

## IST PROJECT 2001-35399



### A Governmental Knowledge-based Platform for Public Sector Online Services

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**Abstract:** This deliverable constitutes the implementation report of WP5. It presents the implementation details of the SmartGov Front-End developing environment.

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## **List of Acronyms**

<b>Acronym</b>	<b>Explanation</b>
JSP	Java Server Page
KU	Knowledge unit
MVC	Model-View-Controller
SGA	SmartGov agent
TS	Transaction service
TSE	Transaction service element
TSE Group	Group of transaction service element
XML	Extensible Markup Language
JSP	Java Server Page
XHTML	eXtensible Hypertext Markup Language
RUP	Rational Unified Process
UML	Unified Modeling Language
WAP	Wireless Application Protocol
XSLT	Extensible Style sheet Language Template
WML	Wireless Markup Language
JDBC	Java Database Connectivity
API	Application Programming Interface
RDBMS	Relational Database Management System
LDAP	Lightweight Directory Access Protocol
DSN	Data source name
BEAN	Java Bean

## **Executive Summary**

The SmartGov project, fully entitled as "A Governmental Knowledge-based Platform for Public Sector Online Services", commenced on the 1st of February 2002. The aim of the SmartGov platform is to introduce a *holistic approach* for the use of electronic forms within the public sector. This approach is focused on two main axes:

- Integrating emerging standards with state-of-the-art technology and with advances in areas such as knowledge management, Web technologies, interoperability and accessibility.
- Introducing this technology in a systematic manner by adopting new process models and process re-engineering and process improving methods.

In order to support these axes, a complete knowledge-based development environment will be provided to the public authorities, supporting all phases of electronic, form-based services development, deployment and maintenance. This environment will be complemented with a generic framework, including process models, reference models and social acceptance models for the introduction of electronic services.

In the workpackages that have been completed insofar, the state of the art has been reviewed (WP3 [D31]), the current status of the participating public authorities has been captured (WP3), the user requirements have been analysed (WP4 [D41]) and the high-level specifications of the system have been derived (WP4). After that the software architecture document of the platform was produced, which reported on work carried out in WP5 and WP6 and provided detailed system specifications for the architectural modules identified in WP4 as parts of the SmartGov platform. The present document is an elaboration of the low level design that was delivered within the aforementioned joined deliverable (D51-D61 [D51-61]) and constitutes the outcome of a number of iterations that were performed during the development phase; as such it contains more implementation details than the previous deliverable. It corresponds to the implementation work carried out within workpackage 6 and does not include components that were developed outside this workpackage. This is due to the suggestion of the review panel to keep separate the two implementation deliverables (D52 and D62). Hence the implementation work reported here presents the implementation details of the following components: Knowledge Management and Service Design Front-End tool.

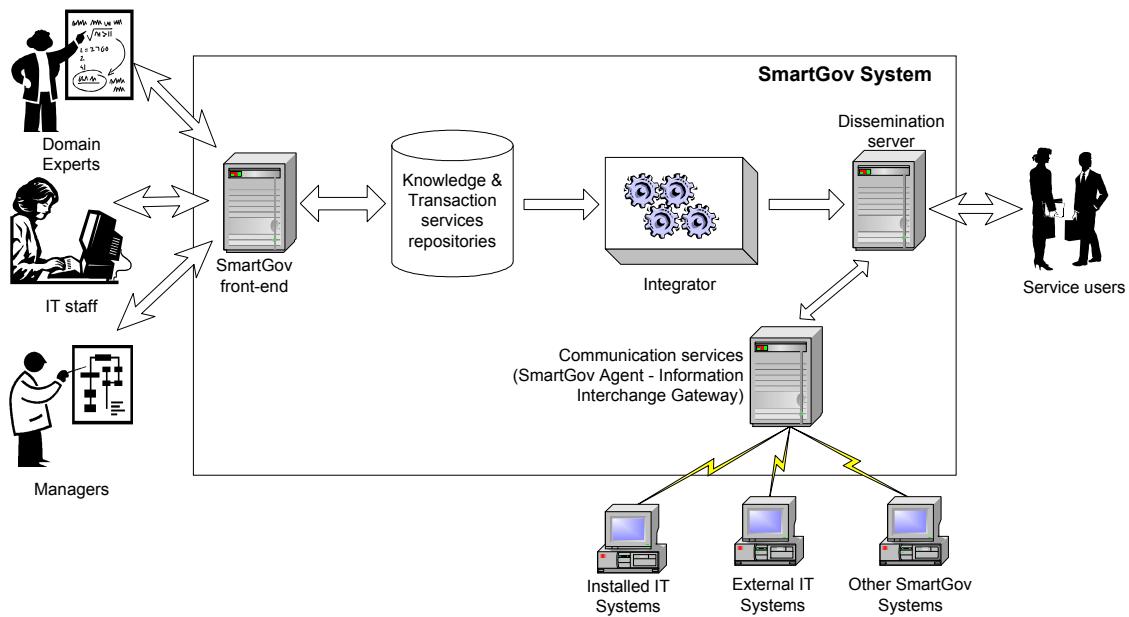
# **1 Introduction**

The SmartGov platform software was specified, designed and developed by following the Rational Unified Process [RUP]. As this process suggests, the specifications, design and development do not happen strictly sequential but in an iterative manner. The present deliverable constitutes an implementation report that presents the outcome of the last iteration of the development phase. Hence it contains more implementation details than D51-61 [D51-61] and also slight changes in the design and implementation.

The document firstly provides a brief description of the overall SmartGov platform architecture, in order to familiarise the reader with the modules of the platform, their functionality and their interactions. The next section (the core section of the document) presents the Front-end component, which is responsible managing the XML repository (presented in D51-61 and further in this deliverable) of Knowledge and service definitions. The XML repository is the entry point to the Integrator component (presented in D51-61 and D62), which processes these descriptions and generates the run-time e-forms application. For further information about XML, the reader should refer to [XML].

## 2 Platform Overview

In the following paragraphs, the high-level architecture of the SmartGov platform is summarised. This section aims to provide the reader with a global view of the SmartGov platform and outline the modules involved in the development and delivery of transaction services. These modules are detailed in the main part of this deliverable.



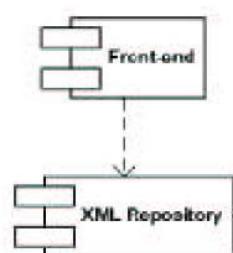
**Figure 1 Overview of the SmartGov platform**

Figure 1 illustrates the SmartGov platform architecture, in which the following modules may be identified:

- The SmartGov knowledge and transaction services repositories. These are general depots for storing organisational knowledge and information pertaining to the transaction services that are developed using the SmartGov platform. In order to provide a semantically rich environment and facilitate extensibility and interoperability, all data is stored in XML format.
- The SmartGov front-end, which constitutes of personalised application development environments which are available to the actors involved in the lifecycle of electronic transaction services, namely domain experts, IT staff and managers. The actors employ the SmartGov front end web interfaces to populate, query and modify the knowledge and transaction services repositories.

- The integrator, a software module that reads the contents of the knowledge and transaction services repositories, and automatically generates all necessary elements (files, objects, components etc) for a fully operational transactional service. These elements are then deployed on a dissemination server, initiating service delivery to the users.
- The communication services, comprising of two units, namely the SmartGov agent and the information interchange gateway. This module provides generic communication mechanisms with installed IT systems for the purposes of data exchange, hiding idiosyncrasies and peculiarities of information system platforms and facilitating resilience against temporary failures.

In this document, the design of the two first modules, the SmartGov knowledge and transaction services repositories, and the SmartGov Front-end are described.



**Figure 2 Front-end and XML Repository Modules**

## **3 The SmartGov front-end**

### ***3.1 Introduction***

The SmartGov front-end is responsible for providing a development environment for managing knowledge and developing and populating the design of the components that take part of the different transaction services. The repository populated using the SmartGov front-end will be the entry point to the Integrator. This development environment is available to the actors involved in the lifecycle of electronic transaction services, namely domain experts, IT staff and managers. The actors employ the SmartGov front-end to populate, query and modify the knowledge and transaction services repositories.

The front-end has been developed and built according to the Struts<sup>1</sup> framework and the access to XML is wrapped using Castor Framework<sup>2</sup>. The next section of this chapter gives an explanation about how the front-end is structured and the role that Struts and Castor play; a more detailed analysis of the role of Struts and Castor in the overall SmartGov architecture can be found in [D51-61].

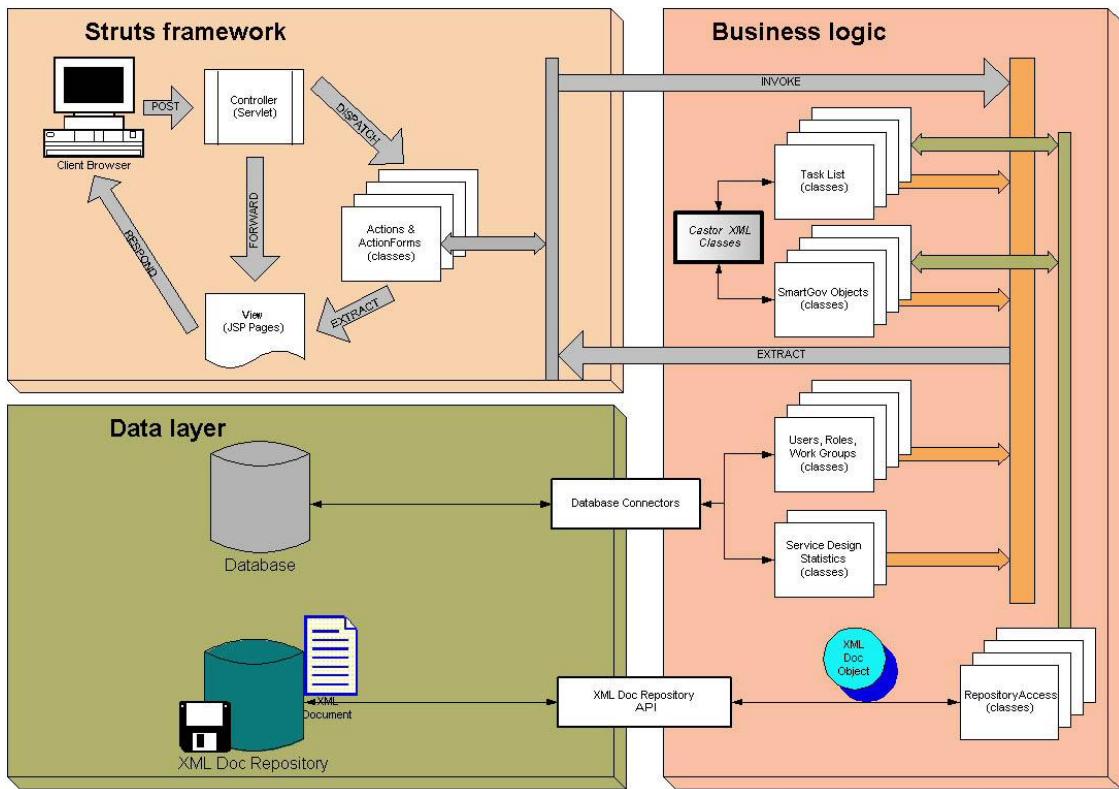
### ***3.2 Front-end structure***

Some of the parts included in this section also exist within the previous deliverable D51-D61, but are also included here for completeness purposes. Figure 3 depicts the general structure of the front-end.

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<sup>1</sup> The Struts framework provides the invisible underpinnings that a web application needs in order to be extensible, re-usable and eliminates several dangers faced in the development of such applications. Struts helps in creating an extensible development environment for an application, based on published standards and proven design patterns. Its basic principle is the support of the Model-View-Controller design pattern and that is why in the next section this pattern is introduced. For further information, the interested user is referred to [Struts]

<sup>2</sup> Castor is an open source data binding framework, which maps a Java object model to and from XML, according to a given XML schema. For further information about Castor, the reader should refer to the [Castor]



**Figure 3 Structure of the front-end**

As it was presented in D51-61, the SmartGov Front-end has been developed according to the MVC (Model-View-Controller) architecture, a standard approach for developing applications and also used to deliver the SmartGov services (see D62).

The Struts framework specifies a central element in the MVC architecture, the controller, which is responsible for distributing requests and responses to the appropriate components. This controller can be customized with an XML file (`Struts-config.xml`), configuring the actions that it is able to carry out, and the corresponding views to show the results.

Thus, a set of classes must be developed in order to add new actions to the application. These classes are:

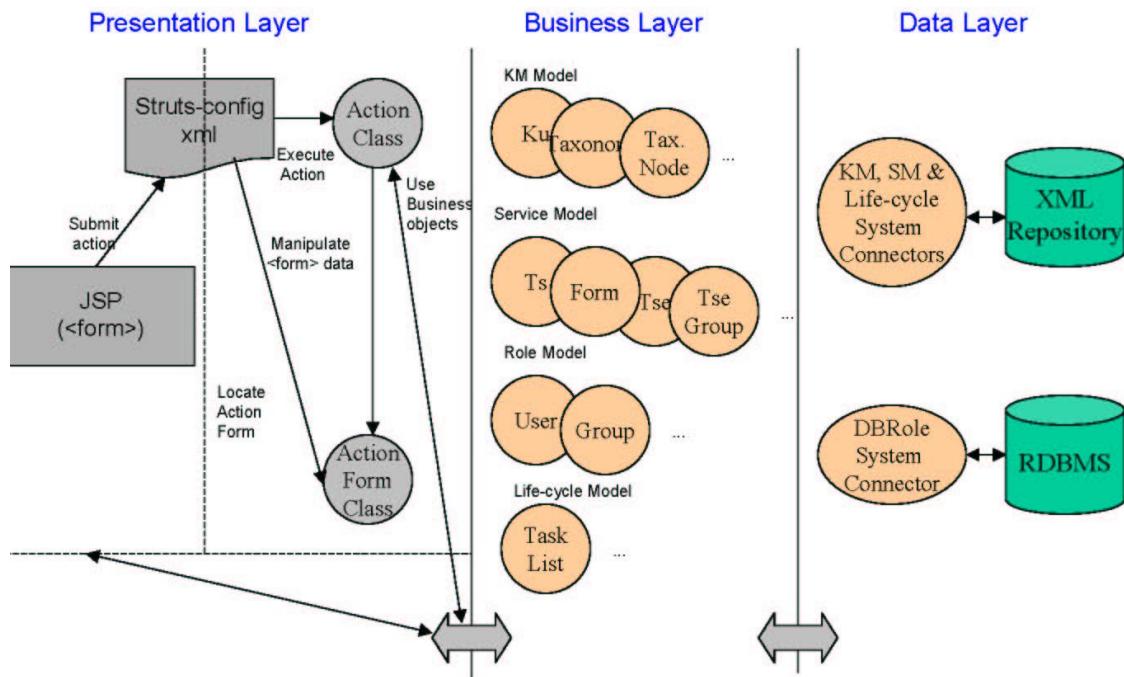
- **Action class:** When the controller decides which action must be performed, it calls the `perform` method in the class that extends `org.apache.struts.action.Action`. In this method, the corresponding checks and calls to business logic classes will be done. The return values from the business logic and the configuration established in the Struts XML file are examined to determine the next view to be shown to the user.

- **ActionForm class:** This is a BEAN that encapsulates the access to the different fields in a Web form. Using Struts JSP Tags in collaboration with a class that extends `org.apache.struts.action.ActionForm` allows to automate the communication from the action to the form and vice versa. This class allows set/get the fields in the form with the corresponding methods, and adds a method to validate the modified / inserted data.

Therefore, for each action implemented in the front-end, both Action and ActionForm classes are required besides the necessary business logic classes. Using this approach, the business logic is kept isolated from the Web environment, leveraging its reusability in other non-Web environment e.g. desktop application, wap, ....

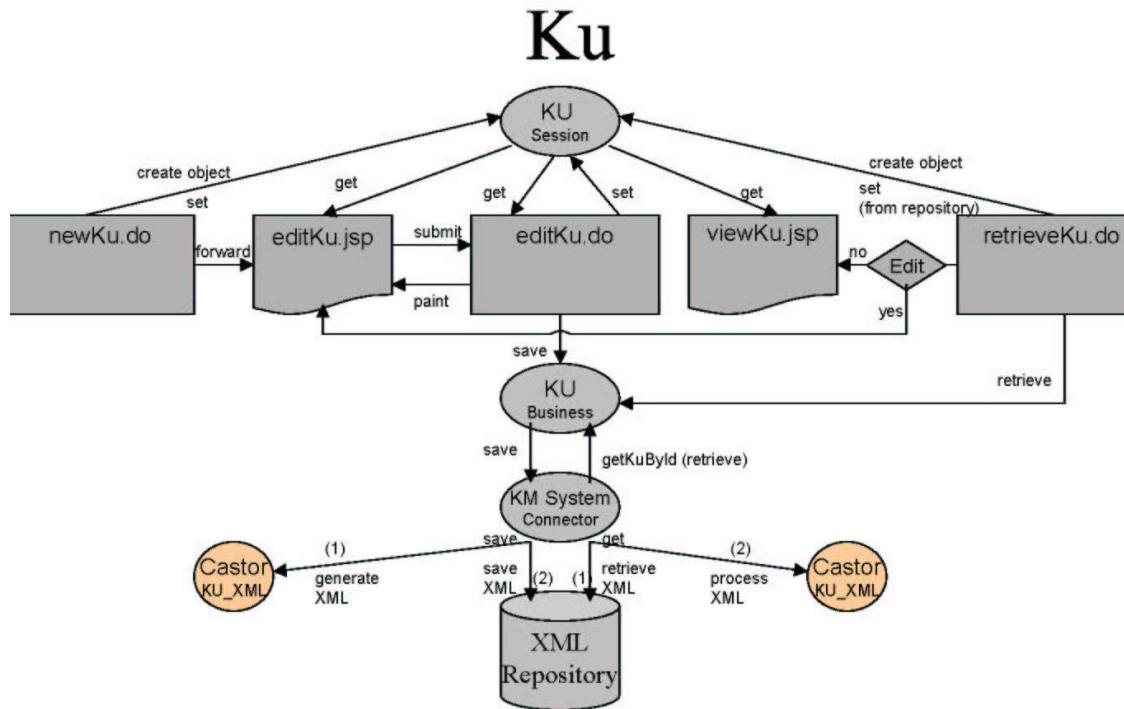
Taking into account the previous discussion, the description of the SmartGov Front-end can be logically divided in different layers of abstraction. These are depicted in the Figure 4 along with the names of the corresponding elements.

## SmartGov Front-end Layers



**Figure 4 Elements comprised in the Front-end Layers**

In the Presentation Layer we have the web interface components (mainly JSP) which is driven by the struts-config.xml file. Action and Action Form classes connect this layer with the business layer, and through them the access to the Data Layer is granted. Besides, every SmartGov object developed in the Front-end (Ku, Tse, Ts...) follows a similar schema of components. As a matter of example the schema of the Ku object components is shown in the Figure 5 .



**Figure 5 KU object class diagram using Castor and Struts**

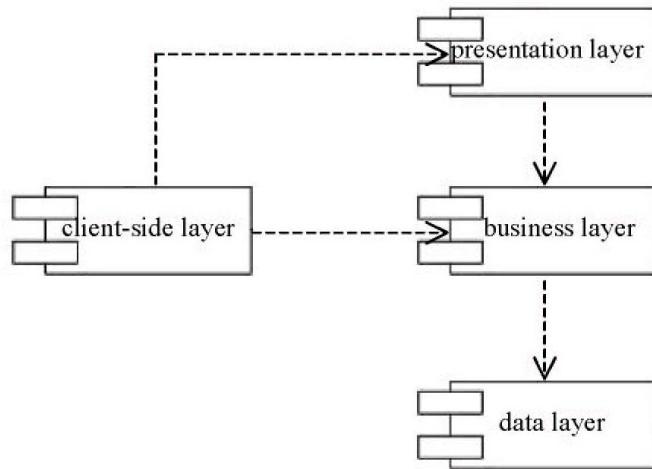
In the Figure 5 , an example of the schema of front-end components for the case of the Ku element is depicted:

- JSP components: part of the presentation layer that give access to the actors (editKu.jsp, viewKu.jsp). For further information about JSP, the reader should refer to [JSP].
- SmartGov front-end Struts Action classes: newKu.do, retrieveKu.do and editKu.do are interpreted by the Struts configuration file (struts-config.xml) and redirected to the action classes (in this case the classes newKu, retrieveKu and editKu). The action classes use the associated SmartGov Struts form classes to communicate with the data managed in the JSP components.

- SmartGov Business classes: the Ku object, which contains the data, properties and methods of a Ku in SmartGov. The business objects are bridges between the presentation layer and the data layer.
- System Connectors: classes that allow access to the Data layer (in this case the KMSysmConnector class). These classes use the generated Castor XML wrappers and the XML Repository API to facilitate the access to the XML data stored in the XML Repository, or the RDBMS connectors to access to data stored in database.
- Castor classes: Castor framework provides a method to create a set of classes that allow easy manipulation of XML data based on a XML Schema. Thus a set of wrapper classes has been created for each of the XML Schemas used in SmartGov (see Appendix C).

### **3.3 Front-end Implementation**

At the highest level, the Front-end application is comprised of three java layers and an extra client-side layer based on JSPs. The Figure 6 shows the general structure of the Front-end.



**Figure 6 Front-end layers structure implementation diagram**

#### **3.3.1 Client-side Layer**

This section describes the layer that is closer to users. It comprises several components, basically JSP pages and other supporting elements (JavaScript libraries,

includes, etc). In this section a basic enumeration of the developed elements is provided.

### 3.3.1.1 Java Server Pages (JSP)

JSP pages are the main responsible in generating the HTML that is server to the browsers. The next table contains the whole list of JSP pages used in the SmartGov Fron-end.

Name	Description
changePassword.jsp	Allow to the users to change their own passwords
closeChild.jsp	Utility page that close the current navigator window and returns to the parent one
closeChildPortal.jsp	Utility page that close the current navigator window and returns to the portal
editForm.jsp	Main editor of the SmartGov Form object
editGroup.jsp	Main editor of the SmartGov work group object
editGroupUser.jsp	Allow to define the users that are associated to a work group
editITse.jsp	Main editor of the SmartGov Instantiated TSE object
editITseGroup.jsp	Main editor of the SmartGov Instantiated TSE Group object
editKu.jsp	Main editor of the SmartGov Knownldege Unit object
editKuSection.jsp	Allow to define the sections (descriptions, links...) that are associated to a KU
editMethod.jsp	Allow to define methods that are associated to several SmartGov service objects
editNode.jsp	Main editor of the SmartGov Taxonomy Node object
editRule.jsp	Allow to define validation rules that are associated to several SmartGov service objects
editTaxonomy.jsp	Main editor of the SmartGov Taxonomy object
editTs.jsp	Main editor of the SmartGov Transactional Service (TS) object
editTse.jsp	Main editor of the SmartGov Transactional Service Element (TSE) object
editTseGroup.jsp	Main editor of the SmartGov Transactional Service Element Group (TSE Group) object
editTsFormSet.jsp	Allow to define the form sets that are associated to a TS object
editUser.jsp	Main editor of the SmartGov User object
indexKMEditor.jsp	Portal like page that allow navigation among the options of the Frot-end tool and to manage Knowledge Managment objects
indexServiceEditor.jsp	Portal like page that allow navigation among the options of the Frot-end tool and to manage Service objects

<b>Name</b>	<b>Description</b>
logon.jsp	Logon page
selectGenericTse.jsp	Select and show a list of TSE and allow to select several of them to link to other SmartGov objects
selectKu.jsp	Select and show a list of KU and allow to select several of them to link to other SmartGov objects
selectNode.jsp	Select and show a list of Taxonomy Nodes and allow to select several of them to link to other SmartGov objects. It has several method to perform the selection.
selectTaxonomyNode.jsp	Show a simple list of Taxonomy Nodes and allow to select several of them to link to other SmartGov objects
selectTse.jsp	Select and show a list of Instantiated TSE and allow to select several of them to link to other SmartGov objects
selectTseGroup.jsp	Select and show a list of Instantiated TSE Groups and allow to select several of them to link to other SmartGov objects
showKuList.jsp	Show a list of KUs and allow to select several of them to link to other SmartGov objects
showLinkedToTaxonomyNodeList.jsp	Show all the objects linked to a particular Taxonomy Node
showNodeList.jsp	Show a simple list of Taxonomy Nodes
SmartGovPortal.jsp	Portal like page that allow navigation among the options of the Front-end tool and to presents the Task List, a list of TSs, a Taxonomy Searching tool, and the possibility of changing the work group.
taxonomyRetrieval.jsp	Show a list of the available taxonomies and allow the retrieval of the nodes linked to them
uploadForm.jsp	Allow to upload the Form Layout associated to the SmartGov Form object
uploadLink.jsp	Allow to upload the files to attach to a KU object
viewForm.jsp	View page of the SmartGov Form element
viewGroup.jsp	View page of the SmartGov work group element
viewITse.jsp	View page of the SmartGov Instantiated Tse element
viewITseGroup.jsp	View page of the SmartGov Instantiated Tse Group element
viewKu.jsp	View page of the complete SmartGov Knowlegde Unit element
viewMethod.jsp	View page of the SmartGov Method associated to other SmartGov elements
viewReducedKu.jsp	Reduced view page of the SmartGov Knowlegde Unit element
viewRule.jsp	View page of the SmartGov Validation Rule associated to other SmartGov elements

Name	Description
viewTs.jsp	View page of the SmartGov Transaction Service (TS) element
viewTse.jsp	View page of the SmartGov View page of the SmartGov Transaction Service Element (TSE) element
viewTseGroup.jsp	View page of the SmartGov Transaction Service Element Group (TSE Group) element

### 3.3.1.2 JavaScript libraries (JS)

JavaScript libraries are used to contain several common JavaScript code that is used in the JSP pages. Javascript usage in the context of the SmartGov front-end tool is minimised, in order to facilitate the cross-browser compatibility.

Name	Description
browserCheck.js	Check the type of browser
indraUtil.js	Several JavaScript utilities
loadimages.js	Speed the image loading
treeview.js	Manage the Taxonomy View
windowManagement.js	Manage the page parameters

### 3.3.1.3 Includes

Includes are really pieces or complete JSP pages that are used from several other JSP pages. Thus an include avoid the re-duplication of code. A list of the includes is shown in the next table.

Name	Description
fieldsToSearchKu.jsp	Allow searching KU by Id
generalTitle.inc	Title of the portal pages
headerForAll.inc	UTF8 tag for special characters (Greek)
lastForms.jsp	Select and show a list with the last modified SmartGov Form elements
lastITseGroups.jsp	Select and show a list with the last modified Instantiated Tse Group elements
lastITses.jsp	Select and show a list with the last modified Instantiated Tse elements
lastKus.jsp	Select and show a list with the last modified Knowledge Unit elements
lastTasks.inc	Select and show a list with the last modified Task performed (KUs) elements
lastTseGroups.jsp	Select and show a list with the last modified Tse Group elements
lastTses.jsp	Select and show a list with the last modified Tse elements
lastTss.jsp	Select and show a list with the last modified Ts elements
listsToSearchKu.jsp	Link to show the lastKu include
menu.inc	Contextual menu of the SmartGov portals. It contains the options available to the user

Name	Description
selectTaxonomy.jsp	Show the list of existing taxonomies to allow editing
serviceList.inc	List of available TS pertaining to a work group
taskList.inc	Task List
treeview.inc	Show a taxonomy and allow navigation through it
userGroups.jsp	Show and manage the list of users linked to a work group
userMenu.jsp	Show the list of SmartGov users

### 3.3.1.4 Tag Pages

In JSP Pages technology, *actions* are elements that can create and access programming language objects and affect the output stream. The JSP specification defines 6 standard actions that must be provided by any compliant JSP implementation.

In addition to the standard actions, JSP v1.1 technology supports the development of reusable modules called *custom actions*. A custom action is invoked by using a *custom tag* in a JSP page. A *tag library* is a collection of *custom tags*.

Some examples of tasks that can be performed by custom actions include form processing, accessing databases and other enterprise services such as email and directories, and flow control. Before the availability of custom actions, BEAN components in conjunction with scriptlets were the main mechanism for performing such processing. The disadvantage of using this approach is that it makes JSP pages more complex and difficult to maintain.

Custom actions alleviate this problem by bringing the benefits of another level of componentization to JSP pages. Custom actions encapsulate recurring tasks so that they can be reused across more than one application and increase productivity by encouraging division of labor between library developers and library users. JSP tag libraries are created by developers who are proficient at the Java programming language and expert in accessing data and other services. JSP tag libraries are used by Web application designers who can focus on presentation issues rather than being concerned with how to access databases and other enterprise services.

Some features of custom tags are:

- They can be customized via attributes passed from the calling page.
- They have access to all the objects available to JSP pages.
- They can modify the response generated by the calling page.

- They can communicate with each other. You can create and initialize a BEAN component, create a variable that refers to that BEAN in one tag, and then use the BEAN in another tag.
- They can be nested within one another, allowing for complex interactions within a JSP page.

For further information about JSP, the reader should refer to [JSP].

A list of the JSP tags used in the SmartGov Front-end is shown in the next table.

<b>Name</b>	<b>Description</b>
addItemTag.jsp	Encapsulate the “add” image and code that allow to add a new file to a table in a JSP page
deleteItemTag.jsp	Encapsulate the “delete” image and code that allow to erase a file of a table in a JSP page
editItemTag.jsp	Encapsulate the “edit” image and code that allow to edit a file of a table in a JSP page
firstLevelSection.jsp	Encapsulate the code that shows the format (color, size) of a table
flagPrinting.jsp	Encapsulate the code that shows the flag images (Greek, English, Spanish...)
languagePrinting.jsp	Encapsulate, associate with flagPrinting tag, the language code that shows the flag images (Greek, English, Spanish...)
linkKusTag.jsp	Encapsulate the common code that allows the link of KUs from several SmartGov objects
linkNodesEditorTag.jsp	Encapsulate the common code that allows the node linking from the Taxonomy Editor
linkTaxonomyNodesTag.jsp	Encapsulate the common code that allows the categorization from several SmartGov objects
linkTsesTag.jsp	Encapsulate the common code that allows the link of Tse from several SmartGov objects
mainTitle.jsp	Encapsulate the code that shows the format (color, size) and title of a foldable section
manageRulesTag.jsp	Encapsulate the common code that allows the validation rule’s management from several SmartGov objects
multilingualPrinting.jsp	Allow to escape the special characters in a multilingual field
openWindowTag.jsp	Encapsulate the common code that allows the open a new navigator window with a concrete properties (high, width, position...)
saveIconTag.jsp	Encapsulate the “save” image and code that allow to save an object in a JSP page
searchElementsTag.jsp	Encapsulate the code that allows to search by SmartGov elements by different criteria
secondLevelSection.jsp	Encapsulate the code that shows the format (color, size) of a second level table
shortTitle.jsp	Encapsulate the code that allows to show the title in the non-portal pages
showLinkableToTaxNodeListTag.jsp	Show the SmartGov elements that are linked to a Taxonomy Node element

Name	Description
showSelectableKuListTag.jsp	Show the KU objects that are suitable to link to a SmartGov element
showSelectableNodeListTag.jsp	Show the Taxonomy Nodes that are suitable to link to a SmartGov element
taxonomyIndex.jsp	Show the list of available taxonomies
taxonomyTree.jsp	Show the taxonomy tree of nodes
titledSection.jsp	Show and format a titled section (a section not available to fold) in a page
userNotLogged.jsp	Controls if the user is currently logged-on. If not, this tag redirect to the logon page
violated.jsp	Controls if the user is trying to enter to not-allowed pages. If this is the case, this tag redirect to the logon page

### 3.3.1.5 Cascade style sheets (CSS)

Cascading Style Sheets (CSS) is a simple mechanism for adding style (e.g. fonts, colors, spacing) to Web documents.

For further information about CSS, the reader should refer to [CSS].

Name	Description
cuerpo.css	HTML generic styles
treeview.css	Taxonomy tree genetic styles

### 3.3.1.6 XSL style sheets (XSLT)

XSL is a family of recommendations for defining XML document transformation and presentation. It consists of three parts:

- XSL Transformations (XSLT). A language for transforming XML
- The XML Path Language (XPath). An expression language used by XSLT to access or refer to parts of an XML document. (XPath is also used by the XML Linking specification)
- XSL Formatting Objects (XSL-FO). An XML vocabulary for specifying formatting semantics

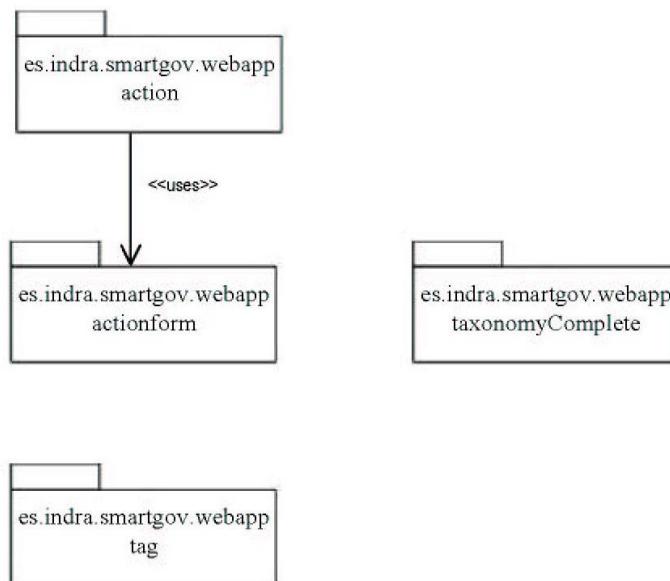
An XSLT stylesheet specifies the presentation of a class of XML documents by describing how an instance of the class is transformed into an XML document that uses a formatting vocabulary, such as (X)HTML or XSL-FO. For further information about XSL and XSLT, the reader should refer to [XSL].

In the context of SmartGov, XSLT has been used to show the taxonomy tree pages. The populated Taxonomies, those that have been created and generated (its xml files in different languages created from the Taxonomy Editor), are wrapped with the XSLT files to achieve a easily and intuitive HTML page.

Name	Description
treeview.xslt	Present the tree from a taxonomy XML file
treeviewToSelect.xslt	Present the tree from a taxonomy XML file with checkboxes (to select nodes)

### 3.3.2 Presentation Layer

This section describes the layer more closely related with the client-side layer. Its structure is modelled according to the Struts Action and ActionForm classes, and is completed by packages that support JSP Tags and the presentation package for the Taxonomy. The Figure 7 shows the packages involved in this layer.



**Figure 7 Presentation layer structure implementation diagram**

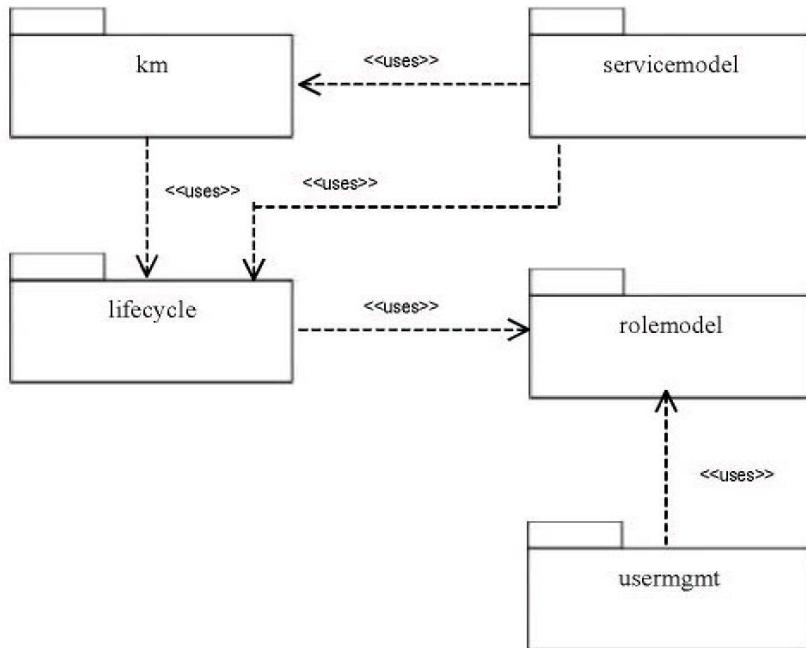
For more details about the classes contained in these packages, see Appendix A.

### 3.3.3 Business Layer

This section shows the core logic packages of the SmartGov Front-end. Most of the properties, methods and validations of the SmartGov objects (KU, TS, TSE...) are covered in the classes included in this layer.

SmartGov Front-end's business layer is implemented by combination of several packages. The Figure 8 diagram shows how the packages in the business layer are implemented and interdependencies among them.

## Package es.indra.smartgov.businesslayer



**Figure 8 Business Layer packages and interdependencies**

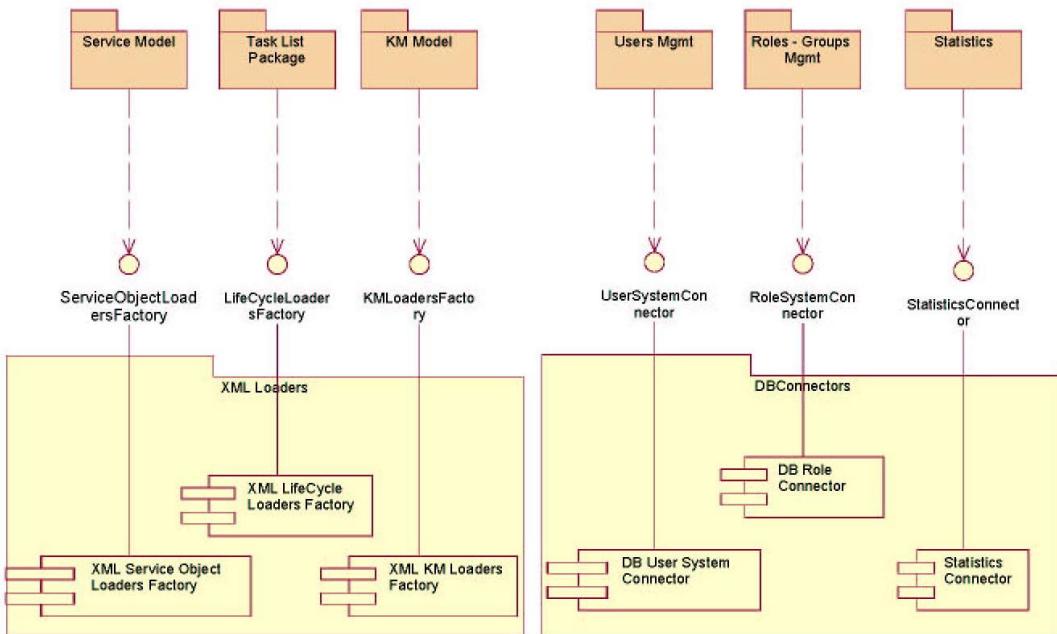
For more details about the classes contained in these packages, see the Appendix A and the deliverable D51-61.

### 3.3.4 Data Layer

This section shows the data layer packages of the SmartGov Front-end. Some of the parts included in this section also exist within the previous deliverable D51-D61, but are also included here for completeness purposes.

#### 3.3.4.1 Front-end Packages

SmartGov Front-end's data layer is implemented as a combination of several packages. The Figure 9 diagram shows how the packages in the data layer are implemented, the interdependencies among them, and the most important interfaces that are used to connect with the repositories.



**Figure 9 Front-end Data Layer implementation diagram**

Data access is performed through several interfaces between the business layer and the data layer has been defined, as shown in the previous diagram.

- XMLLoaders (ServiceObjectLoadersFactory, LifeCycleLoadersFactory and KMLoadersFactory):

The XMLLoaders follows the Factory pattern to make the business objects independent from the XML data source. These three interfaces are factories to obtain loaders classes for each type of object, which will implement the Loader interfaces defined in the logical view.

- DB Connectors (UserSystemConnector, RoleSystemConnector and StatisticsConnector):

The DBConnectors make the business objects independent from the RDBMS data source. All the required methods to access data layer will be defined in these three interfaces. In the SmartGov platform these interfaces are implemented by Database Connectors, but that can be replaced, if required.

### 3.3.4.2 RDBMS Repository

Some of the SmartGov Front-end data, such the user system, are stored in an RDBMS system. The RDBMS is accessed by the SmartGov datalayer classes.

All data related with users, roles and work groups will be stored in a relational database. We have to distinguish two structures:

- Roles and Groups system: It stores all the information related with the roles and groups existing in the SmartGov System, and the linking with the users. This system must be present in all SmartGov service design environments, and may be used in some delivery environments too. This system is composed by all the tables except Users and OuterUsers.
- Smartgov Users system: A very simple system to store all the required data of the users (OuterUsers table). This system will be used during Smartgov Platform development, to avoid integrating the platform with a more complex user system (for instance LDAP).

