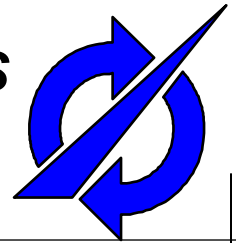


April 29, 2011



SPIIRAS



Smart-Space Working Group Activity Overview

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Smart Space Working Group Mission

Mission of the Smart Space Working Group is as follows:

- Creation and prototyping of solutions based on principles of the **smart spaces paradigm** and ubiquitous computing
- Development and promotion of the **smart space solutions** for the users of **mobile devices**
- Analysis and creation of the corresponding **use cases** and **business models**
- Elaboration of other competences to provide competitive advantages for the work group members at the emerging market of **smart spaces services**

At the moment all activities of the working group are related to **Smart-M3** platform that has been developed by the Artemis JU programme in Sofia and in Finnish national DIEM project

Smart Space Working Group Members



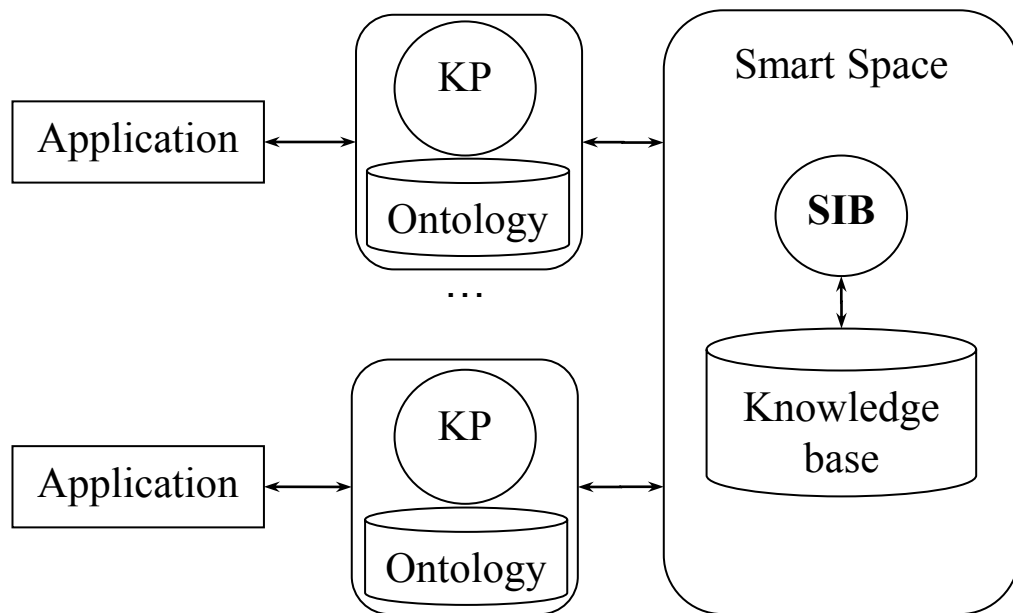
- Sergey Balandin (FRUCT, WG co-chair)
- Jukka Honkola (Innorange, WG co-chair)
- Alexey Kashevnik (SPIIRAS, WG secretary)
- Pekka Jappinen (LUT)
- Alfredo D'Elia (Nokia)
- Yury Korolev (SPbETU)
- Dmitry Korzun (PetrSU)
- Kirill Krinkin (SPbETU)
- Evgeny Linsky (SUAI)
- Alexander Malahov (SUAI)
- Ilya Paramonov (YarSU)
- Luca Roffia (Bologna University)
- Andrew Vasilev (YarSU)
- Michel Banatre (IRISA)
- Vladimir Gorodetsky (SPIIRAS)
- Oleg Kandaurov (ITMO)
- Alexey Koren (SUAI)
- Vesa Luukkala (Nokia)
- Jari Porras (LUT)
- Alexander Pyattaev (TUT)
- Vladimir Sayenko (KTURE)
- Marina Turenko (FRUCT)

