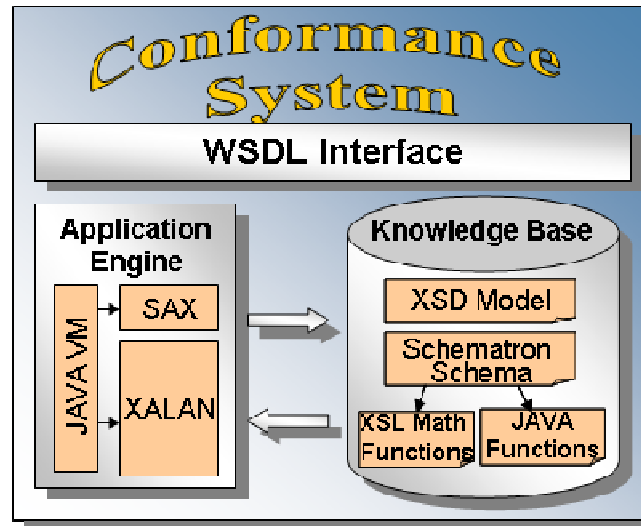


# Conformance Test System

The **Conformance Test System** intends to build industrial consensus on innovative standard-based solutions, facilitating the integration of ISO-STEP standards, e.g. the funStep™ standard, into the design of new products and services for the different sectors.

Conformance testing will assist as many organizations in the integration and adoption of the open standards. Using the conformance testing systems as support to legacy data systems development, certification, or in data exchange, companies can ensure the conformance of XML instance data with STEP standard conceptual models, thus improving interoperability within and among different industrial supply chains.



## Technical Overview

The Conformance Testing (CT) System for XML data, analyses data in two ways: both semantically and syntactically. It uses XSD models to check the XML data syntactically and, Schematron schemas to verify the semantic correctness of the instances.

The system application engine runs on top of a JAVA virtual machine with SAX and XALAN executing a full exam to the XML instance data.

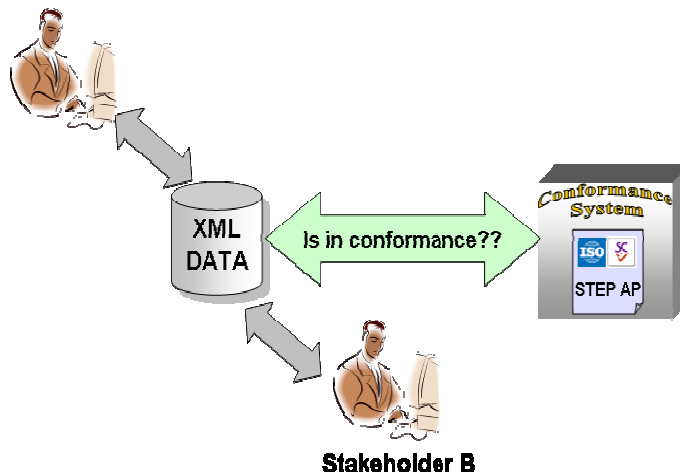
The Conformance Test System is accessible both through Web-service interfaces or as a stand alone application deployable on the use site.

## Scope

The Conformance Testing (CT) system is used to ensure the correct data exchange between companies, guarantying that the data is in compliance with the STEP standards adopted.

The data validation can be made on-the-fly, i.e. every time a sender/receiver exchanges data, or as a way to certify that software packages are able to process data compatible with the standard. In the last case, the testing only occurs at software development and certification stages.

### Stakeholder A



### Software Developer

