

Wiki-based Multi-Level Collaboration

Based on the popular MediaWiki software and enforced by the Trusted Services Engine (TSE), ML Wiki will feel familiar to Wikipedia or Intellipedia users and can enable secure multi-level and cross-domain information sharing.

Key Benefits

- Secure cross-domain information
- Complexity confined to single-level components
- Industry standard protocols
- Trusted Services Engine is key cross-domain component

ML Wiki Overview

Wikis are designed for sharing, but some information is too sensitive to share with everyone. The ML Wiki allows users on a High network (such as Top Secret) to collaborate on a wiki with users on a Low network (such as Secret). When the Low user edits the wiki, it is visible to the High user, but when a High user edits the wiki, the Low user does not see High's changes.

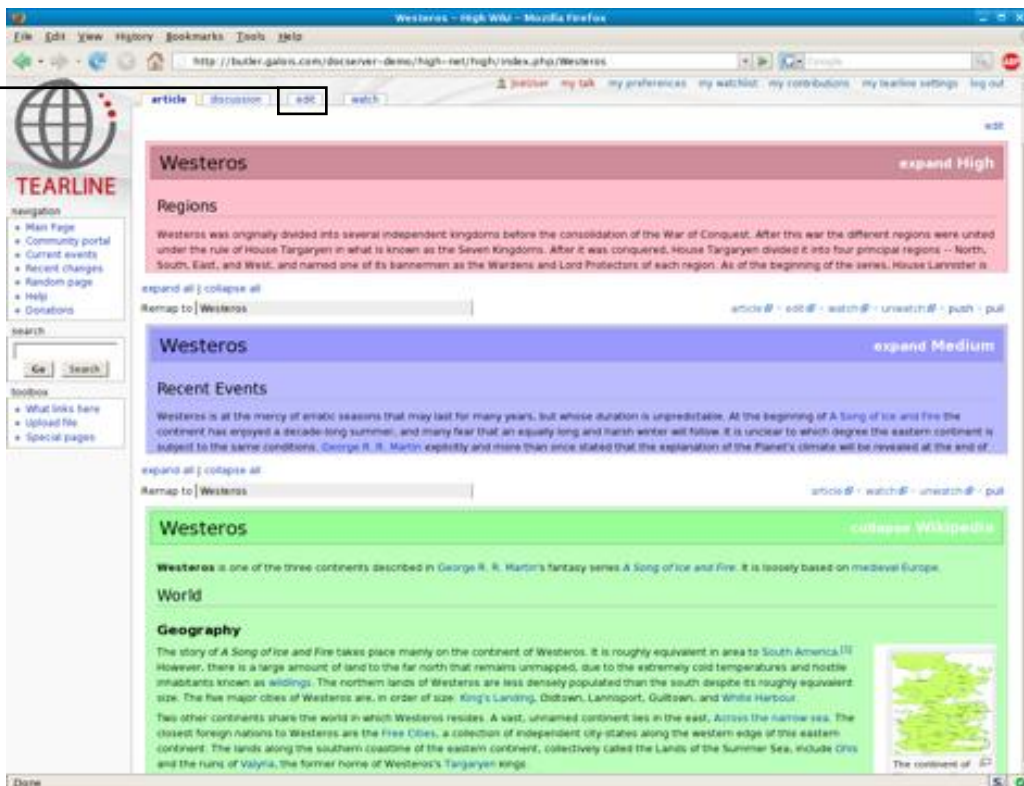
ML Wiki is a single-level component and, as such, does not require high levels of assurance to provide these capabilities. High can read-down, but Low cannot read-up, and High cannot write-down.

ML Wiki is being developed by Galois, Inc. under a Phase II SBIR contract with the US Navy – SPAWAR.

ML Wiki uses Trusted Services Engine (TSE) platform technology to enforce multi-level information separation. The TSE is a secure network file share with integrated read-down capability. Its high assurance design (targeting EAL6) ensures that no data can leak from the High network to the Low network. Developed under contract as a GOTS product for the US Navy and other agencies, the TSE is a trusted foundation technology compatible with emerging GIG standards.

