Distributed Semantic MediaWiki
http://dsmw.org

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Abstract

DSMW is an extension to Semantic MediaWiki (SMW). It allows to create a network of SMW servers that share common semantic wiki pages. DSMW users can create communication channels between servers and use a publish-subscribe approach to manage changes propagation. DSMW synchronizes concurrent updates of shared semantic pages to ensure their consistency. It offers new collaboration modes to semantic wiki users and supports dataflow-oriented processes.

Saving pages generates patches

Saving pages generates patches represented as semantic wiki pages.

Wikis publish feeds of patches, Wikis subscribe to feeds of patches

Patches can be selected through semantic queries and published in “feeds”. These feeds are also semantic wiki pages.

Develop your networks, build editable mashups

If every DSMW nodes receives all operations, then every DSMW node have identical copies. DSMW ensures eventual consistency, causality and Intention preservation.

Conclusions

DSMW allows to synchronize semantic wikis. Semantic wikis can publish feeds of patches and subscribe to feed of patches. DSMW ensures eventual consistency.