The bridge between these independent systems is the table Users. In this table, the link between a SmartGov user and the corresponding user in the outer system is established.

All the users imported from certain outer user system will be grouped in the same group, defined in the table Groups. This group will be related with a OuterUserSystem class, that will make possible the connection with the outer system. Thus, the whole model of roles and groups can be linked with different user's system just developing a simple interface. The system may even work with more than one outer user system, each one with its OuterUserSystem class, and its own group.

To distinguish the groups related to user system from the work groups used in the front-end application, the field *type* in the table Groups will be used. Only two group types have been defined, but in the future more different types may be required, so the system is prepared for adding them:

- *WorkGroup* type: Groups users that are going to develop a new service.
- *Grouping* type: Groups all users from an OuterUserSystem included in the systems. In the SmartGov design environment users come from a defined SmartGov Users table. For instance, in the future a different user's source could be a LDAP system. All those users coming from the same source will be under the same Grouping type.

An issue that requires a deeper explanation is the scope for the roles (RoleScopes).

This scope is used to group roles in the database system. There are three different kind of scopes defined:

- Scope for the SmartGov roles (*SmartGov* scope), used to control access to the SmartGov design environment (Domain Experts, IT Staff...). Each SmartGov user pertaining to a group of *Grouping* type, will have one (and just one) SmartGov role.

- Scope for e-services (scope defined by the user): roles to be used in a service execution when needed (names of the roles specific for each service). Every user belonging to a group of *Grouping* type, may have 0 to n service roles.
- Scope for Work Groups (*TS* or *KU* scope): Those are the roles in the processes related with TS or KU life-cycle (Reviewer, Approver...). Every user pertaining to a group of *WorkGroup* type may have 0 to n TS or KU life-cycle roles.

In the design environment some statistics related with knowledge will be collected. These statistics will allow the managers to update and improve the knowledge pieces in the system, according to users comments, customs...

These statistics are stored in a system different from the one used in the context of service delivery environment. Instead of defined specific statistics to be collected for each object, some general statistics, common for all the elements of the same type, will be defined, and the system will store this data in a database.

Instead of using a specific schema for the defined statistics, an open schema has been defined. This way, new statistics types can be defined without modifying the system. New object types to define statistics over them can be added to the system (ObjectTypes Table), and also new types of statistics to be collected (Statistics Types Table). Therefore, these two tables will keep the static definition of the statistics, while the Statistics table will keep the dynamic information, that is, the collected data.

To store the data in a format suitable for each type, different columns are defined, for textual, numeric or percentage content, and in the statistics type definition will be defined which columns are applicable in every case.

For more details about the database structure, see the Appendix C and the deliverable D51-61.

## **4 The XML Doc Repository**

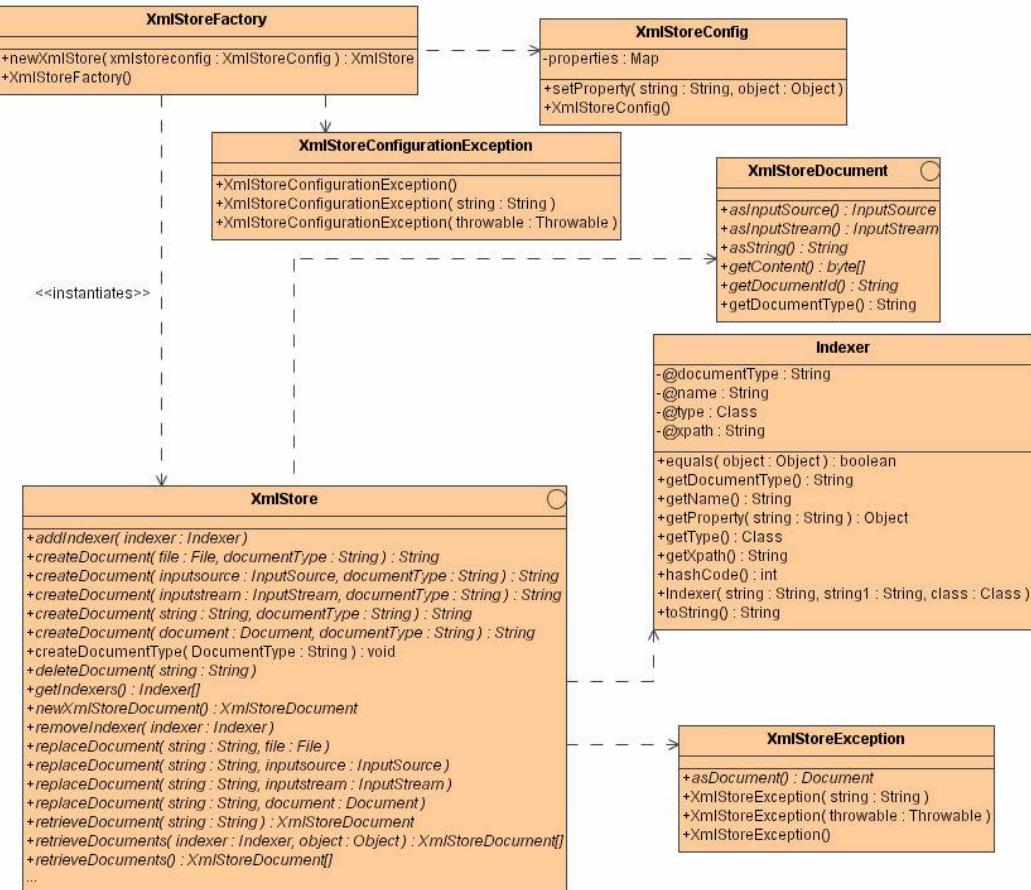
### ***4.1 Introduction***

The XML Doc repository is the component responsible for storing and retrieving XML documents to the knowledge and service repository created by the SmartGov Front-end. It provides an Application Program(ming) Interface (API) to the SmartGov Front-end tool. This component is also the entry point to deliver and populate the SmartGov services, as it has been stated in D62. This API aims to facilitate creation, deletion, retrieval and alteration of the specified XML documents. Following the API calls made by the SmartGov Front-end, the XML Doc Repository mechanism subsequently takes over the responsibility to handle the XML documents in a transparent way, applying an inherent efficient storage mechanism based on indexes.

### ***4.2 XML Repository Implementation***

The SmartGov Front-end passes XML doc java objects to the XML Doc Repository API. The structure of the XML Doc objects is dependent on the specific XML doc structure that is each time created or retrieved and is generated by the Castor tool. In other words XML Doc objects are the representation of the XML documents in Java language. These objects comply with the object model generated by the Castor framework. Castor is an open source data binding framework, which maps a Java object model to and from XML, according to a given XML schema. After receiving an XML Doc object, the XML Doc Repository objects construct on the fly the respective XML document and perform the action requested by the front-end (insertion, deletion or modification).

In the Figure 10 a class diagram of the XML Doc Repository API implementation is given.



**Figure 10 XML Doc Repository class diagram**

The **XMLStoreFactory** class is a convenience class that provides access to implementations of the **XMLStore** Interface and configuration data through the class **XMLStoreConfig**. **XMLStoreFactory** instantiates an **XMLStore** object through the method **newXMLStore(XMLStoreConfig)**.

The **XMLStoreConfig** Object associated with the **XMLStoreConfig** Class is a generic object that can store whatever configuration data (String name, Object value) properties required by the underlying implementation of the **XMLStore** Interface.

For example it may store configuration properties such as the full name of the class that implements the **XMLStore** Interface and in the case that the storage is done in a database **XMLStoreConfig** stores database configuration data such as the Class name of the JDBC Driver, the Class name of the DataSource and other configuration parameters.

The **XMLStore** public interface provides the API for persisting XML documents in a Database (RDBMS).

The Indexer class provides an index on the stored XML documents

The XMLStoreDocument Interface represents a document handled by an implementation of the XmlStore interface.

The XMLStoreException class represents a general exception type that the XMLStore can throw.

The XMLStoreConfigurationException class extends the XMLStoreException class. When thrown, indicates inconsistency in the underlying XmlStore's configuration.

For more details about the classes contained in these packages, the reader is referred to Appendix B.

## **5 Conclusions**

This deliverable presented the result of the final iteration of the development phase of the SmartGov platform and focused on the components developed within workpackage 5 (the XML Doc Repository and the Front-end tool). As it was anticipated, the main design principles and functionality features, as drawn in D51-61, are followed; however small amendments have been made as a result of the iterations performed within the development phase.

## 6 References

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- [CSS] World Wide Web Consortium, The CSS Specification, available at <http://www.w3.org/css>
- [Castor] The Exolab Group, The Castor Project, available at <http://castor.exolab.org/index.html>

## Appendix A. Front-end JavaDocs

### Package es.indra.smartgov.businesslayer.km

class **es.indra.smartgov.businesslayer.km.KmObjectsInstantiator** implements  
es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNodeInstantiator

Constructors **KmObjectsInstantiator()**

Methods **public es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode  
instantiateLinkableToTaxonomyNode(  
String objectType,  
String objectId)**

public class **es.indra.smartgov.businesslayer.km.TaxonomyNode** implements  
es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode,  
es.indra.smartgov.businesslayer.km.LinkableNodes

This class represents the Taxonomy Node object. The Taxonomy Node data is stored in this object as a kind of temporal storage while the object is being edited. In the context of SmartGov, a Taxonomy Node represents a child object that could be linked to one or more Taxonomy or TaxonomyNode objects.

Constructors **public TaxonomyNode()**

Methods **public java.lang.String getTaxonomyNodeId()  
  
public void setTaxonomyNodeId(  
String taxonomyNodeId)  
  
public es.indra.smartgov.common.MultiLingualField getTaxonomyNodeName()  
  
public void setTaxonomyNodeName(  
MultiLingualField taxonomyNodeName)  
  
public es.indra.smartgov.common.MultiLingualField getTaxonomyNodeSynonym()**

```
public void setTaxonomyNodeSynonym(
    MultiLingualField taxonomyNodeSynonym)

public es.indra.smartgov.common.MultiLingualField getTaxonomyNodeAbstract()

public void setTaxonomyNodeAbstract(
    MultiLingualField taxonomyNodeAbstract)

public java.lang.String[] getLinkedTaxonomyNodelds()

public void addLinkedTaxonomyNodeld(
    String taxNodeld)

public void removeLinkedTaxonomyNode(
    int index)

public void save()

public void delete()

public es.indra.util.web.tag.MessageError[] isCompleteToSave()
This method checks the Taxonomy, to see if it includes all the elements required by the schema

public es.indra.util.web.tag.MessageError[] isAvailableToDelete()

public static es.indra.smartgov.businesslayer.km.TaxonomyNode
getTaxonomyNodeByld(
    String taxNodeld)

public static es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode
getReducedNodeByld(
    String nodeld)

public es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode[]
getLinkedObjectsToNode()

public static es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode[]
getLinkedObjectsToTaxonomyNode(
    String taxNodeld)
```

```
public void addLinkedTaxonomyNode(
    AssociatedTaxonomyNode atn)

public          es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
getLinkedTaxonomyNodes()

public boolean isNodeLinked(
    String nodeId)

public void removeAllLinkedTaxonomyNodes()

public java.lang.String getObjectType()

public java.lang.String getObjectid()

public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

private static es.indra.smartgov.businesslayer.km.TaxonomyNode[] filterNodeList(
    TaxonomyNode[] nodeListToBeFiltered,
    LinkableNodes filter)

public      static          es.indra.smartgov.businesslayer.km.TaxonomyNode[]
getNodesByNodeId(
    String pattern,
    int start,
    int end)

public      static          es.indra.smartgov.businesslayer.km.TaxonomyNode[]
getNodesByNodeIdFiltered(
    String nodeIdPattern,
    int start,
    int end,
    LinkableNodes filter)

public          es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
getLinkableNodes()

public void addLinkableNode(
    AssociatedTaxonomyNode atn)
```

```
public void removeLinkableNode(  
    int index)  
  
public void downLinkableNode(  
    int index)  
  
public void upLinkableNode(  
    int index)  
  
public boolean isThisNodeLinkable(  
    AssociatedTaxonomyNode ak)
```

Fields

```
private taxonomyNodeId  
  
private taxonomyNodeName  
  
private taxonomyNodeAbstract  
  
private taxonomyNodeSynonym  
  
private linkedTaxonomyNodes  
  
public static OBJECT_TYPE
```

```
public class es.indra.smartgov.businesslayer.km.Taxonomy implements java.io.Serializable,  
es.indra.smartgov.businesslayer.km.LinkableNodes
```

This class represents the Taxonomy object. The Taxonomy data is stored in this object as a kind of temporal storage while the object is being edited. In the context of SmartGov, a Taxonomy represents a unified form of grouping and retrieving knowledge.

Constructors

```
public Taxonomy()  
  
Methods
```

**public java.lang.String getTaxonomyId()**

```
public void setTaxonomyId(  
    String taxonomyId)
```

```

public es.indra.smartgov.common.MultiLingualField getTaxonomyName()

public void setTaxonomyName(
    MultiLingualField taxonomyName)

public es.indra.smartgov.common.MultiLingualField getTaxonomyAbstract()

public void setTaxonomyAbstract(
    MultiLingualField taxonomyAbstract)

public java.lang.String[] getTaxonomyNodeIds()

public void addTaxonomyNodeId(
    String taxNodeId)

public void save()

public void delete()

public void generateXMLFile(
    ServletContext context)

```

This method allow to generate a XML file that is going to be the source of the graphical representation of a taxonomy. This method should be invoked after updating a taxonomy or modifying its nodes.

```

public es.indra.util.web.tag.MessageError[] isCompleteToSave()

```

This method checks the Taxonomy, to see if it includes all the elements required by the schema

```

public es.indra.util.web.tag.MessageError[] isAvailableToDelete()

public static es.indra.smartgov.businesslayer.km.Taxonomy getTaxonomyById(
    String taxonomyId)

public static es.indra.smartgov.businesslayer.km.Taxonomy[] getAllTaxonomies(
    int start,
    int end)

public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
getLinkableNodes()

```

```
public void addLinkableNode(  
    AssociatedTaxonomyNode atn)  
  
public void removeLinkableNode(  
    int index)  
  
public void downLinkableNode(  
    int index)  
  
public void upLinkableNode(  
    int index)  
  
public boolean isNodeLinked(  
    String nodeId)  
  
public void removeAllLinkedTaxonomyNodes()  
  
public java.lang.String getObjectid()  
  
public es.indra.smartgov.common.MultiLingualField getObjectName()  
  
public es.indra.smartgov.common.MultiLingualField getObjectAbstract()  
  
public java.lang.String getObjectType()
```

```
public boolean isThisNodeLinkable(  
    AssociatedTaxonomyNode ak)
```

Fields      **public static OBJECT\_TYPE**

```
private taxonomyId
```

```
private taxonomyName
```

```
private taxonomyAbstract
```

```
private firstLevelTaxonomyNodes
```

```
public interface es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNodeInstantiator
```

Methods	<pre>public          es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode instantiateLinkableToTaxonomyNode(     String objectType,     String objectId)</pre>
---------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------

```
public interface es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode
```

This interface define the methods to manage the Nodes availables to link to a SmartGov object (Ku, TSE, TS...)

Methods	<pre>public void addLinkedTaxonomyNode(     AssociatedTaxonomyNode atn)  public          es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[] getLinkedTaxonomyNodes()  public void removeLinkedTaxonomyNode(     int index)  public boolean isNodeLinked(     String nodeId)  public void removeAllLinkedTaxonomyNodes()  public java.lang.String getObjectType()  public java.lang.String getObjectid()  public es.indra.smartgov.common.MultiLingualField getObjectName()  public es.indra.smartgov.common.MultiLingualField getObjectAbstract()</pre>
---------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**public interface es.indra.smartgov.businesslayer.km.LinkableToKu**

This interface define the methods to manage the KUs linkables to other SmartGov objects (TS, TSE...)

Methods

**public void addLinkedKu(**

**AssociatedKu ak)**

**public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()**

**public void removeLinkedKu(**

**int index)**

**public boolean isThisKuLinkable(**

**AssociatedKu ak)**

**public interface es.indra.smartgov.businesslayer.km.LinkableNodes**

This interface define the methods to manage the Nodes in the Taxonomy Editor tool

Methods

**public void addLinkableNode(**

**AssociatedTaxonomyNode atn)**

**public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]**  
**getLinkableNodes()**

**public void removeLinkableNode(**

**int index)**

**public void downLinkableNode(**

**int index)**

**public void upLinkableNode(**

**int index)**

**public boolean isNodeLinked(**

**String nodeId)**

**public boolean isThisNodeLinkable(**

```
        AssociatedTaxonomyNode atn)

    public void removeAllLinkedTaxonomyNodes()

    public java.lang.String getObjectType()

    public java.lang.String getObjectID()

    public es.indra.smartgov.common.MultiLingualField getObjectName()

    public es.indra.smartgov.common.MultiLingualField getObjectAbstract()
```

public class **es.indra.smartgov.businesslayer.km.KuWfStatistics** implements [java.io.Serializable](#)

This class represents the workflow statistics of Knowledge Unit (Ku).

Constructors      **public KuWfStatistics()**

```
    public KuWfStatistics(
        String performerId,
        Date date,
        String newState,
        String comments)
```

Methods      **public java.lang.String getComments()**

```
    public void setComments(
        String comments)
```

```
    public java.util.Date getDate()
```

```
    public void setDate(
        Date date)
```

```
    public java.lang.String getNewState()
```

```
    public void setNewState(
        String newState)
```

```
public java.lang.String getPerformerId()
```

```
public void setPerformerId(  
    String performerId)
```

Fields      **private performerId**

```
private date
```

```
private newState
```

```
private comments
```

```
public class es.indra.smartgov.businesslayer.km.KuSection implements java.io.Serializable
```

This class represents a section in the context of a Knowledge Unit (Ku). The Ku Section data is stored in this object as a kind of temporal storage while the object is being edited. In the context of SmartGov, a Ku Section is the container of the core data of a KU (description, links...).

Constructors      **public KuSection(**  
                      **KuSection sectionToCopy)**

Constructor by copy.

```
public KuSection()
```

```
public KuSection(  
    String locale,  
    String title,  
    String content)
```

Methods      **public static java.lang.String[] getAvailableRoles()**

```
public boolean getAllRoles()
```

```
public void setAllRoles(  
    boolean allRoles)
```

```
public java.lang.String getComments()

public void setComments(
    String comments)

public es.indra.smartgov.common.MultiLingualField getContent()

public void setContent(
    MultiLingualField content)

public java.lang.String[] getRoles()

public void setRoles(
    String[] roles)

public es.indra.smartgov.common.MultiLingualField getTitle()

public void setTitle(
    MultiLingualField title)

public es.indra.smartgov.common.MultiLingualLink[] getLinks()

public es.indra.smartgov.common.MultiLingualLink getLink(
    int index)

public void addLink(
    MultiLingualLink link)

public void setLink(
    MultiLingualLink link,
    int index)

public int getLinksCount()

public void removeLink(
    int index)

public es.indra.util.web.tag.MessageError[] isCompleteToSave()
```

Fields      **private allRoles**

**private roles**

**private comments**

**private title**

**private content**

**private links**

**private static rolesForVisibility**

```
public class es.indra.smartgov.businesslayer.km.Ku implements java.io.Serializable,  
es.indra.smartgov.businesslayer.km.LinkableToKu,  
es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode
```

This class represents the Knowledge Unit (Ku). The Ku data is stored in this object as a kind of temporal storage while the object is being edited. In the context of SmartGov, a Ku is the container of knowledge.

Constructors      **public Ku()**

Methods      **public static es.indra.smartgov.businesslayer.km.Ku[] getLastKus(  
int start,  
int end)**

Retrieve a list of the last modified elements ordered by last modification date.

```
public static es.indra.smartgov.businesslayer.km.AssociatedKu[] getLastReducedKus(  
int start,  
int end)
```

```
public static es.indra.smartgov.businesslayer.km.Ku[] getLastKusFiltered(  
int start,  
int end,  
LinkableToKu filter)
```

Retrieve a list of the last elements filtered by some criteria (object not equals, object not linked...)

```
public static es.indra.smartgov.businesslayer.km.Ku[] getKusByKuid(  
String kuid)
```

```
    String pattern,  
    int start,  
    int end)
```

Retrieve a list of Kus by ID or a pattern (id%)

```
public static es.indra.smartgov.businesslayer.km.Ku[] getKusByKuldFiltered(  
    String kuldPattern,  
    int start,  
    int end,  
    LinkableToKu filter)
```

Retrieve a list of Kus by ID or a pattern (id%), filtered by some criteria (Ku not equals, Ku not linked...)

```
public static es.indra.smartgov.businesslayer.km.Ku[] getKusRelatedWithTaxNode(  
    String taxNodeCode,  
    int start,  
    int end)
```

Retrieve a list of Kus related with a taxonomy node

```
public static es.indra.smartgov.businesslayer.km.Ku[]  
getKusRelatedWithTaxNodeFiltered(  
    String taxNodeCode,  
    int start,  
    int end,  
    LinkableToKu filter)
```

Retrieve a list of Kus related with a taxonomy node filtered by some criteria (Ku not equals, Ku not linked...)

```
private static es.indra.smartgov.businesslayer.km.Ku[] filterKuList(  
    Ku[] kuListToBeFiltered,  
    LinkableToKu filter)
```

```
public static es.indra.smartgov.businesslayer.km.Ku getKuById(  
    String kuld)
```

Retrieve a Ku by its Id.

```
public java.lang.String getKuid()
```

```
public void setKuid(  
    String kuid)
```

```
public java.lang.String getType()

public void setType(
    String type)

public void save()
Save a object to the repository

public void delete()
Delete a object from the repository

static es.indra.smartgov.businesslayer.km.KMSSystemConnector getDataConnector()
Gets a data connector to the Knowledge repository

static          es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector
getSMDataConnector()
Gets a data connector to the Service repository

public static java.lang.String[] getAvailableKuTypes()

public static java.lang.String[] getAvailableGradeValues()

public static java.lang.String[] getAvailableComplexityValues()

public static java.lang.String[] getAvailableRichnessValues()

public static java.lang.String[] getAvailableRelevanceValues()

public boolean getAllowEndUserComments()

public void setAllowEndUserComments(
    boolean allowEndUserComments)

public boolean getAllowEndUserRating()

public void setAllowEndUserRating(
    boolean allowEndUserRating)

public java.lang.String getAuthorId()

public void setAuthorId()
```

```
        String authorId)

    public java.lang.String getComplexity()

    public void setComplexity(
        String complexity)

    public java.util.Date getCreationDate()

    public void setCreationDate(
        Date creationDate)

    public java.lang.String getGrade()

    public void setGrade(
        String grade)

    public boolean getEnableLastAccessStatistic()

    public void setEnableLastAccessStatistic(
        boolean enableLastAccessStatistic)

    public boolean getEnableNumberOfInvocationsStatistic()

    public void setEnableNumberOfInvocationsStatistic(
        boolean enableNumberOfInvocationsStatistic)

    public java.util.Date getLastModificationDate()

    public void setLastModificationDate(
        Date lastModificationDate)

    public java.lang.String getCurrentPerformer()

    public void setCurrentPerformer(
        String currentPerformer)

    public java.lang.String getCurrentState()

    public void setCurrentState(
        String currentState)
```

```
public java.lang.String getRelevance()

public void setRelevance(
    String relevance)

public java.lang.String getRichness()

public void setRichness(
    String richness)

public es.indra.smartgov.businesslayer.km.KuSection[] getSections()

public es.indra.smartgov.businesslayer.km.KuSection getSection(
    int index)

public void addSection(
    KuSection section)

public void setSection(
    KuSection section,
    int index)

public void replaceSection(
    KuSection oldSection,
    KuSection newSection)

public void removeSection(
    int index)

public es.indra.smartgov.businesslayer.km.KuWfStatistics[] getWfStatistics()

public void addWfStatistics(
    KuWfStatistics wfStatistics)

public java.lang.String getWorkgroupName()

public void setWorkgroupName(
    String workgroupName)

public es.indra.smartgov.common.MultiLingualField getKuAbstract()
```

```
public void setKuAbstract(
    MultiLingualField kuAbstract)

public es.indra.smartgov.common.MultiLingualField getKuName()

public void setKuName(
    MultiLingualField kuName)

public java.util.Date getExpiryDate()

public void setExpiryDate(
    Date expiryDate)

public boolean getServiceExpiry()

public void setServiceExpiry(
    boolean serviceExpiry)

public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()

public void addLinkedKu(
    AssociatedKu aKu)

public void removeLinkedKu(
    int index)

public boolean isThisKuLinkable(
    AssociatedKu ak)
Verify if a KU is linkable to other objects (TSE, TS...)
```

**public es.indra.util.web.tag.MessageError[] isCompleteToSave()**

This method checks the Ku, to see if it includes all the elements required by the schema

**public es.indra.util.web.tag.MessageError[] isAvailableToDelete()**

Verify if the KU is available to be deleted

**public void addLinkedTaxonomyNode(
 AssociatedTaxonomyNode atn)**

public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]

```
getLinkedTaxonomyNodes()

public void removeLinkedTaxonomyNode(
    int index)

public boolean isNodeLinked(
    String nodeId)

public void removeAllLinkedTaxonomyNodes()

public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()
```

```
public java.lang.String getObjectType()
```

```
public java.lang.String getKuLink()
```

```
public void setKuLink(
    String kuLink)
```

#### Fields

```
public static final NUMBER_OF_SECTIONS
```

```
public static OBJECT_TYPE
```

#### **private kuld**

The KU id (must be unique).

#### **private kuName**

The name of the KU, in different languages.

#### **private type**

The type of the KU: help, best practice...

#### **private kuAbstract**

The abstract of the KU, in different languages.

#### **private currentState**

The state of the KU.

```
private currentPerformer

private lastModificationDate

private workgroupName

private authorId

private kuLink

private creationDate

private expiryDate

private serviceExpiry

private kuSections
Array of KuSections

private linkedKus

private linkedTaxonomyNodes

private wfStatistics

private complexity

private relevance

private richness

private grade

private enableLastAccessStatistic

private enableNumberOfInvocationsStatistic

private allowEndUserComments

private allowEndUserRating
```

```
public class es.indra.smartgov.businesslayer.km.KMUtils
```

This class contains some methods or utilities related with the KM module suchs us the preparation of conectors, and so on.

Constructors      **public KMUtils()**

Methods      **private static es.indra.smartgov.businesslayer.km.KMSystemConnector**  
**createKMSystemConnector()**

**public static es.indra.smartgov.businesslayer.km.KMSystemConnector**  
**getKMSystemConnector()**

**public static void setPropertiesProvider(**  
                      **PropertiesProvider pp)**

**public static java.lang.String getProperty(**  
                      **String propName)**

**public static java.util.Properties getProperties()**

**public static void initKmPackage()**

Fields      **private static connector**

**private static propertiesProvider**

**public static KM\_SYSTEM\_CONN\_FACTORY\_PROPNAME**

```
public interface es.indra.smartgov.businesslayer.km.KMSystemConnectorFactory
```

This interface defines a factory class for obtaining a KMSystemConnector object.

Methods      **public es.indra.smartgov.businesslayer.km.KMSystemConnector**

**getKMSystemConnectorInstance(****Properties p)**

Returns an instance of the KMSystemConnector , created according to the properties in the param.

**Parameters**

p - Necessary properties to get the connector.

**Returns**

The requested object.

```
public interface es.indra.smartgov.businesslayer.km.KMSystemConnector
```

This interface identifies a connector to the data layer component responsible for storing all the information related with the KM system. It is a bridge between the business layer and the data layer.

**Methods**

```
public void save(  
    Ku aKu)
```

```
public void deleteKu(  
    Ku aKu)
```

```
public java.util.ArrayList isKuAvailableToDelete(  
    String kuld)
```

```
public void save(  
    Taxonomy aTaxonomy)
```

```
public void deleteTaxonomy(  
    Taxonomy aTaxonomy)
```

```
public void save(  
    TaxonomyNode aTaxonomyNode)
```

```
public void deleteNode(  
    TaxonomyNode aNode)
```

```
public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLastReducedKus(  
    int start,  
    int end)
```

```
public es.indra.smartgov.businesslayer.km.Ku[] getLastKus(
    int start,
    int end)

public es.indra.smartgov.businesslayer.km.Ku[] getKusByKuld(
    String pattern,
    int start,
    int end)

public es.indra.smartgov.businesslayer.km.Ku[] getKusRelatedWithTaxNode(
    String taxNodeCode,
    int start,
    int end)

public es.indra.smartgov.businesslayer.km.Ku getKuById(
    String kuld)

public es.indra.smartgov.businesslayer.km.Taxonomy getTaxonomyById(
    String taxonomyId)

public es.indra.smartgov.businesslayer.km.Taxonomy[] getAllTaxonomies(
    int start,
    int end)

public es.indra.smartgov.businesslayer.km.TaxonomyNode getTaxonomyNodeById(
    String taxonomyNodeId)

public java.lang.String[] getAvailableKuTypes()

public es.indra.smartgov.businesslayer.km.AssociatedKu getReducedKuById(
    String kuld)

public java.lang.String[] getAvailableComplexityValues()

public java.lang.String[] getAvailableGradeValues()

public java.lang.String[] getAvailableRelevanceValues()

public java.lang.String[] getAvailableRichnessValues()
```

```

public          es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode
getReducedTaxonomyNodeById(
    String taxonomyNodeId)

public          es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode[]
getLinkedObjectsToTaxonomyNode(
    String nodeId)

public void registerLinkableToTaxonomyNodeInstantiator(
    LinkableToTaxonomyNodeInstantiator instantiator,
    String[] objectTypesThatCanInstantiate)

public          es.indra.smartgov.businesslayer.km.TaxonomyNode[]
getNodesRelatedByNodeId(
    String pattern,
    int start,
    int end)

```

```

public class es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode implements
java.io.Serializable

```

This class represents a Taxonomy Node that it's associate with a concrete SmartGov element (TSE, TS...). It is a reduced version of the TaxonomyNode class, in order to improve the object management.

Constructors      **public AssociatedTaxonomyNode()**

```

public AssociatedTaxonomyNode(
    TaxonomyNode aCompleteTaxonomyNode)

```

Methods      **public java.lang.String getTaxonomyNodeId()**

```

public void setTaxonomyNodeId(
    String taxonomyNodeId)

```

```

public es.indra.smartgov.common.MultiLingualField getTaxonomyNodeName()

```

```

public void setTaxonomyNodeName(
    MultiLingualField taxonomyNodeName)

```

```
public static void unlinkTaxonomyNode(
    String taxNodeld,
    LinkableToTaxonomyNode linkedObject)
```

This method allows to remove the link of the Taxonomy Node from other SmartGov elements (TSE, TS...)

```
public boolean equals(
    Object o)
```

Fields      **private taxonomyNodeld**

```
private taxonomyNodeName
```

```
public class es.indra.smartgov.businesslayer.km.AssociatedKu implements java.io.Serializable,
es.indra.smartgov.businesslayer.lifecycle.TaskListObject
```

This class represents a Knowledge Unit (Ku) that it's associate with a concrete SmartGov element (TSE, TS...). It is a reduced version of the Ku class, in order to improve the object management.

Constructors      **public AssociatedKu()**

```
public AssociatedKu(
    Ku aCompleteKu)
```

Methods      **public java.lang.String getKuld()**

```
public void setKuld(
    String kuld)
```

```
public es.indra.smartgov.common.MultiLingualField getKuName()
```

```
public void setKuName(
    MultiLingualField kuName)
```

```
public boolean equals(
    Object obj)
```

```
public static void unlinkKu(
    String associatedKuid,
    LinkableToKu linkedObject)

This method allows to remove the link of the Ku from other SmartGov elements (TSE, TS...)

public java.lang.String getAuthorId()

public void setAuthorId(
    String authorId)

public java.lang.String getCurrentState()

public void setCurrentState(
    String currentState)

public java.util.Date getLastModificationDate()

public void setLastModificationDate(
    Date lastModificationDate)

public java.lang.String getType()

public void setType(
    String type)

public java.lang.String getCurrentPerformer()

public void setCurrentPerformer(
    String currentPerformer)

public es.indra.smartgov.common.MultiLingualField getKuAbstract()

public void setKuAbstract(
    MultiLingualField kuAbstract)

public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()
```

```
public java.lang.String getObjectType()
```

Fields           **private kuld**

```
private kuName
```

```
private kuAbstract
```

```
private currentState
```

```
private currentPerformer
```

```
private lastModificationDate
```

```
private authord
```

```
private type
```

## Package es.indra.smartgov.businesslayer.lifecycle

public interface **es.indra.smartgov.businesslayer.lifecycle.TaskListObjectType**

This interface define the methods to retrieve information of the process objects (in SmartGov TS and KU)

Methods

```
public es.indra.smartgov.businesslayer.lifecycle.TaskListObject[] getAllObjects()

public es.indra.smartgov.businesslayer.lifecycle.TaskListObject[]
getPerformerObjects(
    String userId)

public es.indra.smartgov.businesslayer.lifecycle.TaskListObject[]
getPerformerObjectsInState(
    String userId,
    String state)

public es.indra.smartgov.businesslayer.lifecycle.TaskListObject[]
getUnassignedObjects()

public es.indra.smartgov.businesslayer.lifecycle.TaskListObject[]
getUnassignedObjectsInState(
    String state)

public es.indra.smartgov.businesslayer.lifecycle.Process getAssociatedProcess()
```

public interface **es.indra.smartgov.businesslayer.lifecycle.TaskListObject**

This interface define the methods to manage the Task List of the process objects (in SmartGov TS and KU)

Methods

```
public java.lang.String getObjectType()

public java.lang.String getCurrentState()

public java.lang.String getCurrentPerformer()

public java.lang.String getObjectId()
```

```
public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

public void setCurrentState(
    String newState)

public void setCurrentPerformer(
    String newPerformer)
```

public class **es.indra.smartgov.businesslayer.lifecycle.TaskList** implements [java.io.Serializable](#)

Object that represents a Task list of the processes of the SmartGov System.

Constructors	<b>public TaskList()</b>
Methods	<b>public static es.indra.smartgov.businesslayer.lifecycle.TaskListObject[]</b> <b>getUserObjects(</b> <b>String username)</b>
	<b>static es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnector</b> <b>getDataConnector()</b>

public class **es.indra.smartgov.businesslayer.lifecycle.Process** implements [java.io.Serializable](#)

Object that represents a process. In the SmartGov System, there are two processes involved: 1. The KU life-cycle. 2. The TS life-cycle

Constructors	<b>public Process()</b>
Methods	<b>public java.lang.String getProcessId()</b>
	<b>public void setProcessId(</b> <b>String processId)</b>

```

public java.lang.String[] getStates()

public java.lang.String[] getAvailableToPerformStates()

public java.lang.String[] getAvailableActions(
    String currentState,
    Role[] userRoles)

public java.lang.String[] getNextState(
    String currentState,
    String actionPerformed)

public es.indra.smartgov.businesslayer.rolemodel.RoleScope
getAssociateRoleScope()

Fields          private processId

```

## public interface **es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnectorFactory**

This interface defines a factory class for obtaining a RoleSystemConnector object. Última modificación: 03-04-2003

### **Version**

1.0

Methods	<b>public es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnector</b> <b>getLifeCycleSystemConnectorInstance(</b> <b>Properties p)</b>
---------	---------------------------------------------------------------------------------------------------------------------------------------------------------

Returns an instance of the LifeCylceSystemConnector , created according to the properties in the param.

### **Parameters**

p - Necessary properties to get the connector.

### **Returns**

The requested object.

```
public interface es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnector
```

This interface identifies a connector to the data layer component responsible for storing all the information related with the life-cycle system. It is a bridge between the business layer and the data layer.

Methods	<pre>public es.indra.smartgov.businesslayer.lifecycle.TaskListObject[] getUserObjects(     String username)      public java.lang.String[] getStates()      public java.lang.String[] getAvailableToPerformStates()      public java.lang.String[] getAvailableActions(         String currentState,         Role[] userRoles)      public java.lang.String[] getNextState(         String currentState,         String actionPerformed)      public es.indra.smartgov.businesslayer.rolemodel.RoleScope         getAssociateRoleScope()</pre>
---------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

```
public class es.indra.smartgov.businesslayer.lifecycle.LifeCycleModelUtils
```

This class contains some methods or utilities related with the life-cycle module suchs us the preparation of conectors, and so on.

Constructors	<pre>public LifeCycleModelUtils()</pre>
Methods	<pre>private static es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnector createLifeCycleSystemConnector()      public static es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnector         getLifeCycleSystemConnector()      public static void setPropertiesProvider(         PropertiesProvider pp)</pre>

```
public static java.lang.String getProperty(  
    String propName)  
  
public static java.util.Properties getProperties()  
  
Fields  
private static connector  
  
private static propertiesProvider  
  
public static LIFE_CYCLE_SYSTEM_CONN_FACTORY_PROPNAME
```

## Package es.indra.smartgov.businesslayer.rolemodel

```
public class es.indra.smartgov.businesslayer.rolemodel.SmartGovUser implements  
java.io.Serializable
```

This class define the users defined in the SmartGov context. This class require a call to setDataConnector before using it in order to configure the DataAccess

Constructors      **public SmartGovUser()**

Methods      **public java.lang.String getPassword()**

Return the password.

```
public void setPassword(  
    String password)
```

Set the password.

**Parameters**

password - The new password

```
public java.lang.String getUsername()
```

Return the username.

```
public void setUsername(  
    String username)
```

Set the username.

**Parameters**

username - The new username

```
public static es.indra.smartgov.businesslayer.rolemodel.SmartGovUser logOn(  
    String username,
```

```
    String password)
```

```
public void changePassword(  
    String password,
```

```
    String newPassword,
```

```
    String confirmNewPassword)
```

```
private static boolean checkUserAccess(  
    String username,
```

```
    String password)
```

```
public static java.lang.String[] getAllUserRoles(
    String userId,
    String groupId,
    String roleScope)

public static java.lang.String getSmartGovRole(
    String userId)

public java.lang.String[] getWorkGroups()

public static java.lang.String[] getWorkGroups(
    String userId)

public static java.lang.String getOuterUserSystemFromDB(
    String userId)

public static boolean checkUserRole(
    String username,
    String roleScope,
    String GroupId,
    String role)

public static es.indra.smartgov.businesslayer.rolemodel.SmartGovUser
getSmartGovUserById(
    String userId)

public static es.indra.smartgov.businesslayer.rolemodel.SmartGovUser[]
getAllSmartGovUsers()

public static es.indra.smartgov.businesslayer.rolemodel.Role[]
getUserRolesInAGroup(
    String userId,
    String groupId)

static es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector
getDataConnector()

public java.lang.String toString()
Return a String representation of this object.

public void save()
```

```
    boolean hasBeenAlreadySaved)

    public java.lang.String getWorkGroup()

    public void setWorkGroup(
        String workGroup)

    public java.lang.String getOuterUserSystem()

    public void setOuterUserSystem(
        String outerUserSystem)

    public java.lang.String getUserId()

    public void setUserId(
        String userId)

    public java.lang.String getUserRol()

    public void setUserRol(
        String userRol)

    public es.indra.smartgov.businesslayer.rolemodel.OuterUserGroup
    getOuterUserGroup()

    private void loadOuterUserGroup()
```

Fields

**private password**

The password (in clear text).

**private username**

The username (must be unique).

**private workGroup**

The workgroup (group currently in use).

**private outerUserSystem**

The outer user system of the user.

**private userId**

The Id.

**private userRol**

The Id.

**private outerUserGroup**

The Outer user group the user belongs to

**public interface es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnectorFactory**

This interface defines a factory class for obtaining a RoleSystemConnector object.

Methods      **public es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector  
getRoleSystemConnectorInstance(  
Properties p)**

Returns an instance of the RoleSystemConnector , created according to the properties in the param.

**Parameters**

p - Necessary properties to get the connector.

**Returns**

The requested object.

**public interface es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector**

This interface identifies a connector a the data layer component responsible for storing all the information related with the Role and Group system.

