



Synchronization with external Task Systems in Octotask Application

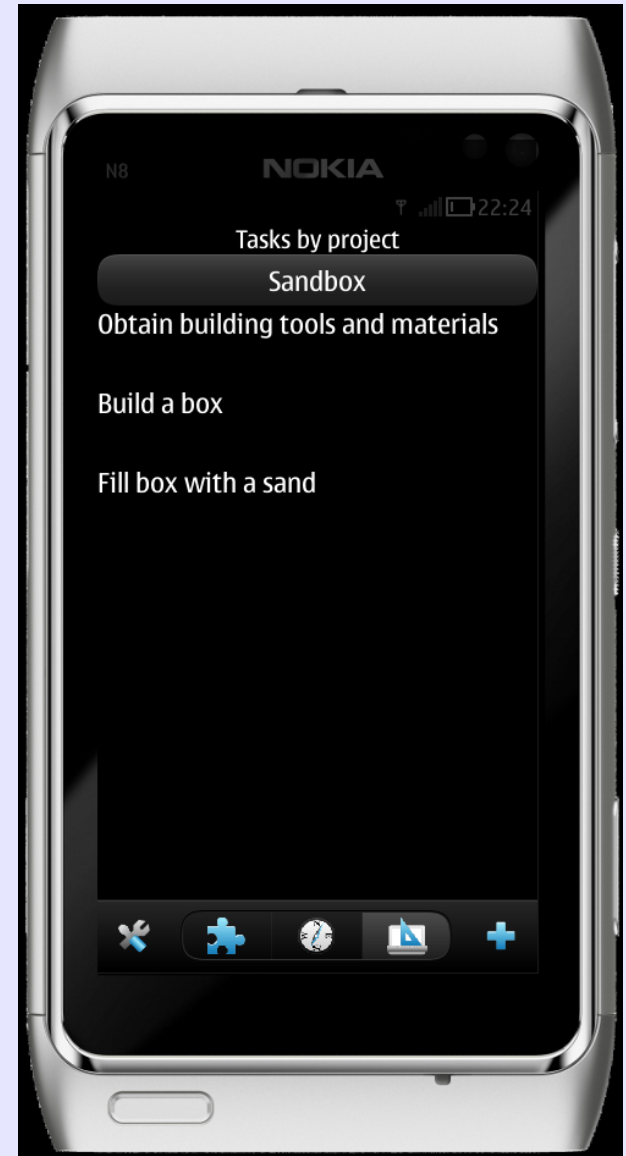
Yury Krupin, Yaroslavl State University

Octotask

Octotask is the first of all context-based task manager.

Octotask provides “one click”:

- task addition
- tasks filtration by context
- tasks filtration by project



A lot of task sources

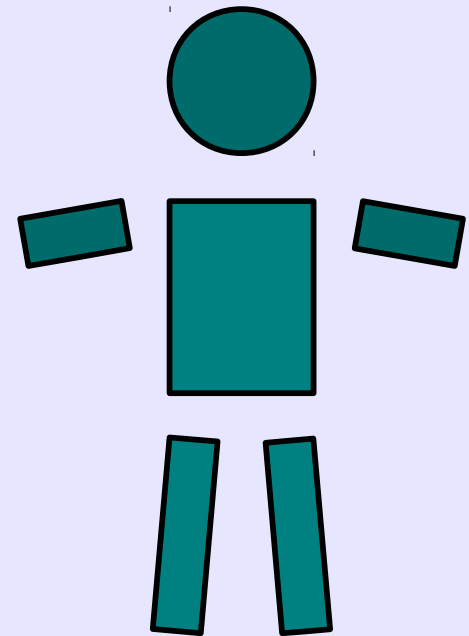
- Manually added tasks

- Task trackers

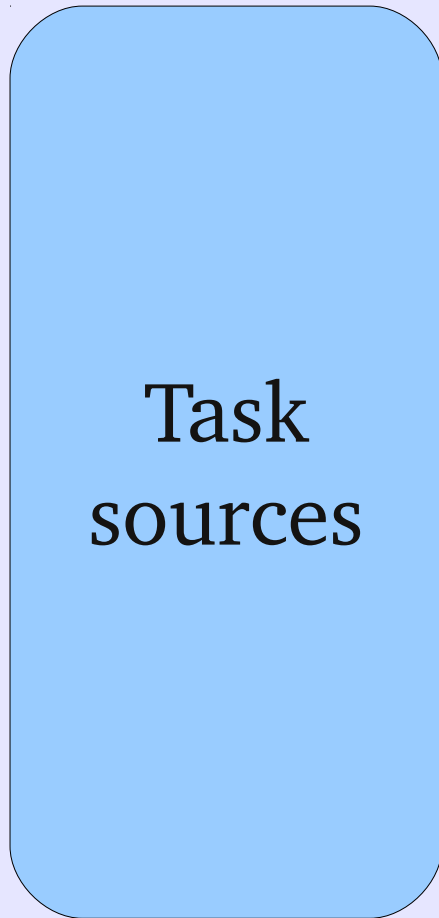
- Organizers

- Calendars

- Text messages



Different interfaces

