

The IHE logo consists of the letters 'IHE' in a bold, dark blue, sans-serif font. A vertical line is positioned to the right of the letters, separating them from the tagline.

IHE

Integrating
the Healthcare
Enterprise

Gazelle updates

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Agenda

- **Gazelle, KEREVAL and IHE Services**
- **Gazelle purposes**
- **Updates**
 - New tooling
 - New features
- **Focus on LAW**

Gazelle project

- **Interoperability and Conformance testing for health information system**
- **IHE Test bed**
- **Mainly funded by IHE Europe**
- **Open source platform (Apache 2)**
- **Tools available over the Internet all year long**

IHE Services

- **Part of IHE Europe**
- **Consultancy**
 - Training on IHE, how to use tools ...
 - Installation
 - Support
- **Specific developments**
 - Adapt tools to regional projects
 - Veneto (IT)
 - Luxembourg ...
- **Connectathons & Projectathons**

KEREVAL

- **French company based in Brittany**
- **Specialized in software testing and requirement engineering**
 - Functional
 - Technical (performance, security)
 - Multiple domains (bank, insurance, automotive...)
- **Long-term contract with IHE Europe for the development of Gazelle and other missions of IHE Services**
- **KEREVAL Health Lab (ISO/IEC 17025)**
 - General requirements for the competence of testing and calibration laboratories
 - Flexible scope
 - Accredited testing sessions