Merged Wiki View: High

High can edit High content only



Banners separate content at each level

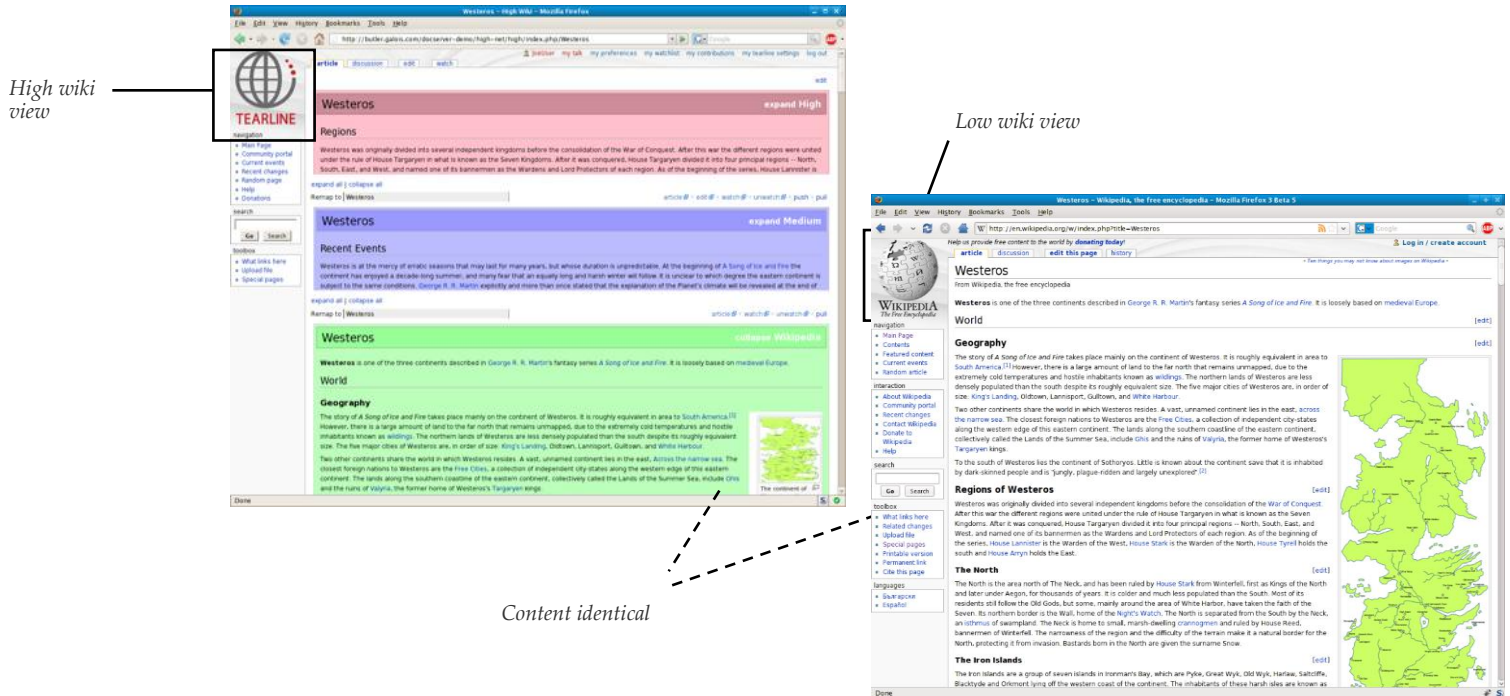
The wiki page begins with High content

Medium Content

Low content

Tear-line Use Case

A High user sees a combined view of High and Low wiki pages. The Low user sees the same view he/she is used to. High users can map any High page to any Low page in the case where wiki structures between High and Low are different. Cross-wiki search, High and Low talk pages, and a detailed history of all page modifications are provided.



FOR MORE INFORMATION:

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