Methods      **public boolean checkUserPassword(  
String username,  
String password)**

**public void changeUserPassword(  
String username,  
String password,  
String newPassword)**

```
public boolean checkUserRole(
    String username,
    String roleScope,
    String GroupId,
    String role)

public java.lang.String getOuterUserSystemFromDB(
    String userId)

public java.lang.String[] getGroupIdAndOuterSystemFromDB(
    String userId)

public java.lang.String getSmartGovRole(
    String userId)

public java.lang.String[] getAllRoles(
    String roleScope)

public es.indra.smartgov.businesslayer.rolemodel.Role[] getAllRolesNoSmartGov()

public java.lang.String[] getAllUserRoles(
    String userId,
    String groupId,
    String roleScope)

public java.lang.String[] getWorkGroups(
    String userId)

public java.lang.String[] getMembers(
    String groupId)

public es.indra.smartgov.businesslayer.rolemodel.Group getGroupById(
    String groupId)

public void saveGroup(
    Group aGroup,
    boolean hasBeenAlreadySaved)

public void saveUser(
    SmartGovUser aUser,
    boolean hasBeenAlreadySaved)
```

```
public boolean validateUser(  
    SmartGovUser aUser)  
  
public es.indra.smartgov.businesslayer.rolemodel.Group[] getWorkGroupList(  
    String userId)  
  
public es.indra.smartgov.businesslayer.rolemodel.SmartGovUser retrieveUser(  
    String userId)  
  
public es.indra.smartgov.businesslayer.rolemodel.SmartGovUser[]  
getAllSmartGovUsers()  
  
public es.indra.smartgov.businesslayer.rolemodel.SmartGovUser[] getUsersInAGroup(  
    String groupId)  
  
public es.indra.smartgov.businesslayer.rolemodel.Role[] getUserRolesInAGroup(  
    String userId,  
    String groupId)  
  
public es.indra.smartgov.businesslayer.rolemodel.GroupUsers[]  
getGroupUsers(  
    String groupId)  
  
public java.lang.String[] getAllOuterUserSystems()
```

public class es.indra.smartgov.businesslayer.rolemodel.RoleScope implements  
java.io.Serializable

Object that represents the scopes of roles of the SmartGov System.

Constructors      **public RoleScope()**

Methods      **public java.lang.String getRoleScopeId()**

```
public void setRoleScopeId(  
    String roleScopeId)
```

```
public java.lang.String getRoleScopeName()
```

```

public void setRoleScopeName(
    String roleScopeName)

public java.lang.String[] getAllRoles(
    String roleScope)

static es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector
getDataConnector()

Fields private roleScopeld

private roleScopeName

```

## public class **es.indra.smartgov.businesslayer.rolemodel.RoleModelUtils**

This class contains some methods or utilities related with the Role model module suchs us the preparation of conectors, and so on.

```

Constructors public RoleModelUtils()

Methods private static es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector
createRoleSystemConnector()

public static es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector
getRoleSystemConnector()

public static void setPropertiesProvider(
    PropertiesProvider pp)

public static java.lang.String getProperty(
    String propName)

public static java.util.Properties getProperties()

Fields private static connector

private static propertiesProvider

```

```
public static ROLE_SYSTEM_CONN_FACTORY_PROPNAME

public static OUTER_USER_SYSTEM_CONN_FACTORY_PROPNAME

public class es.indra.smartgov.businesslayer.rolemodel.Role implements java.io.Serializable

Object that represents a role of the SmartGov System.

Constructors    public Role()

Methods        public boolean equals(
                  Object obj)

                  public java.lang.String getGroupId()

                  public void setGroupId(
                  String groupId)

                  public java.lang.String getRoleId()

                  public void setRoleId(
                  String roleId)

                  public java.lang.String getRoleScopeld()

                  public void setRoleScopeld(
                  String roleScopeld)

                  public java.lang.String getSmartGovUserId()

                  public void setSmartGovUserId(
                  String smartGovUserId)

static          es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector
getDataSource()

public static java.lang.String[] getAllRoles()
```

```
String roleScope)

public static es.indra.smartgov.businesslayer.rolemodel.Role[]
getAllRolesNoSmartGov()

public static es.indra.smartgov.businesslayer.rolemodel.Role[] getRolesFiltered(
    GroupUsers filter)

Fields private groupId

private smartGovUserId

private roleScopeId

private roleId
```

public class es.indra.smartgov.businesslayer.rolemodel.Permission implements java.io.Serializable

Class that represents the permission control of the SmartGov System.

```
Constructors public Permission()

Methods public static boolean hasAccessToAction(
    String smartGovUserId,
    String actionToPerform,
    String objectType)

private static java.lang.String getPermissionRequiredForAction(
    String action)

private static boolean checkIfRoleHasPermission(
    String objectType,
    String role)

public static java.lang.String checkPermissions(
    String smartGovUserId,
    String actionToPerform,
```

**String objectType)**

**private static void loadPermissions()**

Fields      **public static final NO\_ACCESS**

**public static final WRITE**

**public static final READ\_ONLY**

**private static permissionsByObject**

**private static actionTypes**

public interface **es.indra.smartgov.businesslayer.rolemodel.OuterUserSystemFactory**

This interface defines a factory class for obtaining a RoleSystemConnector object.

Methods      **public es.indra.smartgov.businesslayer.rolemodel.OuterUserSystem  
getOuterUserSystemInstance(  
Properties p)**

Returns an instance of the RoleSystemConnector , created according to the properties in the param.

**Parameters**

p - Necessary properties to get the connector.

**Returns**

The requested object.

public interface **es.indra.smartgov.businesslayer.rolemodel.OuterUserSystem**

This interface identifies a connector a the data layer component responsible for storing all the information related with the Role and outer user system

Methods      **public es.indra.smartgov.businesslayer.rolemodel.OuterUser getOuterUser(  
String outerUserId)**

```
public class es.indra.smartgov.businesslayer.rolemodel.OuterUserGroup implements  
java.io.Serializable
```

This class define the users used by SmartGov, that comes from a different user storage system

Constructors      **public OuterUserGroup(**

**String theGroupId,**

**String theOuterUserSystemId)**

Methods      **public es.indra.smartgov.businesslayer.rolemodel.OuterUserSystem**  
**getAssociatedUserSystem()**

**public java.lang.String getOuterUserSystemId()**

**public void setOuterUserSystemId(**  
                    **String outerUserSystemId)**

**private static void init()**

**private static es.indra.smartgov.businesslayer.rolemodel.OuterUserSystem**  
**getAssociatedOuterSystem(**  
                    **String outerId)**

Fields      **private groupId**

**private outerUserSystemId**

**private static listOuterSystem**

**private static OUTER\_USER\_SYSTEM\_FACTORY\_PREFIX**

```
public interface es.indra.smartgov.businesslayer.rolemodel.OuterUser
```

This interface identifies a connector a the data layer component responsible for storing all the information

related with the Role and Group system.

```
public class es.indra.smartgov.businesslayer.rolemodel.LogonException extends  
es.indra.smartgov.common.SmartGovException
```

Manifest constants for the SmartGov application.

Constructors      **public LogonException(**  
                        **String username,**  
                        **String password,**  
                        **String message)**

Methods      **public java.lang.String getPassword()**  
  
                        **public java.lang.String getUsername()**

Fields      **private username**  
  
                        **private password**

```
public class es.indra.smartgov.businesslayer.rolemodel.GroupUsers implements  
java.io.Serializable
```

This class define the users included in a Group (work group)

Constructors      **public GroupUsers(**  
                        **GroupUsers usersToCopy)**

Constructor by copy.

**public GroupUsers()**

Methods      **public java.util.ArrayList getRole()**  
  
                        **public es.indra.smartgov.businesslayer.rolemodel.Role getRole(**  
                                **int index)**

```
public void setRole(  
    ArrayList role)  
  
public void addRole(  
    Role role)  
  
public void removeRole(  
    int index)  
  
public boolean isThisRoleLinkable(  
    Role role)  
  
public java.lang.String getUserId()  
  
public void setUserId(  
    String userId)
```

Fields            **private userId**  
  
                  **private role**

public class **es.indra.smartgov.businesslayer.rolemodel.Group** implements **java.io.Serializable**

Object that represents a work group of the SmartGov System.

Constructors     **public Group()**  
  
Methods          **public java.lang.String getGroupId()**  
  
                  **public void setGroupId(**  
                    **String groupId)**  
  
                  **public java.lang.String getOuterUserSystem()**  
  
                  **public void setOuterUserSystem(**  
                    **String outerUserSystem)**

```
public java.lang.String getType()

public void setType(
    String type)

public java.lang.String getName()

public void setName(
    String name)

public es.indra.smartgov.businesslayer.rolemodel.GroupUsers[] getGroupUsers()

public es.indra.smartgov.businesslayer.rolemodel.GroupUsers getGroupUser(
    int index)

public void setGroupUser(
    GroupUsers groupUser,
    int index)

public void addGroupUser(
    GroupUsers aGu)

public void removeGroupUser(
    int userToRemove)

public boolean isThisGroupUserLinkable(
    GroupUsers gu)

public java.lang.String[] getAvailableUsers()

public java.lang.String[] getMembers(
    String groupId)

static es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector
getDataConnector()

public static es.indra.smartgov.businesslayer.rolemodel.Group[] getUserWorkGroups(
    String userId)

public es.indra.util.web.tag.MessageError[] isCompleteToSave()
```

This method checks the Group, to see if all data is ok to be saved

```
public void save(  
    boolean hasBeenAlreadySaved)  
  
public static es.indra.smartgov.businesslayer.rolemodel.Group getGroupById(  
    String groupId)  
  
public static es.indra.smartgov.businesslayer.rolemodel.SmartGovUser[]  
getUsersInAGroup(  
    String groupId)
```

Fields            **private groupId**

**private type**

**private name**

**private outerUserSystem**

**private groupUsers**

```
public class es.indra.smartgov.businesslayer.rolemodel.ChangePasswordException extends  
es.indra.smartgov.businesslayer.rolemodel.LogonException
```

Constructors    **public ChangePasswordException(**  
                  **String username,**  
                  **String password,**  
                  **String newPassword,**  
                  **String message)**

Methods          **public java.lang.String getNewPassword()**

Fields            **private newPassword**

## Package es.indra.smartgov.businesslayer.servicemodel

```
class      es.indra.smartgov.businesslayer.servicemodel.ServiceModelObjectsInstantiator
implements es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNodeInstantiator
```

Constructors      **ServiceModelObjectsInstantiator()**

Methods      **public es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode**  
**instantiateLinkableToTaxonomyNode(**  
              **String objectType,**  
              **String objectId)**

```
public class es.indra.smartgov.businesslayer.servicemodel.ValueListItem
```

Constructors      **public ValueListItem()**

**public ValueListItem(**  
                  **String value)**

Methods      **public java.lang.String getValue()**

**public void setValue(**  
                  **String value)**

**public es.indra.smartgov.common.MultiLingualField getValueLabel()**

**public void setValueLabel(**  
                  **MultiLingualField valueLabel)**

Fields      **private value**

**private valueLabel**

```
public class es.indra.smartgov.businesslayer.servicemodel.ValidationMethod implements  
java.io.Serializable
```

This class represents a validation rule. Its methods can be applied to every SmartGov object that contains validation rules. The rule data is stored in this object as a kind of temporal storage while the object is being edited.

**Constructors**      **public ValidationMethod()**

Methods            **public java.lang.String getRuleId()**

```
public void setRuleId(  
        String ruleId)
```

```
public es.indra.smartgov.businesslayer.servicemodel.Method getCode()
```

**public void setCode(  
    Method code)**

**public void removeCode()**

```
public es.indra.smartgov.common.MultiLingualField getValidationMessages()
```

```
public void setValidationMessages(  
    MultiLingualField validationMessages)
```

**public java.lang.String getValidateAt()**

```
public void setValidateAt(  
    String validateAt)
```

**public java.lang.String getSeverity()**

```
public void setSeverity(  
    String severity)
```

**public boolean getActivateNumberOfFailures()**

```
public void setActivateNumberOfFailures(  
        boolean activateNumberOfFailures)
```

```

public boolean getActivateExecutionTime()

public void setActivateExecutionTime(
boolean activateExecutionTime)

public static java.lang.String[] getAvailableValidateAtValues()

public static java.lang.String[] getAvailableSeverityValues()

Fields private ruleId

private code

private validationMessages

private validateAt

private severity

private activateNumberOfFailures

private activateExecutionTime

```

public class **es.indra.smartgov.businesslayer.servicemodel.TsFormSet** implements  
`java.io.Serializable`

This class represents a set of forms in the context of a TS. The Form Set data is stored in this object as a kind of temporal storage while the object is being edited. In the context of SmartGov, a TS could have one or more different set of forms (HTML, WAP...)

Constructors **public TsFormSet(**  
**TsFormSet formSetToCopy)**  
Constructor by copy.

**public TsFormSet()**

Methods **public java.util.ArrayList getFormIds()**

```

public void setFormIds(
    ArrayList formIds)

public java.lang.String getFormId(
    int index)

public void addFormId(
    String formId)

public int getFormIdsCount()

public void removeFormId(
    int index)

public java.lang.String getFormSet()

public void setFormSet(
    String formSet)

public boolean isThisFormIdLinkable(
    String formId)

```

Fields	<b>private formSet</b>
	<b>private formIds</b>

```

public class es.indra.smartgov.businesslayer.servicemodel.TseGroup implements
java.io.Serializable,
                    es.indra.smartgov.businesslayer.servicemodel.LinkableToTse,
es.indra.smartgov.businesslayer.km.LinkableToKu,
es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode,
es.indra.smartgov.businesslayer.servicemodel.LinkableToRules

```

This class represents a Tse Group in the SmartGov development process. A Tse Group represents a set of basic building blocks (Instantiated Tse) of the SmartGov development environment. It is possible to define some generic TSE Groups and then create multiple instances of them. It defines the properties and behaviour of the TSE elements as a whole. The data is stored in this object as a kind of temporal storage while the object is being edited.

Constructors	<b>public TseGroup()</b>
Methods	<b>public static es.indra.smartgov.businesslayer.servicemodel.TseGroup[] getLastTseGroups( int start, int end)</b> <p>Retrieve a list of the last modified elements ordered by last modification date.</p> <b>public static es.indra.smartgov.businesslayer.servicemodel.TseGroup getTseGroupById( String tsId)</b> <p>Retrieve a list of objects by ID or a pattern (id%)</p> <b>public es.indra.util.web.tag.MessageError[] isCompleteToSave()</b> <p>This method checks the TseGroup, to see if it includes all the elements required by the schema</p> <b>public es.indra.util.web.tag.MessageError[] isAvailableToDelete()</b>  <b>public void save()</b> <p>Save a object to the repository</p> <b>public void delete()</b> <p>Delete a object from the repository</p> <b>static es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector getDataConnector()</b> <p>Gets a data connector to the Service repository</p> <b>public java.util.Date getLastModificationDate()</b>  <b>public void setLastModificationDate( Date lastModificationDate)</b>  <b>public java.lang.String getWorkgroupName()</b>  <b>public void setWorkgroupName( String workgroupName)</b>  <b>public es.indra.smartgov.common.MultiLingualField getContent()</b>

```
public void setContent(
    MultiLingualField content)

public java.util.ArrayList getDefaultValueList()

public void addDefaultValueToList(
    String newValue)

public void editDefaultValueFromList(
    int valueToReplace,
    String newValue)

public void removeDefaultValueFromList(
    int valueToRemove)

public java.util.ArrayList getUniqueColumn()

public void addUniqueColumn(
    String newValue)

public void editUniqueColumn(
    int valueToReplace,
    String newValue)

public void removeUniqueColumn(
    int valueToRemove)

public es.indra.smartgov.businesslayer.servicemodel.AssociatedTse[]
getLinkedGenericTses()

public void addLinkedTse(
    AssociatedTse aTse)

public void removeLinkedTse(
    int index)

public boolean isThisTseLinkable(
    AssociatedTse at)

public void addLinkedKu(
    AssociatedKu ak)
```

```
public boolean isThisKuLinkable(
    AssociatedKu ak)

public void removeLinkedKu(
    int index)

public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()

public void removeLinkedTaxonomyNode(
    int index)

public void removeAllLinkedTaxonomyNodes()

public boolean isNodeLinked(
    String nodeId)

public          es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
getLinkedTaxonomyNodes()

public void addLinkedTaxonomyNode(
    AssociatedTaxonomyNode atn)

public java.lang.String getObjectType()

public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

public int getMaxOccurences()

public void setMaxOccurences(
    int maxOccurences)

public int getMinOccurences()

public void setMinOccurences(
    int minOccurences)
```

```
public int getInitialRows()

public void setInitialRows(
    int initialRows)

public java.lang.String getGroupControls()

public void setGroupControls(
    String groupControls)

public int getRowStep()

public void setRowStep(
    int rowStep)

public java.lang.String getTseGroupId()

public void setTseGroupId(
    String tseGroupId)

public java.lang.String getName()

public void setName(
    String name)

public static java.lang.String[] getAvailableGroupControls()

public int addValidationRule(
    ValidationMethod aRule)

public void removeValidationRule(
    int index)

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[]
getValidationRules()

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod
getValidationRule(
    int index)

public void setValidationRule(
```

```
    int index,  
    ValidationMethod aRule)  
  
Fields  
public static final NUMBER_OF_SECTIONS  
  
public static final OBJECT_TYPE  
  
private tseGroupId  
The TSE id (must be unique).  
  
private name  
  
private lastModificationDate  
  
private workgroupName  
  
private content  
  
private minOccurrences  
  
private maxOccurrences  
  
private initialRows  
  
private groupControls  
  
private rowStep  
  
private uniqueColumn  
  
private defaultValueList  
  
private linkedTses  
  
private linkedKus  
  
private linkedTaxonomyNodes  
  
private validationRules
```

```
public class es.indra.smartgov.businesslayer.servicemodel.Tse implements java.io.Serializable,  
es.indra.smartgov.businesslayer.km.LinkableToKu,  
es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode,  
es.indra.smartgov.businesslayer.servicemodel.LinkableToRules
```

This class represents a Generic Tse in the SmartGov development process. A Generic Tse is a basic building block of the SmartGov development environment. It is possible to define some generic TSE and then create multiple instances of them. It defines the properties and behaviour of the element that are prepared to be instantiated. The data is stored in this object as a kind of temporal storage while the object is being edited.

Constructors      **public Tse()**

Methods      **public static es.indra.smartgov.businesslayer.servicemodel.Tse[] getLastTses(  
int start,  
int end)**

Retrieve a list of the last modified elements ordered by last modification date.

```
public static es.indra.smartgov.businesslayer.servicemodel.Tse[] getLastTsesFiltered(  
int start,  
int end,  
LinkableToTse filter)
```

Retrieve a list of the last elements filtered by some criteria (object not equals, object not linked...)

```
public static es.indra.smartgov.businesslayer.servicemodel.Tse getTseById(  
String tsId)
```

Retrieve a list of objects by ID or a pattern (id%)

```
public es.indra.util.web.tag.MessageError[] isCompleteToDelete()
```

This method checks the Tse, to see if it includes all the elements required by the schema

```
public es.indra.util.web.tag.MessageError[] isAvailableToDelete()
```

```
public void save()
```

Save a object to the repository

```
public void delete()
```

Delete a object from the repository

```
static                es.indra.smartgov.businesslayer.servicemodel.SMSysSystemConnector
```

```
getDataConnector()
Gets a data connector to the Service repository

public static java.lang.String[] getAvailableTseBuiltInDataTypes()

public java.lang.String getGenericTsId()

public void setGenericTsId(
String genericTsId)

public java.util.Date getLastModificationDate()

public void setLastModificationDate(
Date lastModificationDate)

public java.lang.String getTseName()

public void setTseName(
String TseName)

public java.lang.String getWorkgroupName()

public void setWorkgroupName(
String workgroupName)

public es.indra.smartgov.common.MultiLingualField getContent()

public void setContent(
MultiLingualField content)

public java.lang.String getDefaultValue()

public void setDefaultValue(
String defaultValue)

public java.lang.String getTseBuiltInDataType()

public void setTseBuiltInDataType(
String tseBuiltInDataType)

public int getMaxLength()
```

```
public void setMaxLength(  
    int maxLength)  
  
public java.util.ArrayList getValueList()  
  
public void addValueToList(  
    String newValue)  
  
public void editValueFromList(  
    int valueToReplace,  
    String newValue)  
  
public void removeValueFromList(  
    int valueToRemove)  
  
public void addLinkedKu(  
    AssociatedKu ak)  
  
public boolean isThisKuLinkable(  
    AssociatedKu ak)  
  
public void removeLinkedKu(  
    int index)  
  
public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()  
  
public void removeLinkedTaxonomyNode(  
    int index)  
  
public void removeAllLinkedTaxonomyNodes()  
  
public boolean isNodeLinked(  
    String nodeid)  
  
public          es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]  
getLinkedTaxonomyNodes()  
  
public void addLinkedTaxonomyNode(  
    AssociatedTaxonomyNode atn)
```

```
public java.lang.String getObjectType()

public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

public es.indra.smartgov.businesslayer.servicemodel.Method[] getAvailableMethods()

public int addMethod(
    Method aMethod)
Returns the index of the inserted method

public es.indra.smartgov.businesslayer.servicemodel.Method getMethod(
    int index)

public void setMethod(
    int index,
    Method aMethod)

public void removeMethod(
    int index)

public int addValidationRule(
    ValidationMethod aRule)

public void removeValidationRule(
    int index)

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[]
getValidationRules()

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod
getValidationRule(
    int index)

public void setValidationRule(
    int index,
    ValidationMethod aRule)
```

Fields	<pre><b>public static final NUMBER_OF_SECTIONS</b></pre> <pre><b>public static final OBJECT_TYPE</b></pre> <pre><b>private genericTsId</b></pre> <p>The TSE id (must be unique).</p> <pre><b>private TseName</b></pre> <pre><b>private lastModificationDate</b></pre> <pre><b>private workgroupName</b></pre> <pre><b>private content</b></pre> <pre><b>private maxLength</b></pre> <pre><b>private tseBuiltInDataType</b></pre> <pre><b>private defaultValue</b></pre> <pre><b>private valueList</b></pre> <pre><b>private linkedKus</b></pre> <pre><b>private linkedTaxonomyNodes</b></pre> <pre><b>private availableMethods</b></pre> <pre><b>private validationRules</b></pre>
--------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

```
public class es.indra.smartgov.businesslayer.servicemodel.Ts implements java.io.Serializable,  

es.indra.smartgov.businesslayer.km.LinkableToKu,  

es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode,  

es.indra.smartgov.businesslayer.lifecycle.TaskListObject,  

es.indra.smartgov.businesslayer.servicemodel.LinkableToRules
```

This class represents a Transaction Service TS) in the SmartGov development process. A Ts is a container of

the all forms and data related with the definition of a service, The data is stored in this object as a kind of temporal storage while the object is being edited.

Constructors      **public Ts()**

Methods      **public static es.indra.smartgov.businesslayer.servicemodel.Ts[] getLastTss(**  
                 **int start,**  
                 **int end)**

Retrieve a list of the last modified elements ordered by last modification date.

**public static es.indra.smartgov.businesslayer.servicemodel.Ts[] getTssInWorkGroup(**  
                 **String workGroup,**  
                 **int start,**  
                 **int end)**

**public static es.indra.smartgov.businesslayer.servicemodel.Ts getTsById(**  
                 **String tsId)**

Retrieve a list of objects by ID or a pattern (id%)

**public es.indra.util.web.tag.MessageError[] isCompleteToSave()**

This method checks the Ts, to see if it includes all the elements required by the schema

**public es.indra.util.web.tag.MessageError[] isAvailableToDelete()**

**public void save()**

Save a object to the repository

**public void delete()**

Delete a object from the repository

**static                es.indra.smartgov.businesslayer.servicemodel.SMSysSystemConnector**  
**getDataConnector()**

Gets a data connector to the Service repository

**public es.indra.smartgov.businesslayer.servicemodel.TsFormSet[] getFormSets()**

**public es.indra.smartgov.businesslayer.servicemodel.TsFormSet getFormSet(**  
                 **int index)**

**public void addFormSet(**  
                 **TsFormSet aFs)**

```
public void removeFormSet(
    int formToRemove)

public boolean isThisFormSetLinkable(
    TsFormSet af)

public boolean getAllowDelete()

public void setAllowDelete(
    boolean allowDelete)

public boolean getAllowEdit()

public void setAllowEdit(
    boolean allowEdit)

public boolean getAllowSave()

public void setAllowSave(
    boolean allowSave)

public java.lang.String getAuthenticationRequirements()

public void setAuthenticationRequirements(
    String authenticationRequirements)

public java.lang.String getAuthord()

public void setAuthord(
    String authord)

public java.util.Date getCreationDate()

public void setCreationDate(
    Date creationDate)

public java.lang.String getCurrentPerformer()

public void setCurrentPerformer(
    String currentPerformer)
```

```
public java.lang.String getCurrentState()

public void setCurrentState(
    String currentState)

public java.util.Date getDeadline()

public void setDeadline(
    Date deadline)

public es.indra.smartgov.common.MultiLingualField getDescription()

public void setDescription(
    MultiLingualField description)

public java.util.Date getExpiryDate()

public void setExpiryDate(
    Date expiryDate)

public void setFormSet(
    TsFormSet tsFormSet,
    int index)

public java.util.Date getLastModificationDate()

public void setLastModificationDate(
    Date lastModificationDate)

public boolean getServiceExpiry()

public void setServiceExpiry(
    boolean serviceExpiry)

public java.lang.String getTsId()

public void setTsId(
    String tsId)

public java.lang.String getWorkgroupName()
```

```
public void setWorkgroupName(
    String workgroupName)

public es.indra.smartgov.common.MultiLingualField getServiceName()

public void setServiceName(
    MultiLingualField serviceName)

public static java.lang.String[] getTargetPlatform()

public java.lang.String[] getAvailableTargetPlatforms()

public void addLinkedKu(
    AssociatedKu ak)

public boolean isThisKuLinkable(
    AssociatedKu ak)

public void removeLinkedKu(
    int index)

public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()

public void removeLinkedTaxonomyNode(
    int index)

public void removeAllLinkedTaxonomyNodes()

public boolean isNodeLinked(
    String nodeId)

public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
getLinkedTaxonomyNodes()

public void addLinkedTaxonomyNode(
    AssociatedTaxonomyNode atn)

public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()
```

```
public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

public java.lang.String getObjectType()

public boolean getErrorCorrectionTime()

public void setErrorCorrectionTime(
    boolean errorCorrectionTime)

public boolean getHandleSubmissionTime()

public void setHandleSubmissionTime(
    boolean handleSubmissionTime)

public boolean getFullSubmissionTime()

public void setFullSubmissionTime(
    boolean fullSubmissionTime)

public boolean getNumberOfDeletions()

public void setNumberOfDeletions(
    boolean numberOfDeletions)

public boolean getNumberOfEdits()

public void setNumberOfEdits(
    boolean numberOfEdits)

public boolean getNumberOfRejectedSubmissions()

public void setNumberOfRejectedSubmissions(
    boolean numberOfRejectedSubmissions)

public boolean getNumberOfSavedNonSubmittedSessions()

public void setNumberOfSavedNonSubmittedSessions(
    boolean numberOfSavedNonSubmittedSessions)

public boolean getNumberOfSubmissions()
```

```
public void setNumberOfSubmissions(
    boolean numberOfSubmissions)

public boolean getNumberOfSubmissionsWithWarnings()

public void setNumberOfSubmissionsWithWarnings(
    boolean numberOfSubmissionsWithWarnings)

public es.indra.smartgov.businesslayer.servicemodel.Method getPreactionMethod()

public void setPreactionMethod(
    Method preactionMethod)

public void removePreactionMethod()

public es.indra.smartgov.businesslayer.servicemodel.Method getPostactionMethod()

public void setPostactionMethod(
    Method postactionMethod)

public void removePostactionMethod()

public int addValidationRule(
    ValidationMethod aRule)

public void removeValidationRule(
    int index)

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[]
getValidationRules()

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod
getValidationRule(
    int index)

public void setValidationRule(
    int index,
    ValidationMethod aRule)

Fields public static final NUMBER_OF_SECTIONS
```

**public static final OBJECT\_TYPE**

**private tsId**

The TS id (must be unique).

**private serviceName**

**private description**

The abstract of the KU, in different languages.

**private currentState**

The state of the TS.

**private currentPerformer**

**private lastModificationDate**

**private workgroupName**

**private authorId**

**private creationDate**

**private expiryDate**

**private serviceExpiry**

**private authenticationRequirements**

**private allowSave**

**private allowEdit**

**private allowDelete**

**private deadline**

**private formSets**

**private formId**

```
private linkedKus

private linkedTaxonomyNodes

private preactionMethod

private postactionMethod

private validationRules

private static targetPlatform

private numberOfSubmissions

private numberOfSavedNonSubmittedSessions

private numberOfSubmissionsWithWarnings

private numberOfEdits

private numberOfDeletions

private numberOfRejectedSubmissions

private fullSubmissionTime

private errorCorrectionTime

private handleSubmissionTime
```

public class **es.indra.smartgov.businesslayer.servicemodel.SMUtils**

This class contains some methods or utilities related with the service model module suchs us the preparation of conectors, and so on.

Constructors      **public SMUtils()**

Methods	<pre><code>private static es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector createSMSSystemConnector()  public static es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector getSMSSystemConnector()  public static void setPropertiesProvider(     PropertiesProvider pp)  public static java.lang.String getProperty(     String propName)  public static java.util.Properties getProperties()  public static void initServiceModelPackage()</code></pre>
Fields	<pre><code>private static connector  private static propertiesProvider  public static SM_SYSTEM_CONN_FACTORY_PROPNAME</code></pre>

## public interface **es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnectorFactory**

This interface defines a factory class for obtaining a SMSSystemConnector object.

Methods	<pre><code>public      es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector getSMSSystemConnectorInstance(     Properties p)</code></pre> <p>Returns an instance of the SMSSystemConnector , created according to the properties in the param.</p> <p><b>Parameters</b></p> <p>p - Necessary properties to get the connector.</p> <p><b>Returns</b></p> <p>The requested object.</p>
---------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

```
public interface es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector
```

This interface identifies a connector to the data layer component responsible for storing all the information related with the Service Model system. It is a bridge between the business layer and the data layer.

Methods

```
public void saveTse(  
    Tse aTse)  
  
public void deleteTse(  
    Tse aTse)  
  
public es.indra.smartgov.businesslayer.servicemodel.Tse[] getLastTses(  
    int start,  
    int end)  
  
public es.indra.smartgov.businesslayer.servicemodel.Tse getGenericTseByld(  
    String tseld)  
  
public java.lang.String[] getBuiltInDataTypes()  
  
public es.indra.smartgov.businesslayer.servicemodel.AssociatedTse  
getReducedTseByld(  
    String tseld)  
  
public java.util.ArrayList isTseAvailableToDelete(  
    String tseld)  
  
public void saveInstantiatedTse(  
    InstantiatedTse aITse)  
  
public void deleteInstantiatedTse(  
    InstantiatedTse aITse)  
  
public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse[]  
getLastInstantiatedTses(  
    String origin,  
    int start,  
    int end)  
  
public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse  
getInstantiatedTseByld(  
    String tseld)
```

```
String tsId)

public es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse
getReducedInstantiatedTseById(
    String tsId)

public java.lang.String findInstantiatedTsId(
    String tsId,
    String origin)

public java.util.ArrayList isITseAvailableToDeleteInTseGroups(
    String iTsId)

public java.util.ArrayList isITseAvailableToDeleteInForms(
    String iTsId)

public void saveForm(
    Form aForm)

public void deleteForm(
    Form aForm)

public es.indra.smartgov.businesslayer.servicemodel.Form[] getLastForms(
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.Form getFormById(
    String formId)

public java.util.ArrayList isFormAvailableToDelete(
    String formId)

public void saveTs(
    Ts aTs)

public void deleteTs(
    Ts aTs)

public es.indra.smartgov.businesslayer.servicemodel.Ts[] getLastTss(
    int start,
    int end)
```

```
public es.indra.smartgov.businesslayer.servicemodel.Ts[] getTssInWorkGroup(
    String workGroup,
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.Ts getTsById(
    String tsId)

public void saveTseGroup(
    TseGroup aTse)

public void deleteTseGroup(
    TseGroup aTse)

public es.indra.smartgov.businesslayer.servicemodel.TseGroup[] getLastTseGroups(
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.TseGroup
getGenericTseGroupById(
    String tsId)

public java.lang.String[] getAvailableGroupControls()

public void saveInstantiatedTseGroup(
    InstantiatedTseGroup aTse)

public void deleteInstantiatedTseGroup(
    InstantiatedTseGroup aTse)

public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup[]
getLastInstantiatedTseGroups(
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup
getInstantiatedTseGroupById(
    String tsId)

public es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup
```

```

getReducedInstantiatedTseGroupId(
    String tseld)

public java.lang.String findInstantiatedTseGroupId(
    String tseGroupId)

public java.util.ArrayList isITseGroupAvailableToDelete(
    String iTseld)

public java.util.ArrayList isKuAvailableToDelete(
    String kuld)

public java.lang.String[] getAvailableUsefulForValues()

public java.lang.String[] getAvailableValidateAtValues()

public java.lang.String[] getAvailableSeverityValues()

```

public class **es.indra.smartgov.businesslayer.servicemodel.Method** implements  
**java.io.Serializable**

This class represents a generic Method. Its methods can be applied to every SmartGov object that contains methods. The method data is stored in this object as a kind of temporal storage while the object is being edited.

Constructors **public Method()**

```

public Method(
    String descriptionInDefaultLanguage)

```

Methods **public es.indra.smartgov.common.MultiLingualField getDescription()**

```

public void setDescription(
    MultiLingualField description)

```

```
public boolean getIsCodeInFileAttached()
```

```
public void setIsCodeInFileAttached(
```

```
    boolean isCodeInFileAttached)

    public java.lang.String getMethodLanguage()

    public void setMethodLanguage(
        String methodLanguage)

    public java.lang.String getUsefulFor()

    public void setUsefulFor(
        String usefulFor)

    public boolean getUsesSmartGovLang()

    public void setUsesSmartGovLang(
        boolean usesSmartGovLang)

    public static java.lang.String[] getAvailableNativeLanguages()

    public static java.lang.String[] getAvailableUsefulForValues()

    public java.lang.String getMethodCode()

    public void setMethodCode(
        String methodCode)

Fields          private description

                private methodLanguage

                private usefulFor

                private isCodeInFileAttached

                private usesSmartGovLang

                private methodCode

                public static final SMARTGOV_LANGUAGE

                private static availableNativeLanguages
```

```
public interface es.indra.smartgov.businesslayer.servicemodel.LinkableToTse
```

This interface define the methods to manage the Tses linkables to other SmartGov objects (TSE Group)

Methods

```
public void addLinkedTse(  
    AssociatedTse at)  
  
public es.indra.smartgov.businesslayer.servicemodel.AssociatedTse[]  
getLinkedGenericTses()  
  
public void removeLinkedTse(  
    int index)  
  
public boolean isThisTseLinkable(  
    AssociatedTse at)
```

```
public interface es.indra.smartgov.businesslayer.servicemodel.LinkableToRules
```

This interface define the methods to manage the Validation Rules linkables to other SmartGov objects (TS, Form, TSE...)

Methods

```
public int addValidationRule(  
    ValidationMethod aRule)  
  
public void removeValidationRule(  
    int index)  
  
public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[]  
getValidationRules()  
  
public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod  
getValidationRule(  
    int index)
```

```
public void setValidationRule(  
    int index,  
    ValidationMethod aRule)
```

public interface  
**es.indra.smartgov.businesslayer.servicemodel.LinkableToInstantiatedTseGroup**

This interface define the methods to manage the Instantiated Tse Group linkables to other SmartGov objects (Form)

Methods      **public void addLinkedTseGroup(  
 AssociatedInstantiatedTseGroup at)**

  
**public**  
**es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup[]  
getLinkedTseGroups()**  
  
**public void removeLinkedTseGroup(  
 int index)**  
  
**public boolean isThisTseGroupLinkable(  
 AssociatedInstantiatedTseGroup at)**

public interface **es.indra.smartgov.businesslayer.servicemodel.LinkableToInstantiatedTse**

This interface define the methods to manage the Instantiated Tses linkables to other SmartGov objects (Form, Instantiated TSE Group)

Methods      **public void addLinkedTse(  
 AssociatedInstantiatedTse at)**

  
**public es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse[]  
getLinkedTses()**  
  
**public void removeLinkedTse(  
 AssociatedInstantiatedTse at)**

**int index)**

**public boolean isThisTseLinkable(**  
**AssociatedInstantiatedTse at)**

public class **es.indra.smartgov.businesslayer.servicemodel.ITseValueList** implements  
java.io.Serializable

This class represents a set of forms in the context of a TS. The Form Set data is stored in this object as a kind of temporal storage while the object is being edited. In the context of SmartGov, a TS could have one or more different set of forms (HTML, WAP...)

Constructors      **public ITseValueList()**

**public ITseValueList(**  
**String value)**

Methods      **public es.indra.smartgov.common.MultiLingualField getContent()**

**public void setContent(**  
**MultiLingualField content)**

**public java.lang.String getValueList()**

**public void setValueList(**  
**String valueList)**

Fields      **private valueList**

**private content**

public class **es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup** implements  
java.io.Serializable,      **es.indra.smartgov.businesslayer.servicemodel.LinkableToInstantiatedTse**,  
**es.indra.smartgov.businesslayer.km.LinkableToKu**,  
**es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode**,

## [es.indra.smartgov.businesslayer.servicemodel.LinkableToRules](#)

This class represents a Instantiated Tse Group in the SmartGov development process. A Instantiated Tse Group represents a set of basic building blocks (Instantiated Tse) of the SmartGov development environment. It defines the properties an behaviour of the Instantiated TSE elements as a whole. The data is stored in this object as a kind of temporal storage while the object is being edited.

