

The TripCom prototype in the 3rd year



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WP6 Session

Helsinki, 18-19 September 2008



- New features and functionalities
- Schedule
- Features not ready for evaluation in WP6
- Kernel status (tests, bugs)

- Support for transactions (to be specified in T3.7)
- Support for data movement in relocation process of self-organisation (T2.9)
- Improvement, refinement of the existing code and benchmarking.

- Optimization of distributed index storage system.
- Support for communication with Query Preprocessor for the distributed query processor.
- Support for transactions: Since creating the indices in the DHT takes much (processing) time, the DM should create the indices only after a transaction is committed.
- Support for self-organisation (to be defined in T2.9)

- Extensions to the security support may be possible, e.g. support for actual security standards as opposed to simplified non-standardized string passing (to be discussed in WP5).
- Full API operations support:
 - Transactions
 - Notifications via callback (not query-based), to be discussed with use case partners.
 - New operations for QPP and self-organisation

- Query processing support (for distributing queries across kernels)
- Impact on other components:
 - Subcomponent of DM
 - Uses metadata (RDF stats)
 - Interaction with TS API and TS Adapter

- Modification and extension of existing implementation to add full transaction support (T3.7)

- Storage and retrieval of metadata on kernel load (for QPP and self-organisation)
- Clustering, i.e. storage and retrieval of clustering related metadata.
- Possibly additional support for self-organisation (to be discussed in T2.9)

- Optimization of policy evaluation
- Enhanced TAM model
- Security and distribution - data indexing (the scope of this is still to be defined)
- Security and distribution - request forwarding (scope to be defined)
- Security w.r.t. new types of queries discussed in WP2 (scope to be defined)
- Support for transaction operations (Permit-All-security level)
- Support for self-organisation (Permit-All).

- Integration of TripCom and WSMX
 - Communication between WSMX-Clients, WSMX and Web Services invoked through WSMX over Triple Space. (→ Implementation of Triple Space Web Service Bindings)
 - Management of WSMX Data (Goals, mediators, Web services and ontologies) in Triple Space.
 - Coordination of WSMX-Components through Triple Space.

- Query Preprocessor
- Transactions
- Self-Organisation, distributed spaces
- Integration of TripCom and WSMX
- Improved components (security, storage, distribution, ...)

- T6.7 ends M33
 - → integrated and tested kernel by end of December.
 - Scalability evaluation depends on it.

- Not all features will ready by M33 → 2 kernel versions
 - „December kernel“
 - „Final kernel“

- November 16: all features implemented in the individual components
- November 30: components tested
- December 21: kernel integrated and tested

- November 16: extra branch for the final kernel.
- Features added after November 16 will not be evaluated in WP6.

- February 8: all features implemented in the individual components
- February 15: components tested
- March 1: kernel integrated and tested → final prototype
- March 15: CD-ROM image, virtual machine images, ...

- Changes committed after the final release will only be available via the SVN repository.

- Security Manager
 - Special case because the second implementation task (T5.6) ends M36.
 - Most things won't be ready for the (scalability) evaluation in WP6.
 - To be discussed (also) in WP5 session
 - Some performance evaluation in WP5

- Web Services (Tripcom and WSMX integration)
 - Task T4.6 also ends M36
 - Components are built on top of the kernel or use the kernel as it is.
 - → WP6 does not depend on T4.6. WP4 work can be planned independently. Work will not be evaluated in WP6.

Features NOT included in December kernel (3)



- Anything else?

- Early M34 (January): First scalability tests → check infrastructure, tooling, test-clients, ...
- End of M34 - early M35: Perform measurements
- End of M35: Analyse data
- M36: Document results

- Many things do work now ...
- ... but still a few open bugs:
 - Deprecated fields
 - Timeout issues
 - Exception ignored
 - ...

- TUW to release new tag after bugs are fixed

End of Document