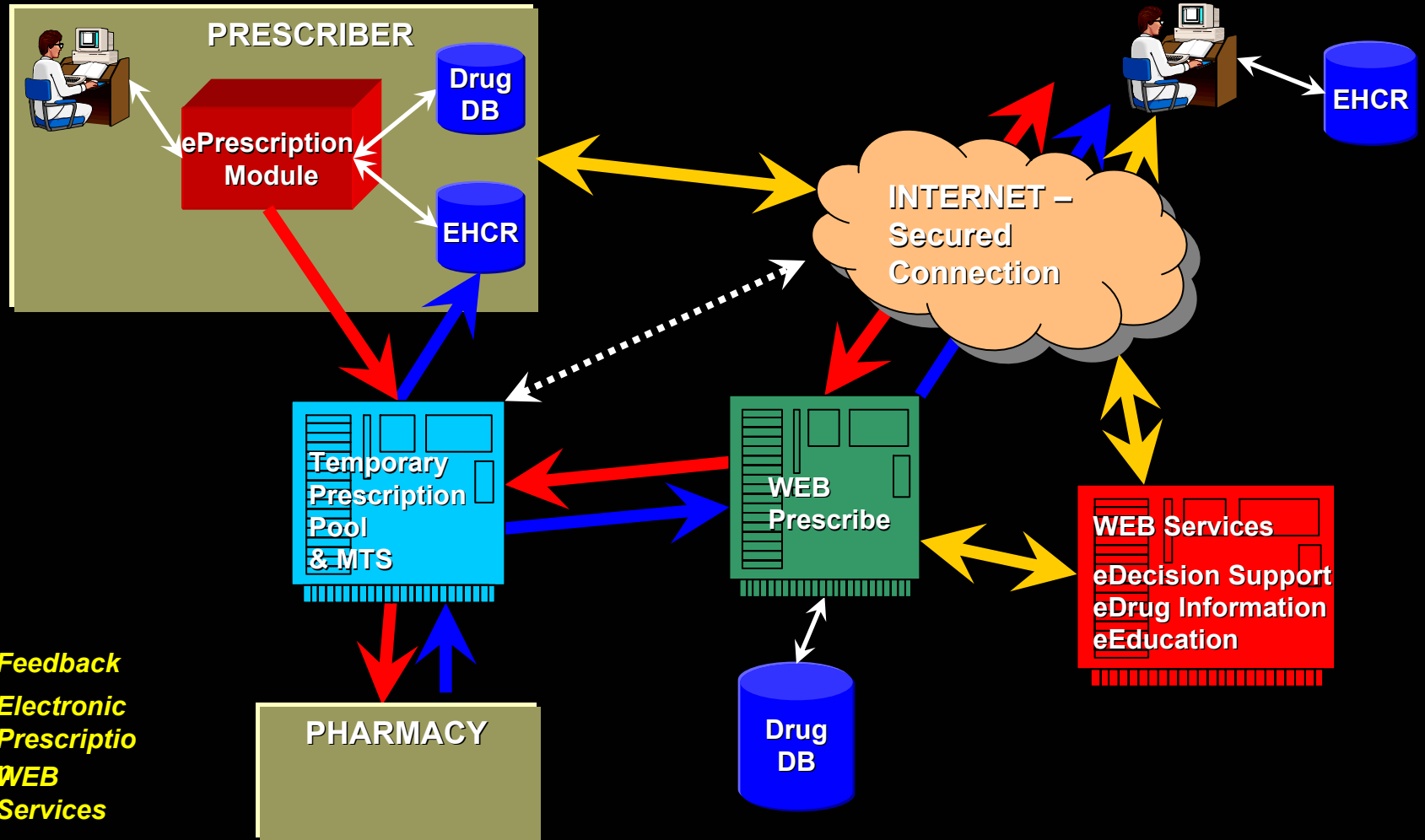
What is ePrescribing ?

- The electronic production of a legal prescription in terms of **eligibility**, formulary management and dosage
- Medical act which is part of the treatment (therapy) process
- It does not necessarily involve the incorporation of medication data or clinical data (e.g. allergies) related to the **patient**

What is Electronic Medication Management ?