Constructors	<pre>public InstantiatedTseGroup()  public InstantiatedTseGroup(     TseGroup tseToRetrieve,     String workGroupKey,     String userLocale)</pre>
Methods	<pre>public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup[] getLastInstantiatedTseGroups(     int start,     int end)  Retrieve a list of the last modified elements ordered by last modification date.  public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup[] getLastTseGroupsFiltered(     int start,     int end,     LinkableToInstantiatedTseGroup filter)  Retrieve a list of the last elements filtered by some criteria (object not equals, object not linked...)  public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup getInstantiatedTseGroupById(     String tseld)  Retrieve a list of objects by ID or a pattern (id%)  static java.lang.String findId(     String tseGroupId)  public es.indra.util.web.tag.MessageError[] isCompleteToDelete()  This method checks the I.TseGroup, to see if it includes all the elements required by the schema  public es.indra.util.web.tag.MessageError[] isAvailableToDelete()</pre>

```
public void save()
Save a object to the repository

public void delete()
Delete a object from the repository

static es.indra.smartgov.businesslayer.servicemodel.SMSysSystemConnector
getDataConnector()
Gets a data connector to the Service repository

public java.util.Date getLastModificationDate()

public void setLastModificationDate(
Date lastModificationDate)

public java.lang.String getWorkgroupName()

public void setWorkgroupName(
String workgroupName)

public es.indra.smartgov.common.MultiLingualField getContent()

public void setContent(
MultiLingualField content)

public java.util.ArrayList getDefaultValueList()

public void addDefaultValueToList(
String newValue)

public void editDefaultValueFromList(
int valueToReplace,
String newValue)

public void removeDefaultValueFromList(
int valueToRemove)

public java.util.ArrayList getUniqueColumn()

public void addUniqueColumn(
```

```
        String newValue)

    public void editUniqueColumn(
        int valueToReplace,
        String newValue)

    public void removeUniqueColumn(
        int valueToRemove)

    public      es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse[]
getLinkedTses()

    public void addLinkedTse(
        AssociatedInstantiatedTse aTse)

    public void removeLinkedTse(
        int index)

    public boolean isThisTseLinkable(
        AssociatedInstantiatedTse at)

    public
es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup[]
getLinkedTseGroups()

    public void addLinkedTseGroup(
        AssociatedInstantiatedTseGroup aTse)

    public void removeLinkedTseGroup(
        int index)

    public boolean isThisTseGroupLinkable(
        AssociatedInstantiatedTseGroup at)

    public void addLinkedKu(
        AssociatedKu ak)

    public boolean isThisKuLinkable(
        AssociatedKu ak)

    public void removeLinkedKu()
```

```
    int index)

public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()

public void removeLinkedTaxonomyNode(
    int index)

public void removeAllLinkedTaxonomyNodes()

public boolean isNodeLinked(
    String nodeId)

public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
getLinkedTaxonomyNodes()

public void addLinkedTaxonomyNode(
    AssociatedTaxonomyNode atn)

public java.lang.String getObjectType()

public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

public int getMaxOccurrences()

public void setMaxOccurrences(
    int maxOccurrences)

public int getMinOccurrences()

public void setMinOccurrences(
    int minOccurrences)

public int getInitialRows()

public void setInitialRows(
    int initialRows)
```

```
public static java.lang.String[] getAvailableGroupControls()

public java.lang.String getGroupControls()

public void setGroupControls(
    String groupControls)

public int getRowStep()

public void setRowStep(
    int rowStep)

public java.lang.String getTseGroupId()

public void setTseGroupId(
    String tseGroupId)

public boolean getMaximumNumberOfRows()

public void setMaximumNumberOfRows(
    boolean maximumNumberOfRows)

public boolean getMeanNumberOfRows()

public void setMeanNumberOfRows(
    boolean meanNumberOfRows)

public boolean getMinimumNumberOfRows()

public void setMinimumNumberOfRows(
    boolean minimumNumberOfRows)

public java.util.ArrayList getIsMandatoryFlag()

public java.util.ArrayList getMandatoryTse()

public void addIsMandatory(
    boolean flag,
    String tseld)

public void removeIsMandatory()
```

```
    int valueToRemove)

public void editIsMandatory(
    int valueToReplace,
    boolean newValue)

public java.util.ArrayList getIsReadOnlyFlag()

public java.util.ArrayList getReadOnlyTse()

public void editIsReadOnly(
    int valueToReplace,
    boolean newValue)

public void addIsReadOnly(
    boolean flag,
    String tseld)

public void removeIsReadOnly(
    int valueToRemove)

public java.util.ArrayList getIsVisibleFlag()

public java.util.ArrayList getVisibleTse()

public void editIsVisible(
    int valueToReplace,
    boolean newValue)

public void addIsVisible(
    boolean flag,
    String tseld)

public void removeIsVisible(
    int valueToRemove)

public java.util.ArrayList getMinimumValueOfAColumn()

public void setMinimumValueOfAColumn(
    ArrayList values)
```

```
public void addMinimumValueOfAColumn(
    String column)

public void removeMinimumValueOfAColumn(
    int valueToRemove)

public java.util.ArrayList getMaximumValueOfAColumn()

public void setMaximumValueOfAColumn(
    ArrayList values)

public void addMaximumValueOfAColumn(
    String column)

public void removeMaximumValueOfAColumn(
    int valueToRemove)

public java.util.ArrayList getMeanValueOfAColumn()

public void setMeanValueOfAColumn(
    ArrayList values)

public void addMeanValueOfAColumn(
    String column)

public void removeMeanValueOfAColumn(
    int valueToRemove)

public java.util.ArrayList getNumberOfNonEmptyValuesOfAColumn()

public void setNumberOfNonEmptyValuesOfAColumn(
    ArrayList values)

public void addNumberOfNonEmptyValuesOfAColumn(
    String column)

public void removeNumberOfNonEmptyValuesOfAColumn(
    int valueToRemove)

public es.indra.smartgov.common.MultiLingualField getTseName()
```

```
public void setTseName(
    MultiLingualField tseName)

public java.lang.String getInstanceOf()

public void setInstanceOf(
    String instanceOf)

public es.indra.smartgov.businesslayer.servicemodel.Method getStoreMethod()

public void setStoreMethod(
    Method storeMethod)

public void removeStoreMethod()

public es.indra.smartgov.businesslayer.servicemodel.Method getRetrieveMethod()

public void setRetrieveMethod(
    Method retrieveMethod)

public void removeRetrieveMethod()

public boolean getNumberOfNonEmptyValues()

public void setNumberOfNonEmptyValues(
    boolean numberOfNonEmptyValues)

public es.indra.smartgov.businesslayer.servicemodel.Method getComputationRule()

public void setComputationRule(
    Method computationRule)

public void removeComputationRule()

public void setOnTseValueChangeMethod(
    int index,
    Method aMethod)

public es.indra.smartgov.businesslayer.servicemodel.Method
getOnTseValueChangeMethod(
    int index)
```

```
public void removeOnTseValueChangeMethod(
    int index)

public int addValidationRule(
    ValidationMethod aRule)

public void removeValidationRule(
    int index)

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[]
getValidationRules()

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod
getValidationRule(
    int index)

public void setValidationRule(
    int index,
    ValidationMethod aRule)
```

Fields

```
public static final NUMBER_OF_SECTIONS

public static final OBJECT_TYPE

private tseGroupId  
The TSE id (must be unique).

private lastModificationDate

private workgroupName

private tseName

private content

private instanceOf

private minOccurrences

private maxOccurrences
```

```
private initialRows

private groupControls

private rowStep

private uniqueColumn

private defaultValueList

private linkedTses

private linkedTseGroups

private linkedKus

private linkedTaxonomyNodes

private isVisibleFlag

private visibleTse

private isReadOnlyFlag

private readOnlyTse

private isMandatoryFlag

private mandatoryTse

private numberofNonEmptyValues

private minimumNumberOfRows

private maximumNumberOfRows

private meanNumberOfRows

private minValueOfAColumn
```

```

private maximumValueOfAColumn

private meanValueOfAColumn

private numberOfNonEmptyValuesOfAColumn

private storeMethod

private retrieveMethod

private computationRule

private onTseValueChangeMethods

private validationRules

```

```

public class es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse implements
java.io.Serializable,
es.indra.smartgov.businesslayer.km.LinkableToKu,
es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode,
es.indra.smartgov.businesslayer.servicemodel.LinkableToRules

```

This class represents a Instantiated Tse in the SmartGov development process. A Instantiated Tse is a basic building block of the SmartGov development environment. It defines the properties an behaviour of the element that is going to be put in a form. The data is stored in this object as a kind of temporal storage while the object is being edited.

Constructors      **public InstantiatedTse()**

```

public InstantiatedTse(
    Tse tseToRetrieve,
    String workGroupKey,
    String userLocale,
    String origin)

```

Constructor to create a new instance from a Tse Group (origin=G\_) or a Tse (origin = T\_) Tse data

Methods      **public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse[]**  
**getLastInstantiatedTses(**

```
    String origin,  
    int start,  
    int end)
```

Retrieve a list of the last modified elements ordered by last modification date.

```
public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse[]  
getLastTsesFiltered(  
    String origin,  
    int start,  
    int end,  
    LinkableToInstantiatedTse filter)
```

Retrieve a list of the last elements filtered by some criteria (object not equals, object not linked...)

```
public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse  
getInstantiatedTseById(  
    String tseld)
```

Retrieve a list of objects by ID or a pattern (id%)

```
static java.lang.String findId(  
    String tseld,  
    String origin)
```

```
public es.indra.util.web.tag.MessageError[] isCompleteToSave()
```

This method checks the I.Tse, to see if it includes all the elements required by the schema

```
public es.indra.util.web.tag.MessageError[] isAvailableToDelete()
```

```
public void save()
```

Save a object to the repository

```
public void delete()
```

Delete a object from the repository

```
static es.indra.smartgov.businesslayer.servicemodel.SMSysSystemConnector  
getDataConnector()
```

Gets a data connector to the Service repository

```
public static java.lang.String[] getAvailableTseBuiltInDataTypes()
```

```
public java.util.Date getLastModificationDate()
```

```
public void setLastModificationDate(  
    Date lastModificationDate)  
  
public java.lang.String getWorkgroupName()  
  
public void setWorkgroupName(  
    String workgroupName)  
  
public java.lang.String getDefaultValue()  
  
public void setDefaultValue(  
    String defaultValue)  
  
public java.lang.String getTseBuiltInDataType()  
  
public void setTseBuiltInDataType(  
    String tseBuiltInDataType)  
  
public int getMaxLength()  
  
public void setMaxLength(  
    int maxLength)  
  
public java.util.ArrayList getValueListAsStrings()  
  
public es.indra.smartgov.businesslayer.servicemodel.ITseValueList[] getValueList()  
  
public void addValueToList(  
    String newValue)  
  
public void addValueToList(  
    ITseValueList aV)  
  
public void addValueToList(  
    ValueListItem newValue)  
  
public void setValueToList(  
    ITseValueList aV,  
    int index)
```

```
public void editValueFromList(
    int valueToReplace,
    String newValue)

public void editValueFromList(
    int valueToReplace,
    ValueListItem newValue)

public void removeValueFromList(
    int valueToRemove)

public java.util.ArrayList getHistogramLimits()

public void addValueToHistogramLimits(
    String newValue)

public void editValueFromHistogramLimits(
    int valueToReplace,
    String newValue)

public void removeValueFromHistogramLimits(
    int valueToRemove)

public void addLinkedKu(
    AssociatedKu ak)

public boolean isThisKuLinkable(
    AssociatedKu ak)

public void removeLinkedKu(
    int index)

public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()

public void removeLinkedTaxonomyNode(
    int index)

public void removeAllLinkedTaxonomyNodes()

public boolean isNodeLinked(
    String nodeid)
```

```
public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
getLinkedTaxonomyNodes()

public void addLinkedTaxonomyNode(
    AssociatedTaxonomyNode atn)

public java.lang.String getInstanceOf()

public void setInstanceOf(
    String instanceOf)

public java.lang.String getInstantiatedTseld()

public void setInstantiatedTseld(
    String instantiatedTseld)

public boolean getIsMandatory()

public void setIsMandatory(
    boolean isMandatory)

public boolean getIsReadOnly()

public void setIsReadOnly(
    boolean isReadOnly)

public boolean getIsVisible()

public void setIsVisible(
    boolean isVisible)

public boolean getSingleSelect()

public void setSingleSelect(
    boolean singleSelect)

public es.indra.smartgov.common.MultiLingualField getContent()

public void setContent(
    MultiLingualField content)
```

```
public es.indra.smartgov.common.MultiLingualField getTseName()

public void setTseName(
    MultiLingualField tseName)

public boolean getMaximumValue()

public void setMaximumValue(
    boolean maximumValue)

public boolean getMeanValue()

public void setMeanValue(
    boolean meanValue)

public boolean getMinimumValue()

public void setMinimumValue(
    boolean minimumValue)

public boolean getNumberOfDistinctValues()

public void setNumberOfDistinctValues(
    boolean numberOfDistinctValues)

public boolean getNumberOfNonEmptyValues()

public void setNumberOfNonEmptyValues(
    boolean numberOfNonEmptyValues)

public boolean getSumOfAllValues()

public void setSumOfAllValues(
    boolean sumOfAllValues)

public java.lang.String getObjectType()

public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()
```

```
public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

public es.indra.smartgov.businesslayer.servicemodel.Method getComputationRule()

public void setComputationRule(
    Method computationRule)

public void removeComputationRule()

public es.indra.smartgov.businesslayer.servicemodel.Method getOnValueChange()

public void setOnValueChange(
    Method onValueChange)

public void removeOnValueChange()

public es.indra.smartgov.businesslayer.servicemodel.Method getRetrieveMethod()

public void setRetrieveMethod(
    Method retrieveMethod)

public void removeRetrieveMethod()

public es.indra.smartgov.businesslayer.servicemodel.Method getStoreMethod()

public void setStoreMethod(
    Method storeMethod)

public void removeStoreMethod()

public int addValidationRule(
    ValidationMethod aRule)

public void removeValidationRule(
    int index)

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[]
getValidationRules()

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod
```

```
getValidationRule(  
    int index)  
  
public void setValidationRule(  
    int index,  
    ValidationMethod aRule)  
  
Fields  
public static final NUMBER_OF_SECTIONS  
  
public static final OBJECT_TYPE  
  
public static final INSTANTIATED_FROM_TSE_PREFIX  
  
public static final INSTANTIATED_FROM_TSE_GROUP_PREFIX  
  
public static final INSTANTIATED_FROM_BOTH_PREFIX  
  
private instantiatedTsId  
The I. TSE id (must be unique).  
  
private instanceOf  
  
private tseName  
  
private content  
  
private name  
  
private lastModificationDate  
  
private workgroupName  
  
private maxLength  
  
private tseBuiltInDataType  
  
private singleSelect  
  
private isVisible  
  
private isReadOnly
```

```
private isMandatory  
  
private defaultValue  
  
private valueList  
  
private numberOfNonEmptyValues  
  
private numberOfDistinctValues  
  
private sumOfAllValues  
  
private minValue  
  
private maxValue  
  
private meanValue  
  
private histogramLimits  
  
private linkedKus  
  
private linkedTaxonomyNodes  
  
private computationRule  
  
private onValueChange  
  
private retrieveMethod  
  
private storeMethod  
  
private validationRules
```

```
public class es.indra.smartgov.businesslayer.servicemodel.Form implements  
java.io.Serializable, es.indra.smartgov.businesslayer.servicemodel.LinkableToInstantiatedTse,  
es.indra.smartgov.businesslayer.servicemodel.LinkableToInstantiatedTseGroup,
```

`es.indra.smartgov.businesslayer.km.LinkableToKu,`  
`es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode,`  
`es.indra.smartgov.businesslayer.servicemodel.LinkableToRules`

This class represents a Form in the SmartGov development process. A form is a container of the data related with the definition of the semantic of a Form, and the form layout file. The Form data is stored in this object as a kind of temporal storage while the object is being edited.

Constructors      **`public Form()`**

Methods      **`public static es.indra.smartgov.businesslayer.servicemodel.Form[] getLastForms(`**  
                  **`int start,`**  
                  **`int end)`**

Retrieve a list of the last modified elements ordered by last modification date.

**`public static es.indra.smartgov.businesslayer.servicemodel.Form[] getLastFormFiltered(`**  
                  **`int start,`**  
                  **`int end,`**  
                  **`TsFormSet filter)`**

Retrieve a list of the last elements filtered by some criteria (object not equals, object not linked...) Used in Ts to retrieve the Forms available to a FormSet

**`public static es.indra.smartgov.businesslayer.servicemodel.Form getFormById(`**  
                  **`String formId)`**

Retrieve a list of objects by ID or a pattern (id%)

**`public es.indra.util.web.tag.MessageError[] isCompleteToDelete()`**

This method checks the Form, to see if it includes all the elements required by the schema

**`public es.indra.util.web.tag.MessageError[] isAvailableToDelete()`**

**`public void save()`**

Save a object to the repository

**`public void delete()`**

Delete a object from the repository

**`static es.indra.smartgov.businesslayer.servicemodel.SMSysSystemConnector getDataConnector()`**

Gets a data connector to the Service repository

```
public java.lang.String getFormId()

public void setFormId(
    String formId)

public java.lang.String getFormLayout()

public void setFormLayout(
    String formLayout)

public java.util.Date getLastModificationDate()

public void setLastModificationDate(
    Date lastModificationDate)

public java.lang.String getWorkgroupName()

public void setWorkgroupName(
    String workgroupName)

public es.indra.smartgov.common.MultiLingualField getFormName()

public void setFormName(
    MultiLingualField formName)

public es.indra.smartgov.common.MultiLingualField getDescription()

public void setDescription(
    MultiLingualField description)

public      es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse[]
getLinkedTses()

public void addLinkedTse(
    AssociatedInstantiatedTse aTse)

public void removeLinkedTse(
    int index)

public boolean isThisTseLinkable()
```

```
        AssociatedInstantiatedTse at)

    public
        es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup[]
    getLinkedTseGroups()

    public void addLinkedTseGroup(
        AssociatedInstantiatedTseGroup aTse)

    public void removeLinkedTseGroup(
        int index)

    public boolean isThisTseGroupLinkable(
        AssociatedInstantiatedTseGroup at)

    public void addLinkedKu(
        AssociatedKu ak)

    public boolean isThisKuLinkable(
        AssociatedKu ak)

    public void removeLinkedKu(
        int index)

    public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()

    public void removeLinkedTaxonomyNode(
        int index)

    public void removeAllLinkedTaxonomyNodes()

    public boolean isNodeLinked(
        String nodeId)

    public
        es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]
    getLinkedTaxonomyNodes()

    public void addLinkedTaxonomyNode(
        AssociatedTaxonomyNode atn)

    public java.lang.String getObjectType()
```

```
public java.lang.String getObjectId()

public es.indra.smartgov.common.MultiLingualField getObjectName()

public es.indra.smartgov.common.MultiLingualField getObjectAbstract()

public es.indra.smartgov.businesslayer.servicemodel.Method getOnLoadMethod()

public void setOnLoadMethod(
    Method onLoadMethod)

public void removeOnLoadMethod()

public es.indra.smartgov.businesslayer.servicemodel.Method getOnLeaveMethod()

public void setOnLeaveMethod(
    Method onLeaveMethod)

public void removeOnLeaveMethod()

public int addValidationRule(
    ValidationMethod aRule)

public void removeValidationRule(
    int index)

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[]
getValidationRules()

public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod
getValidationRule(
    int index)

public void setValidationRule(
    int index,
    ValidationMethod aRule)

Fields          public static final NUMBER_OF_SECTIONS

                  public static final OBJECT_TYPE
```

**private formId**  
The Form id (must be unique).

**private formName**

**private lastModificationDate**

**private workgroupName**

**private description**

**private formLayout**

**private linkedKus**

**private linkedTaxonomyNodes**

**private linkedTses**

**private linkedTseGroups**

**private onLoadMethod**

**private onLeaveMethod**

**private validationRules**

public class **es.indra.smartgov.businesslayer.servicemodel.DataType** implements  
**java.io.Serializable**

This class represents a User-defined data type in the context of a TSE.

Constructors      **public DataType()**

**public DataType(**  
                       **String value)**

Methods

```
public java.util.ArrayList getAvailableMethods()

public void setAvailableMethods(
    ArrayList availableMethods)

public java.lang.String getBaseDataType()

public void setBaseDataType(
    String baseDataType)

public es.indra.smartgov.common.MultiLingualField getContent()

public void setContent(
    MultiLingualField content)

public java.lang.String getDataType()

public void setDataType(
    String dataType)

public java.lang.String getDefaultValue()

public void setDefaultValue(
    String defaultValue)

public int getMaxlength()

public void setMaxlength(
    int maxlen)

public java.lang.String getName()

public void setName(
    String name)

public java.util.ArrayList getValidationRule()

public void setValidationRule(
    ArrayList validationRule)

public java.util.ArrayList getValueList()
```

```
public void setValueList(
    ArrayList valueList)
```

Fields      **private dataType**

```
private content
```

```
private name
```

```
private baseDataType
```

```
private maxlenlength
```

```
private availableMethods
```

```
private validationRule
```

```
private defaultValue
```

```
private valueList
```

```
public class es.indra.smartgov.businesslayer.servicemodel.AssociatedTse implements
java.io.Serializable
```

This class represents a Generic Transaction Service Element (TSE) that it's associate with a concrete SmartGov element (TSE Groups). It is a reduced version of the Tse class, in order to improve the object management.

Constructors      **public AssociatedTse()**

```
public AssociatedTse(
    Tse aCompleteTse)
```

Methods      **public boolean equals(**
**Object obj)**

```
public static void unlinkTse(
```

```

String associatedTseld,
LinkableToTse linkedObject)

public java.lang.String getTseld()

public void setTseld(
String tseld)

public java.lang.String getTseName()

public void setTseName(
String tseName)

```

Fields            **private tseld**

**private tseName**

```

public class es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup
implements java.io.Serializable

```

This class represents a Instantiated Transaction Service Element Group (I.TSE Group) that it's associate with a concrete SmartGov element (Form). It is a reduced version of the InstantiatedTseGroup class, in order to improve the object management.

Constructors     **public AssociatedInstantiatedTseGroup()**

```

public AssociatedInstantiatedTseGroup(
InstantiatedTseGroup aCompleteTse)

```

Methods          **public boolean equals(**
**Object obj)**

```

public static void unlinkTse(
String associatedTseld,
LinkableToInstantiatedTseGroup linkedObject)

```

**public java.lang.String getTseld()**

```
public void setTseld(  
    String tseld)
```

```
public es.indra.smartgov.common.MultiLingualField getTseName()
```

```
public void setTseName(  
    MultiLingualField tseName)
```

Fields            **private tseld**

```
private tseName
```

```
public class es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse  
implements java.io.Serializable
```

This class represents a Instantiated Transaction Service Element (I.TSE) that it's associate with a concrete SmartGov element (Form or I. TSE Groups). It is a reduced version of the InstantiatedTse class, in order to improve the object management.

Constructors      **public AssociatedInstantiatedTse()**

```
public AssociatedInstantiatedTse(  
    InstantiatedTse aCompleteTse)
```

Methods            **public boolean equals(  
 Object obj)**

```
public static void unlinkTse(  
    String associatedTseld,  
    LinkableToInstantiatedTse linkedObject)
```

```
public java.lang.String getTseld()
```

```
public void setTseld(  
    String tseld)
```

```
public es.indra.smartgov.common.MultiLingualField getTseName()
```

```
public void setTseName(  
    MultiLingualField tseName)
```

Fields      **private tseld**

```
private tseName
```

## Package es.indra.smartgov.businesslayer.usermgmt

```
public class es.indra.smartgov.businesslayer.usermgmt.DBOuterUserSystemFactory
implements es.indra.smartgov.businesslayer.rolemodel.OuterUserSystemFactory
```

Constructors      **public DBOuterUserSystemFactory()**

Methods      **public es.indra.smartgov.businesslayer.rolemodel.OuterUserSystem
getOuterUserSystemInstance(
Properties p)**

```
public class es.indra.smartgov.businesslayer.usermgmt.DBOuterUserSystem implements
es.indra.smartgov.businesslayer.rolemodel.OuterUserSystem
```

Constructors      **public DBOuterUserSystem(
Properties p)**

Methods      **public es.indra.smartgov.businesslayer.rolemodel.OuterUser createOuterUser()**  
  
**public es.indra.smartgov.businesslayer.rolemodel.OuterUser getOuterUser(
String outerUserId)**  
  
**public void saveUser(
DBOuterUser aUser,
boolean hasBeenAlreadySaved)**

Fields      **private connProvider**  
  
**public static PREFIX\_FOR\_OUTER\_USER\_DB**

```
public class es.indra.smartgov.businesslayer.usermgmt.DBOuterUser implements
es.indra.smartgov.businesslayer.rolemodel.OuterUser
```

Constructors	<b>DBOuterUser()</b>
Methods	<b>public java.lang.String getEmail()</b>  <b>public void setEmail(</b> <b>String email)</b>  <b>public java.lang.String getName()</b>  <b>public void setName(</b> <b>String name)</b>  <b>public java.lang.String getSurname()</b>  <b>public void setSurname(</b> <b>String surname)</b>  <b>public java.lang.String getOuterUserId()</b>  <b>public void setOuterUserId(</b> <b>String outerUserId)</b>  <b>public void save(</b> <b>boolean hasBeenAlreadySaved)</b>  <b>public es.indra.smartgov.businesslayer.usermgmt.DBOuterUserSystem</b> <b>getOuterUserSystem()</b>  <b>public void setOuterUserSystem(</b> <b>DBOuterUserSystem outerUserSystem)</b>
Fields	<b>private outerUserId</b>  <b>private name</b>  <b>private surname</b>  <b>private email</b>

**private outerUserSystem**

## Package es.indra.smartgov.common

public class **es.indra.smartgov.common.SmartGovException** extends [java.lang.Exception](#)

Root exception for the Smartgov application. This exception encapsulates other exceptions (that will be accesible throught the getSourceException method. Última modificación: 03-04-2003

### Version

1.0

Constructors	<b>public SmartGovException(     String message)</b>  Constructor that only establish a message describing the reasons for throwing the Exception.  <b>Parameters</b> message - Message that explains the error.
	<b>public SmartGovException(     Exception source)</b>  Constructor used to wrap another exception.  <b>Parameters</b> source - Original exception that was thrown.
	<b>public SmartGovException(     Exception source,     String message)</b>  Constructor used to wrap another exception, with an additional message describing the situation.  <b>Parameters</b> source - Original exception that was thrown. message - Message that explains the error.
Methods	<b>public java.lang.String getMessage()</b>  Returns the detail message string of this Exception. The message consist in the message used in the constructor (if any), and the <code>toString()</code> of the original exception wrapped by this one (if any).  <b>Returns</b> The detailed description of the Exception.
	<b>public java.lang.String toString()</b>  Returns a short description of this Exception.

The result is the concatenation of three strings:

- The name of the actual class of this object.
- (a colon and a space).
- The result of the getMessage() method for this object.

**Returns**

the description of this Exception.

**See Also**

#getMessage

**public java.lang.Exception getSourceException()**

**public void setSourceException(  
Exception sourceException)**

**Fields**

**private sourceException**

Original exception, if any, that caused the original error.

**private message**

Message describing the cause of the exception.

public class **es.indra.smartgov.common.SmartGovDateFormat**

**Constructors**

**public SmartGovDateFormat()**

**Methods**

**private static void init()**

**public static java.lang.String format(  
Date d,  
String locale)**

**public static java.lang.String format(  
Date d,  
Locale locale)**

**public static java.util.Date parse(  
String fecha,  
String locale)**

```
public static java.util.Date parse(  
    String fecha,  
    Locale locale)  
  
private static java.text.DateFormat getDateFormat(  
    Locale locale)
```

Fields            **private static registeredFormatters**  
  
                 **private static defaultDateFormat**

```
public class es.indra.smartgov.common.MultiLingualLink implements java.io.Serializable
```

Constructors    **public MultiLingualLink()**  
  
Methods          **public es.indra.smartgov.common.MultiLingualField getNames()**  
  
                 **public void setNames(**  
                    MultiLingualField names)  
  
                 **public es.indra.smartgov.common.MultiLingualField getUrls()**  
  
                 **public void setUrls(**  
                    MultiLingualField urls)  
  
                 **public java.lang.Object clone()**  
  
Fields            **private names**  
  
                 **private urls**

```
public class es.indra.smartgov.common.MultiLingualField implements java.io.Serializable
```

Constructors	<b>public MultiLingualField()</b>
	<b>public MultiLingualField(</b> <b>String locale,</b> <b>Object value)</b>
Methods	<b>public void setValue(</b> <b>Locale locale,</b> <b>Object value)</b>
	<b>public void setValue(</b> <b>String locale,</b> <b>Object value)</b>
	<b>public java.lang.Object getValue(</b> <b>String locale)</b>
	Returns the most suitable value for this locale, among the avaiables ones.
	<b>public java.lang.Object getValue(</b> <b>Locale locale)</b>
	Returns the most suitable value for this locale, among the avaiables ones.
	<b>public java.lang.Object getExactValue(</b> <b>Locale locale)</b>
	Returns the value for this locale only if it is available, without searching the most suitable among the avaiables ones.
	<b>public java.lang.Object getExactValue(</b> <b>String locale)</b>
	Returns the value for this locale only if it is available, without searching the more suitable among the avaiables ones.
	<b>public void removeValue(</b> <b>String locale)</b>
	<b>public void removeValue(</b> <b>Locale locale)</b>
	<b>public java.lang.String[] getAllLocales()</b>

```
public java.util.Locale[] getAllLocaleObjects()

public java.util.Locale getDefaultLocale()

public es.indra.smartgov.common.AvailableLocale[] getNotUsedLocales()

public int size()

public java.lang.Object clone()

public static void main(
    String[] args)

public boolean equals(
    Object obj)

public java.lang.String toString()
```

Fields      **private values**

**private localeList**

public        class        **es.indra.smartgov.common.ElementNotFoundException**        extends  
es.indra.smartgov.common.SmartGovException

Constructors    **public ElementNotFoundException(**  
                 **String message)**

public        class        **es.indra.smartgov.common.ConnectorException**        extends  
es.indra.smartgov.common.SmartGovException

Constructors    **public ConnectorException(**  
                 **Exception source)**

```
public ConnectorException(
    String msg)
```

**public class es.indra.smartgov.common.CentralPropertiesProvider**

We will use this class to read a properties file and load the PropertiesProvider which is going to be used in the application. The properties file path should have been set before calling `setPropertiesFilename` . If not, the default file path (specified by `DEFAULT_PROPERTIES_FILEPATH` will be used.

The properties file must define the classname of the PropertiesProviderFactory (property `PROPS_PROVIDER_FACTORY_PROPNAME` ), and all the required properties to instantiate the Factory.

#### See Also

```
#setPropertiesFilename
#DEFAULT_PROPERTIES_FILEPATH
#PROPS_PROVIDER_FACTORY_PROPNAME
PropertiesProviderFactory
PropertiesProvider
```

Constructors      **public CentralPropertiesProvider()**

Methods      **private static void init()**

This method creates the PropertyProvider, following the description in the properties file ( `propsFilename` ).

If the properties file can't be loaded or the property `DEFAULT_PROPERTIES_FILEPATH` doesn't exist or is empty, the PropertiesProvider won't be created, and an error message will be displayed.

#### See Also

```
#DEFAULT_PROPERTIES_FILEPATH
```

**public static es.indra.util.PropertiesProvider getPropertiesProvider()**

Returns the PropertyProvider . If it had not been created before, this method creates it.

#### Returns

The provider of properties supplied by this class.

**public static void setPropertiesFilename(  
    String filename)**

Establish the path for the properties file that contains the main parameters for creating the PropertiesProvider . Every time this method is called, the PropertiesProvider is created again.

**Parameters**

filename - Path of the properties file.

**private static java.util.Properties loadProperties(  
    String filename)**

This method load a properties file, checking all the possible errors, and printing error messages if it is necessary.

**Parameters**

filename - Path of the properties file that we want to read.

**Returns**

The loaded properties, or an empty set of properties if there is any error.

**public static void initSmartGovPrerequisites(  
    String configFile)**

A call to this method is required to init the SmartGov application

**Fields**

**private static final DEFAULT\_PROPERTIES\_FILEPATH**

Default path for the properties file.

**public static final PROPS\_PROVIDER\_FACTORY\_PROPNAME**

Name of the property that will establish the name of the PropertiesProviderFactory that will be used to get the properties of the application.

**private static propsFilename**

The path of the properties file that we are going to use to load the PropertiesProvider . We will use the properties read here as parameter in the method PropertiesProviderFactory.getPropertiesProviderInstance() , and to read the name of the PropertiesProviderFactory .

If this value has not been established with the method setPropertiesFilename , it will use the DEFAULT\_PROPERTIES\_FILEPATH .

**See Also**

PropertiesProviderFactory#getPropertiesProviderInstance  
#setPropertiesFilename  
#DEFAULT\_PROPERTIES\_FILEPATH

**private static propsProvider**

The provider of properties loaded following the parameters in the properties file loaded ( propsFilename ).

**See Also**

#propsFilename

```
public class es.indra.smartgov.common.BasicData
```

Constructors      **public BasicData()**

Methods      **public java.lang.String getId()**

```
                public void setId(  
                      String id)
```

```
                public java.lang.String getName()
```

```
                public void setName(  
                      String name)
```

```
                public java.lang.String getDescription()
```

```
                public void setDescription(  
                      String description)
```

```
                public java.lang.String getType()
```

```
                public void setType(  
                      String type)
```

Fields      **private id**

**private name**

**private description**

**private type**

```
public class es.indra.smartgov.common.AvailableLocale
```

Constructors	<pre>public AvailableLocale(     Locale locale,     String image,     String imageOver,     String nameTag)</pre>
Methods	<pre>public static es.indra.smartgov.common.AvailableLocale[] getAllAvailableLocales()  public static es.indra.smartgov.common.AvailableLocale getLocale(     String localeId)  public static es.indra.smartgov.common.AvailableLocale getLocale(     Locale localeObject)  private static void loadLocales()  public static java.util.Locale getSuitableLocale(     Locale searched,     Locale[] available,     Locale defaultLocale)</pre>

This method search in the available locales the most suitable for the searched Locale.

#### Parameters

searched - The locale that we are searching.

available - All the available locales to choose among them.

defaultLocale - The default locale, if no one fits in the list. The method to look for the locale is, in the following order from lower-level (more specific) to parent-level (less specific):

Using: (1) the desired locale and (2) the default locale a locale with (language1 , country1 , variant1) a locale with (language1 , country1) a locale with (language1) a locale with (language2 , country2 ,variant2) a locale with (language2 , country2) a locale with (language2)

```
public static java.lang.String getSuitableLocale(  
    String searchedString,  
    String[] availableString,  
    String defaultString)
```

```
public static java.util.Locale getLocaleFromString(  
    String localeDefinition)  
  
private static java.util.Locale searchExactly(  
    Locale search,  
    Locale[] list)
```

**public static es.indra.smartgov.common.AvailableLocale getDefaultLocale()**

The first locale in the list defined in the property ALL\_LOCALES\_PROPERTY.

```
public static java.util.Locale[] buildLocaleList(  
    AvailableLocale[] notUsedLocales,  
    String editingLocale)
```

This methods is used in some pages to build the combo with the not used locales, adding the locale that is currently been edited

**public java.lang.String getLocaleId()**

**public java.lang.String getLocaleNameTag()**

```
public void setLocaleNameTag(  
    String localeNameTag)
```

**public java.lang.String getFlagImage()**

```
public void setFlagImage(  
    String flagImage)
```

**public java.lang.String getFlagImageOver()**

```
public void setFlagImageOver(  
    String flagImageOver)
```

**public java.util.Locale getLocaleObject()**

```
public void setLocaleObject(  
    Locale localeObject)
```

Fields      **private localeObject**

**private localeNameTag**

```
private flagImage

private flagImageOver

public static final ALL_LOCALES_PROPERTY

public static final LOCALE_FLAG_IMAGE_PREFIX

public static final LOCALE_FLAG_IMAGE_OVER_PREFIX

public static final LOCALE_NAME_TAG_PREFIX

private static availableLocales

private static localesByObject
```

## Package es.indra.smartgov.datalayer.db

public class es.indra.smartgov.datalayer.db.DBRoleSystemConnector implements es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector

Constructors      **public DBRoleSystemConnector(  
Properties p)**

Methods      **public boolean checkUserPassword(  
String username,  
String password)**

**public void changeUserPassword(  
String username,  
String password,  
String newPassword)**

**public boolean checkUserRole(  
String username,  
String roleScope,  
String groupId,  
String role)**

**public java.lang.String[] getAllRoles(  
String roleScope)**

**public es.indra.smartgov.businesslayer.rolemodel.Role[] getAllRolesNoSmartGov()**

**public java.lang.String[] getGroupIdAndOuterSystemFromDB(  
String userId)**

**public java.lang.String getOuterUserSystemFromDB(  
String userId)**

**public java.lang.String[] getAllUserRoles(  
String userId,  
String groupId,  
String roleScope)**

**public java.lang.String getSmartGovRole(  
String userId)**

```
String userId)

public java.lang.String[] getMembers(
    String groupId)

public void saveGroup(
    Group aGroup,
    boolean hasBeenAlreadySaved)
Group *****

public void saveUser(
    SmartGovUser aUser,
    boolean hasBeenAlreadySaved)
User *****

public boolean validateUser(
    SmartGovUser aUser)

public es.indra.smartgov.businesslayer.rolemodel.Group getGroupById(
    String groupId)

public es.indra.smartgov.businesslayer.rolemodel.Group[] getWorkGroupList(
    String userId)

public java.lang.String[] getWorkGroups(
    String userId)

public es.indra.smartgov.businesslayer.rolemodel.SmartGovUser retrieveUser(
    String userId)

public es.indra.smartgov.businesslayer.rolemodel.SmartGovUser[] getAllSmartGovUsers()

public es.indra.smartgov.businesslayer.rolemodel.SmartGovUser[] getUsersInAGroup(
    String groupId)

public es.indra.smartgov.businesslayer.rolemodel.GroupUsers[] getGroupUsers(
    String groupId)

public es.indra.smartgov.businesslayer.rolemodel.Role[] getUserRolesInAGroup(
    String userId,
```

**String groupId)**

**public java.lang.String[] getAllOuterUserSystems()**

Fields      **private connProvider**

**public static final PREFIX\_FOR\_DB\_CONNECTION\_PROPERTY**

public      class      **es.indra.smartgov.datalayer.db.DBConnectorsFactory**      implements  
es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnectorFactory

Constructors      **public DBConnectorsFactory()**

Methods      **public es.indra.smartgov.businesslayer.rolemodel.RoleSystemConnector  
getRoleSystemConnectorInstance(  
Properties p)**

## Package es.indra.smartgov.datalayer.xmlstore

```
class es.indra.smartgov.datalayer.xmlstore.XmlFilter implements java.io.FilenameFilter
```

Constructors      **XmlFilter()**

Methods      **public boolean accept(**  
                **File dir,**  
                **String name)**

```
public class es.indra.smartgov.datalayer.xmlstore.XmlStoreSMSSystemConnector implements  
es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector
```

Constructors      **private XmlStoreSMSSystemConnector()**

**public XmlStoreSMSSystemConnector(**  
                    **XmlStoreProvider storeProvider,**  
                    **Properties databaseProperties)**

Methods      **public void saveTse(**  
                **Tse aTse)**  
TSE \*\*\*\*\*

**public java.util.ArrayList isTseAvailableToDelete(**  
                    **String tseld)**

**public void deleteTse(**  
                    **Tse aTse)**

**public es.indra.smartgov.businesslayer.servicemodel.Tse[] getLastTses(**  
                    **int start,**  
                    **int end)**

**public es.indra.smartgov.businesslayer.servicemodel.Tse getGenericTseById(**  
                    **String tseld)**

```
public GenericTSE getGenericTseByDocId(
    String docId)

Throws
    SmartGovException - If there is a failure retrieving the doc from the XML repository.

public GenericTSE getGenericTseByTsId(
    String tsId)

public java.lang.String[] getBuiltInDataTypes()

public void saveInstantiatedTse(
    InstantiatedTse aTse)
INSTANTIATED TSE *****

public java.util.ArrayList isITseAvailableToDeleteInTseGroups(
    String iTsId)

public java.util.ArrayList isITseAvailableToDeleteInForms(
    String iTsId)

public void deleteInstantiatedTse(
    InstantiatedTse aTse)

public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse[]
getLastInstantiatedTses(
    String origin,
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse
getInstantiatedTseById(
    String tsId)

public InstantiatedTSE getInstantiatedTseByDocId(
    String docId)

Throws
    SmartGovException - If there is a failure retrieving the doc from the XML repository.

public InstantiatedTSE getInstantiatedTseByTsId(
    String tsId)
```

```
public      es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse
getReducedInstantiatedTseById(
    String tseld)

public      es.indra.smartgov.businesslayer.servicemodel.AssociatedTse
getReducedTseById(
    String tseld)

public es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup
getReducedInstantiatedTseGroupById(
    String tseld)

public java.lang.String findInstantiatedTseld(
    String tseld,
    String origin)

public void saveForm(
    Form aForm)
FORM ****

public java.util.ArrayList isFormAvailableToDelete(
    String formId)

public void deleteForm(
    Form aForm)

public es.indra.smartgov.businesslayer.servicemodel.Form[] getLastForms(
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.Form getFormById(
    String formId)

public es.indra.smartgov.datalayer.xml.Form getFormByFormId(
    String formId)

public es.indra.smartgov.datalayer.xml.Form getFormByDocId(
    String docId)

public void saveTs()
```

```
Ts aTs)
TS ****
public void deleteTs(
    Ts aTs)

public es.indra.smartgov.businesslayer.servicemodel.Ts[] getLastTss(
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.Ts[] getTssInWorkGroup(
    String workGroup,
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.Ts getTsById(
    String tsId)

public TS getTsByTsId(
    String tsId)

public TS getTsByDocId(
    String docId)

public void saveTseGroup(
    TseGroup aTse)
TSE GROUP ****

public void deleteTseGroup(
    TseGroup aTse)

public es.indra.smartgov.businesslayer.servicemodel.TseGroup[] getLastTseGroups(
    int start,
    int end)

public es.indra.smartgov.businesslayer.servicemodel.TseGroup
getGenericTseGroupById(
    String tsId)

public GenericTSEGroup getGenericTseGroupByDocId(
    String docId)
```

**Throws**

SmartGovException - If there is a failure retrieving the doc from the XML repository.

```
public GenericTSEGroup getGenericTseGroupByTseld(  
    String tseld)  
  
public void saveInstantiatedTseGroup(  
    InstantiatedTseGroup aTse)  
INSTANTIATED TSE GROUP *****  
  
public java.util.ArrayList isITseGroupAvailableToDelete(  
    String iTseld)  
  
public void deleteInstantiatedTseGroup(  
    InstantiatedTseGroup aTse)  
  
public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup[]  
getLastInstantiatedTseGroups(  
    int start,  
    int end)  
  
public es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup  
getInstantiatedTseGroupById(  
    String tseld)  
  
public InstantiatedTSEGroup getInstantiatedTseGroupByDocId(  
    String docId)  
Throws  
SmartGovException - If there is a failure retrieving the doc from the XML repository.  
  
public InstantiatedTSEGroup getInstantiatedTseGroupByTseld(  
    String tseld)  
  
public java.lang.String findInstantiatedTseGroupId(  
    String tseGroupId)  
  
public java.lang.String getDocIdByElementId(  
    String elementId,  
    String element)  
COMMON *****
```

```

public java.lang.String[] getAvailableGroupControls()

public java.lang.String[] getAvailableUsefulForValues()

public java.lang.String[] getAvailableValidateAtValues()

public java.lang.String[] getAvailableSeverityValues()

public java.util.ArrayList isKuAvailableToDelete(
    String kuld)

private boolean indexSMEExists()

public void createIndex()

private java.util.Properties loadProperties(
    String queriesFile)
loads a property file with the sql Statements used by the XmlStore. Returns a
java.util.Property. Example of queriesFile:
"com/archetypon/xml/store/impl/XmlStore.properties"

private java.lang.String getQuery(
    String queryName)

private java.lang.String getQuery(
    String queryName,
    Object[] queryParams)

Fields
public static final USED_CHARSET

public static final PREFIX_FOR_DB_CONNECTION_PROPERTY

private storeProvider

private dbConnProvider

private availableGroupControls

private availableBuiltInDataTypes

public static final INDEXER_FORM_ID

