ReSIST is an EU-funded "Network of Excellence" that integrates leading researchers active in the multidisciplinary domains of Dependability, Security, and Human Factors.

ReSIST aims to develop systems and architectures which are tolerant of residual errors, attacks, interaction mistakes, software faults, and physical failures, in order to support the development of next generation ubiquitous computing infrastructures.

The project has embraced Semantic Web technologies to...

- Create a Resilience Knowledge Base (RKB) to support the realisation of project goals
- Enable knowledge acquisition and integration of information from disparate sources
- Facilitate resilience explicit computing through the ontological description of components

This work presents significant challenges, both in technically creating such a system, and making it accessible to users.

Semantic MediaWiki

General wiki use benefits from augmentation and connection to RKB data

Simple browse and query interfaces permit navigation of RKB contents

A variety of other interaction and visualisation techniques are being explored

SPARQL interface permits interaction with external processes and services

The wiki facilitates collaboration between project members and permits incidental data capture

The core repository maintains large quantities of data, and provides query interfaces and co-reference services

RKB contains both regularly updated site-submitted data and static conversions of external sources

Version Control

Conversion tools

Semantic MediaWiki

3store RDF repository

Consistent Reference Service

In addition, form-based templates allow specialised data acquisition

Citeseer, ACM, DBLP, CORDIS, UN LoCode, ReSIST partners, ...