

VTT produces research services that enhance international competitiveness of companies, society and other customers at all stages of their innovation process, and thereby creates the prerequisites for growth, employment and wellbeing.

VTT promotes the realisation of innovative solutions and new businesses by foreseeing the future needs of its customers already in strategic research.

With its 2,700 employees, VTT is the largest research organization in Northern Europe. VTT's Ventures operation creates profitable and growing technology and wellbeing as well as more effective use of VTT produced Intellectual Property Rights.

## DDT - Mobile Messenger Application for user communities

### TECHNOLOGY OVERVIEW

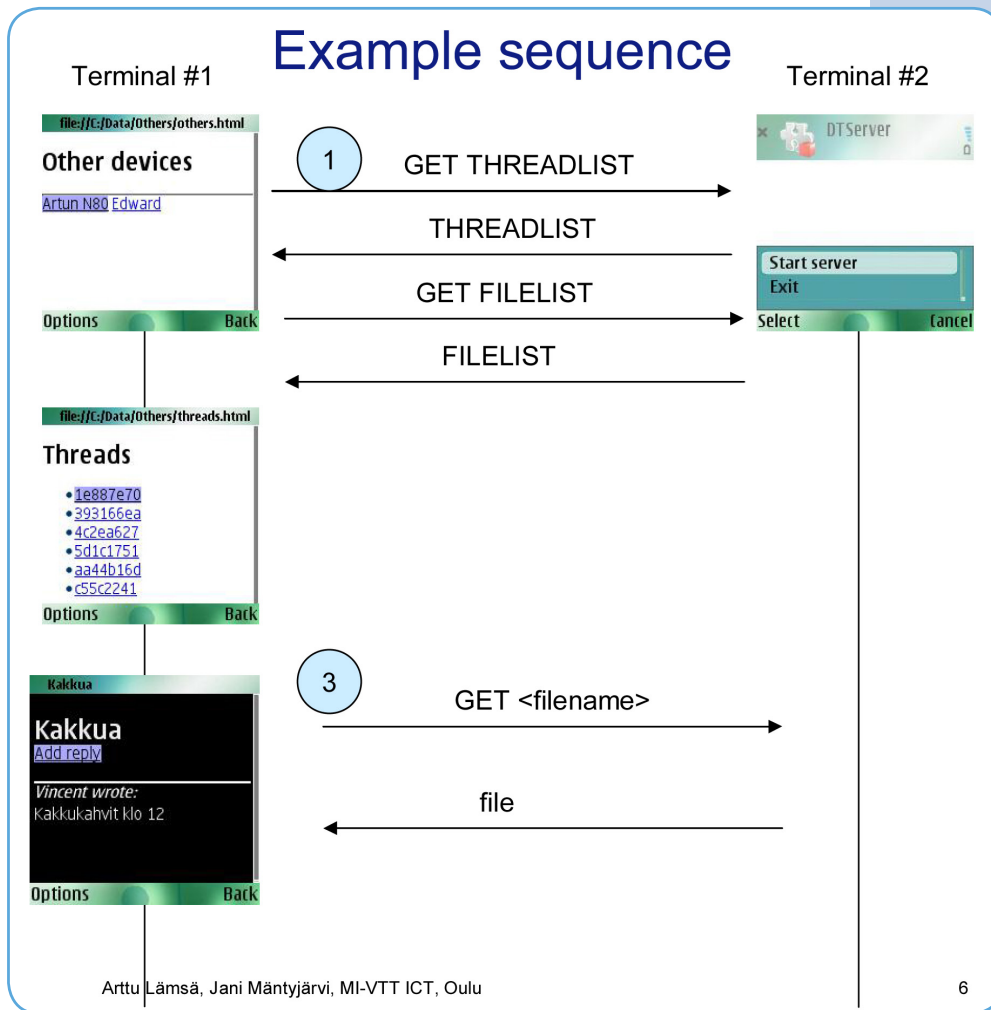
Internet is full of discussion forums where people contribute content into message chains. The user who creates the thread, writes a startup post. Other users add their replies to the chain. Traditionally these messenger services rely on centralized web service architecture. DDT – Distributed Dynamic Threads – decentralizes mobile databases and search. Contrary to traditional internet discussion forums where all where all content is stored centrally, DDT makes all this in a decentralized manner.

### APPLICATION

Dynamic distribution thread is created in a similar way as in an ordinary discussion forum, the user writes a start-up message and gives a title to the message chain. The message is stored to the local memory of the terminal, not into a central server. Other users can fetch a list of threads (message chains) that are stored in a memory of another terminal. User selects a thread to view and at the same time it is stored into his/her terminal. The reply created by the user is stored into his/her terminal as well. Data transactions can be done over Bluetooth or peer-to-peer network.

### MARKET TRENDS AND OPPORTUNITIES

In mobile communities, mobile phone users can typically create their own profiles, make friends, participate and create chat rooms, share photos and videos, and share blogs by using their mobile phone. As the mobile terminals get more bandwidth, storage and processing power, the mobile users are starting to request for the same services that they are familiar with in the fixed network. One of these services is peer-to-peer communication.



## PRODUCT/ TECHNOLOGY FEATURES

Every DT-enabled terminal has three applications installed:

- DT server listens for incoming requests over Bluetooth.
- Client application makes the requests mentioned above and receives responses from the DT server.
- Editor application is installed for creating new threads and adding replies to existing threads.

## CUSTOMER BENEFITS

- Using DDT the mobile users can communicate within small user groups without having to access centralized services provided by network operators.
- Communicating with DDT requires no network subscription and it does not generate any data transmission costs.

## Contact

Mika Valkeapää  
Business Development Manager  
P.O.Box 1000  
FI-02044 VTT, FINLAND  
Tel. +358 20 722 6174  
GSM: +358 40 187 9062  
Fax: +358 20 722 7090  
mika.valkeapaa@vtt.fi