Current Working Group Projects

- Current Projects:
 - Core SmartConference system (**SPIIRAS**)
 - SmartLogistics system (**SPIIRAS**)
 - Audio-visual support system for Mobile E-meeting Participant (**SPIIRAS**)
 - Smart Scribo system (**PetrSU**)
 - Web extensions for Smart Conference System (**SUAI**)
 - Integration Smart conference and live journal (**SPbETU**)
 - HiveMind for SmartConference system (**YaSU**)
 - C# KPI for Smart-M3 (**UNIBO**)
 - Smart Space Control Panel (**UNIBO**)
- Completed Projects:
 - M3-Weather: A Smart-M3 Forecast Widget for Mobile Users (**PetrSU**)
 - An ANSI C Code Generator for the Smart-M3 Platform (**PetrSU**)

Smart-M3 Platform Overview

- Smart-M3 includes:
 - SIB: Devices and software entities (applications) can publish their embedded information for other devices and software entities through simple, shared Service Information Brokers.
 - The interface for managing information in the SIB is provided by Knowledge Processors (KP)
- The understandability of information is based on the usage of the common RDF ontology models and common data formats.



- Smart-M3 allows user KP to:
 - add,
 - remove,
 - change, and
 - subscribe,
 on information in SIB.

SmartConference System: Introduction

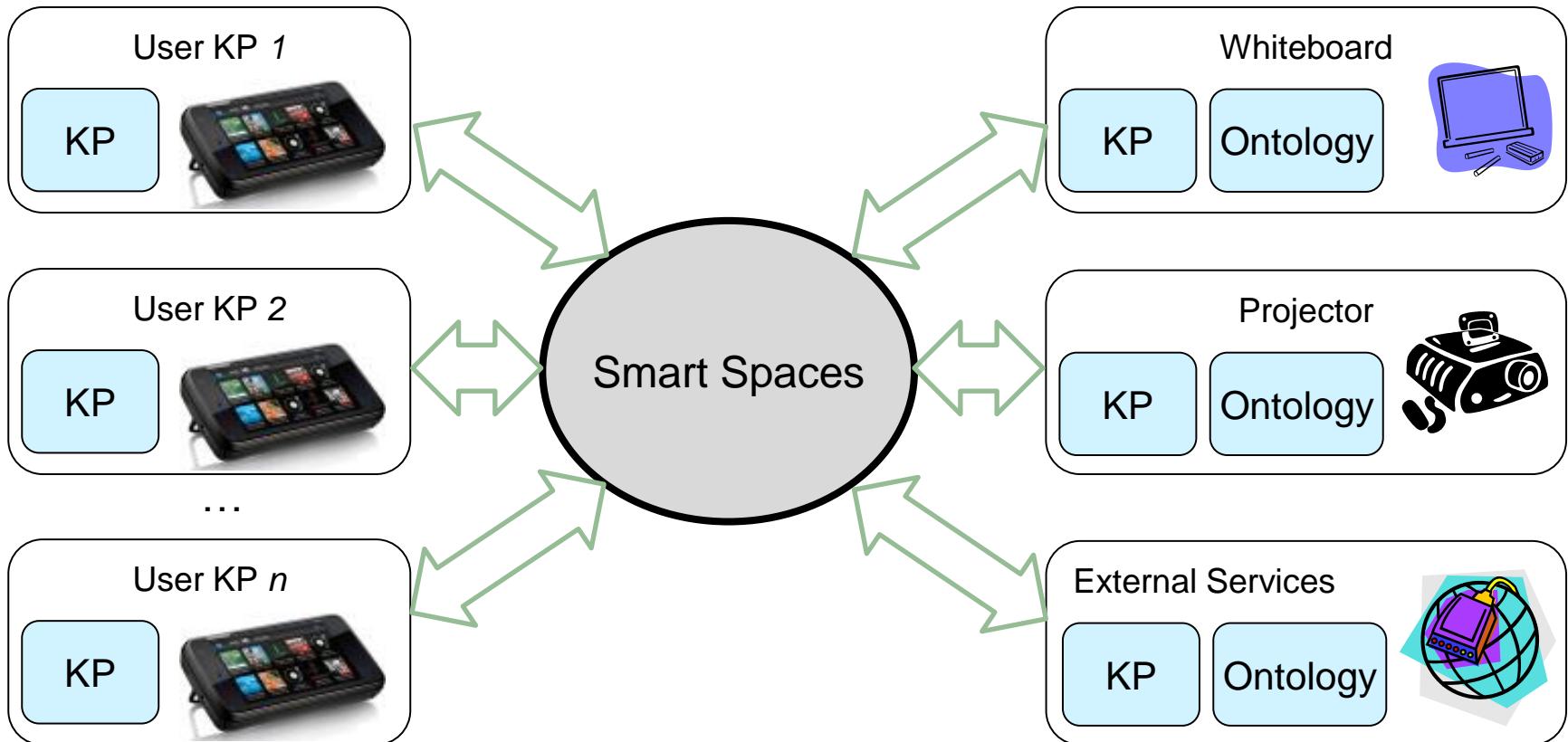
- Intelligent system based on Smart-M3 platform for automation of the conference management processes
- It provides conference participants with the following possibilities:
 - control of presentations using mobile devices without any connection cables;
 - change profiles using mobile devices and share it to the smart space;
 - access information about another participants (information on profiles and presentations);
 - independent browsing of presentations of other participants;
 - see current presentation on the projector screen and on the own mobile device;
 - see conference agenda on the whiteboard screen and on the mobile device;
- Also the system includes automated scheduling system which shows remaining time for the current participant and reminders to presenters when the presentation time is over

