

# Mobile Multi-Blogging in Smart-M3: Architecture and Scenarios

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# Table of Contents

**1** Smart Multi-Blogging

**2** Architecture

**3** Design

**4** Conclusion



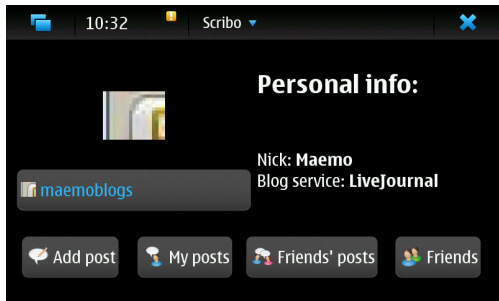
## Basic blogging terms

Blog	Web log, online journal or diary of events. The key difference from traditional diaries: blogs are open and usually involve third-party readers who may publicly debate with the author.
Blogger	A person who has an account at blog service. She can be an author of one or more blogs at this service and can send comments to own or others' blogs.
Lurker	A person who only reads blogs. No account is needed.
Post	The first message written by the blog author to opens discussion on a specific topic.
Comment	A message from author or other bloggers (friends) that continues the discussion. Comments are written in response to one of the previous messages.



# Multi-Blogging

- **Cross-posting:** message duplication to several blogs
- **Common friendlist:** bloggers whose blogs the blogger reads
- **Own multiblog:** all user's blogs as a single blog



## Multiblog extends the Blogosphere vision

- **Posts & Comments:**  
common lists of discussions from multiple blogs
- **Manipulations:**  
sorting and filtering a common list.
- **New functions:**  
searching in Blogosphere, filtering, and aggregation



# Reasons of using Smart Spaces for Scribo:

- Data retrieval and aggregation from multiple sources
- Context-awareness and other specific knowledge
- New smart scenarios for bloggers
- Balance in processing distribution between clients and servers  
*a part of processing moves from low-performance mobile devices of end-users to dedicated mediators*
- Integration of Scribo to other applications  
*e.g., blogging in the smart conference system*



# Architecture

## Main terms:

**Smart Space:** shared view of resources

**SIB:** access information

**KPs:** produces and/or consumes information in its smart space

## Client:

**KP - producer:** publishes content

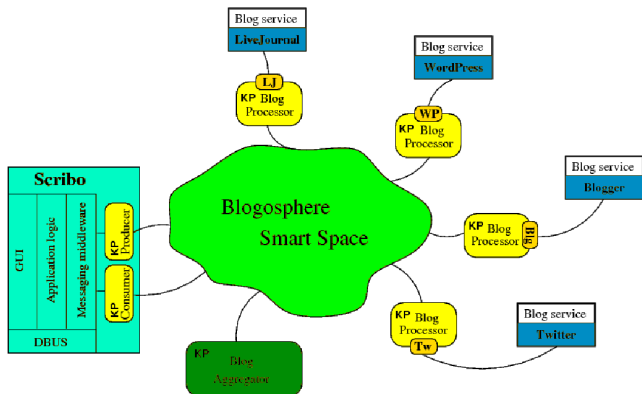
**KP - consumer:** subscribes to the content available in the blogosphere

**Logic module:** blog-specific data processing at the client side

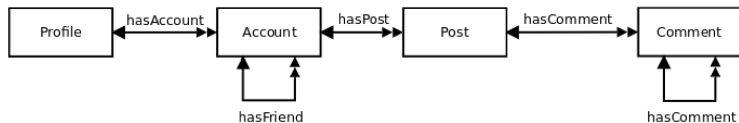
## Other parts:

**KP Blog-Processor:** gets information from service and puts it in SIB

**KP Mediator:** aggregates and filters messages, process context information.



# Ontology model



**Profile:** have several accounts identified with ID

**Account:** represents users account at a blog service

- property hasFriend
- property hasPost

**Post:** describes all data related to a post

- property hasComment to link post with its comment.

**Comment:** comment message to a post or another comment

- property hasComment links a comment with its comments

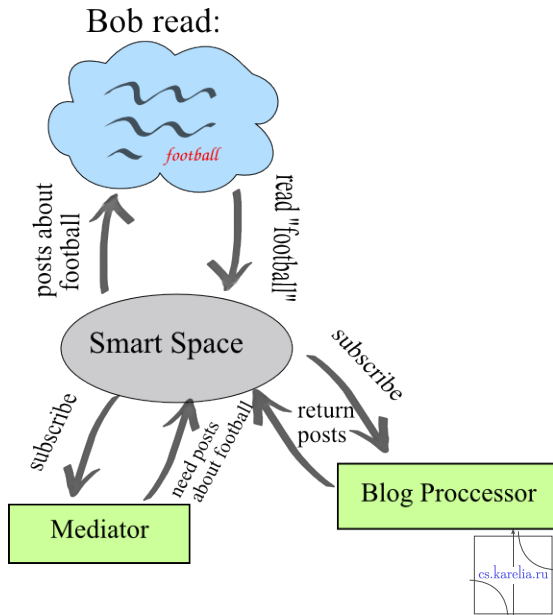
**Notification:** contain notification data.



# Basic Functions

## Key scenarios:

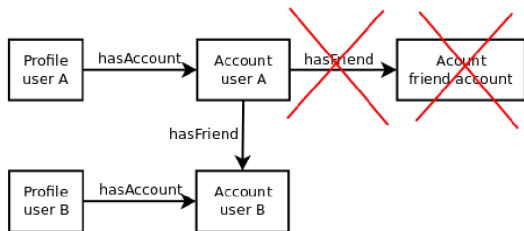
- Session initialization and closing
- Account management
- Context management
- Sending and receiving messages
- Friends management





# Mediators

- Extra multi-blogging functionality
- Delegation of some processing from the client side to dedicated servers



- Prediction and recommendation
- Cooperation of personal smart spaces



## Current state: design and planning

- Scribo project wiki:  
<http://oss.fruct.org/wiki/Maemo-Blogs>
- Forum:  
<http://www.fruct.org/forum>

Please, send your comments to [maemo-scribo@cs.karelia.ru](mailto:maemo-scribo@cs.karelia.ru)

# Thank you for your attention