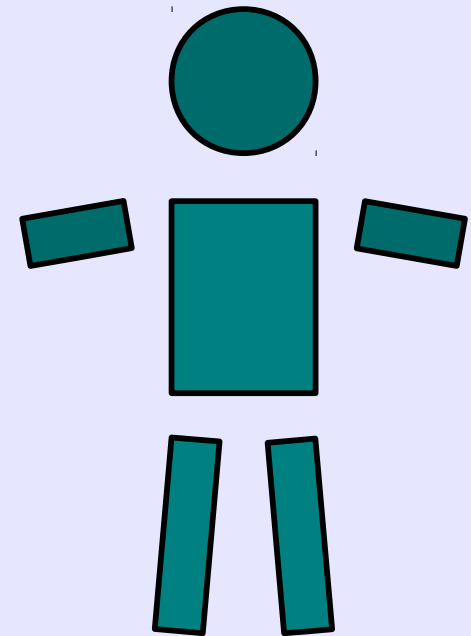


← Web interface 1 →

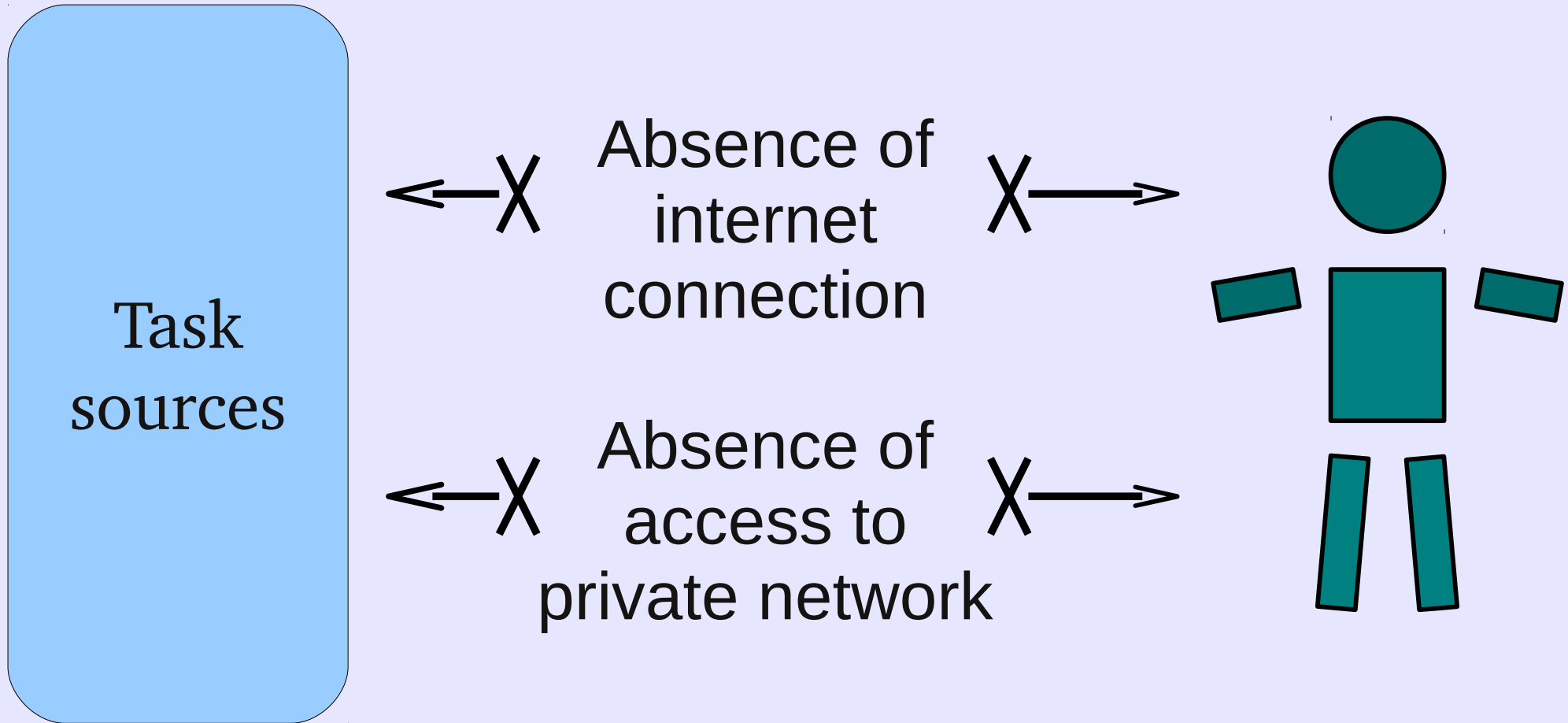
← Web interface 2 →

← Paper →

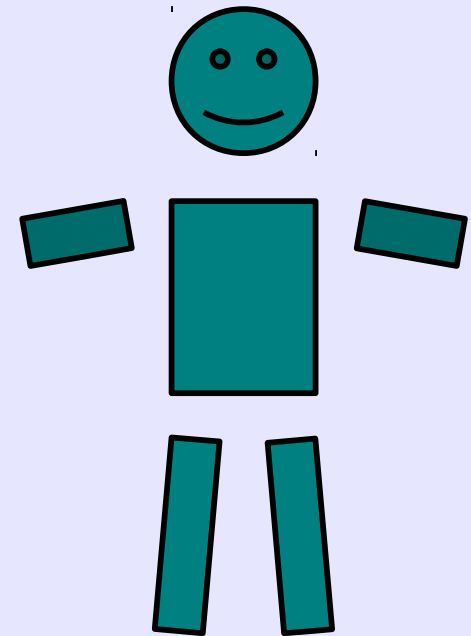
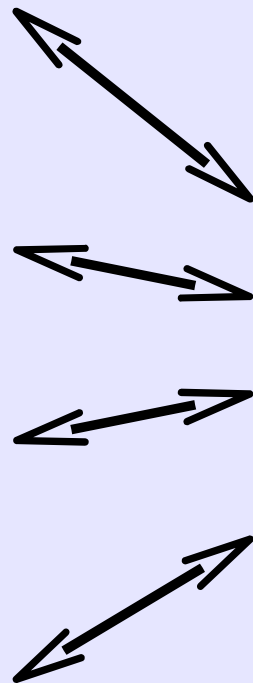
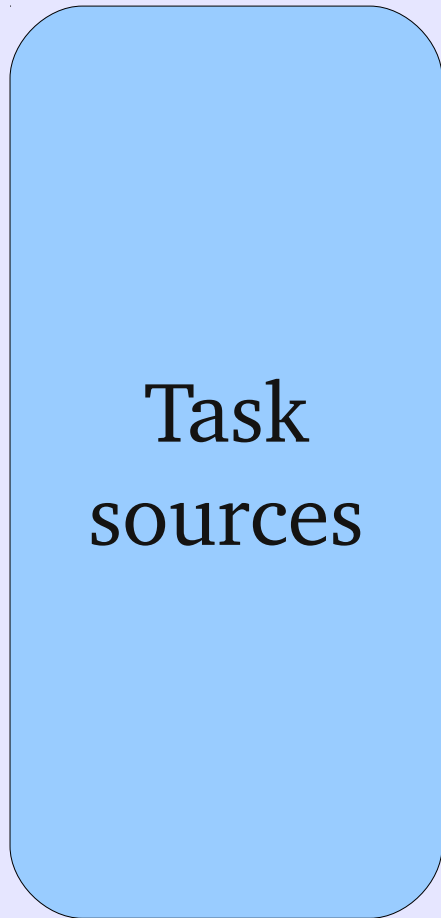
← Desktop app →