SmartConference System: General Architecture

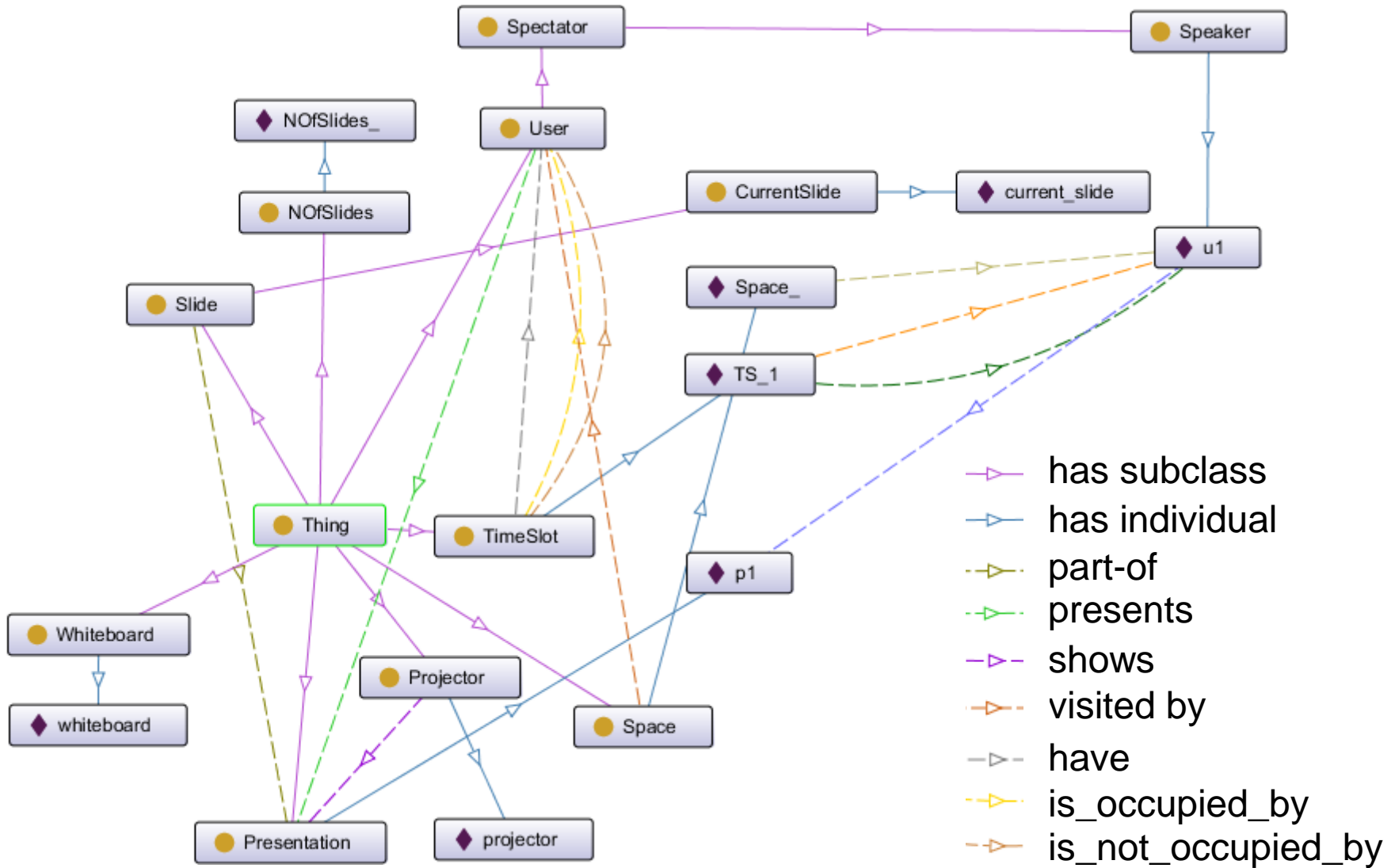
Participant's Software

Smart Space

Services







SmartConference System: Ontology



SmartConference System: Whiteboard

Agenda for Today

Photo	Time	Speaker	Presentation
	13:00 - 13:20	Alexey Kashevnik	Smart Space Working Group Activity Overview
	13:00 - 13:20	Diana Zaiceva	A Blogging Application for Smart Spaces
	13:20 - 13:40	Alexander Ronzhin	An audiovisual system of monitoring of participants in the smart space
Loading Photo	13:40 - 14:00	Ivan Galov	Blogging in the Smart Conference
	14:00 - 14:20	Aleksandr Lomov	Blogging in the Smart Conference System
Speaker is absent	18:00 - 18:20	Alexander Malahov	Extensions for Smart Conference

The current presentation is highlighted by yellow

This buttons allows to change the order of presenters

This buttons allows to start conference from the selected speaker

This buttons allows to stop the conference

This speaker is absent now

For this speaker photo is not available

Scheduled time for the presentation end

Full screen button

SmartConference System: User Interface on Nokia N900 device

Agenda of the conference like in the whiteboard

The current presentation is highlighted by yellow

Agenda

Agenda for Today

Time	Speaker	Presentation
13:00 - 13:20	Alexey Kashevnik	Smart Space Working Group Activity Overview
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13:40 - 14:00	Ivan Galov	Blogging in the Smart Conference System

