TURKISH DRUG & MEDICAL EQUIPMENT

NATIONAL DATA BANK PROJECT
Presentation Plan

1. Goal
2. Current Situation
3. Recommended Model
4. Issued Performances
5. Developed System
6. Current Datas
The essential goal of this national data bank project for drug & medical equipment is to create a common language, to share datas electronically between all relevant parties like manufacturers, exclusive dealers, distributors, purchasers, users, inspecting authorities and reimbursement agencies.
CURRENT SITUATION
Current Situation

Today’s communications methods between Procurers & Relevant Parties to share product datas

Exclusive Dealer

Manufacturer

Exclusive Dealer

Hospitals (Procurement, Stock Control, Internal Consumption)

Reimbursement Agencies

Approving Institution (MoH)

Medical Doctors, Patients

Vendors

Forwarding Companies
Problems & Difficulties

- Communication does not have a standard model.
  - Phone, fax, internet, e-mail, paper
  - Sometimes an exclusive dealer answers for requested data,
  - Sometimes this data comes from a third party.
- Requires plenty of communication traffic.
- Each party has its own way of data recording model.
- Different parties have different datas for the same product specifications. (no harmony)
- No classification. Products could not be grouped.
Results

• Does not fulfill the requirements of reimbursement agencies.
  – Rules are conformed only for a group of products not for every single item
  – Difficulty to establish relations between group of product and the item itself
• Almost impossible to observe and inspect the local market functions and activities.
• Severe threat for patient safety.
• Does not support e-commerce procedures.
RECOMMENDED MODEL
Recommended Model

- Exclusive Dealer
- Manufacturer
- National Data Bank
- Party
- Party
- Party
- Party
- Party
- Hospitals (Procurement, Stock Control, Internal Consumption)
- Reimbursement Agencies
- Approving Institution (MoH)
- Medical Doctors, Patients
- Vendors
- Forwarding Companies
Electronic Procurement

Vendor (Manufacturer & Dealers)

Company Details (PARTIN)

Product / Service Catalogue (PRICAT)

Purchase Order (ORDERS)

Transportation Datas (DESADV)

Invoice & Payment (INVOIC)

Money Order (REMADV)

National Data Bank

Parties
Data Model

Company

Basic Data Set (PRICAT)

Law Datas

Clinical Datas

Formula of Drug

Price

Mandatory Data Set for Country Scale Data Synchronization

Everyone uses his requests with PRICAT document.
Most Important Data Field

• Global Trade Item Number (GTIN)
  – Specifies the item uniquely all around the world.
  – Uniqueness of number is not sufficient,
  – Shall be reached by all parties upon request spontaneously.

GTIN in EAN-13 Barcode Symbology

GTIN is on the item as well as in the Data Bank
ISSUED PERFORMANCES
Issued Performances

• Decision of a common data set for Drugs & Medical Equipment to collect the necessary datas.
  (July 21 - Oct 03, 2005)

• Decision of another necessary datas to collect for Drugs & Medical Equipments
  (Oct 03, 2005 - Feb 14, 2006)

• Design of Forms for Data Entries
  (Oct 03, 2005 - Feb 14, 2006)

• Preparation of Manuals for Utilisation of Relevant Forms & Procedures
  (Oct 03, 2005 - Feb 14, 2006)

Only this stage took 2 years in Australia
Issued Performances

- System Development Kick-Off.  
  (Start: Feb 15, 2006)
- Translation of UNSPSC (United Nations Services and Products Standard Codes) Classification System.  
  (Completion: Mar 03, 2006)
- Translation of Newest Release of GMDN (Global Medical Device Nomenclature) System.  
  (Completion: Apr 06, 2006)
- Implementation of First Release  
  (Apr 10, 2006)
DEVELOPED SYSTEM
General Specifications

• Works fully in an electronic environment. (Web)
• Product datas & details are submitted directly by accredited users of the Companies.
• The approval of datas entered by users of Companies are done by authorized staff after a period of acceptance.
• Detailed registrations of all procedures are stored.
Universal Standards Used for Medical Equipment

- EAN Suggestions & Standards for PRICAT Data Model.
- EAN-13 & HIBCC Codes for product identification
- GLN (Global Location Number) for Company Identification.
- UNSPSC (United Nations Services and Products Standard Codes) & GMDN (Global Medical Device Nomenclature) for Medical Equipment Classification.
Universal Standards Used for Drugs

- ATC (Anatomic-Therapeutic-Chemical) for Drug Classification System and NFC (New Form Codes) System.
- Unit of Measurements: ANSI-UOM (regarding EAN suggestion)
- WHO-INN Standard for Active Ingredients
- ISO-3 Digits for National Country Codes
Current Datas

(October 25, 2007)

• 1350 Accredited Company.
• Appr. 336,000 issues for Medical Equipments
• Appr. 105,000 approved item.
• Appr. 46,000 rejected
• Appr. 185,000 waiting approval
• Buraya projedeki kuruluşların amblemlerinin konulması faydalı olabilir.