Gazelle purposes

Available tooling

- **Test Management**

- ✓ Connectathon management

- **Gazelle Master Model**

- ✓ Technical framework
- ✓ Test plan

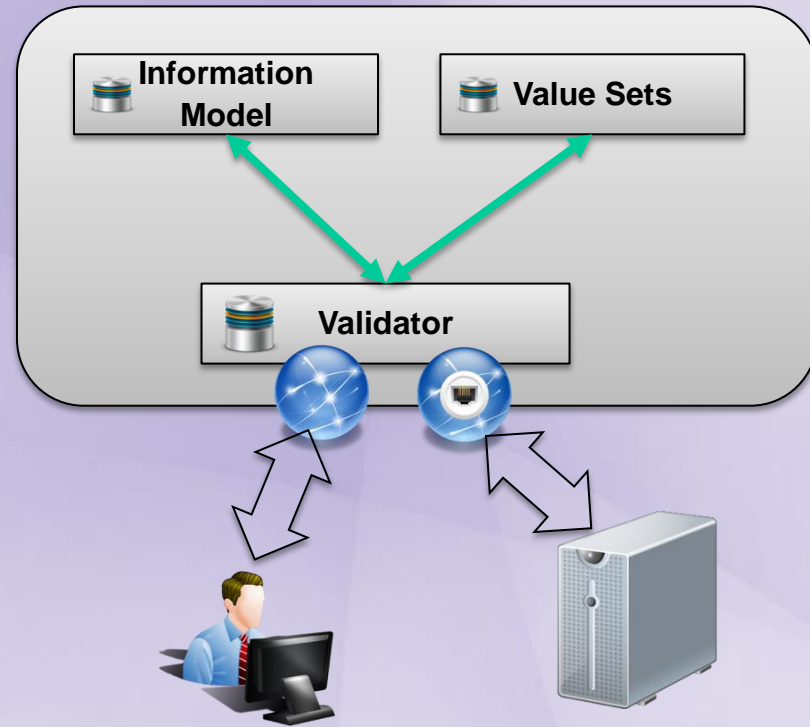
- **Validators**

- ✓ Conformance testing
- ✓ Web services

- **Simulators**

- ✓ Interoperability testing

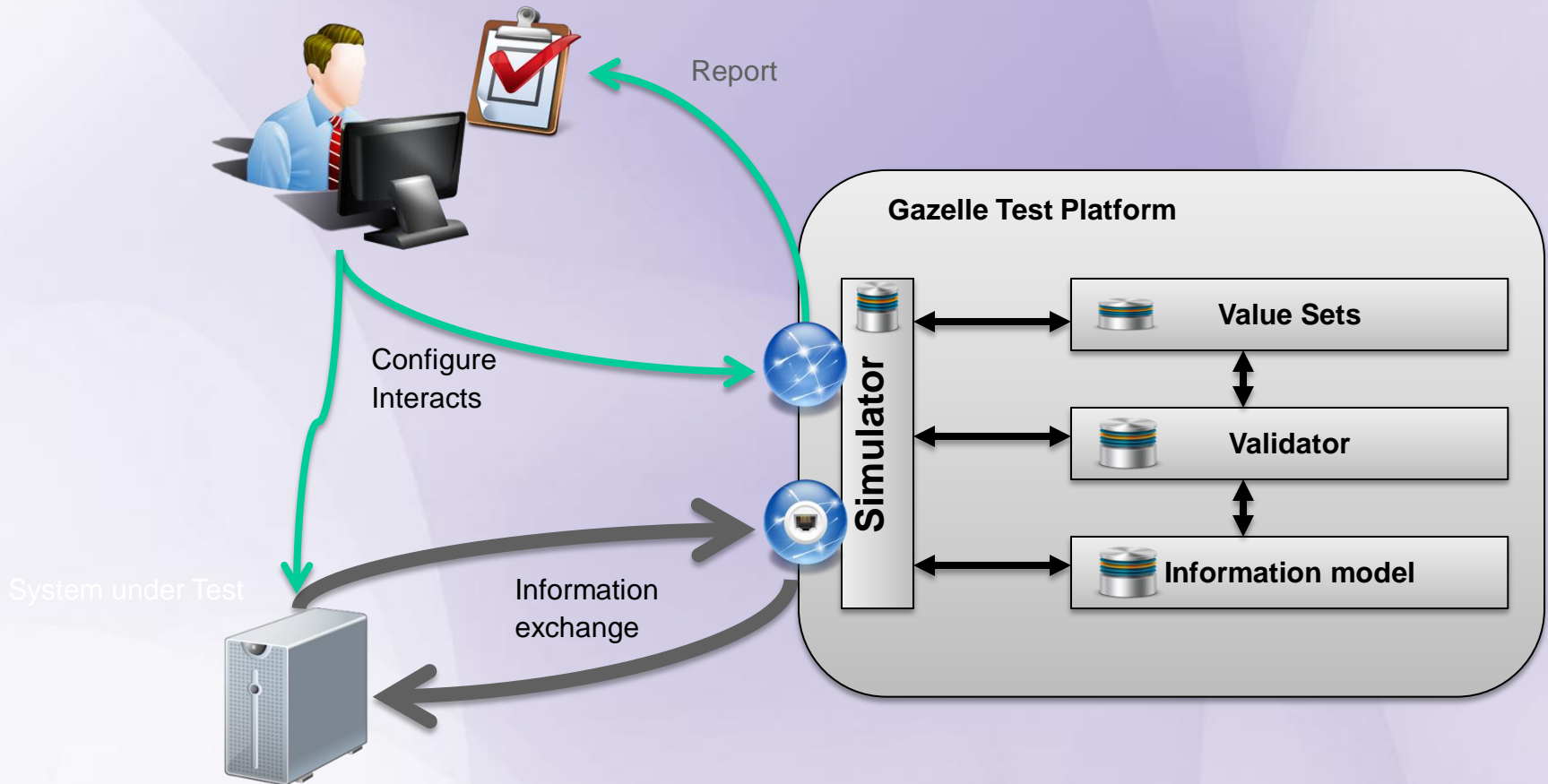
- **Goal** **Validation tool**
 - Verify that messages/documents are conform to the specifications
- **Target**
 - Developers
 - Testers
 - Other tools like simulators
- **Interface**
 - GUI for users : EVS Client
 - Web services for tools
- **Available**
 - HL7v2, CDA, SAML ...



Simulator Tools

- **Goal**
 - Test the interoperability of an application
 - Simulator is not a reference implementation
 - Simulator controlled to perform test cases
- **Target**
 - Developers
 - Testers
 - ➔ Simulators are accessible through the Internet for free
- **Interface**
 - GUI for humans to interact with the tool
 - Network socket for the protocol tested
 - Web service to call validation tool,
 - Dynamic access to coded value set

Simulator Architecture



Updates (since February 2013)

New tools

- **Assertion Manager**
 - Gathers the requirements extracted from specifications
 - Link with the validation tools
 - Link with Gazelle Master Model
 - Compute coverage for requirements by tests

New features

- Requirement coverage by tests
- Report issues on test cases in Jira
- New validation services

Focus on Laboratory Analytical Workflow

Updates in Gazelle

- **Test cases updated by Technical Committee**
- **HL7 message profiles updated**
- **LAW actors in Order Manager have been updated (work still needed)**

AACC Congress

- August 2013
- Demonstration of Gazelle for testing LAW



Connectathon participation for LAW

- **Chicago 2014**
 - 5 systems
 - 4 Analyzers
 - 1 Analyzer Manager
 - 35 test instances
- **Vienna 2014**
 - 3 systems
 - 2 Analyzers
 - 1 Analyzer Manager
 - 19 test instances

The image features a light purple background with abstract, flowing lines and a globe in the bottom left corner. The globe shows the Americas. The IHE logo is prominently displayed in the center-left. To its right, a vertical line separates the logo from the tagline. The tagline is stacked in three lines. The overall aesthetic is clean and professional, suggesting a global and integrated organization.

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