```

```
public static final INDEXER_FORM_ID_XPATH  
  
public static final INDEXER_FORM_LAST_MOD  
  
public static final INDEXER_FORM_LAST_MOD_XPATH  
  
public static final INDEXER_TSE_ID  
  
public static final INDEXER_TSE_ID_XPATH  
  
public static final INDEXER_TSE_LAST_MOD  
  
public static final INDEXER_TSE_LAST_MOD_XPATH  
  
public static final INDEXER_TSEG_ID  
  
public static final INDEXER_TSEG_ID_XPATH  
  
public static final INDEXER_TSEG_LAST_MOD  
  
public static final INDEXER_TSEG_LAST_MOD_XPATH  
  
public static final INDEXER_ITSE_ID  
  
public static final INDEXER_ITSE_ID_XPATH  
  
public static final INDEXER_ITSE_LAST_MOD  
  
public static final INDEXER_ITSE_LAST_MOD_XPATH  
  
public static final INDEXER_ITSEG_ID  
  
public static final INDEXER_ITSEG_ID_XPATH  
  
public static final INDEXER_ITSEG_LAST_MOD  
  
public static final INDEXER_ITSEG_LAST_MOD_XPATH  
  
public static final INDEXER_TS_ID
```

```
public static final INDEXER_TS_ID_XPATH  
  
public static final INDEXER_TS_STATE  
  
public static final INDEXER_TS_STATE_XPATH  
  
public static final INDEXER_TS_LAST_MOD  
  
public static final INDEXER_TS_LAST_MOD_XPATH  
  
public static final INDEXER_TS_WORKGROUP  
  
public static final INDEXER_TS_WORKGROUP_XPATH  
  
public static final INDEXER_TS_FORM  
  
public static final INDEXER_TS_FORM_XPATH  
  
public static final INDEXER_TS_KU  
  
public static final INDEXER_TS_KU_XPATH  
  
public static final INDEXER_FORM_ITSE  
  
public static final INDEXER_FORM_ITSE_XPATH  
  
public static final INDEXER_FORM_KU  
  
public static final INDEXER_FORM_KU_XPATH  
  
public static final INDEXER_FORM_ITSE_GROUP  
  
public static final INDEXER_FORM_ITSE_GROUP_XPATH  
  
public static final INDEXER_TSEG_TSE  
  
public static final INDEXER_TSEG_TSE_XPATH  
  
public static final INDEXER_TSEG_KU  
  
public static final INDEXER_TSEG_KU_XPATH
```

```
public static final INDEXER_ITSEG_ITSE
public static final INDEXER_ITSEG_ITSE_XPATH
public static final INDEXER_ITSEG_KU
public static final INDEXER_ITSEG_KU_XPATH
public static final INDEXER_TSE_KU
public static final INDEXER_TSE_KU_XPATH
public static final INDEXER_ITSE_KU
public static final INDEXER_ITSE_KU_XPATH
private static hasCreatedIndexes
private sqlQueries
```

public interface **es.indra.smartgov.datalayer.xmlstore.XmlStoreProvider**

Methods           **public com.archetypon.xml.store.XmlStore getXmlStore()**

public class **es.indra.smartgov.datalayer.xmlstore.XmlStoreLifeCycleSystemConnector**  
implements **es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnector**

Constructors     **private XmlStoreLifeCycleSystemConnector()**
  
**public XmlStoreLifeCycleSystemConnector(**
                 **XmlStoreProvider storeProvider,**
                 **Properties databaseProperties)**

Methods

```

public es.indra.smartgov.businesslayer.lifecycle.TaskListObject[] getUserObjects(
    String username)
Select all objects (TS and KU) from the repository linked to a user

public java.lang.String[] getStates()

public java.lang.String[] getAvailableToPerformStates()

public java.lang.String[] getAvailableActions(
    String currentState,
    Role[] userRoles)

public java.lang.String[] getNextState(
    String currentState,
    String actionPerformed)

public es.indra.smartgov.businesslayer.rolemodel.RoleScope
getAssociateRoleScope()

public TS getTsByDocId(
    String docId)

public KU getXmlKuByDocId(
    String docId)

private java.util.Properties loadProperties(
    String queriesFile)
loads a property file with the sql Statements used by the XmlStore. Returns a
java.util.Property. Example of queriesFile:
"com/archetypon/xml/store/impl/XmlStore.properties"

private java.lang.String getQuery(
    String queryName)

private java.lang.String getQuery(
    String queryName,
    Object[] queryParams)

```

Fields

```
public static final PREFIX_FOR_DB_CONNECTION_PROPERTY
```

```
private storeProvider

private dbConnProvider

private availableBuiltInDataTypes

private sqlQueries

public class es.indra.smartgov.datalayer.xmlstore.XmlStoreKMSystemConnector implements
es.indra.smartgov.businesslayer.km.KMSystemConnector

Constructors    public XmlStoreKMSystemConnector(
                  XmlStoreProvider storeProvider,
                  Properties databaseProperties)

Methods        public void save(
                  Ku aKu)

                  public java.util.ArrayList isKuAvailableToDelete(
                  String kuld)

                  public void deleteKu(
                  Ku aKu)

                  public void deleteTaxonomy(
                  Taxonomy aTaxonomy)

                  public void deleteNode(
                  TaxonomyNode aNode)

                  public void save(
                  Taxonomy aTaxonomy)

                  public void save(
                  TaxonomyNode aTaxNode)

                  public es.indra.smartgov.businesslayer.km.Ku[] getLastKus(
```

```
        int start,
        int end)

    public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLastReducedKus(
        int start,
        int end)

    public es.indra.smartgov.businesslayer.km.Ku[] getKusByKuld(
        String pattern,
        int start,
        int end)

    public es.indra.smartgov.businesslayer.km.Ku[] getKusRelatedWithTaxNode(
        String taxNodeCode,
        int start,
        int end)

    public es.indra.smartgov.businesslayer.km.Ku getKuById(
        String kuld)

    public es.indra.smartgov.businesslayer.km.Taxonomy getTaxonomyById(
        String taxonomyId)

    public es.indra.smartgov.businesslayer.km.TaxonomyNode getTaxonomyNodeById(
        String taxonomyNodeId)

    public KU getXmlKuByKuld(
        String kuld)

    public KU getXmlKuByDocId(
        String docId)

    Throws
        SmartGovException - If there is a failure retrieving the doc from the XML repository.

    public es.indra.smartgov.datalayer.xml.Taxonomy getXmlTaxonomyByTaxonomyId(
        String taxonomyId)

    public es.indra.smartgov.datalayer.xml.Taxonomy getXmlTaxonomyByDocId(
        String docId)

    public es.indra.smartgov.datalayer.xml.TaxonomyNode getXmlTaxNodeByTaxNodeId()
```

```
String taxonomyNodeld)

public es.indra.smartgov.datalayer.xml.TaxonomyNode
getXmlTaxonomyNodeByDocId(
    String docId)

public es.indra.smartgov.businesslayer.km.AssociatedKu getReducedKuById(
    String kuld)

public java.lang.String getDocIdByObjectId(
    String objectId,
    String tableAndFieldToLook)

public java.lang.String getDocIdByTaxonomyNodeld(
    String taxNodeld)

public java.lang.String getDocIdByTaxonomyId(
    String taxonomyId)

public java.lang.String getDocIdByKuld(
    String kuld)

public java.lang.String[] getAvailableKuTypes()

private java.lang.String[] getAvailableLevelValues()

public java.lang.String[] getAvailableComplexityValues()

public java.lang.String[] getAvailableRichnessValues()

public java.lang.String[] getAvailableRelevanceValues()

public java.lang.String[] getAvailableGradeValues()

public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode
getReducedTaxonomyNodeById(
    String taxonomyNodeld)

public java.lang.String[][] getLinkedObjectsToTaxonomyNodeldsAndTypes(
    String nodeld)
```

```

public es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode[]
getLinkedObjectsToTaxonomyNode(
    String nodeId)

public void registerLinkableToTaxonomyNodeInstantiator(
    LinkableToTaxonomyNodeInstantiator instantiator,
    String[] objectTypesThatCanInstantiate)

public void registerLinkableToTaxonomyNodeInstantiator(
    LinkableToTaxonomyNodeInstantiator instantiator,
    String objectType)

public es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode
getLinkableToTaxonomyNodeById(
    String objectType,
    String objectId)

public es.indra.smartgov.businesslayer.km.Taxonomy[] getAllTaxonomies(
    int start,
    int end)

public es.indra.smartgov.businesslayer.km.TaxonomyNode[]
getNodesRelatedByNodeId(
    String pattern,
    int start,
    int end)

private boolean indexKMEexists()

public void createIndex()

private java.util.Properties loadProperties(
    String queriesFile)
loads a property file with the sql Statements used by the XmlStore. Returns a
java.util.Property. Example of queriesFile:
"com/archetypon/xml/store/impl/XmlStore.properties"

private java.lang.String getQuery(
    String queryName)

private java.lang.String getQuery()

```

```
        String queryName,  
        Object[] queryParams)  
  
Fields          public static final USED_CHARSET  
  
                  public static final PREFIX_FOR_DB_CONNECTION_PROPERTY  
  
                  private storeProvider  
  
                  private dbConnProvider  
  
                  private availableKuTypes  
  
                  private availableLevelValues  
  
                  private availableGradeValues  
  
                  private instantiators  
  
                  private static hasCreatedIndexes  
  
                  private sqlQueries
```

```
public class es.indra.smartgov.datalayer.xmlstore.XmlStoreConnectorsFactory implements  
es.indra.smartgov.businesslayer.km.KMSSystemConnectorFactory,  
es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnectorFactory,  
es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnectorFactory,  
es.indra.smartgov.datalayer.xmlstore.XmlStoreProvider
```

```
Constructors    public XmlStoreConnectorsFactory()  
  
Methods         public             es.indra.smartgov.businesslayer.km.KMSSystemConnector  
                  getKMSSystemConnectorInstance(  
                  Properties p)  
  
                  public             es.indra.smartgov.businesslayer.servicemodel.SMSSystemConnector  
                  getSMSSystemConnectorInstance()
```

Properties p)

```
public es.indra.smartgov.businesslayer.lifecycle.LifeCycleSystemConnector
getLifeCycleSystemConnectorInstance(
    Properties p)

public com.archetypon.xml.store.XmlStore getXmlStore()

private com.archetypon.xml.store.XmlStore createXmlStore(
    Properties p)

private static java.lang.String twoDigits(
    int numero)

public static java.lang.String dateToString(
    Date d)

public static java.util.Date stringToDate(
    String s)

public static void main(
    String[] args)

public static void setDocumentType(
    String documentId,
    String objectType,
    DBConnectionProvider dbConnProvider)
```

Fields **private lastProperties**

```
private xmlStore

public static final PROPS_PREFIX
```

```
public class es.indra.smartgov.datalayer.xmlstore.XMLRepositoryCharsetTester
```

Constructors **public XMLRepositoryCharsetTester()**

Methods            **public static void main(**  
**String[] args)**

public class **es.indra.smartgov.datalayer.xmlstore.ValidationMethodTransform**

Constructors      **public ValidationMethodTransform()**

Methods            **public static void fillXmlValidationMethod(**  
**ValidationMethod bIRule,**  
**ValidationMethod xmlRule)**  
                       Transform a business logic Object into a Castor/datalayer Object

**public static es.indra.smartgov.businesslayer.servicemodel.ValidationMethod**  
**transform(**  
**ValidationMethod xmlRule)**  
                       Transform a Castor/datalayer Object into a business logic Object

public class **es.indra.smartgov.datalayer.xmlstore.TsTransform**

Constructors      **public TsTransform()**

Methods            **public static TS transform(**  
**Ts businessLogicTs)**  
                       Transform a business logic Object into a Castor/datalayer Object

**public static es.indra.smartgov.businesslayer.servicemodel.Ts transform(**  
**TS xmlTs,**  
**KMSystemConnector kmConnector)**  
                       Transform a Castor/datalayer Object into a business logic Object

**public static TS transform(**  
**XmlStoreDocument doc)**

```
public class es.indra.smartgov.datalayer.xmlstore.TseGroupTransform
```

Constructors      **public TseGroupTransform()**

Methods      **public static GenericTSEGroup transform(  
                  TseGroup businessLogicTse)**

Transform a business logic Object into a Castor/datalayer Object

```
public static es.indra.smartgov.businesslayer.servicemodel.TseGroup transform(  
                  GenericTSEGroup xmlTse,  
                  KMSystemConnector kmConnector,  
                  SMSSystemConnector smConnector)
```

```
public static GenericTSEGroup transform(  
                  XmlStoreDocument doc)
```

Transform a Castor/datalayer Object into a business logic Object

```
public class es.indra.smartgov.datalayer.xmlstore.TaxonomyTransform
```

Constructors      **public TaxonomyTransform()**

Methods      **public static es.indra.smartgov.businesslayer.km.Taxonomy transform(  
                  es.indra.smartgov.datalayer.xml.Taxonomy xmlTaxonomy)**

```
public static es.indra.smartgov.businesslayer.km.Taxonomy transform(  
                  es.indra.smartgov.datalayer.xml.Taxonomy xmlTaxonomy,  
                  boolean retrieveNodesFromXmlStore)
```

Transform a Castor/datalayer Object into a business logic Object

```
public class es.indra.smartgov.datalayer.xmlstore.TaxonomyNodeTransform
```

Constructors      **public TaxonomyNodeTransform()**

Methods      **public static es.indra.smartgov.businesslayer.km.TaxonomyNode transform(**  
**es.indra.smartgov.datalayer.xml.TaxonomyNode xmlTaxNode)**

**public static es.indra.smartgov.businesslayer.km.TaxonomyNode transform(**  
**es.indra.smartgov.datalayer.xml.TaxonomyNode xmlTaxNode,**  
**boolean retrieveNodesFromXmlStore)**

Transform a business logic Object into a Castor/datalayer Object

**public static es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode**  
**transformReduced(**  
**es.indra.smartgov.datalayer.xml.TaxonomyNode xmlTaxNode)**

```
public class es.indra.smartgov.datalayer.xmlstore.TaxonomyLoader
```

Class that allows to load in SmartGov a Taxonomy and its Taxonomy Nodes children It creates a File to be retrieved by the SmartGov Front-end tool

Constructors      **public TaxonomyLoader()**

Methods      **public static void main(**  
**String[] args)**

**public static void loadTaxonomy(**  
**String filePath)**

**private static void loadNodeAndChildren(**  
**String nodeId,**  
**String directory,**  
**ArrayList nodeList)**

```
public class es.indra.smartgov.datalayer.xmlstore.MethodTransform
```

Constructors      **public MethodTransform()**

Methods      **public static void fillXmlMethod(**  
                 **Method bIMethod,**  
                 **Method xmlMethod)**

Transform a business logic Object into a Castor/datalayer Object

```
public static es.indra.smartgov.businesslayer.servicemodel.Method transform(  
                 Method xmlMethod)
```

Transform a Castor/datalayer Object into a business logic Object

```
public class es.indra.smartgov.datalayer.xmlstore.KuTransform
```

Constructors      **public KuTransform()**

Methods      **public static KU transform(**  
                 **Ku businessLogicKu)**

Transform a business logic Ku into a Castor/datalayer KU

```
public static es.indra.smartgov.businesslayer.km.Ku transform(  
                 KU xmlKu,  
                 KMSystemConnector kmConnector)
```

Transform a Castor/datalayer KU into a business logic Ku

```
public static KU transform(  
                 XmlStoreDocument doc)
```

Transform a document from the repository in a Castor/datalayer KU

```
public static es.indra.smartgov.businesslayer.km.AssociatedKu transformReduced(  
                 KU xmlKu)
```

Transform a Castor/datalayer AssociatedKU into a business logic AssociatedKu

```
public class es.indra.smartgov.datalayer.xmlstore.KuLoader
```

Constructors      **public KuLoader()**

Methods      **public static void main(**  
                 **String[] args)**

**public static void loadKu(**  
                    **String filePath)**

**public static void loadAllKusFromDirectory(**  
                    **String directoryPath)**

```
public class es.indra.smartgov.datalayer.xmlstore.InstantiatedTseTransform
```

Constructors      **public InstantiatedTseTransform()**

Methods      **public static InstantiatedTSE transform(**  
                 **InstantiatedTse businessLogicTse)**

Transform a business logic Object into a Castor/datalayer Object

**public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTse transform(**  
                    **InstantiatedTSE xmlTse,**  
                    **KMSystemConnector kmConnector)**

Transform a Castor/datalayer Object into a business logic Object

**public static InstantiatedTSE transform(**  
                    **XmlStoreDocument doc)**

**public static es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse**  
                 **transformReduced(**  
                    **InstantiatedTSE xmlTse)**

```
public class es.indra.smartgov.datalayer.xmlstore.InstantiatedTseGroupTransform
```

Constructors	<b>public InstantiatedTseGroupTransform()</b>
Methods	<b>public static InstantiatedTSEGroup transform(</b> <b>InstantiatedTseGroup businessLogicTse)</b> Transform a business logic Object into a Castor/datalayer Object  <b>public static es.indra.smartgov.businesslayer.servicemodel.InstantiatedTseGroup transform(</b> <b>InstantiatedTSEGroup xmLTse,</b> <b>KMSSystemConnector kmConnector,</b> <b>SMSSystemConnector smConnector)</b> Transform a Castor/datalayer Object into a business logic Object  <b>public static InstantiatedTSEGroup transform(</b> <b>XmlStoreDocument doc)</b>  <b>public static</b> <b>es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup transformReduced(</b> <b>InstantiatedTSEGroup xmLTse)</b>

```
public class es.indra.smartgov.datalayer.xmlstore.GenericTseTransform
```

Constructors	<b>public GenericTseTransform()</b>
Methods	<b>public static GenericTSE transform(</b> <b>Tse businessLogicTse)</b> Transform a business logic Object into a Castor/datalayer Object  <b>public static es.indra.smartgov.businesslayer.servicemodel.Tse transform(</b> <b>GenericTSE xmLTse,</b> <b>KMSSystemConnector kmConnector)</b> Transform a Castor/datalayer Object into a business logic Object

```
public static GenericTSE transform(
    XmlStoreDocument doc)

public      static      es.indra.smartgov.businesslayer.servicemodel.AssociatedTse
transformReduced(
    GenericTSE xmlTse)
```

## public class **es.indra.smartgov.datalayer.xmlstore.FormTransform**

Constructors      **public FormTransform()**

Methods      **public static es.indra.smartgov.datalayer.xml.Form transform(
 Form businessLogicForm)**

Transform a business logic Object into a Castor/datalayer Object

```
public static es.indra.smartgov.businesslayer.servicemodel.Form transform(
    es.indra.smartgov.datalayer.xml.Form xmlForm,
    KMSSystemConnector kmConnector,
    SMSSystemConnector smConnector)
```

Transform a Castor/datalayer Object into a business logic Object

```
public static es.indra.smartgov.datalayer.xml.Form transform(
    XmlStoreDocument doc)
```

## Package es.indra.smartgov.webapp.action

class      **es.indra.smartgov.webapp.action.StoreMethodInITseGroupLinker**      implements  
es.indra.smartgov.webapp.action.MethodLinker

NOTE FOR EVERY STRUTS ACTION CLASSES: All classes in this package works in the same way: Process the specified HTTP request, and create the corresponding HTTP response (or forward to another web component that will create it). Return an ActionForward instance describing where and how control should be forwarded, or null if the response has already been completed.

### Parameters

mapping - The ActionMapping used to select this instance  
actionForm - The optional ActionForm bean for this request (if any)  
request - The HTTP request we are processing  
response - The HTTP response we are creating

### Throws

IOException - if an input/output error occurs  
ServletException - if a servlet exception occurs

Constructors      **StoreMethodInITseGroupLinker(**  
                      **InstantiatedTseGroup altseGroup)**

Methods      **public void setMethod(**  
                      **Method aMethod)**

**public void removeMethod()**

Fields      **private itseGroup**

class      **es.indra.smartgov.webapp.action.StoreMethodInITseLinker**      implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors      **StoreMethodInITseLinker(**  
                      **InstantiatedTse altse)**

Methods      **public void setMethod(**  
                      **Method aMethod)**

```
public void removeMethod()
```

Fields      **private itse**

```
class es.indra.smartgov.webapp.action.ValidationRuleInLinkableToRuleLinker implements  
es.indra.smartgov.webapp.action.RuleLinker
```

Constructors      **ValidationRuleInLinkableToRuleLinker(**  
                  **LinkableToRules aLinkableToRule)**

```
                  ValidationRuleInLinkableToRuleLinker(  
                  LinkableToRules aLinkableToRule,  
                  int index)
```

Methods      **public void setRule(**  
                  **ValidationMethod aRule)**

```
                  public void removeRule()
```

Fields      **private linkableToRule**

```
                  private index
```

```
                  private isNewRule
```

```
class es.indra.smartgov.webapp.action.RetrieveMethodInTseGroupLinker implements  
es.indra.smartgov.webapp.action.MethodLinker
```

Constructors      **RetrieveMethodInTseGroupLinker(**  
                  **InstantiatedTseGroup altseGroup)**

Methods      **public void setMethod(**

**Method aMethod)**

**public void removeMethod()**

Fields      **private itseGroup**

class      **es.indra.smartgov.webapp.action.RetrieveMethodInTseLinker**      implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors      **RetrieveMethodInTseLinker(**  
**InstantiatedTse altse)**

Methods      **public void setMethod(**  
**Method aMethod)**

**public void removeMethod()**

Fields      **private itse**

class      **es.indra.smartgov.webapp.action.PreactionInTsLinker**      implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors      **PreactionInTsLinker(**  
**Ts aTs)**

Methods      **public void setMethod(**  
**Method aMethod)**

**public void removeMethod()**

Fields      **private ts**

class **es.indra.smartgov.webapp.action.PostactionInTsLinker** implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors **PostactionInTsLinker(  
Ts aTs)**

Methods **public void setMethod(  
Method aMethod)**  
  
**public void removeMethod()**

Fields **private ts**

class **es.indra.smartgov.webapp.action.OnValueChangeInTseLinker** implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors **OnValueChangeInTseLinker(  
InstantiatedTse altse)**

Methods **public void setMethod(  
Method aMethod)**  
  
**public void removeMethod()**

Fields **private itse**

class **es.indra.smartgov.webapp.action.OnTseValueChangeInTseGroupLinker** implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors	<b>OnTseValueChangeInTseGroupLinker(</b> <b>InstantiatedTseGroup altseGroup,</b> <b>int index)</b>	
Methods	<b>public void setMethod(</b> <b>Method aMethod)</b>  <b>public void removeMethod()</b>	
Fields	<b>private itseGroup</b>  <b>private index</b>	
class	<b>es.indra.smartgov.webapp.action.OnLoadInFormLinker</b>	implements es.indra.smartgov.webapp.action.MethodLinker
Constructors	<b>OnLoadInFormLinker(</b> <b>Form aForm)</b>	
Methods	<b>public void setMethod(</b> <b>Method aMethod)</b>  <b>public void removeMethod()</b>	
Fields	<b>private form</b>	
class	<b>es.indra.smartgov.webapp.action.OnLeaveInFormLinker</b>	implements es.indra.smartgov.webapp.action.MethodLinker
Constructors	<b>OnLeaveInFormLinker(</b> <b>Form aForm)</b>	
Methods	<b>public void setMethod(</b>	

**Method aMethod)**

**public void removeMethod()**

Fields      **private form**

class    **es.indra.smartgov.webapp.action.ComputationRuleInTseGroupLinker**    implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors      **ComputationRuleInTseGroupLinker(**  
**InstantiatedTseGroup altseGroup)**

Methods      **public void setMethod(**  
**Method aMethod)**

**public void removeMethod()**

Fields      **private itseGroup**

class    **es.indra.smartgov.webapp.action.ComputationRuleInTseLinker**    implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors      **ComputationRuleInTseLinker(**  
**InstantiatedTse altse)**

Methods      **public void setMethod(**  
**Method aMethod)**

**public void removeMethod()**

Fields      **private itse**

class                   **es.indra.smartgov.webapp.action.CodeInRuleLinker**                   implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors         **CodeInRuleLinker(**  
                         **ValidationMethod aRule)**

Methods               **public void setMethod(**  
                         **Method aMethod)**  
  
                      **public void removeMethod()**

Fields               **private rule**

class                   **es.indra.smartgov.webapp.action.AvailableMethodInTseLinker**                   implements  
es.indra.smartgov.webapp.action.MethodLinker

Constructors         **AvailableMethodInTseLinker(**  
                         **Tse aTse)**

**AvailableMethodInTseLinker(**  
                         **Tse aTse,**  
                         **int index)**

Methods               **public void setMethod(**  
                         **Method aMethod)**  
  
                      **public void removeMethod()**

Fields               **private tse**

**private index**

**private isNewMethod**

```
public class es.indra.smartgov.webapp.action.ViewCodeMethodInRuleAction extends org.apache.struts.action.Action
```

Constructors      **public ViewCodeMethodInRuleAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.UploadLinkAction extends org.apache.struts.action.Action
```

Constructors      **public UploadLinkAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.UploadFormAction extends org.apache.struts.action.Action
```

Constructors      **public UploadFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**

```
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.TaxonomyRetrievalAction extends  
org.apache.struts.action.Action
```

Constructors      **public TaxonomyRetrievalAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.StartSearchNodesAction extends  
org.apache.struts.action.Action
```

Constructors      **public StartSearchNodesAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.StartSearchKusAction extends  
org.apache.struts.action.Action
```

Constructors      **public StartSearchKusAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class es.indra.smartgov.webapp.action.StartSearchElementsAction extends  
org.apache.struts.action.Action

Constructors      **public StartSearchElementsAction()**

Methods      **public static void process(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class es.indra.smartgov.webapp.action.StartEditTsFormSetAction extends  
org.apache.struts.action.Action

Constructors      **public StartEditTsFormSetAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.StartEditRuleAction extends org.apache.struts.action.Action
```

Constructors      **public StartEditRuleAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.StartEditMethodAction extends org.apache.struts.action.Action
```

Constructors      **public StartEditMethodAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.StartEditKuSectionAction extends org.apache.struts.action.Action
```

Constructors      **public StartEditKuSectionAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**

```
HttpServletResponse response)
```

public class **es.indra.smartgov.webapp.action.StartEditGroupUserAction** extends org.apache.struts.action.Action

Constructors **public StartEditGroupUserAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
    **ActionMapping mapping,**  
    **ActionForm form,**  
    **HttpServletRequest request,**  
    **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.SetRuleAction** extends org.apache.struts.action.Action

Constructors **public SetRuleAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
    **ActionMapping mapping,**  
    **ActionForm form,**  
    **HttpServletRequest request,**  
    **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.SetMethodAction** extends org.apache.struts.action.Action

Constructors      **public SetMethodAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public         class       **es.indra.smartgov.webapp.action.SearchNodesAction**        extends  
**es.indra.smartgov.webapp.action.SearchElementsAction**

Constructors      **public SearchNodesAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

Fields        **public static final BEGIN\_PAGINATION**  
  
                **public static final END\_PAGINATION**

public class **es.indra.smartgov.webapp.action.SearchLinkedToTaxonomyNodeAction** extends  
**es.indra.smartgov.webapp.action.SearchElementsAction**

Constructors      **public SearchLinkedToTaxonomyNodeAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
Fields          public static final BEGIN_PAGINATION  
               public static final END_PAGINATION  
               public static final OBJECT_LIST
```

```
public class es.indra.smartgov.webapp.action.SearchKusAction extends  
es.indra.smartgov.webapp.action.SearchElementsAction
```

Constructors      **public SearchKusAction()**

```
Methods     public org.apache.struts.action.ActionForward perform(  
              ActionMapping mapping,  
              ActionForm form,  
              HttpServletRequest request,  
              HttpServletResponse response)
```

Fields                   **public static final BEGIN\_PAGINATION**  
                         **public static final END\_PAGINATION**

```
public class es.indra.smartgov.webapp.action.SearchElementsAction extends  
org.apache.struts.action.Action
```

**Constructors**      **public SearchElementsAction()**

```
Methods     public static org.apache.struts.action.ActionForward process(  
                  ActionMapping mapping,  
                  SearchElementsForm seForm,  
                  HttpServletRequest request,  
                  HttpServletResponse response)
```

```
public interface es.indra.smartgov.webapp.action.RuleLinker
```

Methods        **public void setRule(**  
                 **ValidationMethod aMethod)**

**public void removeRule()**

```
public class es.indra.smartgov.webapp.action.RetrieveUserAction extends  
org.apache.struts.action.Action
```

Constructors    **public RetrieveUserAction()**

Methods        **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

Fields        **private static final ACTION\_EDIT**  
  
                 **private static final ACTION\_READ\_ONLY**

```
public class es.indra.smartgov.webapp.action.RetrieveTseGroupAction extends  
org.apache.struts.action.Action
```

Constructors    **public RetrieveTseGroupAction()**

Methods        **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**

```
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)
```

Fields            **private static final ACTION\_EDIT**  
  
                 **private static final ACTION\_READ\_ONLY**

public        class        **es.indra.smartgov.webapp.action.RetrieveTseAction**        extends  
org.apache.struts.action.Action

Constructors    **public RetrieveTseAction()**  
  
Methods        **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**  
  
Fields        **private static final ACTION\_EDIT**  
  
                 **private static final ACTION\_READ\_ONLY**

public        class        **es.indra.smartgov.webapp.action.RetrieveTsAction**        extends  
org.apache.struts.action.Action

Constructors    **public RetrieveTsAction()**  
  
Methods        **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

Fields            **private static final ACTION\_EDIT**

**private static final ACTION\_READ\_ONLY**

public        class        **es.indra.smartgov.webapp.action.RetrieveTaxonomyAction**        extends  
org.apache.struts.action.Action

Constructors      **public RetrieveTaxonomyAction()**

Methods         **public org.apache.struts.action.ActionForward perform(**  
                  **ActionMapping mapping,**  
                  **ActionForm form,**  
                  **HttpServletRequest request,**  
                  **HttpServletResponse response)**

Fields         **private static final ACTION\_EDIT**

**private static final ACTION\_READ\_ONLY**

public        class        **es.indra.smartgov.webapp.action.RetrieveNodeAction**        extends  
org.apache.struts.action.Action

Constructors      **public RetrieveNodeAction()**

Methods         **public org.apache.struts.action.ActionForward perform(**  
                  **ActionMapping mapping,**  
                  **ActionForm form,**  
                  **HttpServletRequest request,**  
                  **HttpServletResponse response)**

Fields         **private static final ACTION\_EDIT**

```
private static final ACTION_READ_ONLY
```

```
public class es.indra.smartgov.webapp.action.RetrieveMethodAction extends  
org.apache.struts.action.Action
```

Constructors      **public RetrieveMethodAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.RetrieveKuAction extends  
org.apache.struts.action.Action
```

Constructors      **public RetrieveKuAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

Fields      **private static final ACTION\_EDIT**

```
private static final ACTION_READ_ONLY
```

```
private static final ACTION_REDUCED
```

public class es.indra.smartgov.webapp.action.RetrieveTseGroupAction extends org.apache.struts.action.Action

Constructors      **public RetrieveTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

Fields      **private static final ACTION\_EDIT**

**private static final ACTION\_READ\_ONLY**

public class es.indra.smartgov.webapp.action.RetrieveTseAction extends org.apache.struts.action.Action

Constructors      **public RetrieveTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

Fields      **private static final ACTION\_EDIT**

**private static final ACTION\_READ\_ONLY**

public class es.indra.smartgov.webapp.action.RetrieveGroupAction extends org.apache.struts.action.Action

Constructors      **public RetrieveGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

Fields      **private static final ACTION\_EDIT**  
  
**private static final ACTION\_READ\_ONLY**

public      class      **es.indra.smartgov.webapp.action.RetrieveFormAction**      extends  
                 **org.apache.struts.action.Action**

Constructors      **public RetrieveFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

Fields      **private static final ACTION\_EDIT**  
  
**private static final ACTION\_READ\_ONLY**

public      class      **es.indra.smartgov.webapp.action.RemoveRuleAction**      extends  
                 **org.apache.struts.action.Action**

Constructors      **public RemoveRuleAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        class        **es.indra.smartgov.webapp.action.RemoveMethodAction**        extends  
                 org.apache.struts.action.Action

Constructors    **public RemoveMethodAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        final        class        **es.indra.smartgov.webapp.action.NodeRetrievalAction**        extends  
                 org.apache.struts.action.Action

Constructors    **public NodeRetrievalAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public    class **es.indra.smartgov.webapp.action.NewValidationRuleInTseGroupAction**    extends  
                 org.apache.struts.action.Action

Constructors      **public NewValidationRuleInTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.NewValidationRuleInTseAction** extends  
**org.apache.struts.action.Action**

Constructors      **public NewValidationRuleInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.NewValidationRuleInTsAction** extends  
**org.apache.struts.action.Action**

Constructors      **public NewValidationRuleInTsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewValidationRuleInITseGroupAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewValidationRuleInITseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewValidationRuleInITseAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewValidationRuleInITseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewValidationRuleInFormAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewValidationRuleInFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**

```
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)
```

public class es.indra.smartgov.webapp.action.NewUserAction extends  
org.apache.struts.action.Action

Constructors **public NewUserAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)**)**

public class es.indra.smartgov.webapp.action.NewTsFormSetAction extends  
org.apache.struts.action.Action

Constructors **public NewTsFormSetAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)**)**

public class es.indra.smartgov.webapp.action.NewTseGroupAction extends  
org.apache.struts.action.Action

```
Constructors    public NewTseGroupAction()

Methods        public org.apache.struts.action.ActionForward perform(
                  ActionMapping mapping,
                  ActionForm form,
                  HttpServletRequest request,
                  HttpServletResponse response)
```

Constructors	<b>public NewTseAction()</b>
Methods	<b>public org.apache.struts.action.ActionForward perform(                   ActionMapping mapping,                   ActionForm form,                   HttpServletRequest request,                   HttpServletResponse response)</b>

```
public class es.indra.smartgov.webapp.action.NewTsAction extends  
org.apache.struts.action.Action
```

Constructors	<code>public NewTsAction()</code>
Methods	<code>public org.apache.struts.action.ActionForward perform(                   ActionMapping mapping,                   ActionForm form,                   HttpServletRequest request,                   HttpServletResponse response)</code>

```
public class es.indra.smartgov.webapp.action.NewTaxonomyAction extends org.apache.struts.action.Action
```

Constructors      **public NewTaxonomyAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewStoreMethodInITseGroupAction extends org.apache.struts.action.Action
```

Constructors      **public NewStoreMethodInITseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewStoreMethodInTseAction extends org.apache.struts.action.Action
```

Constructors      **public NewStoreMethodInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**

```
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.NewRuleAction extends  
org.apache.struts.action.Action
```

Constructors **public NewRuleAction()**

Methods **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,**

**ActionForm form,**

**HttpServletRequest request,**

**HttpServletResponse response)**

**public static void putRuleLinkerInSession(  
RuleLinker linker,**

**HttpServletRequest request)**

**public static void putObjectToLinkNewRule(  
LinkableToRules linkable,**

**HttpServletRequest request)**

**public static void putObjectToLinkExistingRule(  
LinkableToRules linkable,**

**int index,**

**HttpServletRequest request)**

```
public class es.indra.smartgov.webapp.action.NewRetrieveMethodInITseGroupAction extends  
org.apache.struts.action.Action
```

Constructors **public NewRetrieveMethodInITseGroupAction()**

Methods **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,**

```
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.NewRetrieveMethodInTseAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewRetrieveMethodInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewPreactionMethodInTsAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewPreactionMethodInTsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewPostactionMethodInTsAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewPostactionMethodInTsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.NewOnValueChangeInTseAction** extends  
**org.apache.struts.action.Action**

Constructors      **public NewOnValueChangeInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.NewOnTseValueChangeInTseGroupAction**  
extends **org.apache.struts.action.Action**

Constructors      **public NewOnTseValueChangeInTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewOnLoadMethodInFormAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewOnLoadMethodInFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewOnLeaveMethodInFormAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewOnLeaveMethodInFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewNodeAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewNodeAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**

`HttpServletResponse response)`

public class **es.indra.smartgov.webapp.action.NewMethodAction** extends  
`org.apache.struts.action.Action`

Constructors **public NewMethodAction()**

Methods **public org.apache.struts.action.ActionForward perform(**

`ActionMapping mapping,`  
`ActionForm form,`  
`HttpServletRequest request,`  
`HttpServletResponse response)`

**public static void putMethodLinkerInSession(**

`MethodLinker linker,`  
`HttpServletRequest request)`

public class **es.indra.smartgov.webapp.action.NewKuSectionAction** extends  
`org.apache.struts.action.Action`

Constructors **public NewKuSectionAction()**

Methods **public org.apache.struts.action.ActionForward perform(**

`ActionMapping mapping,`  
`ActionForm form,`  
`HttpServletRequest request,`  
`HttpServletResponse response)`

public class **es.indra.smartgov.webapp.action.NewKuAction** extends  
`org.apache.struts.action.Action`

Constructors      **public NewKuAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        class        **es.indra.smartgov.webapp.action.NewITseGroupAction**        extends  
org.apache.struts.action.Action

Constructors      **public NewITseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        class        **es.indra.smartgov.webapp.action.NewITseAction**        extends  
org.apache.struts.action.Action

Constructors      **public NewITseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewGroupUserAction extends  
org.apache.struts.action.Action
```

Constructors    **public NewGroupUserAction()**

Methods        **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewGroupAction extends  
org.apache.struts.action.Action
```

Constructors    **public NewGroupAction()**

Methods        **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewFormAction extends  
org.apache.struts.action.Action
```

Constructors    **public NewFormAction()**

Methods        **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**

```
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.NewComputationRuleInTseGroupAction  
extends org.apache.struts.action.Action
```

Constructors      **public NewComputationRuleInTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewComputationRuleInTseAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewComputationRuleInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.NewCodeMethodInRuleAction extends  
org.apache.struts.action.Action
```

Constructors      **public NewCodeMethodInRuleAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.NewAvailableMethodInTseAction** extends  
org.apache.struts.action.Action

Constructors      **public NewAvailableMethodInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public interface **es.indra.smartgov.webapp.action.MethodLinker**

Methods      **public void setMethod(**  
                 **Method aMethod)**

**public void removeMethod()**

public class **es.indra.smartgov.webapp.action.LogonAction** extends  
org.apache.struts.action.Action

Implementation of Action that validates a user logon.

## Version

\$Revision: 1.2 \$ \$Date: 2001/04/14 12:53:08 \$

Constructors      **public LogonAction()**

Methods      **public org.apache.struts.action.ActionForward perform(  
                  ActionMapping mapping,  
                  ActionForm form,  
                  HttpServletRequest request,  
                  HttpServletResponse response)**

Process the specified HTTP request, and create the corresponding HTTP response (or forward to another web component that will create it). Return an ActionForward instance describing where and how control should be forwarded, or null if the response has already been completed.