Spectators Interests

My Profile Presenter's Profile Current Presentation

Participant can see and edit his/her profile

Participant can see the current slide in his/her mobile device

Participant can see information and presentation of chosen presenter

SmartConference System: Remote Control of Presentation

Current slide of user presentation

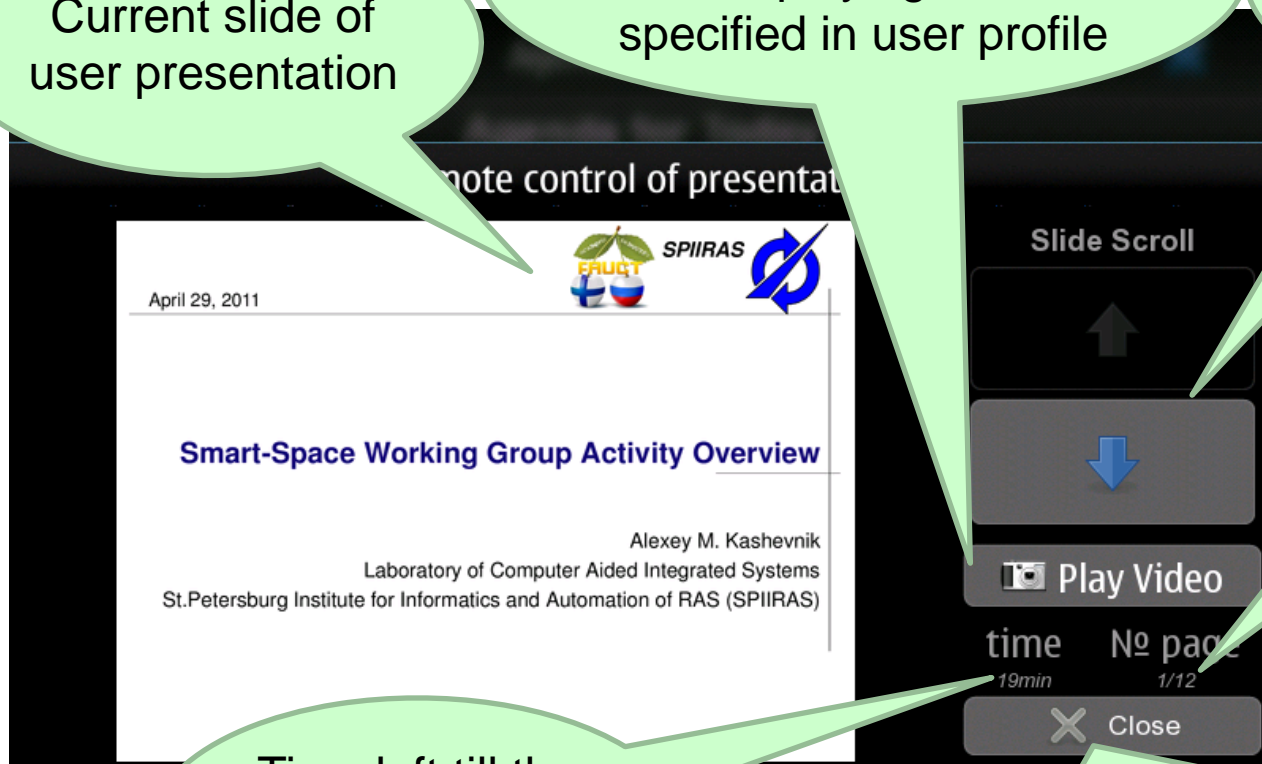
This button allows to start playing video specified in user profile

Buttons for presentation control

Current slide number and total amount of slides

Time left till the scheduled end of presentation

Presenter have to press this button when he/she is completed the presentation



SmartConference System: User Profile Information

Refresh specified
in Photo URL
user's photo

Information about
participant specified
in user profile

Presentation
information filled the
same way



Personal	Presentation
Name:	Alexey Kashevnik
E-mail	alexey@iias.spb.su
Phone	+7(812)328-80-71
Interest	Smart Space WG, Smart-M3, SmartC
Language	English
Type	Speaker
Photo Url	http://192.168.0.195/kashevnik.jpg

Path to the presenter's photo. It
is needed to keep the photo in
the www folder of web-server
running on N900 device

Conclusion

- Smart space working group virtual meetings are provided in every two weeks by Fridays.
- Welcome to the Smart Space Working Group (please contact to me or Sergey Balandin if are interested in participation).
- Please inform me about ideas of how-to improve SmartConference system.

E-mail: alexey@iias.spb.su

<http://www.fruct.org/smart>

**Thank you for Attention
Questions are Welcome**



E-mail: alexey@iias.spb.su