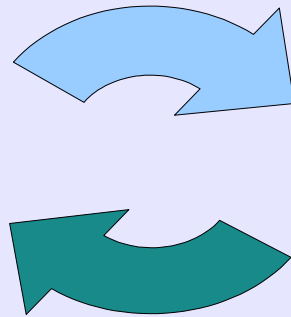
Temporary unavailability



Use case



Unified interface of external task system in Octotask



External system interface

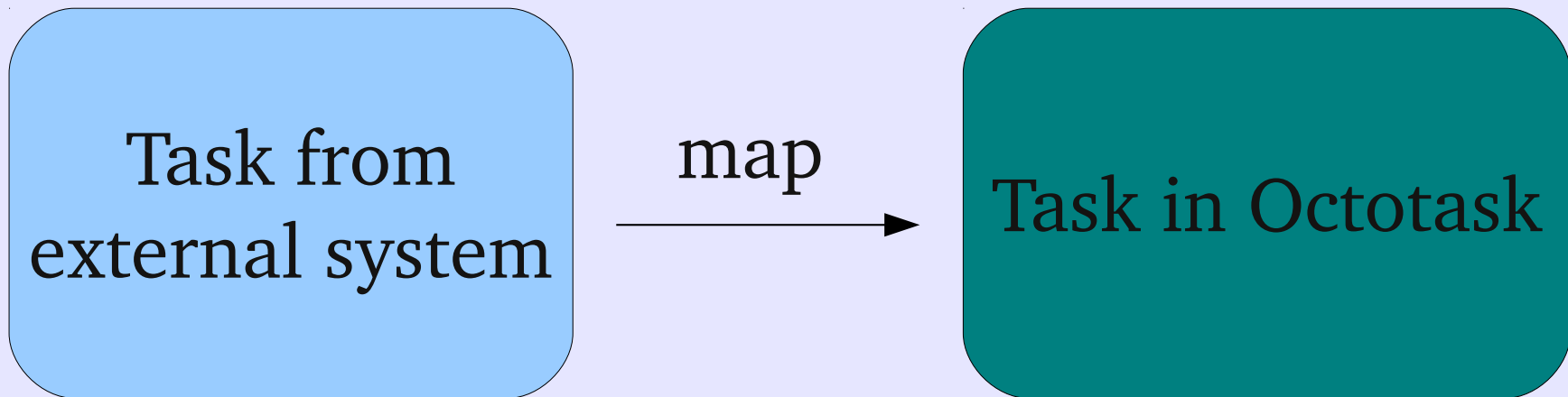
- ▶ retrieve active tasks
- ▶ add task
- ▶ update task
- ▶ delete task
- ▶ retrieve one task by id

Google tasks external system

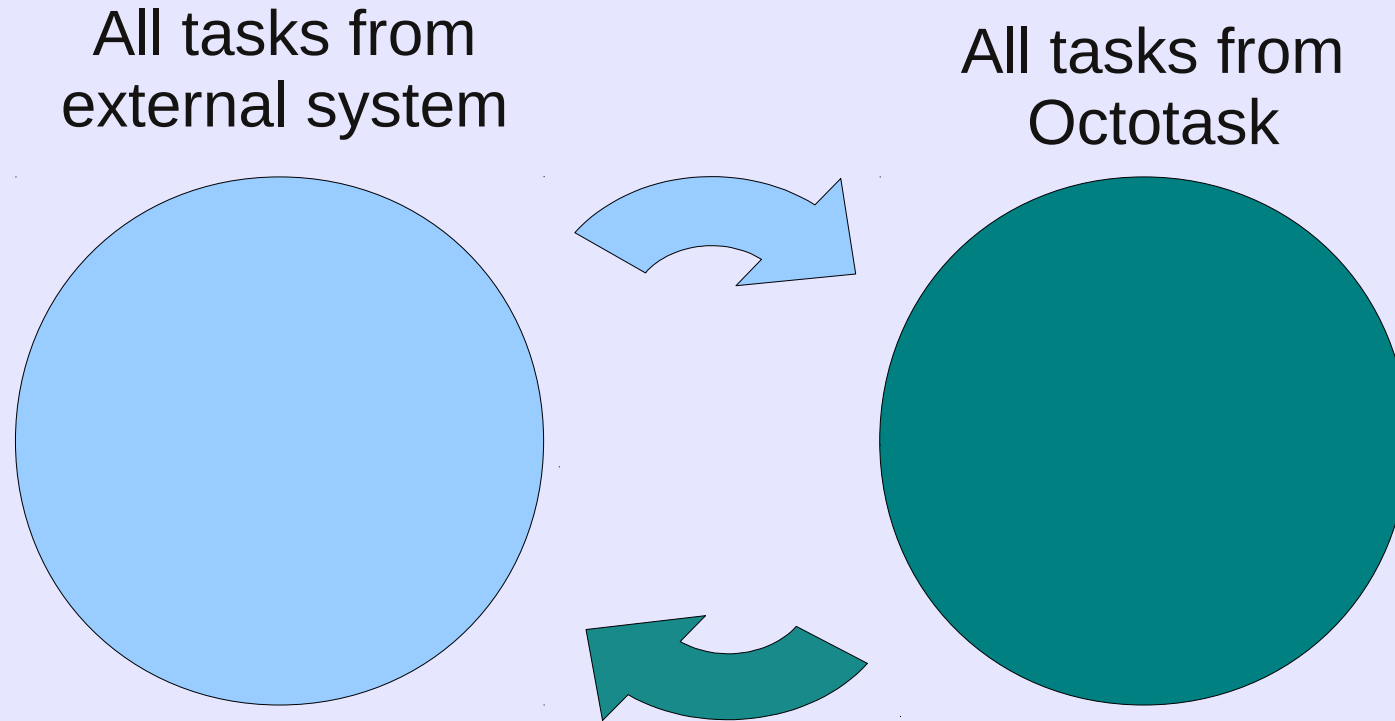
Redmine external system

Example of active tasks retrieval from Redmine

1. Retrieve uncompleted task assigned to current user via network request.
2. Map tasks retrieved from Redmine to tasks in Octotask.