### Parameters

mapping - The ActionMapping used to select this instance  
actionForm - The optional ActionForm bean for this request (if any)  
request - The HTTP request we are processing  
response - The HTTP response we are creating

### Throws

IOException - if an input/output error occurs  
ServletException - if a servlet exception occurs

public         class         **es.indra.smartgov.webapp.action.LinkTseAction**         extends  
[org.apache.struts.action.Action](#)

Constructors      **public LinkTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(  
                  ActionMapping mapping,  
                  ActionForm form,  
                  HttpServletRequest request,  
                  HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkTaxonomyNodeAction extends org.apache.struts.action.Action
```

Constructors      **public LinkTaxonomyNodeAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkNodeAction extends org.apache.struts.action.Action
```

Constructors      **public LinkNodeAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkKuAction extends org.apache.struts.action.Action
```

Constructors      **public LinkKuAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**

```
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.LinkExistingTseToTseGroupAction extends  
org.apache.struts.action.Action
```

Constructors      **public LinkExistingTseToTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingTseToFormAction extends  
org.apache.struts.action.Action
```

Constructors      **public LinkExistingTseToFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingTseGroupToFormAction extends  
org.apache.struts.action.Action
```

Constructors      **public LinkExistingTseGroupToFormAction()**

Methods            **public org.apache.struts.action.ActionForward perform(**  
                     **ActionMapping mapping,**  
                     **ActionForm form,**  
                     **HttpServletRequest request,**  
                     **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToTseGroupAction**  
extends **es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction**

Constructors      **public LinkExistingTaxonomyNodeToTseGroupAction()**

Methods            **public org.apache.struts.action.ActionForward perform(**  
                     **ActionMapping mapping,**  
                     **ActionForm form,**  
                     **HttpServletRequest request,**  
                     **HttpServletResponse response)**

public     class    **es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToTseAction**  
extends **es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction**

Constructors      **public LinkExistingTaxonomyNodeToTseAction()**

Methods            **public org.apache.struts.action.ActionForward perform(**  
                     **ActionMapping mapping,**  
                     **ActionForm form,**  
                     **HttpServletRequest request,**  
                     **HttpServletResponse response)**

public     class    **es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToTsAction**

extends es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction

Constructors      **public LinkExistingTaxonomyNodeToTsAction()**

```
Methods     public org.apache.struts.action.ActionForward perform(  
              ActionMapping mapping,  
              ActionForm form,  
              HttpServletRequest request,  
              HttpServletResponse response)
```

```
public class  
es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToTaxonomyAction extends  
es.indra.smartgov.webapp.action.LinkExistingEditorNodeToObjectAction
```

Constructors      [public LinkExistingTaxonomyNodeToTaxonomyAction\(\)](#)

```
Methods     public org.apache.struts.action.ActionForward perform(  
              ActionMapping mapping,  
              ActionForm form,  
              HttpServletRequest request,  
              HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction  
extends org.apache.struts.action.Action
```

Constructors      **[public LinkExistingTaxonomyNodeToObjectAction\(\)](#)**

```
public static java.lang.String[] getAlreadyLinkedNodeIds(  
    HttpSession session)
```

```
public class es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToNodeAction  
extends es.indra.smartgov.webapp.action.LinkExistingEditorNodeToObjectAction
```

Constructors      **public LinkExistingTaxonomyNodeToNodeAction()**

Methods      **public org.apache.struts.action.ActionForward perform(  
 ActionMapping mapping,  
 ActionForm form,  
 HttpServletRequest request,  
 HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToKuAction  
extends es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction
```

Constructors      **public LinkExistingTaxonomyNodeToKuAction()**

Methods      **public org.apache.struts.action.ActionForward perform(  
 ActionMapping mapping,  
 ActionForm form,  
 HttpServletRequest request,  
 HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToITseGroupAction  
extends es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction
```

Constructors      **public LinkExistingTaxonomyNodeToITseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToITseAction  
extends es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction
```

Constructors      **public LinkExistingTaxonomyNodeToITseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToFormAction  
extends es.indra.smartgov.webapp.action.LinkExistingTaxonomyNodeToObjectAction
```

Constructors      **public LinkExistingTaxonomyNodeToFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingKuToTseGroupAction extends  
es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction
```

Constructors      **public LinkExistingKuToTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingKuToTseAction extends  
es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction
```

Constructors      **public LinkExistingKuToTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingKuToTsAction extends  
es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction
```

Constructors      **public LinkExistingKuToTsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**

```
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction extends  
org.apache.struts.action.Action
```

Constructors      **public LinkExistingKuToObjectAction()**

Methods      **public void putLinkableObjectInSession(  
HttpSession session,  
LinkableToKu linkable)**

```
public static java.lang.String[] getAlreadyLinkedKuids(  
HttpSession session)
```

```
public class es.indra.smartgov.webapp.action.LinkExistingKuToKuAction extends  
es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction
```

Constructors      **public LinkExistingKuToKuAction()**

Methods      **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingKuToITseGroupAction extends  
es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction
```

Constructors      **public LinkExistingKuToTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.LinkExistingKuToTseAction** extends  
**es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction**

Constructors      **public LinkExistingKuToTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.LinkExistingKuToFormAction** extends  
**es.indra.smartgov.webapp.action.LinkExistingKuToObjectAction**

Constructors      **public LinkExistingKuToFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LinkExistingEditorNodeToObjectAction extends  
org.apache.struts.action.Action
```

Constructors      **public LinkExistingEditorNodeToObjectAction()**

Methods      **public void putLinkableObjectInSession(  
HttpSession session,  
LinkableNodes linkable)**

```
                  public static java.lang.String[] getAlreadyLinkedNodeIds(  
HttpSession session)
```

```
public         class        es.indra.smartgov.webapp.action.LastTssAction        extends  
org.apache.struts.action.Action
```

Constructors      **public LastTssAction()**

Methods      **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)**

```
public         class        es.indra.smartgov.webapp.action.LastTsesAction        extends  
org.apache.struts.action.Action
```

Constructors      **public LastTsesAction()**

Methods      **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,  
ActionForm form,**

```
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.LastTseGroupsAction extends  
org.apache.struts.action.Action
```

Constructors **public LastTseGroupsAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
**ActionMapping mapping,**  
**ActionForm form,**  
**HttpServletRequest request,**  
**HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LastKusAction extends  
org.apache.struts.action.Action
```

Constructors **public LastKusAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
**ActionMapping mapping,**  
**ActionForm form,**  
**HttpServletRequest request,**  
**HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.LastITsesAction extends  
org.apache.struts.action.Action
```

Constructors      **public LastITsesAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        class        **es.indra.smartgov.webapp.action.LastITseGroupsAction**        extends  
                 org.apache.struts.action.Action

Constructors      **public LastITseGroupsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        class        **es.indra.smartgov.webapp.action.LastFormsAction**        extends  
                 org.apache.struts.action.Action

Constructors      **public LastFormsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.IndexServiceEditorAction extends org.apache.struts.action.Action
```

Constructors      **public IndexServiceEditorAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.IndexKMEditorAction extends org.apache.struts.action.Action
```

Constructors      **public IndexKMEditorAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditValidationRuleInTseGroupAction extends org.apache.struts.action.Action
```

Constructors      **public EditValidationRuleInTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**

```
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.EditValidationRuleInTseAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditValidationRuleInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditValidationRuleInTsAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditValidationRuleInTsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditValidationRuleInITseGroupAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditValidationRuleInITseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public    class    **es.indra.smartgov.webapp.action.EditValidationRuleInTseAction**    extends  
org.apache.struts.action.Action

Constructors    **public EditValidationRuleInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public    class    **es.indra.smartgov.webapp.action.EditValidationRuleInFormAction**    extends  
org.apache.struts.action.Action

Constructors    **public EditValidationRuleInFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public    class    **es.indra.smartgov.webapp.action>EditUserAction**    extends

`org.apache.struts.action.Action`

Constructors      **`public EditUserAction()`**

Methods      **`public org.apache.struts.action.ActionForward perform(`**  
**`ActionMapping mapping,`**  
**`ActionForm form,`**  
**`HttpServletRequest request,`**  
**`HttpServletResponse response)`**

public      class      **`es.indra.smartgov.webapp.action.EditTsFormSetAction`**      extends  
`org.apache.struts.action.Action`

Constructors      **`public EditTsFormSetAction()`**

Methods      **`public org.apache.struts.action.ActionForward perform(`**  
**`ActionMapping mapping,`**  
**`ActionForm form,`**  
**`HttpServletRequest request,`**  
**`HttpServletResponse response)`**

public      class      **`es.indra.smartgov.webapp.action.EditTseGroupAction`**      extends  
`org.apache.struts.action.Action`

Constructors      **`public EditTseGroupAction()`**

Methods      **`public org.apache.struts.action.ActionForward perform(`**  
**`ActionMapping mapping,`**  
**`ActionForm form,`**  
**`HttpServletRequest request,`**  
**`HttpServletResponse response)`**

public class **es.indra.smartgov.webapp.action.EditTseAction** extends  
org.apache.struts.action.Action

Constructors **public EditTseAction()**

Methods **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditTsAction** extends  
org.apache.struts.action.Action

Constructors **public EditTsAction()**

Methods **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action>EditTaxonomyAction** extends  
org.apache.struts.action.Action

Constructors **public EditTaxonomyAction()**

Methods **public org.apache.struts.action.ActionForward perform(  
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)**

```
ActionMapping mapping,  
ActionForm form,  
HttpServletRequest request,  
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.EditStoreMethodInTseGroupAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditStoreMethodInTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditStoreMethodInTseAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditStoreMethodInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditRuleAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditRuleAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

**public static void putRuleInSession(**  
                 **ValidationMethod aMethod,**  
                 **HttpServletRequest request)**

public class **es.indra.smartgov.webapp.action.EditRetrieveMethodInITseGroupAction** extends  
**org.apache.struts.action.Action**

Constructors      **public EditRetrieveMethodInITseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditRetrieveMethodInITseAction** extends  
**org.apache.struts.action.Action**

Constructors      **public EditRetrieveMethodInITseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**

```
HttpServletResponse response)
```

```
public class es.indra.smartgov.webapp.action.EditPreactionMethodInTsAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditPreactionMethodInTsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditPostactionMethodInTsAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditPostactionMethodInTsAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditOnValueChangeInTseAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditOnValueChangeInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditOnTseValueChangeInTseGroupAction**  
extends **org.apache.struts.action.Action**

Constructors    **public EditOnTseValueChangeInTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditOnLoadMethodInFormAction** extends  
**org.apache.struts.action.Action**

Constructors    **public EditOnLoadMethodInFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditOnLeaveMethodInFormAction** extends

`org.apache.struts.action.Action`

Constructors      `public EditOnLeaveMethodInFormAction()`

Methods      `public org.apache.struts.action.ActionForward perform(  
                  ActionMapping mapping,  
                  ActionForm form,  
                  HttpServletRequest request,  
                  HttpServletResponse response)`

public         class         `es.indra.smartgov.webapp.action.EditNodeAction`         extends  
`org.apache.struts.action.Action`

Constructors      `public EditNodeAction()`

Methods      `public org.apache.struts.action.ActionForward perform(  
                  ActionMapping mapping,  
                  ActionForm form,  
                  HttpServletRequest request,  
                  HttpServletResponse response)`

public         class         `es.indra.smartgov.webapp.action.EditMethodAction`         extends  
`org.apache.struts.action.Action`

Constructors      `public EditMethodAction()`

Methods      `public org.apache.struts.action.ActionForward perform(  
                  ActionMapping mapping,  
                  ActionForm form,  
                  HttpServletRequest request,  
                  HttpServletResponse response)`

```
public static void putMethodInSession(  
    Method aMethod,  
    HttpServletRequest request)
```

public class **es.indra.smartgov.webapp.action.EditLabelsAction** extends  
[org.apache.struts.action.Action](#)

Constructors **public EditLabelsAction()**

Methods **public org.apache.struts.action.ActionForward perform(  
 ActionMapping mapping,  
 ActionForm form,  
 HttpServletRequest request,  
 HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditKuSectionAction** extends  
[org.apache.struts.action.Action](#)

Constructors **public EditKuSectionAction()**

Methods **public org.apache.struts.action.ActionForward perform(  
 ActionMapping mapping,  
 ActionForm form,  
 HttpServletRequest request,  
 HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditKuAction** extends  
[org.apache.struts.action.Action](#)

Constructors      **public EditKuAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
**ActionMapping mapping,**  
**ActionForm form,**  
**HttpServletRequest request,**  
**HttpServletResponse response)**

**public void copy(**  
**InputStream in,**  
**OutputStream out)**

class      **es.indra.smartgov.webapp.action.EditKuAction.KuLinkFilenameFilter**      implements  
**java.io.FilenameFilter**

Constructors      **EditKuAction.KuLinkFilenameFilter(**  
**String kuLink)**

Methods      **public boolean accept(**  
**File dir,**  
**String name)**

Fields      **private kuLink**

public      class      **es.indra.smartgov.webapp.action.EditTseGroupAction**      extends  
**org.apache.struts.action.Action**

Constructors      **public EditTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
**ActionMapping mapping,**  
**ActionForm form,**  
**HttpServletRequest request,**

`HttpServletResponse response)`

public class **es.indra.smartgov.webapp.action.EditTseAction** extends  
`org.apache.struts.action.Action`

Constructors **public EditTseAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
`ActionMapping mapping,`  
`ActionForm form,`  
`HttpServletRequest request,`  
`HttpServletResponse response)`

public class **es.indra.smartgov.webapp.action.EditGroupUserAction** extends  
`org.apache.struts.action.Action`

Constructors **public EditGroupUserAction()**

Methods **public org.apache.struts.action.ActionForward perform(**  
`ActionMapping mapping,`  
`ActionForm form,`  
`HttpServletRequest request,`  
`HttpServletResponse response)`

public class **es.indra.smartgov.webapp.action.EditGroupAction** extends  
`org.apache.struts.action.Action`

Constructors **public EditGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        class        **es.indra.smartgov.webapp.action.EditFormAction**        extends  
                  **org.apache.struts.action.Action**

Constructors    **public EditFormAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

**public void copy(**  
                  **InputStream in,**  
                 **OutputStream out)**

class    **es.indra.smartgov.webapp.action.EditFormAction.FormIdFilenameFilter**    implements  
                  **java.io.FilenameFilter**

Constructors    **EditFormAction.FormIdFilenameFilter(**  
                  **String formId)**

Methods      **public boolean accept(**  
                 **File dir,**  
                 **String name)**

Fields        **private formId**

```
public class es.indra.smartgov.webapp.action.EditComputationRuleInTseGroupAction  
extends org.apache.struts.action.Action
```

Constructors      **public EditComputationRuleInTseGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditComputationRuleInTseAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditComputationRuleInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                **ActionMapping mapping,**  
                **ActionForm form,**  
                **HttpServletRequest request,**  
                **HttpServletResponse response)**

```
public class es.indra.smartgov.webapp.action.EditCodeMethodInRuleAction extends  
org.apache.struts.action.Action
```

Constructors      **public EditCodeMethodInRuleAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.EditAvailableMethodInTseAction** extends  
org.apache.struts.action.Action

Constructors    **public EditAvailableMethodInTseAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.ChangeWorkGroupAction** extends  
org.apache.struts.action.Action

This class changes the default work group used in the SmartGov Portal

Constructors    **public ChangeWorkGroupAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public class **es.indra.smartgov.webapp.action.ChangeLogonAction** extends

## [org.apache.struts.action.Action](#)

Implementation of Action that validates a user logon.

Constructors      **public ChangeLogonAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

public        class        **es.indra.smartgov.webapp.action.ChangeLocaleAction**        extends  
[org.apache.struts.action.Action](#)

This class changes the default locale of the storefront. When the locale is changed to one that the storefront recognises, the graphics and text will change to reflect the new locale.

Constructors      **public ChangeLocaleAction()**

Methods      **public org.apache.struts.action.ActionForward perform(**  
                 **ActionMapping mapping,**  
                 **ActionForm form,**  
                 **HttpServletRequest request,**  
                 **HttpServletResponse response)**

## Package es.indra.smartgov.webapp.actionform

public class [es.indra.smartgov.webapp.actionform.UploadLinkForm](#) extends [org.apache.struts.action.ActionForm](#)

NOTE: These comments are valid for all the classe included in the actionform Package

\$Header: /home/cvs/jakarta-struts/src/example/org/apache/struts/webapp/example/LogonForm.java,v 1.2

2001/04/14 12:53:08 rleland Exp \$

\$Revision: 1.2 \$

\$Date: 2001/04/14 12:53:08 \$

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Constructors [public UploadLinkForm\(\)](#)

Methods            **public org.apache.struts.upload.FormFile getMyFile()**

**public void setMyFile(  
                    FormFile file)**

Fields            **private myFile**

public        class        **es.indra.smartgov.webapp.actionform.UploadFormForm**        extends  
org.apache.struts.action.ActionForm

Constructors    **public UploadFormForm()**

Methods        **public org.apache.struts.upload.FormFile getMyFile()**

**public void setMyFile(  
                    FormFile file)**

Fields        **private myText**

**private myFile**

public        class        **es.indra.smartgov.webapp.actionform.TaxonomyRetrievalForm**        extends  
org.apache.struts.action.ActionForm

Constructors    **public TaxonomyRetrievalForm()**

Methods        **public java.lang.String getTaxonomyID()**

gets the taxonomyID

**Returns**

the taxonomyID

**public void setTaxonomyID(**

**String taxonomyID)**

sets the taxonomyID

**Parameters**

taxonomyID -- the taxonomyID

```
public org.apache.struts.action.ActionErrors validate(  
    ActionMapping mapping,  
    HttpServletRequest request)
```

Validate the properties that have been set from this HTTP request, and return an ActionErrors object that encapsulates any validation errors that have been found. If no errors are found, return null or an ActionErrors object with no recorded error messages.

**Parameters**

mapping - The mapping used to select this instance  
request - The servlet request we are processing

Fields

**private taxonomyID**

```
public class es.indra.smartgov.webapp.actionform.SearchNodesForm extends  
es.indra.smartgov.webapp.actionform.SearchElementsForm
```

Constructors

**public SearchNodesForm()**

Fields

**public static NODE\_LIST**

**public static LAST\_NODES\_LIST**

**public static TAXONOMY\_VIEW**

**public static SEARCH\_BY\_NODE\_ID**

```
public class es.indra.smartgov.webapp.actionform.SearchKusForm extends  
es.indra.smartgov.webapp.actionform.SearchElementsForm
```

Constructors      **public SearchKusForm()**

Fields            **public static KU\_LIST**

**public static LAST\_KUS\_LIST**

**public static SEARCH\_BY\_KU\_ID**

public class **es.indra.smartgov.webapp.actionform.SearchElementsForm** extends **org.apache.struts.action.ActionForm**

Constructors      **public SearchElementsForm()**

Methods            **public java.lang.String getTaxonomyID()**

**public void setTaxonomyID(**  
                    **String taxonomyID)**

**public java.lang.String getActionPerformed()**

**public void setActionPerformed(**  
                    **String actionPerformed)**

**public java.lang.String getTaxonomyXML()**

**public void setTaxonomyXML(**  
                    **String taxonomyXML)**

**public java.lang.String getFieldToSearch()**

**public void setFieldToSearch(**  
                    **String fieldToSearch)**

**public java.lang.String getCurrentView()**

**public void setCurrentView(**  
                    **String currentView)**

```
public java.lang.String getActionToRedirectIds()

public void setActionToRedirectIds(
    String actionToRedirectIds)

public java.lang.String getPageTitleTag()

public void setPageTitleTag(
    String pageTitleTag)

public java.lang.String[] getObjectIds()

public void setObjectIds(
    String[] objectIds)

public java.lang.String getFormFieldForIds()

public void setFormFieldForIds(
    String formFieldForIds)

public java.lang.String getTaxonomyNodeCode()

public void setTaxonomyNodeCode(
    String taxonomyNodeCode)

public boolean getLinkedFromAuxiliarPage()

public void setLinkedFromAuxiliarPage(
    boolean linkedFromAuxiliarPage)

public boolean getPageNode()

public void setPageNode(
    boolean pageNode)

public void reset(
    ActionMapping mapping,
    HttpServletRequest request)
```

Fields      **private taxonomyID**

```
private taxonomyXML

private fieldToSearch

private pageTitleTag

private taxonomyNodeCode

private actionPerformed

private currentView

private pageNode

private linkedFromAuxiliarPage

private actionToRedirectIds

private objectIds

private formFieldForIds

public static TAXONOMY_VIEW

public static TAXONOMY_NODE_LINKED_ELEMENTS_VIEW

public static LIST_PREFIX

public static SEARCH_BY_FIELD_PREFIX

public static ACTION_TO_APPLY_SELECTION
```

```
public class es.indra.smartgov.webapp.actionform.RetrieveUserForm extends
org.apache.struts.action.ActionForm
```

Constructors      **public RetrieveUserForm()**

Methods            **public java.lang.String getUserId()**

**public void setId(**  
                      **String id)**

**public java.lang.String getUserName()**

**public void setUserName(**  
                      **String userName)**

Fields            **userId**

**userName**

public        class        **es.indra.smartgov.webapp.actionform.RetrieveTsForm**        extends  
org.apache.struts.action.ActionForm

Constructors    **public RetrieveTsForm()**

Methods        **public java.lang.String getId()**

**public void setId(**  
                      **String id)**

Fields        **id**

public        class        **es.indra.smartgov.webapp.actionform.RetrieveTseGroupForm**        extends  
org.apache.struts.action.ActionForm

Constructors    **public RetrieveTseGroupForm()**

Methods        **public java.lang.String getId()**

```
public void setTseGroupId(  
    String tseGroupId)
```

Fields            **tseGroupId**

public        class        es.indra.smartgov.webapp.actionform.RetrieveTseForm        extends  
org.apache.struts.action.ActionForm

Constructors    **public RetrieveTseForm()**

Methods        **public java.lang.String getGenericTseld()**

```
public void setGenericTseld(  
    String genericTseld)
```

Fields        **genericTseld**

public        class        es.indra.smartgov.webapp.actionform.RetrieveTaxonomyForm        extends  
org.apache.struts.action.ActionForm

Constructors    **public RetrieveTaxonomyForm()**

Methods        **public java.lang.String getTaxonomyId()**

```
public void setTaxonomyId(  
    String taxonomyId)
```

Fields        **taxonomyId**

```
public class es.indra.smartgov.webapp.actionform.RetrieveNodeForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public RetrieveNodeForm()**

Methods      **public java.lang.String getTaxonomyNodeId()**

```
                public void setTaxonomyNodeId(  
                      String taxonomyNodeId)
```

Fields      **taxonomyNodeId**

```
public class es.indra.smartgov.webapp.actionform.RetrieveKuForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public RetrieveKuForm()**

Methods      **public java.lang.String getKuld()**

```
                public void setKuld(  
                      String kuld)
```

```
                public boolean getViewReduced()
```

```
                public void setViewReduced(  
                      boolean viewReduced)
```

```
                public void reset(  
                      ActionMapping mapping,  
                      HttpServletRequest request)
```

Fields      **kuld**

**viewReduced**

```
public class es.indra.smartgov.webapp.actionform.RetrieveITseGroupForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public RetrieveITseGroupForm()**

Methods      **public java.lang.String getInstantiatedTseGroupId()**

```
                public void setInstantiatedTseGroupId(  
                   String instantiatedTseGroupId))
```

Fields      **instantiatedTseGroupId**

```
public class es.indra.smartgov.webapp.actionform.RetrieveITseForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public RetrieveITseForm()**

Methods      **public java.lang.String getInstantiatedTseld()**

```
                public void setInstantiatedTseld(  
                   String instantiatedTseld))
```

Fields      **instantiatedTseld**

```
public class es.indra.smartgov.webapp.actionform.RetrieveGroupForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public RetrieveGroupForm()**

Methods      **public java.lang.String getGroupId()**

**public void setGroupId(**  
                        **String groupId)**

Fields      **groupId**

public      class      **es.indra.smartgov.webapp.actionform.RetrieveFormForm**      extends  
org.apache.struts.action.ActionForm

Constructors      **public RetrieveFormForm()**

Methods      **public java.lang.String getFormId()**

**public void setFormId(**  
                        **String formId)**

Fields      **formId**

public      class      **es.indra.smartgov.webapp.actionform.NodeRetrievalForm**      extends  
org.apache.struts.action.ActionForm

Constructors      **public NodeRetrievalForm()**

Methods      **public java.lang.String getNodeID()**

gets the nodeID

**Returns**

the nodeID

**public void setNodeID(**  
                        **String nodeID)**

sets the nodeID

**Parameters**

nodeID -- the nodeID

```
public org.apache.struts.action.ActionErrors validate(  
    ActionMapping mapping,  
    HttpServletRequest request)
```

Validate the properties that have been set from this HTTP request, and return an ActionErrors object that encapsulates any validation errors that have been found. If no errors are found, return null or an ActionErrors object with no recorded error messages.

**Parameters**

mapping - The mapping used to select this instance  
request - The servlet request we are processing

Fields

**private nodeID**  
the WorkGroup from the form

public class es.indra.smartgov.webapp.actionform.LogonForm extends org.apache.struts.action.ActionForm

Constructors

**public LogonForm()**

Methods

**public java.lang.String getPassword()**

Return the password.

```
public void setPassword(  
    String password)
```

Set the password.

**Parameters**

password - The new password

**public java.lang.String getUsername()**

Return the username.

```
public void setUsername(  
    String username)
```

Set the username.

**Parameters**

username - The new username

```
public void reset(
    ActionMapping mapping,
    HttpServletRequest request)
```

Reset all properties to their default values.

**Parameters**

mapping - The mapping used to select this instance  
request - The servlet request we are processing

```
public org.apache.struts.action.ActionErrors validate(
    ActionMapping mapping,
    HttpServletRequest request)
```

Validate the properties that have been set from this HTTP request, and return an ActionErrors object that encapsulates any validation errors that have been found. If no errors are found, return null or an ActionErrors object with no recorded error messages.

**Parameters**

mapping - The mapping used to select this instance  
request - The servlet request we are processing

Fields      **private password**

The password.

**private username**

The username.

```
public        class        es.indra.smartgov.webapp.actionform.LinkTseForm        extends
org.apache.struts.action.ActionForm
```

Constructors      **public LinkTseForm()**

Methods      **public java.lang.String[] getTselds()**

```
public void setTselds(
    String[] tselds)
```

```
public java.lang.String getTseType()
```

```
public void setTseType(  
    String tseType)
```

Fields      **private tselds**

```
private tseType
```

```
public class es.indra.smartgov.webapp.actionform.LinkTaxonomyNodeForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public LinkTaxonomyNodeForm()**

Methods      **public java.lang.String getTaxonomyNodeldList()**

```
public void setTaxonomyNodeldList(  
    String taxonomyNodeldList)
```

```
public java.lang.String[] getTaxonomyNodelds()
```

```
public java.lang.String getNotIncludedInThePageNodeldList()
```

```
public void setNotIncludedInThePageNodeldList(  
    String notIncludedInThePageNodeldList)
```

```
public java.lang.String[] getNotIncludedInPageTaxonomyNodelds()
```

Fields      **private taxonomyNodeldList**

```
private notIncludedInThePageNodeldList
```

```
public static SEPARATOR_CHAR
```

```
public class es.indra.smartgov.webapp.actionform.LinkNodeForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public LinkNodeForm()**

Methods      **public java.lang.String[] getTaxonomyNodeldList()**

**public void setTaxonomyNodeldList(**  
**String[] taxonomyNodeldList)**

**public boolean getRemoveAll()**

**public void setRemoveAll(**  
**boolean removeAll)**

**public void reset(**  
**ActionMapping mapping,**  
**HttpServletRequest request)**

**public java.lang.String[] getTaxonomyNodelds()**

Fields      **private taxonomyNodeldList**

**private removeAll**

**public static SEPARATOR\_CHAR**

public        class        **es.indra.smartgov.webapp.actionform.LinkKuForm**        extends  
**org.apache.struts.action.ActionForm**

Constructors      **public LinkKuForm()**

Methods      **public java.lang.String[] getKulds()**

**public void setKulds(**  
**String[] kulds)**

Fields      **private kulds**

public class es.indra.smartgov.webapp.actionform.LastTssForm extends org.apache.struts.action.ActionForm

Constructors **public LastTssForm()**

Methods **public int getInitRow()**

**public void setInitRow(**  
**int initRow)**

**public int getLastRow()**

**public void setLastRow(**  
**int lastRow)**

**public java.lang.String getActionPag()**

**public void setActionPag(**  
**String actionPag)**

**public void reset(**  
**ActionMapping mapping,**  
**HttpServletRequest request)**

Fields **private initRow**

**private lastRow**

**private actionPag**

public class es.indra.smartgov.webapp.actionform.LastTsesForm extends org.apache.struts.action.ActionForm

Constructors      **public LastTsesForm()**

Methods      **public int getInitRow()**

**public void setInitRow(**  
                  **int initRow)**

**public int getLastRow()**

**public void setLastRow(**  
                  **int lastRow)**

**public java.lang.String getActionPag()**

**public void setActionPag(**  
                  **String actionPag)**

**public void reset(**  
                  **ActionMapping mapping,**  
                  **HttpServletRequest request)**

Fields      **private initRow**

**private lastRow**

**private actionPag**

public      class      **es.indra.smartgov.webapp.actionform.LastTseGroupsForm**      extends  
org.apache.struts.action.ActionForm

Constructors      **public LastTseGroupsForm()**

Methods      **public int getInitRow()**

**public void setInitRow(**  
                  **int initRow)**

```
public int getLastRow()

public void setLastRow(
    int lastRow)

public java.lang.String getActionPag()

public void setActionPag(
    String actionPag)

public void reset(
    ActionMapping mapping,
    HttpServletRequest request)
```

Fields

```
private initRow

private lastRow

private actionPag
```

public class es.indra.smartgov.webapp.actionform.LastKusForm extends org.apache.struts.action.ActionForm

Constructors

```
public LastKusForm()
```

Methods

```
public int getInitRow()

public void setInitRow(
    int initRow)

public int getLastRow()

public void setLastRow(
    int lastRow)

public java.lang.String getActionPag()
```

```
public void setActionPag(  
    String actionPag)  
  
public void reset(  
    ActionMapping mapping,  
    HttpServletRequest request)
```

Fields            **private initRow**

```
private lastRow  
  
private actionPag
```

public        class        **es.indra.smartgov.webapp.actionform.LastITsesForm**        extends  
org.apache.struts.action.ActionForm

Constructors    **public LastITsesForm()**

Methods        **public int getInitRow()**

```
public void setInitRow(  
    int initRow)
```

```
public int getLastRow()
```

```
public void setLastRow(  
    int lastRow)
```

```
public java.lang.String getActionPag()
```

```
public void setActionPag(  
    String actionPag)
```

```
public void reset(  
    ActionMapping mapping,  
    HttpServletRequest request)
```

Fields            **private initRow**

**private lastRow**

**private actionPag**

public        class        **es.indra.smartgov.webapp.actionform.LastITseGroupsForm**        extends  
org.apache.struts.action.ActionForm

Constructors      **public LastITseGroupsForm()**

Methods         **public int getInitRow()**

**public void setInitRow(**  
                    **int initRow)**

**public int getLastRow()**

**public void setLastRow(**  
                    **int lastRow)**

**public java.lang.String getActionPag()**

**public void setActionPag(**  
                    **String actionPag)**

**public void reset(**  
                    **ActionMapping mapping,**  
                    **HttpServletRequest request)**

Fields         **private initRow**

**private lastRow**

**private actionPag**

```
public class es.indra.smartgov.webapp.actionform.LastFormsForm extends org.apache.struts.action.ActionForm
```

Constructors      **public LastFormsForm()**

Methods      **public int getInitRow()**

```
                public void setInitRow(  
                  int initRow)
```

```
                public int getLastRow()
```

```
                public void setLastRow(  
                  int lastRow)
```

```
                public java.lang.String getActionPag()
```

```
                public void setActionPag(  
                  String actionPag)
```

```
                public void reset(  
                  ActionMapping mapping,  
                  HttpServletRequest request)
```

Fields      **private initRow**

```
                private lastRow
```

```
                private actionPag
```

```
public class es.indra.smartgov.webapp.actionform.IndexServiceEditorForm extends org.apache.struts.action.ActionForm
```

Constructors      **public IndexServiceEditorForm()**

Methods      **public java.lang.String getElement()**

**public void setElement(**  
                  **String element)**

Fields      **private element**  
the element to be shown in the service page

public class **es.indra.smartgov.webapp.actionform.IndexKMEditorForm** extends  
**org.apache.struts.action.ActionForm**

Constructors      **public IndexKMEditorForm()**

Methods      **public java.lang.String getElement()**

**public void setElement(**  
                  **String element)**

Fields      **private element**  
the element to be shown in the service page

public class **es.indra.smartgov.webapp.actionform.EditUserForm** extends  
**org.apache.struts.action.ActionForm**

Constructors      **public EditUserForm()**

Methods      **public java.lang.String getActionPerformed()**

**public void setActionPerformed(**  
                  **String actionPerformed)**

```
public boolean hasBeenAlreadySaved()

public void hasBeenAlreadySaved(
    boolean alreadySaved)

public java.lang.String getUserId()

public void setUserId(
    String userId)

public java.lang.String getGroupId()

public void setGroupId(
    String groupId)

public java.lang.String getPassword()

public void setPassword(
    String password)

public java.lang.String getUserRole()

public void setUserRole(
    String userRole)

public java.lang.String getUserName()

public void setUserName(
    String userName)

public java.lang.String getUserSurname()

public void setUserSurname(
    String userSurname)

public java.lang.String getEmail()

public void setEmail(
    String email)
```

Fields      **private userId**

```
private groupId  
  
private password  
  
private userRole  
  
private userSurname  
  
private userName  
  
private email  
  
private alreadySaved  
  
private actionPerformed
```

```
public class es.indra.smartgov.webapp.actionform.EditTsFormSetForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public EditTsFormSetForm()**

Methods      **public java.lang.String getActionPerformed()**

```
public void setActionPerformed(  
    String actionPerformed)
```

```
public java.lang.String getItemActionPerformed()
```

```
public void setItemActionPerformed(  
    String itemActionPerformed)
```

```
public java.lang.String[] getFormIds()
```

```
public void setFormIds(  
    String[] formIds)
```

```
public void removeFormId(  
    int index)  
  
public java.lang.String getFormSet()  
  
public void setFormSet(  
    String formSet)  
  
public int getFormSetToEdit()  
  
public void setFormSetToEdit(  
    int formSetToEdit)  
  
public java.lang.String getFormSetPerformed()  
  
public void setFormSetPerformed(  
    String formSetPerformed)
```

Fields            **private formSet**

**private formIds**

**private formSetToEdit**

**private actionPerformed**

**private itemActionPerformed**

**private formSetPerformed**

public         class         **es.indra.smartgov.webapp.actionform.EditTsForm**         extends  
                        org.apache.struts.action.ActionForm

Constructors    **public EditTsForm()**

Methods         **public java.lang.String getActionPerformed()**

```
public void setActionPerformed(
    String actionPerformed)

public boolean getAllowDelete()

public void setAllowDelete(
    boolean allowDelete)

public boolean getAllowEdit()

public void setAllowEdit(
    boolean allowEdit)

public boolean getAllowSave()

public void setAllowSave(
    boolean allowSave)

public boolean hasBeenAlreadySaved()

public void hasBeenAlreadySaved(
    boolean alreadySaved)

public java.lang.String getAuthenticationRequierements()

public void setAuthenticationRequierements(
    String authenticationRequierements)

public int getClickedSection()

public void setClickedSection(
    int clickedSection)

public java.lang.String getDeadline()

public void setDeadline(
    String deadline)

public boolean getErrorCorrectionTime()

public void setErrorCorrectionTime()
```

```
        boolean errorCorrectionTime)

    public java.lang.String getFormId()

    public void setFormId(
        String formId)

    public boolean getFullSubmissionTime()

    public void setFullSubmissionTime(
        boolean fullSubmissionTime)

    public java.lang.String getItemActionPerformed()

    public void setItemActionPerformed(
        String itemActionPerformed)

    public boolean getNumberOfDeletions()

    public void setNumberOfDeletions(
        boolean numberOfDeletions)

    public boolean getNumberOfEdits()

    public void setNumberOfEdits(
        boolean numberOfEdits)

    public boolean getNumberOfRejectedSubmissions()

    public void setNumberOfRejectedSubmissions(
        boolean numberOfRejectedSubmissions)

    public boolean getNumberOfSavedNonSubmittedSessions()

    public void setNumberOfSavedNonSubmittedSessions(
        boolean numberOfSavedNonSubmittedSessions)

    public boolean getNumberOfSubmissions()

    public void setNumberOfSubmissions(
        boolean numberOfSubmissions)
```

```
public boolean getNumberOfSubmissionsWithWarnings()

public void setNumberOfSubmissionsWithWarnings(
    boolean numberOfSubmissionsWithWarnings)

public java.lang.String getServiceName()

public void setServiceName(
    String serviceName)

public java.lang.String getTargetPlatform()

public void setTargetPlatform(
    String targetPlatform)

public java.lang.String getTslid()

public void setTslid(
    String tslid)

public java.lang.String getContent()

public void setContent(
    String content)

public java.lang.String getContentLocale()

public void setContentLocale(
    String contentLocale)

public boolean getHandleSubmissionTime()

public void setHandleSubmissionTime(
    boolean handleSubmissionTime)
```

Fields            **private tslid**

```
private serviceName

private content
```

```
private contentLocale  
  
private formId  
  
private targetPlatform  
  
private authenticationRequirements  
  
private allowSave  
  
private allowDelete  
  
private allowEdit  
  
private deadline  
  
private numberOfWorkflows  
  
private numberOfWorkflowSubmissions  
  
private numberOfWorkflowSubmissionsWithWarnings  
  
private numberOfWorkflowEdits  
  
private numberOfWorkflowDeletions  
  
private numberOfWorkflowRejectedSubmissions  
  
private fullSubmissionTime  
  
private errorCorrectionTime  
  
private handleSubmissionTime  
  
private alreadySaved  
  
private clickedSection  
  
private actionPerformed
```

```
private itemActionPerformed

public      class      es.indra.smartgov.webapp.actionform.EditTseGroupForm      extends
org.apache.struts.action.ActionForm

Constructors   public EditTseGroupForm()

Methods        public java.lang.String getActionPerformed()

                  public void setActionPerformed(
                      String actionPerformed)

                  public boolean hasBeenAlreadySaved()

                  public void hasBeenAlreadySaved(
                      boolean alreadySaved)

                  public int getClickedSection()

                  public void setClickedSection(
                      int clickedSection)

                  public java.lang.String getItemActionPerformed()

                  public void setItemActionPerformed(
                      String itemActionPerformed)

                  public java.lang.String getContent()

                  public void setContent(
                      String content)

                  public java.lang.String getContentLocale()

                  public void setContentLocale(
                      String contentLocale)
```

```
public java.lang.String getGroupControls()

public void setGroupControls(
    String groupControls)

public int getInitialRows()

public void setInitialRows(
    int initialRows)

public int getMaxOccurrences()

public void setMaxOccurrences(
    int maxOccurrences)

public int getMinOccurrences()

public void setMinOccurrences(
    int minOccurrences)

public int getRowStep()

public void setRowStep(
    int rowStep)

public java.lang.String getTseGroupId()

public void setTseGroupId(
    String tseGroupId)

public java.lang.String getTseName()

public void setTseName(
    String tseName)

public java.lang.String getItemEdited()

public void setItemEdited(
    String itemEdited)
```

Fields           **private tseGroupId**

```
private tseName  
  
private contentLocale  
  
private content  
  
private minOccurrences  
  
private maxOccurrences  
  
private initialRows  
  
private groupControls  
  
private rowStep  
  
private alreadySaved  
  
private clickedSection  
  
private actionPerformed  
  
private itemActionPerformed  
  
private itemEdited
```

```
public class es.indra.smartgov.webapp.actionform.EditTseForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public EditTseForm()**

Methods      **public java.lang.String getGenericTseld()**  
  
**public void setGenericTseld(**  
                **String genericTseld)**

```
public java.lang.String getActionPerformed()

public void setActionPerformed(
    String actionPerformed)

public boolean hasBeenAlreadySaved()

public void hasBeenAlreadySaved(
    boolean alreadySaved)

public int getClickedSection()

public void setClickedSection(
    int clickedSection)

public java.lang.String getTseName()

public void setTseName(
    String tseName)

public java.lang.String getContentLocale()

public void setContentLocale(
    String contentLocale)

public java.lang.String getContent()

public void setContent(
    String content)

public java.lang.String getItemActionPerformed()

public void setItemActionPerformed(
    String itemActionPerformed)

public java.lang.String getTseBuiltInDataType()

public void setTseBuiltInDataType(
    String tseBuiltInDataType)

public java.lang.String getDefaultValue()
```

```
public void setDefaultValue(  
    String defaultValue)  
  
public int getMaxLength()  
  
public void setMaxLength(  
    int maxLength)  
  
public java.lang.String getValueListField()  
  
public void setValueListField(  
    String valueListField)  
  
public java.lang.String getItemEdited()  
  
public void setItemEdited(  
    String itemEdited)
```

Fields	<b>private genericTseld</b>  <b>private tseName</b>  <b>private contentLocale</b>  <b>private content</b>  <b>private maxLength</b>  <b>private defaultValue</b>  <b>private tseBuiltInDataType</b>  <b>private valueListField</b>  <b>private alreadySaved</b>  <b>private clickedSection</b>  <b>private actionPerformed</b>
--------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

```
private itemActionPerformed

private itemEdited

public      class      es.indra.smartgov.webapp.actionform.EditTaxonomyForm      extends
org.apache.struts.action.ActionForm

Constructors    public EditTaxonomyForm()