- EMM is more ambitious than ePrescribing
- It facilitates **real time access** to a diversity of medical information sources during the prescription act
- It has a number of **decision support** capabilities and will be able to calculate drug doses, to assess drug-drug, drug-allergy, drug-disease, drug-sport interactions
- It will be able to produce **specific alerts** and reminders in response to events through programmable rules
- It will provide guidelines & **education** both to patients and physicians

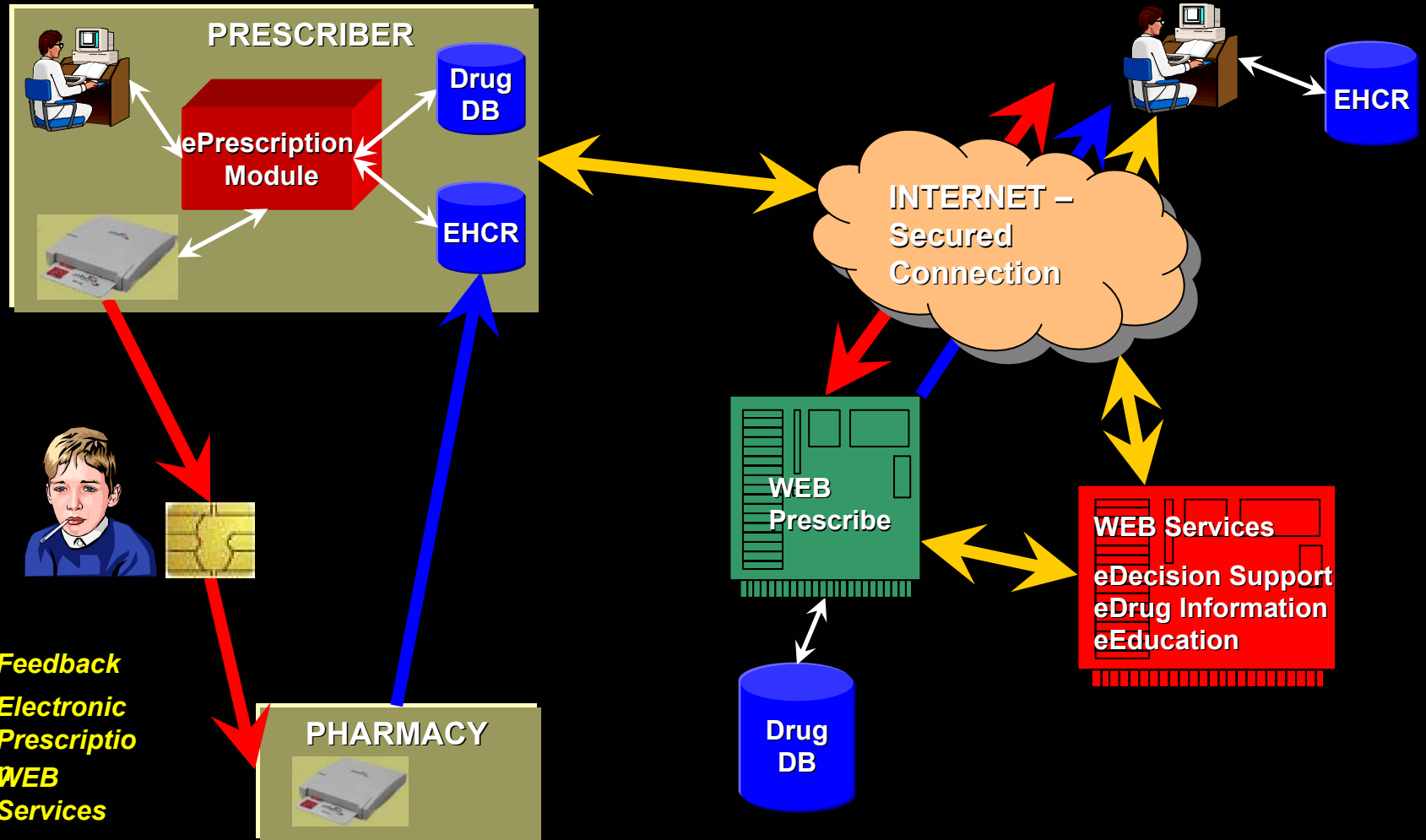
ePrescription and EMM



MTS: Message Transfer System
 PhIS: Pharmacy Information System

GPIS: General Practitioner's Information System
 EHCR: Electronic Healthcare Record

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Interoperability ?