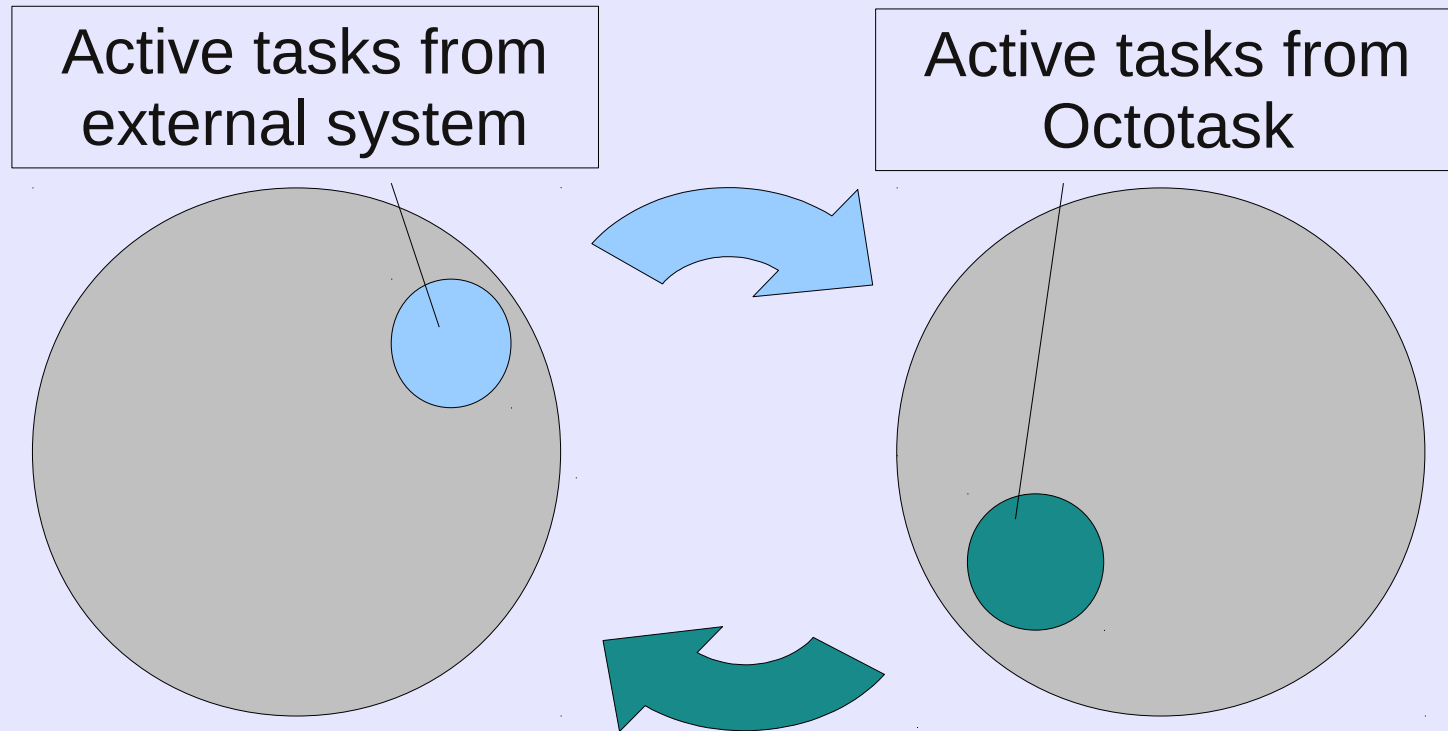


Basic idea of task synchronization



- + : Simple synchronization algorithm
- : Big traffic overhead

Proposed idea of task synchronization



- + : Archived tasks are not synchronizing
- : Retrieval of extra single tasks during synchronization

Tools & supported platforms



Symbian ^ 3

MeeGo 1.2 Harmattan

Octotask: Results & future proposals

Main results:

- Synchronization algorithm independent from concrete external task systems
- Synchronization with Redmine & Google tasks
- UI based on Qt Quick components

Future proposals:

- Plugin mechanism for external systems
- Event-based task systems support
- GPS-based context switching