Methods        public java.lang.String getActionPerformed()

                  public void setActionPerformed(
                      String actionPerformed)

                  public boolean hasBeenAlreadySaved()

                  public void hasBeenAlreadySaved(
                      boolean alreadySaved)

                  public java.lang.String getTaxonomyAbstract()

                  public void setTaxonomyAbstract(
                      String taxonomyAbstract)

                  public java.lang.String getTaxonomyId()

                  public void setTaxonomyId(
                      String taxonomyId)

                  public java.lang.String getTaxonomyName()

                  public void setTaxonomyName(
                      String taxonomyName)

                  public java.lang.String getTaxonomyAbstractLocale()

                  public void setTaxonomyAbstractLocale()
```

```
        String taxonomyAbstractLocale)

    public java.lang.String getTaxonomyAbstractLocaleCurrentlyEdited()

    public void setTaxonomyAbstractLocaleCurrentlyEdited(
        String taxonomyAbstractLocaleCurrentlyEdited)

    public java.lang.String getItemActionPerformed()

    public void setItemActionPerformed(
        String itemActionPerformed)

Fields          private taxonomyId

                private taxonomyName

                private taxonomyAbstract

                private taxonomyAbstractLocale

                private taxonomyAbstractLocaleCurrentlyEdited

                private alreadySaved

                private actionPerformed

                private itemActionPerformed
```

```
public      class      es.indra.smartgov.webapp.actionform.EditRuleForm      extends
org.apache.struts.action.ActionForm
```

Constructors    **public EditRuleForm()**

Methods **public int getRuleToEdit()**
**public void setRuleToEdit(
 int ruleToEdit)**

```
public java.lang.String getActionPerformed()

public void setActionPerformed(
    String actionPerformed)

public java.lang.String getItemActionPerformed()

public void setItemActionPerformed(
    String itemActionPerformed)

public boolean getHasBeenAlreadySaved()

public void setHasBeenAlreadySaved(
    boolean hasBeenAlreadySaved)

public java.lang.String getRuleId()

public void setRuleId(
    String ruleId)

public java.lang.String getValidationMessageLocale()

public void setValidationMessageLocale(
    String validationMessageLocale)

public java.lang.String getValidationMessage()

public void setValidationMessage(
    String validationMessage)

public java.lang.String getValidateAt()

public void setValidateAt(
    String validateAt)

public java.lang.String getSeverity()

public void setSeverity(
    String severity)
```

```
public boolean getEnableExecutionTimeStat()

public void setEnableExecutionTimeStat(
    boolean enableExecutionTimeStat)

public boolean getEnableNumberOfFailuresStat()

public void setEnableNumberOfFailuresStat(
    boolean enableNumberOfFailuresStat)

Fields          private ruleId

                private validationMessage

                private validationMessageLocale

                private validateAt

                private severity

                private enableNumberOfFailuresStat

                private enableExecutionTimeStat

                private ruleToEdit

                private actionPerformed

                private itemActionPerformed

                private hasBeenAlreadySaved

public      class      es.indra.smartgov.webapp.actionform.EditNodeForm      extends
org.apache.struts.action.ActionForm

Constructors    public EditNodeForm()
```

Methods

```
public java.lang.String actionPerformed()

public void setActionPerformed(
    String actionPerformed)

public boolean hasBeenAlreadySaved()

public void hasBeenAlreadySaved(
    boolean alreadySaved)

public java.lang.String getNodeAbstract()

public void setNodeAbstract(
    String nodeAbstract)

public java.lang.String getNodeName()

public void setNodeName(
    String nodeName)

public java.lang.String getNodeSynonym()

public void setNodeSynonym(
    String nodeSynonym)

public java.lang.String getNodeAbstractLocale()

public void setNodeAbstractLocale(
    String nodeAbstractLocale)

public java.lang.String getNodeAbstractLocaleCurrentlyEdited()

public void setNodeAbstractLocaleCurrentlyEdited(
    String nodeAbstractLocaleCurrentlyEdited)

public java.lang.String getItemActionPerformed()

public void setItemActionPerformed(
    String itemActionPerformed)

public java.lang.String getTaxonomyNodeId()
```

```
public void setTaxonomyNodeId(
    String taxonomyNodeId)

Fields          private taxonomyNodeId

                private nodeName

                private nodeAbstract

                private nodeSynonym

                private nodeAbstractLocale

                private nodeAbstractLocaleCurrentlyEdited

                private alreadySaved

                private actionPerformed

                private itemActionPerformed
```

public class es.indra.smartgov.webapp.actionform.EditMethodForm extends org.apache.struts.action.ActionForm

Constructors public EditMethodForm()

Methods public java.lang.String getDescriptionLocaleCurrentlyEdited()

public void setDescriptionLocaleCurrentlyEdited(
 String descriptionLocaleCurrentlyEdited)

public java.lang.String getMethodDescription()

public void setMethodDescription(
 String methodDescription)

```
public java.lang.String getMethodDescriptionLocale()

public void setMethodDescriptionLocale(
    String methodDescriptionLocale)

public java.lang.String getActionPerformed()

public void setActionPerformed(
    String actionPerformed)

public java.lang.String getItemActionPerformed()

public void setItemActionPerformed(
    String itemActionPerformed)

public boolean getUsesSmartGovLang()

public void setUsesSmartGovLang(
    boolean usesSmartGovLang)

public java.lang.String getNativeLanguage()

public void setNativeLanguage(
    String nativeLanguage)

public java.lang.String getUsefulFor()

public void setUsefulFor(
    String usefulFor)

public java.lang.String getMethodCode()

public void setMethodCode(
    String methodCode)

public int getMethodToEdit()

public void setMethodToEdit(
    int methodToEdit)
```

Fields      **private descriptionLocaleCurrentlyEdited**

```
private methodDescriptionLocale  
  
private methodDescription  
  
private actionPerformed  
  
private itemActionPerformed  
  
private usesSmartGovLang  
  
private nativeLanguage  
  
private usefulFor  
  
private methodCode  
  
private methodToEdit
```

public class es.indra.smartgov.webapp.actionform.EditLabelsForm extends org.apache.struts.action.ActionForm

Constructors      **public EditLabelsForm()**

Methods      **public java.lang.String getActionPerformed()**

```
public void setActionPerformed(  
    String actionPerformed)
```

```
public java.lang.String getItemActionPerformed()
```

```
public void setItemActionPerformed(  
    String itemActionPerformed)
```

```
public java.lang.String getContent()
```

```
public void setContent()
```

```
        String content)

    public java.lang.String getContentLocale()

    public void setContentLocale(
        String contentLocale)

    public java.lang.String getValueList()

    public void setValueList(
        String valueList)

    public int getLabelToEdit()

    public void setLabelToEdit(
        int labelToEdit)

Fields      private valueList

            private content

            private contentLocale

            private labelToEdit

            private actionPerformed

            private itemActionPerformed
```

public class es.indra.smartgov.webapp.actionform.EditKuSectionForm extends org.apache.struts.action.ActionForm

Constructors public EditKuSectionForm()

Methods public java.lang.String getKuSectionContent()

 public void setKuSectionContent(

```
        String kuSectionContent)

    public java.lang.String getKuSectionTitle()

    public void setKuSectionTitle(
        String kuSectionTitle)

    public java.lang.String getActionPerformed()

    public void setActionPerformed(
        String actionPerformed)

    public java.lang.String getSectionLocale()

    public void setSectionLocale(
        String sectionLocale)

    public int getSectionToEdit()

    public void setSectionToEdit(
        int sectionToEdit)

    public java.lang.String getItemActionPerformed()

    public void setItemActionPerformed(
        String itemActionPerformed)

    public java.lang.String getVisibilityComments()

    public void setVisibilityComments(
        String visibilityComments)

    public boolean getAllRoles()

    public void setAllRoles(
        boolean allRoles)

    public java.lang.String[] getRoleList()

    public void setRoleList(
        String[] roleList)
```

```
public java.lang.String getLinkName()

public void setLinkName(
    String linkName)

public java.lang.String getLinkUrl()

public void setLinkUrl(
    String linkUrl)

public int getLinkThatIsBeingEdited()

public void setLinkThatIsBeingEdited(
    int linkThatIsBeingEdited)

public java.lang.String getLinkNameLocale()

public void setLinkNameLocale(
    String linkNameLocale)

public java.lang.String getLinkUrlLocale()

public void setLinkUrlLocale(
    String linkUrlLocale)

public java.lang.String getLinkNameLocaleCurrentlyEdited()

public void setLinkNameLocaleCurrentlyEdited(
    String linkNameLocaleCurrentlyEdited)

public java.lang.String getLinkUrlLocaleCurrentlyEdited()

public void setLinkUrlLocaleCurrentlyEdited(
    String linkUrlLocaleCurrentlyEdited)

public java.lang.String getSectionLocaleCurrentlyEdited()

public void setSectionLocaleCurrentlyEdited(
    String sectionLocaleCurrentlyEdited)
```

```
public boolean getCheckUpload()

public void setCheckUpload(
    boolean checkUpload)

Fields          private kuSectionTitle

                private kuSectionContent

                private actionPerformed

                private itemActionPerformed

                private sectionLocale

                private sectionLocaleCurrentlyEdited

                private sectionToEdit

                private visibilityComments

                private allRoles

                private roleList

                private linkName

                private linkNameLocale

                private linkNameLocaleCurrentlyEdited

                private linkUrl

                private linkUrlLocale

                private linkUrlLocaleCurrentlyEdited

                private linkThatIsBeingEdited

                private checkUpload
```

public class es.indra.smartgov.webapp.actionform.EditKuForm extends org.apache.struts.action.ActionForm

Constructors      **public EditKuForm()**

Methods      **public java.lang.String getKuld()**

**public void setKuld(**  
                      **String kuld)**

**public java.lang.String getKuName()**

**public void setKuName(**  
                      **String kuName)**

**public java.lang.String getKuType()**

**public void setKuType(**  
                      **String kuType)**

**public boolean getServiceExpiry()**

**public void setServiceExpiry(**  
                      **boolean serviceExpiry)**

**public java.lang.String getExpiryDate()**

**public void setExpiryDate(**  
                      **String expiryDate)**

**public int getClickedSection()**

**public void setClickedSection(**  
                      **int clickedSection)**

**public boolean hasBeenAlreadySaved()**

**public void hasBeenAlreadySaved(**

```
        boolean alreadySaved)

    public java.lang.String getKuAbstract()

    public void setKuAbstract(
        String kuAbstract)

    public java.lang.String getKuAbstractLocale()

    public void setKuAbstractLocale(
        String kuAbstractLocale)

    public java.lang.String getActionPerformed()

    public void setActionPerformed(
        String actionPerformed)

    public java.lang.String getItemActionPerformed()

    public void setItemActionPerformed(
        String itemActionPerformed)

    public java.lang.String getKuAbstractLocaleCurrentlyEdited()

    public void setKuAbstractLocaleCurrentlyEdited(
        String kuAbstractLocaleCurrentlyEdited)

    public java.lang.String getMetricComplexity()

    public void setMetricComplexity(
        String metricComplexity)

    public java.lang.String getMetricGrade()

    public void setMetricGrade(
        String metricGrade)

    public java.lang.String getMetricRelevance()

    public void setMetricRelevance(
        String metricRelevance)
```

```
public java.lang.String getMetricRichness()

public void setMetricRichness(
    String metricRichness)

public boolean getEnableLastAccess()

public void setEnableLastAccess(
    boolean enableLastAccess)

public boolean getEnableNumberOfInvocations()

public void setEnableNumberOfInvocations(
    boolean enableNumberOfInvocations)

public boolean getEnableAllowEndUserComments()

public void setEnableAllowEndUserComments(
    boolean enableAllowEndUserComments)

public boolean getEnableAllowEndUserRating()

public void setEnableAllowEndUserRating(
    boolean enableAllowEndUserRating)

public boolean getCheckUpload()

public void setCheckUpload(
    boolean checkUpload)

public java.lang.String getKuLink()

public void setKuLink(
    String kuLink)
```

Fields           **private kuld**

**private kuName**

**private kuType**

```
private kuLink

private serviceExpiry

private expiryDate

private kuAbstract

private kuAbstractLocale

private kuAbstractLocaleCurrentlyEdited

private metricGrade

private metricComplexity

private metricRichness

private metricRelevance

private enableLastAccess

private enableNumberOfInvocations

private enableAllowEndUserComments

private enableAllowEndUserRating

private checkUpload

private alreadySaved

private clickedSection

private actionPerformed

private itemActionPerformed
```

```
public class es.indra.smartgov.webapp.actionform.EditTseGroupForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public EditTseGroupForm()**

Methods      **public java.lang.String getActionPerformed()**

```
                public void setActionPerformed(  
                      String actionPerformed)
```

```
                public boolean hasBeenAlreadySaved()
```

```
                public void hasBeenAlreadySaved(  
                      boolean alreadySaved)
```

```
                public int getClickedSection()
```

```
                public void setClickedSection(  
                      int clickedSection)
```

```
                public java.lang.String getItemActionPerformed()
```

```
                public void setItemActionPerformed(  
                      String itemActionPerformed)
```

```
                public java.lang.String getItemEdited()
```

```
                public void setItemEdited(  
                      String itemEdited)
```

```
                public java.lang.String getContent()
```

```
                public void setContent(  
                      String content)
```

```
                public java.lang.String getContentLocale()
```

```
                public void setContentLocale(  
                      String contentLocale)
```

```
public java.lang.String getGroupControls()

public void setGroupControls(
    String groupControls)

public int getInitialRows()

public void setInitialRows(
    int initialRows)

public java.lang.String getInstantiatedTseGroupId()

public void setInstantiatedTseGroupId(
    String instantiatedTseGroupId)

public int getMaxOccurrences()

public void setMaxOccurrences(
    int maxOccurrences)

public int getMinOccurrences()

public void setMinOccurrences(
    int minOccurrences)

public int getRowStep()

public void setRowStep(
    int rowStep)

public java.lang.String getTseName()

public void setTseName(
    String tseName)

public java.lang.String getDefaultValueList()

public void setDefaultValueList(
    String defaultValueList)

public boolean getIsMandatoryFlag()
```

```
public void setIsMandatoryFlag(  
    boolean isMandatoryFlag)  
  
public boolean getIsReadOnlyFlag()  
  
public void setIsReadOnlyFlag(  
    boolean isReadOnlyFlag)  
  
public boolean getIsVisibleFlag()  
  
public void setIsVisibleFlag(  
    boolean isVisibleFlag)  
  
public boolean getMaximumNumberOfRows()  
  
public void setMaximumNumberOfRows(  
    boolean maximumNumberOfRows)  
  
public java.lang.String getMaximumValueOfAColumn()  
  
public void setMaximumValueOfAColumn(  
    String maximumValueOfAColumn)  
  
public boolean getMeanNumberOfRows()  
  
public void setMeanNumberOfRows(  
    boolean meanNumberOfRows)  
  
public java.lang.String getMeanValueOfAColumn()  
  
public void setMeanValueOfAColumn(  
    String meanValueOfAColumn)  
  
public boolean getMinimumNumberOfRows()  
  
public void setMinimumNumberOfRows(  
    boolean minimumNumberOfRows)  
  
public boolean getNumberOfNonEmptyValues()
```

```
public void setNumberOfNonEmptyValues(  
    boolean numberOfNonEmptyValues)  
  
public java.lang.String getNumberOfNonEmptyValuesOfAColumn()  
  
public void setNumberOfNonEmptyValuesOfAColumn(  
    String numberOfNonEmptyValuesOfAColumn)  
  
Fields  
private instantiatedTseGroupId  
  
private tseName  
  
private contentLocale  
  
private content  
  
private defaultValueList  
  
private isVisibleFlag  
  
private isReadOnlyFlag  
  
private isMandatoryFlag  
  
private minOccurrences  
  
private maxOccurrences  
  
private initialRows  
  
private groupControls  
  
private rowStep  
  
private numberOfNonEmptyValues  
  
private minimumNumberOfRows  
  
private maximumNumberOfRows  
  
private meanNumberOfRows
```

```
private minValueOfAColumn  
  
private maxValueOfAColumn  
  
private meanValueOfAColumn  
  
private numberOfNonEmptyValuesOfAColumn  
  
private alreadySaved  
  
private clickedSection  
  
private actionPerformed  
  
private itemActionPerformed  
  
private itemEdited
```

public class es.indra.smartgov.webapp.actionform.EditTseForm extends org.apache.struts.action.ActionForm

Constructors      **public EditTseForm()**

Methods      **public java.lang.String getActionPerformed()**

```
public void setActionPerformed(  
    String actionPerformed)
```

```
public boolean hasBeenAlreadySaved()
```

```
public void hasBeenAlreadySaved(  
    boolean alreadySaved)
```

```
public int getClickedSection()
```

```
public void setClickedSection(
```

```
    int clickedSection)

    public java.lang.String getItemActionPerformed()

    public void setItemActionPerformed(
        String itemActionPerformed)

    public java.lang.String getItemEdited()

    public void setItemEdited(
        String itemEdited)

    public java.lang.String getContent()

    public void setContent(
        String content)

    public java.lang.String getContentLocale()

    public void setContentLocale(
        String contentLocale)

    public java.lang.String getDefaultValue()

    public void setDefaultValue(
        String defaultValue)

    public java.lang.String getInstantiatedTseld()

    public void setInstantiatedTseld(
        String instantiatedTseld)

    public boolean getIsMandatory()

    public void setIsMandatory(
        boolean isMandatory)

    public boolean getIsReadOnly()

    public void setIsReadOnly(
        boolean isReadOnly)
```

```
public boolean getIsVisible()

public void setIsVisible(
    boolean isVisible)

public int getMaxLength()

public void setMaxLength(
    int maxLength)

public boolean getSingleSelect()

public void setSingleSelect(
    boolean singleSelect)

public java.lang.String getTseBuiltInDataType()

public void setTseBuiltInDataType(
    String tseBuiltInDataType)

public java.lang.String getTseName()

public void setTseName(
    String tseName)

public java.lang.String getValueListField()

public void setValueListField(
    String valueListField)

public boolean getMaximumValue()

public void setMaximumValue(
    boolean maximumValue)

public boolean getMinimumValue()

public void setMinimumValue(
    boolean minimumValue)
```

```
public boolean getMeanValue()

public void setMeanValue(
    boolean meanValue)

public boolean getNumberOfDistinctValues()

public void setNumberOfDistinctValues(
    boolean numberOfDistinctValues)

public boolean getNumberOfNonEmptyValues()

public void setNumberOfNonEmptyValues(
    boolean numberOfNonEmptyValues)

public boolean getSumOfAllValues()

public void setSumOfAllValues(
    boolean sumOfAllValues)
```

Fields

```
private instantiatedTselId

private tseName

private contentLocale

private content

private maxLength

private defaultValue

private tseBuiltInDataType

private valueListField

private singleSelect

private isVisible

private isReadOnly
```

```
private isMandatory  
  
private numberOfNonEmptyValues  
  
private numberOfDistinctValues  
  
private sumOfAllValues  
  
private minValue  
  
private maxValue  
  
private meanValue  
  
private alreadySaved  
  
private clickedSection  
  
private actionPerformed  
  
private itemActionPerformed  
  
private itemEdited
```

```
public class es.indra.smartgov.webapp.actionform.EditGroupForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public EditGroupForm()**

Methods      **public java.lang.String getActionPerformed()**

```
                public void setActionPerformed(  
                          String actionPerformed)
```

```
                public boolean hasBeenAlreadySaved()
```

```
public void hasBeenAlreadySaved(  
    boolean alreadySaved)  
  
public int getClickedSection()  
  
public void setClickedSection(  
    int clickedSection)  
  
public java.lang.String getItemActionPerformed()  
  
public void setItemActionPerformed(  
    String itemActionPerformed)  
  
public java.lang.String getItemEdited()  
  
public void setItemEdited(  
    String itemEdited)  
  
public java.lang.String getContent()  
  
public void setContent(  
    String content)  
  
public java.lang.String getContentLocale()  
  
public void setContentLocale(  
    String contentLocale)  
  
public java.lang.String getDefaultValue()  
  
public void setDefaultValue(  
    String defaultValue)  
  
public boolean getIsMandatory()  
  
public void setIsMandatory(  
    boolean isMandatory)  
  
public boolean getIsReadOnly()  
  
public void setIsReadOnly()
```

```
    boolean isReadOnly)

    public boolean getIsVisible()

    public void setIsVisible(
        boolean isVisible)

    public int getMaxLength()

    public void setMaxLength(
        int maxLength)

    public boolean getSingleSelect()

    public void setSingleSelect(
        boolean singleSelect)

    public java.lang.String getGroupBuiltInDataType()

    public void setGroupBuiltInDataType(
        String groupBuiltInDataType)

    public java.lang.String getGroupName()

    public void setGroupName(
        String groupName)

    public java.lang.String getValueListField()

    public void setValueListField(
        String valueListField)
```

## Fields

```
    private groupName

    private contentLocale

    private content

    private maxLength

    private defaultValue
```

```
private groupBuiltInDataType  
  
private valueListField  
  
private singleSelect  
  
private isVisible  
  
private isReadOnly  
  
private isMandatory  
  
private alreadySaved  
  
private clickedSection  
  
private actionPerformed  
  
private itemActionPerformed  
  
private itemEdited
```

```
public class es.indra.smartgov.webapp.actionform.EditGroupUserForm extends  
org.apache.struts.action.ActionForm
```

**Constructors**      **public EditGroupUserForm()**

**Methods**      **public java.lang.String actionPerformed()**

```
public void setActionPerformed(  
    String actionPerformed)
```

**public java.lang.String getItemActionPerformed()**

```
public void setItemActionPerformed(  
    String itemActionPerformed)
```

```
public void removeRole(  
    int index)  
  
public java.lang.String getGroupUserPerformed()  
  
public void setGroupUserPerformed(  
    String groupUserPerformed)  
  
public java.lang.String[] getRole()  
  
public void setRole(  
    String[] role)  
  
public java.lang.String getUserId()  
  
public void setUserId(  
    String userId)  
  
public int getUserToEdit()  
  
public void setUserToEdit(  
    int userToEdit)
```

Fields	<b>private userId</b>
	<b>private role</b>
	<b>private userToEdit</b>
	<b>private actionPerformed</b>
	<b>private itemActionPerformed</b>
	<b>private groupUserPerformed</b>

```
public class es.indra.smartgov.webapp.actionform.EditGroupForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public EditGroupForm()**

Methods      **public java.lang.String getActionPerformed()**

**public void actionPerformed(**

**String actionPerformed)**

**public boolean hasBeenAlreadySaved()**

**public void hasBeenAlreadySaved(**

**boolean alreadySaved)**

**public java.lang.String getItemActionPerformed()**

**public void setItemActionPerformed(**

**String itemActionPerformed)**

**public java.lang.String getName()**

**public void setName(**

**String name)**

**public java.lang.String getGroupId()**

**public void setGroupId(**

**String groupId)**

Fields      **private groupId**

**private name**

**private alreadySaved**

**private actionPerformed**

**private itemActionPerformed**

```
public class es.indra.smartgov.webapp.actionform.EditFormForm extends  
org.apache.struts.action.ActionForm
```

Constructors      **public EditFormForm()**

Methods      **public java.lang.String getActionPerformed()**

```
                public void setActionPerformed(  
                      String actionPerformed)
```

```
                public boolean hasBeenAlreadySaved()
```

```
                public void hasBeenAlreadySaved(  
                      boolean alreadySaved)
```

```
                public int getClickedSection()
```

```
                public void setClickedSection(  
                      int clickedSection)
```

```
                public java.lang.String getContent()
```

```
                public void setContent(  
                      String content)
```

```
                public java.lang.String getContentLocale()
```

```
                public void setContentLocale(  
                      String contentLocale)
```

```
                public java.lang.String getFormLayout()
```

```
                public void setFormLayout(  
                      String formLayout)
```

```
                public java.lang.String getFormName()
```

```
                public void setFormName(  
                      String formName)
```

```
public java.lang.String getItemActionPerformed()

public void setItemActionPerformed(
    String itemActionPerformed)

public java.lang.String getFormId()

public void setFormId(
    String formId)

public boolean getCheckUpload()

public void setCheckUpload(
    boolean checkUpload)

Fields          private formId

                private formName

                private contentLocale

                private content

                private formLayout

                private alreadySaved

                private clickedSection

                private actionPerformed

                private itemActionPerformed

                private checkUpload

public      class      es.indra.smartgov.webapp.actionform.ChangeWorkGroupForm      extends
org.apache.struts.action.ActionForm
```

Constructors      **public ChangeWorkGroupForm()**

Methods      **public java.lang.String getWorkGroup()**  
gets the WorkGroup  
**Returns**  
    the WorkGroup

**public void setWorkGroup(**  
                    **String workGroup)**  
sets the WorkGroup  
**Parameters**  
    workGroup -- the work group

Fields      **private workGroup**  
the WorkGroup from the form

public class **es.indra.smartgov.webapp.actionform.ChangeLogonForm** extends  
org.apache.struts.action.ActionForm

Constructors      **public ChangeLogonForm()**

Methods      **public java.lang.String getPassword()**  
Return the password.

**public void setPassword(**  
                    **String password)**  
Set the password.  
**Parameters**  
    password - The new password

**public java.lang.String getNewPassword()**  
Return the newpassword.

**public void setNewPassword(**  
                    **String newpassword)**  
Set the password.

**Parameters**

password - The new password

**public java.lang.String getConfirmNewPassword()**

Return the confirmnewpassword.

**public void setConfirmNewPassword(  
String confirmnewpassword)**

Set the password.

**Parameters**

password - The new password

**public void reset(  
ActionMapping mapping,  
HttpServletRequest request)**

Reset all properties to their default values.

**Parameters**

mapping - The mapping used to select this instance

request - The servlet request we are processing

**public org.apache.struts.action.ActionErrors validate(  
ActionMapping mapping,  
HttpServletRequest request)**

Validate the properties that have been set from this HTTP request, and return an ActionErrors object that encapsulates any validation errors that have been found. If no errors are found, return null or an ActionErrors object with no recorded error messages.

**Parameters**

mapping - The mapping used to select this instance

request - The servlet request we are processing

**Fields****private password**

The password.

**private newpassword**

The newpassword.

**private confirmnewpassword**

The confirmnewpassword.

public class **es.indra.smartgov.webapp.actionform.ChangeLocaleForm** extends  
org.apache.struts.action.ActionForm

Constructors **public ChangeLocaleForm()**

Methods **public java.lang.String getLocaleString()**

gets the locale string

**Returns**

the locale string

**public void setLocaleString(  
String localeString)**

sets the locale string

**Parameters**

localeString -- the locale string

Fields **private localeString**

the locale string from the form

## Package es.indra.smartgov.webapp

```
public class es.indra.smartgov.webapp.WebUtils
```

Constructors      **public WebUtils()**

Methods      **public static void sendMessageToWebUser(**  
                 **String messageTag,**  
                 **ServletRequest request)**

```
                 public static void sendMessageToWebUser(  
                 String messageTag,  
                 ServletRequest request,  
                 Object[] params)
```

```
                 public static boolean thereIsMessagesToWebUser(  
                 ServletRequest request)
```

```
                 public static void removeAllMessagesToWebUser(  
                 ServletRequest request)
```

```
                 public static java.lang.String[] getAllMessagesToWebUser(  
                 ServletRequest request,  
                 MessageResources resources,  
                 Locale locale)
```

```
                 public static java.lang.String translateTag(  
                 String notLocalizedTag,  
                 MessageResources resources,  
                 Locale userLocale)
```

Para llamarlo desde un Action: translateTag("tag",getResources(),getLocale(request));

```
                 public static java.lang.String translateTag(  
                 String notLocalizedTag,  
                 MessageResources resources,  
                 Locale userLocale,  
                 Object[] params)
```

```
                 public static java.lang.String getFormLayoutDirectory()
```

```
public static void setFormLayoutDirectory(  
    String formLayoutDirectory)  
  
public static java.lang.String getFormLayoutTempDirectory()  
  
public static java.lang.String getWebFormLayoutDirectory()  
  
public static void setWebFormLayoutDirectory(  
    String webFormLayoutDirectory)  
  
public static java.lang.String getWebFormLayoutTempDirectory()  
  
public static java.lang.String getKuLinkDirectory()  
  
public static void setKuLinkDirectory(  
    String kuLinkDirectory)  
  
public static java.lang.String getKuLinkTempDirectory()  
  
public static java.lang.String getWebKuLinkDirectory()  
  
public static void setWebKuLinkDirectory(  
    String webKuLinkDirectory)  
  
public static java.lang.String getWebKuLinkTempDirectory()  
  
Fields  
private static formLayoutDirectory  
  
private static webFormLayoutDirectory  
  
private static kuLinkDirectory  
  
private static webKuLinkDirectory
```

```
public class es.indra.smartgov.webapp.TransformCharsetRequestWrapper implements  
javax.servlet.http.HttpServletRequest
```

Constructors

```
public TransformCharsetRequestWrapper(  
    HttpServletRequest requestToWrap)  
  
public TransformCharsetRequestWrapper(  
    HttpServletRequest requestToWrap,  
    String fromCharSet,  
    String toCharSet)
```

Methods

```
public void setAttribute(  
    String name,  
    Object o)  
  
public void removeAttribute(  
    String name)  
  
public boolean isSecure()  
  
public int getServerPort()  
  
public java.lang.String getServerName()  
  
public java.lang.String getScheme()  
  
public javax.servlet.RequestDispatcher getRequestDispatcher(  
    String path)  
  
public java.lang.String getRemoteHost()  
  
public java.lang.String getRemoteAddr()  
  
public java.lang.String getRealPath(  
    String path)  
  
public java.io.BufferedReader getReader()  
  
public java.lang.String getProtocol()  
  
private java.lang.String transformString(  
    String original)  
  
public java.lang.String[] getParameterValues(  
    String name)
```

```
        String name)

    public java.util.Enumeration getParameterNames()

    public java.lang.String getParameter(
        String name)

    public java.util.Enumeration getLocales()

    public java.util.Locale getLocale()

    public javax.servlet.ServletInputStream getInputStream()

    public java.lang.String getContentType()

    public int getContentLength()

    public java.lang.String getCharacterEncoding()

    public java.util.Enumeration getAttributeNames()

    public java.lang.Object getAttribute(
        String name)

    public boolean isUserInRole(
        String role)

    public boolean isRequestedSessionIdValid()

    public boolean isRequestedSessionIdFromURL()

    public boolean isRequestedSessionIdFromUrl()

    public boolean isRequestedSessionIdFromCookie()

    public java.security.Principal getUserPrincipal()

    public javax.servlet.http.HttpSession getSession(
        boolean create)

    public javax.servlet.http.HttpSession getSession()
```

```
public java.lang.String getServletPath()

public java.lang.String getRequestURI()

public java.lang.String getRequestedSessionId()

public java.lang.String getRemoteUser()

public java.lang.String getQueryString()

public java.lang.String getPathTranslated()

public java.lang.String getPathInfo()

public java.lang.String getMethod()

public int getIntHeader(
    String name)

public java.util.Enumeration getHeaders(
    String name)

public java.util.Enumeration getHeaderNames()

public java.lang.String getHeader(
    String name)

public long getDateHeader(
    String name)

public javax.servlet.http.Cookie[] getCookies()

public java.lang.String getContextPath()

public java.lang.String getAuthType()

public void setCharacterEncoding(
    String env)

public java.util.Map getParameterMap()
```

```
public java.lang.StringBuffer getRequestURL()

public javax.servlet.http.HttpServletRequest getWrappedRequest()

public void setWrappedRequest(
    HttpServletRequest wrappedRequest)
```

Fields            **private wrappedRequest**

```
private fromCharSet

private toCharSet
```

public class **es.indra.smartgov.webapp.TaxonomyXmlFile**

Constructors    **public TaxonomyXmlFile()**

Methods          **public static java.lang.String getXmlFilename(**  
                  **String taxonomyId)**

```
private static void init()
```

```
public static void loadPublishedTaxonomies(
    ServletContext context)
```

Load all the .xml files in the directory TAXONOMY\_XML\_FILES\_DIRECTORY

```
public static void loadPublishedTaxonomies(
    String taxXmlFilesDirPath)
```

```
public static void printPublishedTaxonomyFiles()
```

```
public static void printPublishedTaxonomyFiles(
    PrintStream ps)
```

```
public static java.lang.String[] getTaxonomyIds()
```

```
public static es.indra.smartgov.businesslayer.km.Taxonomy[]
getPublishedTaxonomies()

public static es.indra.smartgov.common.MultiLingualField getTaxonomyFiles(
    String taxonomyId)

public static void setTaxonomyFiles(
    String taxonomyId,
    MultiLingualField files)

public static void regenerateTaxonomyXmlFile(
    String taxonomyId,
    String filePath,
    Locale aLocale)

private static es.indra.smartgov.webapp.taxonomyComplete.Leaf getLeafForNode(
    TaxonomyNode aNode,
    Locale aLocale)

private static es.indra.smartgov.webapp.taxonomyComplete.Folder getFolderForNode(
    TaxonomyNode aNode,
    Locale aLocale)

public static void main(
    String[] args)

Fields
private static xmlFilenames

private static LEAF_IMAGE

private static FOLDER_IMAGE

public static TAXONOMY_XML_FILES_DIRECTORY

private static publishedTaxonomies

private static final TAXONOMY_FILE_SUFFIX

public class es.indra.smartgov.webapp.SectionManager
```

Constructors      **public SectionManager(**  
                        **int numberOfSections)**

Methods      **public void openSection(**  
                        **int sectionNumber)**  
  
                    **public void closeSection(**  
                        **int sectionNumber)**  
  
                    **public void changeStatus(**  
                        **int sectionNumber)**  
  
                    **public boolean isSectionOpen(**  
                        **int sectionNumber)**  
  
                    **public boolean isSectionClosed(**  
                        **int sectionNumber)**

Fields      **private sectionStatuses**

public      class      **es.indra.smartgov.webapp.NotUserInSession**      extends  
                            **es.indra.smartgov.common.SmartGovException**

Constructors      **public NotUserInSession(**  
                        **String message)**

public      class      **es.indra.smartgov.webapp.InitConfigurationServlet**      extends  
                            **javax.servlet.http.HttpServlet**

Constructors      **public InitConfigurationServlet()**

Methods	<pre><b>public void init(</b> <b>    ServletConfig config)</b></pre> <pre><b>public static java.util.Properties loadProperties(</b> <b>    String filename)</b></pre>
Fields	<pre><b>private configFile</b></pre> <pre><b>private formLayoutDirectory</b></pre> <pre><b>private kuLinkDirectory</b></pre>
<p>public class <b>es.indra.smartgov.webapp.CustomizedActionServlet</b> extends <b>org.apache.struts.action.ActionServlet</b></p>	
<p>Constructors</p>	
<pre><b>public CustomizedActionServlet()</b></pre>	
<p>Methods</p>	
<pre><b>protected org.apache.struts.action.ActionForward processActionPerform(</b> <b>    Action action,</b> <b>    ActionMapping mapping,</b> <b>    ActionForm formInstance,</b> <b>    HttpServletRequest request,</b> <b>    HttpServletResponse response)</b></pre> <pre><b>static java.lang.String[] parseAction(</b> <b>    String fullQualifiedClassName)</b></pre> <pre><b>private static java.lang.String[] divideStringByUpperCases(</b> <b>    String aString)</b></pre> <pre><b>private java.lang.String getCurrentUserId(</b> <b>    HttpServletRequest request)</b></pre> <pre><b>public static void main(</b> <b>    String[] args)</b></pre>	
<p>Fields</p>	
<pre><b>private static actionWithoutSession</b></pre>	

```
public class es.indra.smartgov.webapp.Constants
```

Manifest constants for the SmartGov application.

Constructors      **public Constants()**

Fields      **public static final DATABASE\_KEY**

The application scope attribute under which our Hashtable of Users is stored.

**public static final CURRENT\_USER\_KEY**

The session scope attribute under which the User object for the currently logged in user is stored.

**public static final CURRENT\_USER\_WORKGROUP\_KEY**

The session scope attribute under which the current workgroup Id for the currently logged user is stored.

**public static final KU\_KEY**

The session scope attribute under which the Ku object that is currently being edited is stored.

**public static final KU\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Ku that is currently being edited is stored.

**public static final KU\_SECTION\_KEY**

The session scope attribute under which the KuSection object that is currently being edited is stored.

**public static final TSE\_KEY**

The session scope attribute under which the Tse object that is currently being edited is stored.

**public static final TSE\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Tse that is currently being edited is stored.

**public static final TS\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Tse that is currently being edited is stored.

**public static final TSFORMSET\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Tse that is currently being edited is stored.

**public static final FORM\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Tse that is currently being edited is stored.

**public static final ITSE\_KEY**

The session scope attribute under which the Instantiated Itse object that is currently being edited is stored.

**public static final ITSE\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Tse that is currently being edited is stored.

**public static final ITSE\_LABEL\_KEY**

The session scope attribute under which the Instantiated Itse object that is currently being edited is stored.

**public static final FORM\_KEY**

The session scope attribute under which the Form object that is currently being edited is stored.

**public static final TSEG\_KEY**

The session scope attribute under which the Tseg Group object that is currently being edited is stored.

**public static final TSEG\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Tse Group that is currently being edited is stored.

**public static final ITSEG\_KEY**

The session scope attribute under which the Tseg Group object that is currently being edited is stored.

**public static final ITSEG\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Tse Group that is

currently being edited is stored.

**public static final TS\_KEY**

The session scope attribute under which the Ts object that is currently being edited is stored.

**public static final TS\_FORMSET\_KEY**

The session scope attribute under which the SectionManager object for the Ts that is currently being edited is stored.

**public static final TAX\_KEY**

The session scope attribute under which the Taxonomy object that is currently being edited is stored.

**public static final NODE\_KEY**

The session scope attribute under which the Taxonomy Node object that is currently being edited is stored.

**public static final TAX\_SECT\_MANAGER\_KEY**

The session scope attribute under which the SectionManager object for the Taxonomy that is currently being edited is stored.

**public static final FORWARD\_SUCCESS**

Used in various action classes to define where to forward to on different conditions. See the struts-config.xml file to see where the page that is using this forwards to.

**public static final FORWARD\_FAILURE**

Used in various action classes to define where to forward to on different conditions. See the struts-config.xml file to see where the page that is using this forwards to.

**public static final LANGUAGE\_EN**

Default Language Used to designate the language English

**public static final COUNTRY\_GB**

Used to designate the country GB

**public static final LINKABLE\_TO\_KU\_KEY**

The session scope attribute under which the object that is currently being linked To Kus is stored.

**public static final LINKABLE\_TO\_TAXONOMY\_NODE\_KEY**

The session scope attribute under which the object that is currently being linked To

Taxonomy Nodes is stored.

**public static final LINKABLE\_TO\_NODE\_KEY**

The session scope attribute under which the object (tax. or nodes) that is currently being linked To Taxonomy Nodes in the Taxonomy Editor is stored

**public static final LINKABLE\_TO\_TSE\_KEY**

The session scope attribute under which the object that is currently being linked To Kus is stored.

**public static final LINKABLE\_TO\_TSE\_GROUP\_KEY**

The session scope attribute under which the object that is currently being linked To Kus is stored.

**public static final KU\_LIST**

The session scope attribute under which the list of Kus to be shown is stored.

**public static final METHOD\_LINKER\_KEY**

The session scope attribute under which a class designed to link a method to some object is stored.

**public static final METHOD\_KEY**

The session scope attribute under which the method that is being edited is stored.

**public static final VALIDATION\_RULE\_KEY**

The session scope attribute under which the validation Rule that is being edited is stored.

**public static final VALIDATION\_RULE\_LINKER\_KEY**

The session scope attribute under which a class designed to link a rule to some object is stored.

**public static final WORKGROUP\_KEY**

The session scope attribute under which the current workgroup in which the user is working is stored.

**public static final WORKGROUP\_USERS\_KEY**

The session scope attribute under which the group of users in which the user is working is stored.

**public static final USER\_KEY**

The session scope attribute under which the User object for the currently logged in user is

stored.

**public static DB\_TYPE**

The session scope attribute under which the Database Type is stored.

**public static PAGINATION\_ROWS**

The session scope attribute under which the Database Type is stored.

