LA SECURISATION DE LA CHAINE LOGISTIQUE/SECURING THE SUPPLY CHAIN

REQUIREMENTS :
Concepts and methods for security management along the entire commodity chain, with the aim of identifying and assessing failure risks and damage potential, detecting security gaps at an early stage, recognizing technical and organizational deficits, and identifying potential for the reduction of dependencies from delivery failures.

SCENARIO ACTORS:
End users include public authorities, security and emergency services (police, customs, disaster relief, and others) and infrastructure operators (e.g. transport and logistics providers, commercial enterprises, and operators of storage facilities and transportation hubs for goods and commodities).

EDIAUDIT LEARNING EXERCISE : HOW TO ELABORATE INNOVATIVE DESIGN COLLABORATIVE SUPPLY CHAIN SECURING PROCESS USING INTELLIGENT DOCUMENT CONCEPT?

I- RATIONALE:

If a knowledge sharing infrastructure is going to be provided, there exists a need to process or handle documents, which will contain information in several formats, specifically multimedia content.

We propose the introduction of intelligent document. It is not only a modular form, but it is produced by service coordination. The coordination engine using a process interaction module and message interaction module govern the distribution between communities. Following this we introduce the main functionality of the intelligent document that will be involved in the process interaction (workflow): It will be: (1) Multi-Composed (2) Multi-Version (3) Multi-Dependence (4) Multi-Datatype and (5) Multi-Platform.

For this purpose, actual standards must be improved, leading to SPDF (Standard Process Description Format), which has been developed as part of the SMISOS[1] project. Some degree of 'intelligence' will be added to handle document content and automatically manage the information flow according to a predefined business model. We define the reference document interacting with different actors. It is envisaged that the modelers will define a document model that is able to support the syntactic and semantic document representation and the standards for electronic documents exchange.

State of the art Web service ontology engineering is published at: http://www.ediaudit.fr

Innovative design is characterized   by   an intense, collaborative process of generating and exploring ideas meant to contribute to the solution   of particular problems.   Innovators go through cycles of divergence, in which new ideas are   generated and explored, and convergence, in which new ideas are valued and detailed. Our project will design and build a responsive web-based environment that will offer an integrated suite of knowledge eliciting and sharing tools, and create a collective, sharable memory to support the entire innovative design process. At the present time 3 scenarii are elaborated to describe the present rationale:

scenario1: automatic user evaluation

scenario2: tutor-user-topic's content forum (for feeding question bank)

scenario3: Innovative Design Collaborative Process

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[1] **Standard Modules for Intelligent Servers using Open Source concept and facilities**

II- VIRTUAL TUTOR CASE

The virtual tutor role is to distribute frequently some questions to end users to be answered to test their ability to identify and predict threat parameters and causes, and to examine the dynamics of individuals and organizations in situations of crisis.

The scenario starts with a tutor, users and a business case, like "How to predict protagonists behavior in failure or disruption situation of which would result in long-term supply shortages, major disturbances to public security or other dramatic consequences ?"

- **Tutor sends a request to start search into data repository.**
- **The Tutor is backed by an automated process (virtual tutor) on the server which selects randomly some questions from data bank and sends to users.**
- **User's answers are evaluated by the virtual tutor.**

A coupled operation between assessment and learning implies to reinforce knowledge of a user through continuous navigation into questions and answers data bank.

The intelligent document's target is to establish collaboration between the automated (virtual) tutor and the physical tutor. This collaboration will allow in another type of scenario, to build an extended collaborative question bank which is composed of wrong answers or new good answers. The evolution of the Data repository will allow users to retrieve more accurate information and to predict needs progress and related products in Securing the supply chain.