Republic of Turkey
Ministry of Health

General Directorate of Pharmaceuticals and Pharmacy
Pharmaceuticals Track and Trace System (İTS)

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What is İTS?

The Turkish “Pharmaceuticals Track and Trace System” (generally abbreviated as ITS) defines the infrastructure constructed to track and trace all units belonging to each pharmaceutical product in Turkey. ITS is an application of the infrastructure that is known as “Track & Trace” in the literature. Datamatrix code is used instead of formerly used barcode to ensure the uniqueness of the units. Every single step and action of the unit in the supply chain are gathered by web services to provide the traceability.
Objective

• Ensure the reliable supply of drugs to patients
• Prevent counterfeiting, fraud, smuggling and illegal sale of drugs
• Prevent barcode scams
• Support rational drug use, supply data to control market
Basic Concepts

PRODUCT;
• Every single box of a drug. It defines the unique box of a pharmaceutical tracked by ITS.

GTIN;
• Global Trade Item Number.
• Ensures the uniqueness of a drug universally. Unique number created by GS1 for a single trade item.

SN;
• Serialization Number printed on the box of a drug. GTIN and SN ensures the uniqueness of a single box.

PARTICIPANT;
• A person, group, organization, or system who is affected by ITS actions
Time Plan

October 2007
- Project Kick-Off

August 2008
- Demo

November 2008
- Publication of Web Services

September 2009
- Pilot Application

January 2010
- Go Live

January 2011
- İTS Portal, İTS PTS
Web Services

**WHOLESALE**
- Purchase Not.
- Return Not.
- Sale Not.
- Cancel Sale Not.
- Deactivation Not.
- Product Verification

**HOSPITAL**
- Purchase Not.
- Return Not.
- Consume Not.
- Deactivation Not.
- Product Verification

**PHARMACY**
- Purchase Not.
- Return Not.
- Sale Not.
- Cancel Sale Not.
- Deactivation Not.
- Product Verification

**MANUFACTURER**
- Manufacture Not.
- Sale Not.
- Cancel Sale Not.
- Deactivation Not.
- Export Not.
- Product Verification

**REIMBURSMENT ASSOCIATION**
- Query Sale
Participants

<table>
<thead>
<tr>
<th>Category</th>
<th>Participants</th>
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</thead>
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<td>Manufacturer</td>
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<tr>
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<td>Reimbursement Association</td>
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Statistics

- Average response time: 0.282 s.
- Deactive drugs: 81,826,160
- Sold drugs: 1,532,102,975
- Saleable drugs with datamatrix: 1,559,314,385
- Saleable drugs with temporary datamatrix: 1,697,384,578
- Total drugs: 3,261,155,818
Thank you