- **Product versus ingredients**
 - Databases – national versus European wide
- **Infrastructure – interchange network**
 - Internet & Smart Cards
 - Privacy protection
- **Messages – formats, syntaxes**
 - Internet & Smart Cards
- **Content – coding**
 - Molecules, form, route of administration, ATC
- **Decision support**
 - From product based to evidence based (requires molecule breakdown)

Product versus ingredients

- Products are registered **nationally**
 - A product which is not registered cannot be prescribed or dispensed
- Products are identified by **brand** names
 - Several pharmaceutical companies offer the same of similar products using different names
- **Prescribers** use “brand” names
 - Today 95% of prescriptions and drug directories are based on products (brand names)
- **Dispensers** use “brand” names and where substitution rights exist “ingredients”



Recherche directe de produits

Nom de produit :

clamoxyl

Pays :

France

Rechercher

Autres critères

Pays	Produit	Forme	Voie	Principes actifs	ATC	Laboratoire
France	CLAMOXYL 1 g cp dispersible Ad	comprimé di...	orale	amoxicilline t...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 1 g pdre et solv p sol inj IM	poudre et so...	intramuscula...	amoxicilline s...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 1 g pdre p sol inj IM IV et...	poudre pour...	intramuscula...	amoxicilline s...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 1 g pdre p susp buv Ad	poudre pour...	orale	amoxicilline t...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 125 mg pdre p susp buv ...	poudre pour...	orale	amoxicilline t...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 125 mg/5 ml pdre p susp...	poudre pour...	orale	amoxicilline t...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 2 g pdre p sol p perf IV	poudre pour...	intraveineus...	amoxicilline s...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 250 mg pdre p susp buv ...	poudre pour...	orale	amoxicilline t...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 250 mg/5 ml pdre p susp...	poudre pour...	orale	amoxicilline t...	J01CA...	GlaxoSmithKline
France	CLAMOXYL 500 mg gél	gélule	orale	amoxicilline t...	J01CA...	GlaxoSmithKline

13Produits trouvés

Produit équivalent de CLAMOXYL 125 mg pdre p susp buv en sach

Pays :

Tout pays

Options

Même forme

Même voie d'admin.

Même dosage

Pays	Produit	Forme	Voie	Principes actifs	ATC	Laboratoire
Danemark	FLEMOXIN SOLUTAB soluble tablet ...	comprimé p...	orale		J01CA...	Yamanouchi Ph...
Espagne	AMOXAREN oral powder 125 mg	poudre orale	orale		J01CA...	Areu S.a.
Espagne	AMOXIMEDICAL oral suspension 125...	suspension ...	orale		J01CA...	Medical
Espagne	ARDINE sachet-dose 125 mg	sachet	orale		J01CA...	Antibioticos Farma
Espagne	CLAMOXYL oral powder 125 mg	poudre orale	orale		J01CA...	Glaxosmithkline
Norvège	IMACILLIN granules, sachet 125 mg	granulés	orale		J01CA...	AstraZeneca AS
Suède	AMIMOX granules for oral suspension...	granulés po...	orale		J01CA...	Tika Läkemedel ...
Suède	IMACILLIN granules for oral suspensi...	granulés	orale		J01CA...	Astra Läkemedel...

8Produits trouvés [mode = Composition et dosage]

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Infrastructure – interchange networks

- Infrastructure: **transport**, access, storage
 - Transport :
 - Mainly prescription
 - Internet, Smart Card
 - Access
 - User authentication, decision support, prescription history
 - Storage
 - Prescription – Internet server, Smart Card
 - Prescription history – Data Server on the Internet
- **Privacy** protection
 - Smart Card – High
 - Internet: all traffic - encryption, pseudonymisation,

Messages - formats, syntaxes

- **Messages have to comply with international standards**
 - **CEN TC251 : ENV 13607 (2000) Health informatics - Messages for the exchange of information on medicine prescriptions**
- **Syntaxes**
 - **XML seems to become the standard**

Content - coding

- **Coding schemes** needed for
 - Molecules
 - Form
 - Route of administration
 - ...

Decision support

- Today decision support (drug-drug interactions, drug allergy interactions, dosage control) is based on information found in the **full monograph** (full disclosure)
- Only **product** based decision support
- Only **national** based interaction schemes
- Only **evidence based** interaction control will make it possible to inter-operate between prescribers and dispensers world-wide

How to move from ePrescribing to Electronic Medication Management ?