**public class es.indra.smartgov.webapp.ChangeActionFormCharset**

Constructors      **public ChangeActionFormCharset()**

Methods      **private static java.lang.String transformString(**  
**String original)**

**public static void transformActionForm(**  
**ActionForm aForm)**

Fields      **private static fromCharSet**

**private static toCharSet**

## Package es.indra.smartgov.webapp.tag

public class es.indra.smartgov.webapp.tag.UserPrintingTag extends javax.servlet.jsp.tagext.TagSupport

Constructors **public UserPrintingTag()**

Methods **public int doStartTag()**

**public java.lang.String getUserId()**

**public void setUserId(**  
**String userId)**

Fields **private userId**

If empty -> print for all the locales.

public class es.indra.smartgov.webapp.tag.TaxonomyTreeTag extends es.indra.util.web.design.AbstractReplacedByPageBodyTag

Constructors **public TaxonomyTreeTag()**

Methods **public java.lang.String getRelatedPage()**

**public void passAllParametersToPage()**

**public java.lang.String getTitleTag()**

**public void setTitleTag(**  
**String titleTag)**

**public java.lang.Boolean getAllowSelectNodes()**

**public void setAllowSelectNodes(**  
**Boolean allowSelectNodes)**

```
public java.lang.String getXmlUrl()

public void setXmlUrl(
    String xmlUrl)

public java.lang.String getOnFolderClick()

public void setOnFolderClick(
    String onFolderClick)

public java.lang.String getOnLeafClick()

public void setOnLeafClick(
    String onLeafClick)

public java.lang.String[] getAlreadySelectedNodes()

public void setAlreadySelectedNodes(
    String[] alreadySelectedNodes)

Fields          private titleTag

                private allowSelectNodes

                private xmlUrl

                private alreadySelectedNodes

                private onLeafClick

                private onFolderClick

                public static TITLE_TAG

                public static XML_URL

                public static ALLOW_SELECT_NODES

                public static ALREADY_SELECTED_NODES
```

```
public static ON_LEAF_CLICK
```

```
public static ON_FOLDER_CLICK
```

public class **es.indra.smartgov.webapp.tag.TaxonomyIndexTag** extends  
es.indra.util.web.design.AbstractReplacedByPageBodyTag

Constructors **public TaxonomyIndexTag()**

Methods **public java.lang.String getRelatedPage()**

```
public void passAllParametersToPage()
```

```
public java.lang.String getTitleTag()
```

```
public void setTitleTag(  
    String titleTag)
```

```
public java.lang.String getOnClickUrl()
```

```
public void setOnClickUrl(  
    String onClickUrl)
```

Fields **private onClickUrl**

```
private titleTag
```

```
public static ON_CLICK_URL
```

```
public static TITLE_TAG
```

public class **es.indra.smartgov.webapp.tag>ShowSelectableNodeListTag** extends  
es.indra.util.web.design.AbstractReplacedByPageBodyTag

Constructors      **public ShowSelectableNodeListTag()**

Methods      **public java.lang.String getRelatedPage()**

**public void passAllParametersToPage()**

**public java.lang.String getFormAction()**

**public void setFormAction(**  
                     **String formAction)**

**public java.lang.String getFormName()**

**public void setFormName(**  
                     **String formName)**

**public java.lang.String getFormType()**

**public void setFormType(**  
                     **String formType)**

**public java.lang.String getListTitle()**

**public void setListTitle(**  
                     **String listTitle)**

**public java.lang.String getFormPropertyForNodeIdsName()**

**public void setFormPropertyForNodeIdsName(**  
                     **String formPropertyForNodeIdsName)**

**public es.indra.smartgov.businesslayer.km.TaxonomyNode[] getNodeList()**

**public void setNodeList(**  
                     **TaxonomyNode[] nodeList)**

**public java.lang.String getFormActionPerformed()**

**public void setFormActionPerformed(**  
                     **String formActionPerformed)**

Fields	<pre><b>private nodeList</b></pre> <pre><b>public formAction</b></pre> <pre><b>public formName</b></pre> <pre><b>public formType</b></pre> <pre><b>public formPropertyForNodeIdsName</b></pre> <pre><b>public formActionPerformed</b></pre> <pre><b>public listTitle</b></pre> <pre><b>public static NODE_LIST</b></pre> <pre><b>public static FORM_ACTION</b></pre> <pre><b>public static FORM_NAME</b></pre> <pre><b>public static FORM_TYPE</b></pre> <pre><b>public static FORM_PROPERTY_FOR_NODEIDS</b></pre> <pre><b>public static LIST_TITLE</b></pre> <pre><b>public static FORM_ACTION_TO_PERFORM</b></pre>
	<pre>public class <b>es.indra.smartgov.webapp.tag&gt;ShowSelectableKuListTag</b> extends  <b>es.indra.util.web.design.AbstractReplacedByPageBodyTag</b></pre>
Constructors	<pre><b>public ShowSelectableKuListTag()</b></pre>
Methods	<pre><b>public java.lang.String getRelatedPage()</b></pre> <pre><b>public void passAllParametersToPage()</b></pre>

```
public java.lang.String getFormAction()

public void setFormAction(
    String formAction)

public java.lang.String getFormName()

public void setFormName(
    String formName)

public java.lang.String getFormType()

public void setFormType(
    String formType)

public java.lang.String getListTitle()

public void setListTitle(
    String listTitle)

public java.lang.String getFormPropertyForKuldsName()

public void setFormPropertyForKuldsName(
    String formPropertyForKuldsName)

public es.indra.smartgov.businesslayer.km.Ku[] getKuList()

public void setKuList(
    Ku[] kuList)

public java.lang.String getFormActionPerformed()

public void setFormActionPerformed(
    String formActionPerformed)
```

Fields           **private** kuList

```
public formAction

public formName
```

```
public formType  
  
public formPropertyForKuidsName  
  
public formActionPerformed  
  
public listTitle  
  
public static KU_LIST  
  
public static FORM_ACTION  
  
public static FORM_NAME  
  
public static FORM_TYPE  
  
public static FORM_PROPERTY_FOR_KUIDS  
  
public static LIST_TITLE  
  
public static FORM_ACTION_TO_PERFORM
```

```
public class es.indra.smartgov.webapp.tag>ShowLinkableToTaxNodeListTag extends  
es.indra.util.web.design.AbstractReplacedByPageBodyTag
```

Constructors      **public ShowLinkableToTaxNodeListTag()**

Methods      **public java.lang.String getRelatedPage()**

```
public void passAllParametersToPage()
```

```
public es.indra.smartgov.businesslayer.km.LinkableToTaxonomyNode[]  
getLinkableList()
```

```
public void setLinkableList(  
    LinkableToTaxonomyNode[] linkableList)
```

```
public java.lang.String getListTitle()

public void setListTitle(
    String listTitle)
```

Fields      **private linkableList**

```
private listTitle

public static LINKABLE_LIST

public static LIST_TITLE
```

public        class        **es.indra.smartgov.webapp.tag.SearchElementsTag**        extends  
es.indra.util.web.design.AbstractReplacedByPageBodyTag

Constructors      **public SearchElementsTag()**

Methods      **public java.lang.String getRelatedPage()**

```
public void passAllParametersToPage()
```

```
public java.lang.String getElementName()
```

```
public void setElementName(
    String elementName)
```

```
public java.lang.String getPageTitleTag()
```

```
public void setPageTitleTag(
    String pageTitleTag)
```

```
public java.lang.Boolean getIsElementListSelectable()
```

```
public void setIsElementListSelectable(
    Boolean isElementListSelectable)
```

Fields		<b>private elementName</b>	
		<b>private pageTitleTag</b>	
		<b>private isElementListSelectable</b>	
		<b>public static ELEMENT_NAME</b>	
		<b>public static PAGE_TITLE_TAG</b>	
		<b>public static IS_ELEMENT_LIST_SELECTABLE</b>	
public	class	<b>es.indra.smartgov.webapp.tag.ManageRulesTag</b>	extends
		<b>es.indra.util.web.design.AbstractReplacedByPageBodyTag</b>	

Constructors	<b>public ManageRulesTag()</b>
Methods	<b>public java.lang.String getRelatedPage()</b>
	<b>public void passAllParametersToPage()</b>
	<b>public java.lang.Boolean getCanModify()</b>
	<b>public void setCanModify(     Boolean canModify)</b>
	<b>public java.lang.String getEditRuleAction()</b>
	<b>public void setEditRuleAction(     String editRuleAction)</b>
	<b>public es.indra.smartgov.businesslayer.servicemodel.ValidationMethod[] getLinkedRules()</b>
	<b>public void setLinkedRules(     ValidationMethod[] linkedRules)</b>

```
public java.util.Locale getLocale()

public void setLocale(
    Locale locale)

public java.lang.String getNewRuleAction()

public void setNewRuleAction(
    String newRuleAction)
```

Fields           **private locale**

**private linkedRules**

**private newRuleAction**

**private editRuleAction**

**private canModify**

**public static LOCALE**

**public static LINKED\_RULES**

**public static NEW\_RULE\_ACTION**

**public static EDIT\_RULE\_ACTION**

**public static CAN\_MODIFY**

public           class           **es.indra.smartgov.webapp.tag.LinkTsesTag**           extends  
es.indra.util.web.design.AbstractReplacedByPageBodyTag

Constructors   **public LinkTsesTag()**

Methods         **public java.lang.String getRelatedPage()**

```
public void passAllParametersToPage()

public      es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTse[]
getLinkedTses()

public void setLinkedTses(
    AssociatedInstantiatedTse[] linkedTses)

public          es.indra.smartgov.businesslayer.servicemodel.AssociatedTse[]
getLinkedGenericTses()

public void setLinkedGenericTses(
    AssociatedTse[] linkedGenericTses)

public
es.indra.smartgov.businesslayer.servicemodel.AssociatedInstantiatedTseGroup[]
getLinkedTseGroups()

public void setLinkedTseGroups(
    AssociatedInstantiatedTseGroup[] linkedTseGroups)

public java.util.Locale getLocale()

public void setLocale(
    Locale locale)

public java.lang.String getLinkingAction()

public void setLinkingAction(
    String linkingAction)

public java.lang.String getTseType()

public void setTseType(
    String tseType)

public java.lang.Boolean getCanModify()

public void setCanModify(
    Boolean canModify)
```

Fields	<b>private locale</b>  <b>private tseType</b>  <b>private linkedTses</b>  <b>private linkedGenericTses</b>  <b>private linkedTseGroups</b>  <b>private linkingAction</b>  <b>private canModify</b>  <b>public static LOCALE</b>  <b>public static LINKED_TSES</b>  <b>public static LINKED_TSE_GROUPS</b>  <b>public static TSE_TYPE</b>  <b>public static LINKING_ACTION</b>  <b>public static CAN MODIFY</b>
	<b>public class es.indra.smartgov.webapp.tag.LinkTaxonomyNodesTag extends es.indra.util.web.design.AbstractReplacedByPageBodyTag</b>
Constructors	<b>public LinkTaxonomyNodesTag()</b>
Methods	<b>public java.lang.String getRelatedPage()</b>  <b>public void passAllParametersToPage()</b>  <b>public java.lang.String getLinkingAction()</b>

```
public void setLinkingAction(  
    String linkingAction)  
  
public java.util.Locale getLocale()  
  
public void setLocale(  
    Locale locale)  
  
public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]  
getLinkedTaxonomyNodes()  
  
public void setLinkedTaxonomyNodes(  
    AssociatedTaxonomyNode[] linkedTaxonomyNodes)
```

public java.lang.Boolean getCanModify()

```
public void setCanModify(  
    Boolean canModify)
```

Fields            private locale

```
private linkedTaxonomyNodes
```

```
private linkingAction
```

```
private canModify
```

```
public static LOCALE
```

```
public static LINKED_TAXONOMY_NODES
```

```
public static LINKING_ACTION
```

```
public static CAN MODIFY
```

```
public class es.indra.smartgov.webapp.tag.LinkNodesEditorTag extends  
es.indra.util.web.design.AbstractReplacedByPageBodyTag
```

Constructors      **public LinkNodesEditorTag()**

Methods      **public java.lang.String getRelatedPage()**

**public void passAllParametersToPage()**

**public java.lang.String getLinkingAction()**

**public void setLinkingAction(**  
                     **String linkingAction)**

**public java.util.Locale getLocale()**

**public void setLocale(**  
                     **Locale locale)**

**public es.indra.smartgov.businesslayer.km.AssociatedTaxonomyNode[]**  
**getLinkedTaxonomyNodes()**

**public void setLinkedTaxonomyNodes(**  
                     **AssociatedTaxonomyNode[] linkedTaxonomyNodes)**

**public java.lang.Boolean getCanModify()**

**public void setCanModify(**  
                     **Boolean canModify)**

Fields      **private locale**

**private linkedTaxonomyNodes**

**private linkingAction**

**private canModify**

**public static LOCALE**

**public static LINKED\_TAXONOMY\_NODES**

```
public static LINKING_ACTION
```

```
public static CAN MODIFY
```

public class es.indra.smartgov.webapp.tag.LinkKusTag extends es.indra.util.web.design.AbstractReplacedByPageBodyTag

Constructors **public LinkKusTag()**

Methods **public java.lang.String getRelatedPage()**

```
public void passAllParametersToPage()
```

```
public es.indra.smartgov.businesslayer.km.AssociatedKu[] getLinkedKus()
```

```
public void setLinkedKus(  
    AssociatedKu[] linkedKus)
```

```
public java.util.Locale getLocale()
```

```
public void setLocale(  
    Locale locale)
```

```
public java.lang.String getLinkingAction()
```

```
public void setLinkingAction(  
    String linkingAction)
```

```
public java.lang.Boolean getCanModify()
```

```
public void setCanModify(  
    Boolean canModify)
```

Fields **private locale**

```
private linkedKus
```

```
private linkingAction  
  
private canModify  
  
public static LOCALE  
  
public static LINKED_KUS  
  
public static LINKING_ACTION  
  
public static CAN MODIFY
```

```
public class es.indra.smartgov.webapp.tag.CheckSessionTag extends  
javax.servlet.jsp.tagext.TagSupport
```

NOTE: All classes in this package represents customized JSP tags that are used in the JSP pages

Constructors	<b>public CheckSessionTag()</b>
Methods	<b>public static boolean hasExpiredSession(</b> <b>HttpServletRequest req)</b>  <b>public int doStartTag()</b>  <b>public int doEndTag()</b>  <b>public java.lang.String getRedirectURL()</b>  <b>public void setRedirectURL(</b> <b>String redirectURL)</b>  <b>public java.lang.String getRelatedPage()</b>
Fields	<b>private redirectURL</b>  <b>public static TAGS_PAGES_FOLDER</b>  <b>private hasRedirected</b>



## Package es.indra.smartgov.webapp.taxonomyComplete

```
public class es.indra.smartgov.webapp.taxonomyComplete.TreeviewItemDescriptor  
extends org.exolab.castor.xml.util.XMLClassDescriptorImpl
```

### Version

```
$Revision$ $Date$
```

Constructors      **public TreeviewItemDescriptor()**

Methods      **public org.exolab.castor.mapping.AccessMode getAccessMode()**

```
                public org.exolab.castor.mapping.ClassDescriptor getExtends()
```

```
                public org.exolab.castor.mapping.FieldDescriptor getIdentity()
```

```
                public java.lang.Class getJavaClass()
```

```
                public java.lang.String getNameSpacePrefix()
```

```
                public java.lang.String getNameSpaceURI()
```

```
                public org.exolab.castor.xml.TypeValidator getValidator()
```

```
                public java.lang.String getXMLName()
```

Fields      **private nsPrefix**

```
                private nsURI
```

```
                private xmlName
```

```
                private identity
```

```
public class es.indra.smartgov.webapp.taxonomyComplete.TreeviewItem implements  
java.io.Serializable
```

Comment describing your root element

### Version

```
$Revision$ $Date$
```

Constructors	<b>public TreeviewItem()</b>
Methods	<b>public es.indra.smartgov.webapp.taxonomyComplete.Folder getFolder()</b> Returns the value of field 'folder'.
	<b>Returns</b> the value of field 'folder'.
	<b>public es.indra.smartgov.webapp.taxonomyComplete.Leaf getLeaf()</b> Returns the value of field 'leaf'.
	<b>Returns</b> the value of field 'leaf'.
	<b>public void setFolder(</b> <b>    Folder folder)</b> Sets the value of field 'folder'.
	<b>Parameters</b> folder - the value of field 'folder'.
	<b>public void setLeaf(</b> <b>    Leaf leaf)</b> Sets the value of field 'leaf'.
	<b>Parameters</b> leaf - the value of field 'leaf'.
Fields	<b>private _folder</b>  <b>private _leaf</b>

```
public class es.indra.smartgov.webapp.taxonomyComplete.TreeviewDescriptor extends
org.exolab.castor.xml.util.XMLClassDescriptorImpl
```

#### Version

\$Revision\$ \$Date\$

Constructors	<b>public TreeviewDescriptor()</b>
Methods	<b>public org.exolab.castor.mapping.AccessMode getAccessMode()</b>  <b>public org.exolab.castor.mapping.ClassDescriptor getExtends()</b>

```
public org.exolab.castor.mapping.FieldDescriptor getIdentity()

public java.lang.Class getJavaClass()

public java.lang.String getNameSpacePrefix()

public java.lang.String getNameSpaceURI()

public org.exolab.castor.xml.TypeValidator getValidator()
```

Fields           **private nsPrefix**

**private nsURI**

**private xmlName**

**private identity**

public class es.indra.smartgov.webapp.taxonomyComplete.Treeview implements  
java.io.Serializable

#### Version

\$Revision\$ \$Date\$

Constructors   **public Treeview()**

Methods       **public void addTreeviewItem(**  
                 **TreeviewItem vTreeviewItem)**

#### Parameters

-

**public void addTreeviewItem(**  
                  **int index,**  
                  **TreeviewItem vTreeviewItem)**

#### Parameters

-

-

```
public java.util.Enumeration enumerateTreeviewItem()
```

```
public java.lang.String getTitle()
```

Returns the value of field 'title'.

**Returns**

the value of field 'title'.

```
public es.indra.smartgov.webapp.taxonomyComplete.TreeviewItem getTreeviewItem(  
    int index)
```

**Parameters**

-

```
public es.indra.smartgov.webapp.taxonomyComplete.TreeviewItem[] getTreeviewItem()
```

```
public int getTreeviewItemCount()
```

```
public boolean isValid()
```

```
public void marshal(  
    Writer out)
```

**Parameters**

-

```
public void marshal(  
    ContentHandler handler)
```

**Parameters**

-

```
public void removeAllTreeviewItem()
```

```
public es.indra.smartgov.webapp.taxonomyComplete.TreeviewItem  
removeTreeviewItem(  
    int index)
```

**Parameters**

-

```
public void setTitle(  
    String title)
```

Sets the value of field 'title'.

**Parameters**

title - the value of field 'title'.

```
public void setTreeviewItem(
```

```
    int index,  
    TreeviewItem vTreeviewItem)
```

**Parameters**

```
-  
-
```

```
public void setTreeviewItem(  
    TreeviewItem[] treeviewItemArray)
```

**Parameters**

```
-
```

```
public static es.indra.smartgov.webapp.taxonomyComplete.Treeview unmarshal(  
    Reader reader)
```

**Parameters**

```
-
```

```
public void validate()
```

Fields      **private \_title**

```
              private _items
```

```
public class es.indra.smartgov.webapp.taxonomyComplete.MyNodeTypeDescriptor  
extends org.exolab.castor.xml.util.XMLClassDescriptorImpl
```

**Version**

\$Revision\$ \$Date\$

Constructors      **public MyNodeTypeDescriptor()**

Methods      **public org.exolab.castor.mapping.AccessMode getAccessMode()**

```
              public org.exolab.castor.mapping.ClassDescriptor getExtends()
```

```
              public org.exolab.castor.mapping.FieldDescriptor getIdentity()
```

```
              public java.lang.Class getJavaClass()
```

```
              public java.lang.String getNameSpacePrefix()
```

```
public java.lang.String getNameSpaceURI()  
  
public org.exolab.castor.xml.TypeValidator getValidator()  
  
public java.lang.String getXMLName()
```

Fields      **private nsPrefix**  
  
**private nsURI**  
  
**private xmlName**  
  
**private identity**

public abstract class **es.indra.smartgov.webapp.taxonomyComplete.MyNodeType**  
implements [java.io.Serializable](#)

#### Version

\$Revision\$ \$Date\$

Constructors      **public MyNodeType()**

Methods      **public java.lang.String getAlt()**

Returns the value of field 'alt'.

**Returns**

the value of field 'alt'.

**public java.lang.String getCode()**

Returns the value of field 'code'.

**Returns**

the value of field 'code'.

**public java.lang.String getImg()**

Returns the value of field 'img'.

**Returns**

the value of field 'img'.

**public java.lang.String getTitle()**

Returns the value of field 'title'.

**Returns**

the value of field 'title'.

**public boolean isValid()**

**public abstract void marshal(  
Writer out)**

**Parameters**

-

**public abstract void marshal(  
ContentHandler handler)**

**Parameters**

-

**public void setAlt(  
String alt)**

Sets the value of field 'alt'.

**Parameters**

alt - the value of field 'alt'.

**public void setCode(  
String code)**

Sets the value of field 'code'.

**Parameters**

code - the value of field 'code'.

**public void setImg(  
String img)**

Sets the value of field 'img'.

**Parameters**

img - the value of field 'img'.

**public void setTitle(  
String title)**

Sets the value of field 'title'.

**Parameters**

title - the value of field 'title'.

**public void validate()**

Fields

**private \_title**

**private \_img**

**private \_alt**

**private \_code**

public class  
**es.indra.smartgov.webapp.taxonomyComplete.MyFolderTypeItemDescriptor** extends  
org.exolab.castor.xml.util.XMLClassDescriptorImpl

#### Version

\$Revision\$ \$Date\$

Constructors      **public MyFolderTypeItemDescriptor()**

Methods      **public org.exolab.castor.mapping.AccessMode getAccessMode()**

**public org.exolab.castor.mapping.ClassDescriptor getExtends()**

**public org.exolab.castor.mapping.FieldDescriptor getIdentity()**

**public java.lang.Class getJavaClass()**

**public java.lang.String getNameSpacePrefix()**

**public java.lang.String getNameSpaceURI()**

**public org.exolab.castor.xml.TypeValidator getValidator()**

**public java.lang.String getXMLName()**

Fields      **private nsPrefix**

**private nsURI**

**private xmlName**

**private identity**

```
public class es.indra.smartgov.webapp.taxonomyComplete.MyFolderTypeItem
implements java.io.Serializable
```

**Version**

\$Revision\$ \$Date\$

Constructors      **public MyFolderTypeItem()**

Methods      **public es.indra.smartgov.webapp.taxonomyComplete.Folder getFolder()**

Returns the value of field 'folder'.

**Returns**

the value of field 'folder'.

**public es.indra.smartgov.webapp.taxonomyComplete.Leaf getLeaf()**

Returns the value of field 'leaf'.

**Returns**

the value of field 'leaf'.

**public void setFolder(**

**Folder folder)**

Sets the value of field 'folder'.

**Parameters**

folder - the value of field 'folder'.

**public void setLeaf(**

**Leaf leaf)**

Sets the value of field 'leaf'.

**Parameters**

leaf - the value of field 'leaf'.

Fields      **private \_folder**

**private \_leaf**

```
public class es.indra.smartgov.webapp.taxonomyComplete.MyFolderTypeDescriptor
extends es.indra.smartgov.webapp.taxonomyComplete.MyNodeTypeDescriptor
```

**Version**

\$Revision\$ \$Date\$

Constructors      **public MyFolderTypeDescriptor()**

Methods      **public org.exolab.castor.mapping.AccessMode getAccessMode()**

**public org.exolab.castor.mapping.ClassDescriptor getExtends()**

**public org.exolab.castor.mapping.FieldDescriptor getIdentity()**

**public java.lang.Class getJavaClass()**

**public java.lang.String getNameSpacePrefix()**

**public java.lang.String getNameSpaceURI()**

**public org.exolab.castor.xml.TypeValidator getValidator()**

**public java.lang.String getXMLName()**

Fields      **private nsPrefix**

**private nsURI**

**private xmlName**

**private identity**

public abstract class es.indra.smartgov.webapp.taxonomyComplete.MyFolderType  
 extends es.indra.smartgov.webapp.taxonomyComplete.MyNodeType      implements  
 java.io.Serializable

**Version**

\$Revision\$ \$Date\$

Constructors      **public MyFolderType()**

Methods      **public void addMyFolderTypeItem(**  
                  **MyFolderTypeItem vMyFolderTypeItem)**

Parameters

-

```
public void addMyFolderTypeItem(  
    int index,  
    MyFolderTypeItem vMyFolderTypeItem)
```

**Parameters**

-  
-

```
public java.util.Enumeration enumerateMyFolderTypeItem()
```

```
public java.lang.String getExpanded()
```

Returns the value of field 'expanded'.

**Returns**

the value of field 'expanded'.

```
public es.indra.smartgov.webapp.taxonomyComplete.MyFolderTypeItem  
getMyFolderTypeItem(  
    int index)
```

**Parameters**

-

```
public es.indra.smartgov.webapp.taxonomyComplete.MyFolderTypeItem[]  
getMyFolderTypeItem()
```

```
public int getMyFolderTypeItemCount()
```

```
public boolean isValid()
```

```
public abstract void marshal(  
    Writer out)
```

**Parameters**

-

```
public abstract void marshal(  
    ContentHandler handler)
```

**Parameters**

-

```
public void removeAllMyFolderTypeItem()
```

```
public es.indra.smartgov.webapp.taxonomyComplete.MyFolderTypeItem  
removeMyFolderTypeItem(  
    int index)
```

**Parameters**

-

```
public void setExpanded(
    String expanded)
```

Sets the value of field 'expanded'.

#### Parameters

expanded - the value of field 'expanded'.

```
public void setMyFolderTypeItem(
    int index,
    MyFolderTypeItem vMyFolderTypeItem)
```

#### Parameters

-

```
public void setMyFolderTypeItem(
    MyFolderTypeItem[] myFolderTypeItemArray)
```

#### Parameters

-

```
public void validate()
```

Fields	<b>private _expanded</b>
	<b>private _items</b>

```
public class es.indra.smartgov.webapp.taxonomyComplete.LeafDescriptor extends
es.indra.smartgov.webapp.taxonomyComplete.MyNodeTypeDescriptor
```

#### Version

\$Revision\$ \$Date\$

Constructors	<b>public LeafDescriptor()</b>
--------------	--------------------------------

Methods	<b>public org.exolab.castor.mapping.AccessMode getAccessMode()</b>
---------	--------------------------------------------------------------------

```
public org.exolab.castor.mapping.ClassDescriptor getExtends()
```

```
public org.exolab.castor.mapping.FieldDescriptor getIdentity()
```

```
public java.lang.Class getJavaClass()
```

```
public java.lang.String getNameSpacePrefix()  
  
public java.lang.String getNameSpaceURI()  
  
public org.exolab.castor.xml.TypeValidator getValidator()  
  
public java.lang.String getXMLName()
```

Fields                   **private nsPrefix**  
  
**private nsURI**  
  
**private xmlName**  
  
**private identity**

public        class        **es.indra.smartgov.webapp.taxonomyComplete.Leaf**        extends  
es.indra.smartgov.webapp.taxonomyComplete.MyNodeType implements **java.io.Serializable**

#### Version

\$Revision\$ \$Date\$

Constructors      **public Leaf()**

Methods            **public boolean isValid()**

```
public void marshal(  
                  Writer out)
```

#### Parameters

-

```
public void marshal(  
                  ContentHandler handler)
```

#### Parameters

-

```
public static es.indra.smartgov.webapp.taxonomyComplete.Leaf unmarshal(  
                  Reader reader)
```

#### Parameters

**public void validate()**

public class **es.indra.smartgov.webapp.taxonomyComplete.FolderDescriptor** extends  
**es.indra.smartgov.webapp.taxonomyComplete.MyFolderTypeDescriptor**

#### Version

\$Revision\$ \$Date\$

Constructors      **public FolderDescriptor()**

Methods      **public org.exolab.castor.mapping.AccessMode getAccessMode()**

**public org.exolab.castor.mapping.ClassDescriptor getExtends()**

**public org.exolab.castor.mapping.FieldDescriptor getIdentity()**

**public java.lang.Class getJavaClass()**

**public java.lang.String getNameSpacePrefix()**

**public java.lang.String getNameSpaceURI()**

**public org.exolab.castor.xml.TypeValidator getValidator()**

**public java.lang.String getXMLName()**

Fields      **private nsPrefix**

**private nsURI**

**private xmlName**

**private identity**

public class **es.indra.smartgov.webapp.taxonomyComplete.Folder** extends

es.indra.smartgov.webapp.taxonomyComplete.MyFolderType implements java.io.Serializable

**Version**

\$Revision\$ \$Date\$

Constructors      **public Folder()**

Methods      **public boolean isValid()**

**public void marshal(**  
                      **Writer out)**

**Parameters**

-

**public void marshal(**  
                      **ContentHandler handler)**

**Parameters**

-

**public static es.indra.smartgov.webapp.taxonomyComplete.Folder unmarshal(**  
                      **Reader reader)**

**Parameters**

-

**public void validate()**

## Appendix B. XML Repository JavaDocs

### Package com.archetypon.xml.store.impl

public final class **com.archetypon.xml.store.impl.XmlStoreImpl** implements [com.archetypon.xml.store.XmlStore](#)

Implementation of @link com.archetypon.xml.store.XmlStore

Constructors      **public XmlStoreImpl(XmlStoreConfig configProperties)**

Default constructor

Methods      Methods

**private javax.sql.DataSource createDataSource( XmlStoreConfig settings)**

Creates a data source instance based on the settings passed. The class that provides the javax.sql.DataSource implementation should be visible by the class loader that has loaded this class

**Parameters**

settings - Contains all necessary properties such as class, server, user etc.

**public void addIndexer( Indexer indexer)**

**See Also**      [XmlStore#addIndexer\(Indexer\)](#)

**public void removeIndexer( Indexer indexer)**

**See Also**      [XmlStore#removeIndexer\(Indexer\)](#)

**public com.archetypon.xml.store.Indexer[] getIndexers()**

**See Also**      [XmlStore#getIndexers\(\)](#)

**public java.lang.String createDocument(File file)**

**See Also**      [XmlStore#createDocument\(File\)](#)

**protected java.lang.String createDocument(File file, String documentKey)**

Completely analogous to @link [XmlStoreImpl#createDocument\(Document, String\)](#).

**public java.lang.String createDocument(InputSource inputSource)**

**See Also**      [XmlStore#createDocument\(InputSource\)](#)

**protected java.lang.String createDocument( InputSource inputSource, String documentKey)**

Completely analogous to @link [XmlStoreImpl#createDocument\(Document, String\)](#).

**public java.lang.String createDocument(InputStream inputStream)**

**See Also** XmlStore#createDocument(InputStream)

**protected java.lang.String createDocument( InputStream inputStream, String documentKey)**

Completely analogous to @link XmlStoreImpl#createDocument(Document, String).

**public java.lang.String createDocument( String uri)**

**See Also** XmlStore#createDocument(String)

**protected java.lang.String createDocument( String uri, String documentId)**

Completely analogous to @link XmlStoreImpl#createDocument(Document, String).

**public java.lang.String createDocument(Document document)**

**See Also** XmlStore#createDocument(Document)

**protected java.lang.String createDocument( Document document, String documentKey)**

Implements @link com.archetypon.xml.store.XmlStore#createDocument(Document) but it reuses an already existing document key. This method should be used only for replacing a XML document in the store while preserving its document key.

#### Parameters

document - The document to create.

documentKey - The key to use. If null a new document key will be created.

#### Throws

XmlStoreException - When it fails.

**public com.archetypon.xml.store.XmlStoreDocument retrieveDocument( String documentId)**

**See Also** XmlStore#retrieveDocument(String)

**public com.archetypon.xml.store.XmlStoreDocument[] retrieveDocuments( Indexer indexer, Object value)**

**See Also** XmlStore#retrieveDocuments(Indexer, Object)

**public com.archetypon.xml.store.XmlStoreDocument[] retrieveDocuments()**

**See Also** XmlStore#retrieveDocuments()

**public void replaceDocument( String documentId, File file)**

**See Also** XmlStore#replaceDocument(XmlStoreDocument, File)

**public void replaceDocument( String documentId, InputSource inputSource)**

**See Also** XmlStore#replaceDocument(XmlStoreDocument, InputSource)

**public void replaceDocument( String documentId, InputStream inputStream)**

**See Also** XmlStore#replaceDocument(XmlStoreDocument, InputStream)

**public void replaceDocument( String documentId, String string)**

**See Also** XmlStore#replaceDocument(XmlStoreDocument, String)

**public void replaceDocument( String documentId, Document document)**

**See Also** XmlStore#replaceDocument(XmlStoreDocument, Document)

**public void deleteDocument( String documentId)**

**See Also** XmlStore#deleteDocument(XmlStoreDocument)

**public com.archetypon.xml.store.XmlStoreDocument newXmlStoreDocument()**

**See Also** XmlStore#newXmlStoreDocument()

**private javax.xml.parsers.DocumentBuilder getDOMParser()** Method getDOMParser()

**private void populateIndexTable( Indexer indexer, Object value, String documentKey, Connection con)**

Inserts a new record in a indexer table the underlying database

**Parameters**

indexer - The indexer instance for which to add a row. It is used to determine the appropriate database table.  
value - The value of the xpath expression of the indexer.

documentKey - The GUID that identifies the document in the database

**private void populateDocumentTable( XmlStoreDocument document, Connection con)**

Inserts a new record in the document store table.

**Parameters**

document - The document to be stored

**private byte[] serializeDocumentContent( Document dom)**

Serializes a document object model to a byte array using the UTF-8 encoding of Unicode

**Parameters**

dom - The document object

**private java.sql.Connection getConnection( int isolationLevel)**

Opens and returns a connection to the underlying database using the specified isolation level.

**Parameters** isolationLevel - The transaction isolation level.

**private java.sql.Connection getConnection()**

Opens and returns a connection to the underlying database using a default isolation level.

**private java.lang.Object retrieveValue( Node n, Indexer i)**

Retrieves the Value of a Valid Node according to the DOM Model

**private int getColumnType( String indexerName)**

Returns the integer value of JDBC type type for the Column that corresponds to the given Indexer Name.

**private java.util.Properties getProperties()**

oads a property file with the sql Statements used by the XmlStore. Returns a java.util.Property.

**private boolean checkIndexerName(String indexerName)**

checks if the given Indexer name already exists.

**private byte[] fetchBinaryContent(ResultSet rs, int columnNumber)**

Retrieves a binary large object (BLOB) from the current row of a result set.

**Parameters**

rs - The result set from which to retrieve the BLOB.

columnNumber - The column of the result set that contains the BLOB.

**Returns**

The BLOB's contents as an array of bytes

**Throws**

SQLException - When it fail due an SQL error

IOException - When fails to copy data from

Fields

**private dataSource**

**private guidGenerator**

**private sqlTypeMap**

**private properties**

public class **com.archetypon.xml.store.impl.XmlStoreDocumentImpl** implements  
**com.archetypon.xml.store.XmlStoreDocument**

Implementation of @link com.archetypon.xml.store.XmlStoreDocument

Constructors

**public XmlStoreDocumentImpl()**

Methods

**public java.lang.String asString()**

**See Also**

**XmlStoreDocument#asString()**

**public java.io.InputStream asInputStream()**  
**See Also** XmlStoreDocument#asInputStream()

**public org.xml.sax.InputSource asInputSource()**  
**See Also** XmlStoreDocument#asInputSource()

**public org.w3c.dom.Document asDocument()**  
**See Also** XmlStoreDocument#asDocument()

**protected void setDocumentId( String documentId)**

Sets the documentId

**Parameters**

documentId - The documentId to set

**protected void setContent( byte[] content)**

Sets the content

**Parameters**

content - The content to set

**public java.lang.String getDocumentId()**

Gets the documentId

**Returns**

Returns a String

**public byte[] getContent()**

Gets the content

**Returns**

Returns a byte[]

Fields      **private documentId private content**

public class **com.archetypon.xml.store.impl.SQLTypeMap**

A class that maps java types to Database specific types and JDBC types to java types

Constructors      **public SQLTypeMap( DataSource dataSource)**

Constructor for SQLTypeMap Class

Methods

**public java.lang.String getSqlType( Class type)**

This static method retrieves the database specific from a java type.

**public java.lang.Class getSqlType( int type)**

This static method retrieves the java type from a JDBC type.

**protected java.sql.Connection getConnection()**

Opens and returns a connection to the underlying database

**protected void populateTypesMap()**

Constructs a map, containing a mapping between SQL data types to java types and java types toSQL data types.

**Throws**

SQLException - When something goes wrong.

Fields

**static javaSqlMap**

**private typesMap**

**private dataSource**

## Package com.archetypon.xml.store

public class **com.archetypon.xml.store.XmlStoreFactory**

Constructors

**public XmlStoreFactory()**

Constructs a new instance.

Methods

**public com.archetypon.xml.store.XmlStore newXmlStore( XmlStoreConfig config)**

Factory method that acts as a virtual constructor for @link XmlStore.

**Parameters**

config - The configuration settings for the XmlStore implementation.

**Throws**

XmlStoreConfigurationException - If the factory is not properly configured

XmlStoreException - If xml store creation failed

public class **com.archetypon.xml.store.XmlStoreException** extends [java.lang.Exception](#)

General exception type for XmlStore

Constructors

**public XmlStoreException()**

Constructs a new exception instance.

**public XmlStoreException(String message)**

Constructs a new exception instance with a given error message.

**Parameters**

message - The message

Methods

**public XmlStoreException(Throwable nestedException)**

Constructs a new exception instance that wraps another exception instance.

**Parameters**

nestedException - The exception to be wrapped

public interface **com.archetypon.xml.store.XmlStoreDocument** implements  
[java.io.Serializable](#)

Represents a document handled by an implementation of @link XmlStore

Methods      **public java.lang.String asString()**

Returns a string that contains the document

**public java.io.InputStream asInputStream()**

Returns an input stream that contains the document

**public org.xml.sax.InputSource asInputSource()**

Returns a SAX input source that contains the document

**public org.w3c.dom.Document asDocument()**

Returns a string that contains the document

**public java.lang.String getDocumentId()**

Returns the documentId

**Returns**

Returns a String

**public byte[] getContent()**

Returns the content

**Returns**

Returns a byte[]

public class **com.archetypon.xml.store.XmlStoreConfigurationException** extends  
[com.archetypon.xml.store.XmlStoreException](#)

When thrown, indicates inconsistency in the underlying XmlStore's configuration.

Constructors      **public XmlStoreConfigurationException()**

Default constructor

**public XmlStoreConfigurationException( String message)**

Constructs a new exception instance with a given error message.

**Parameters**

message - The message

**public XmlStoreConfigurationException( Throwable nestedException)**

Constructs a new exception instance that wraps another exception instance.

**Parameters**

nestedException - The exception to be wrapped

## Appendix C. RDBMS Datamodel

### DATABASE smartgov\_user\_system

```
#  
# Table structure for table 'group_users'  
  
#  
  
TABLE `group_users` (  
    `group_id` varchar(15) NOT NULL default "",  
    `smartgov_user_id` varchar(15) NOT NULL default "",  
    PRIMARY KEY (`group_id`, `smartgov_user_id`)  
)  
  
#  
# Table structure for table 'groups'  
  
#  
  
TABLE `groups` (  
    `group_id` varchar(15) NOT NULL default "",  
    `type` varchar(8) NOT NULL default "",  
    `outer_user_system` varchar(15) default "",  
    `group_name` varchar(25) NOT NULL default "",  
    PRIMARY KEY (`group_id`)  
)  
  
#  
# Table structure for table 'roles'  
  
#  
  
TABLE `roles` (  
    `rolescope_id` varchar(15) NOT NULL default "",  
    `role_id` varchar(15) NOT NULL default "",  
    `role_name` varchar(50) NOT NULL default "",  
    PRIMARY KEY (`rolescope_id`, `role_id`)  
)
```

```
#  
# Table structure for table 'rolescopes'  
#  
  
TABLE `rolescopes` (  
    `role_scope_id` varchar(15) NOT NULL default "",  
    `role_scope_name` varchar(50) NOT NULL default "",  
    PRIMARY KEY (`role_scope_id`)  
)  
  
#  
# Table structure for table 'user_roles'  
#  
  
TABLE `user_roles` (  
    `group_id` varchar(15) NOT NULL default "",  
    `smartgov_user_id` varchar(15) NOT NULL default "",  
    `role_scope_id` varchar(15) NOT NULL default "",  
    `role_id` varchar(15) NOT NULL default "",  
    PRIMARY KEY (`group_id`, `smartgov_user_id`, `role_scope_id`, `role_id`)  
)  
  
#  
# Table structure for table 'users'  
#  
  
TABLE `users` (  
    `smartgov_user_id` varchar(15) NOT NULL default "",  
    `smartgov_user_password` varchar(15) NOT NULL default "",  
    `outer_user_id` varchar(15) NOT NULL default "",  
    PRIMARY KEY (`smartgov_user_id`)  
)
```

**DATABASE smartgov\_outer\_users;**

```
TABLE `outer_users` (
  `outer_user_id` varchar(15) NOT NULL default '',
  `outer_user_first_name` varchar(50) NOT NULL default '',
  `outer_user_last_name` varchar(50) NOT NULL default '',
  `outer_user_e_mail` varchar(80) NOT NULL default '',
  PRIMARY KEY (`outer_user_id`)
)
```