



## our solutions your health™

At Thula we have a vision of building innovative solutions that help our customers cut costs while also providing outstanding healthcare.

Our mission is to provide first class IT services to the healthcare sector, based on our extensive experience and proven track record in delivering successful projects and integrations.

We are an Iceland based software company with special domain expertise and broad experience in the field of healthcare related software solutions and integrations.

Mission critical solutions for medication management, drug logistics and electronic exchange of healthcare information are our primary focus areas.

Our product concepts originated with the users. For more than 15 years, Thula's specialists have collaborated with relevant professionals in several European countries, in designing our systems, and based the technology on their needs.

We have had the fortune to work with outstanding customers ranging from individual long term care homes, hospitals and pharmacies to government ministries throughout Scandinavia and continental Europe.

Thula has been recognised by different organizations, including the Icelandic Technology Development Fund, Deloitte's Technology FAST 50 program and The European Business Awards for innovation.

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The different projects that Thula's consultants have taken part in implementing, cover the following functional and technical areas within healthcare informatics:



Prescribing, dispensing and administration of medication.



Use of standards like ebXML and HL7 for message exchange.



Clinical decision support, like generic substitutions and drug interaction checks.



Use of corporate and personal certificates for signing and encrypting messages.



Secure electronic exchange of discharge notes, vaccine records, prescriptions and other healthcare information.



Medication logistics for hospital pharmacies, including handling of ward stocks within hospitals.



Implementation of a nationwide messaging infrastructure for delivering healthcare messages securely.



Handling of structured drug data on different levels, from active ingredients and generics up to brand names and packages.

# Alfa

## drug logistics

The Alfa solution provides extensive support for important medication processes that are not covered by existing systems, even with custom integrations.

Alfa is used in pharmacies, serving one or more institutions, and tracks the medication ward stocks on each individual institution.

In the pharmacy Alfa can handle different stock systems, ranging from manual stock picking to automated unit- or multi dose robots. At the wards Alfa can handle different dispensing mechanisms, ranging from traditional (manual) shelf based systems to automated dispensing cabinets.

Based on detailed tracking and statistics on drug usage, Alfa manages the whole drug flow, and ensures that the wards have the right drugs available in the optimal quantity at any given time.

By implementing Alfa, the pharmacy gets a 100% overview of the whole environment it is serving, which results in reduced cost, better collaboration and increase safety, efficiency and traceability.

One of the most important features of Alfa is that it serves as an integration platform where electronic prescriptions can when present be shared with stock management and dispensing systems, and drug transactions are shared across all systems involved in the entire drug supply chain, including financial systems, stock management systems and dispensing units.

Through Alfa the pharmacy gets a unified and transparent platform for managing the drug supply chain, regardless of the technology used for stock management or drug dispensing.

For locations where several IT solutions span different functional areas, Alfa is the bridge that ensures functional completeness.

Alfa enables vast time and cost savings by automating the ward stock replenishment, and by simplifying other key medication processes involved in the drug supply chain.

### Labor-intensive processes automated



Automated refill orders.  
Stock count is simplified.  
Statistics for optimizing stock levels.  
Timesaving for both pharmacy & wards.

### The Pharmacy gets 100% overview



Stock levels known on all wards.  
Decreased expiration-related waste.

### Collaboration made easy and efficient



Between pharmacy and wards.  
Between wards internally.

### Extensive support for pharmacy processes



Handling orders for both medicines and commodities.  
Generic substitutions.  
Reviewing doctor authorizations.  
Phasing products in / out when tendering.

### Increased security



Helps ensuring the right medication is available when needed.  
Products are 100% traceable.  
User actions are traceable.  
Support for product recalls.  
Controlled medication handling.

### Designed for integrations



EPJ / CPOE / E-prescription.  
ERP / Logistics & Financials.  
Unit dose and multi dose robots.  
Pneumatic tube logistics .  
Medication cabinets.  
Messaging platforms .

### Proven technology



100% web based.  
Designed for scalability & integration.  
Operating in demanding settings since 2008.