Escenic Content Engine
Struts Form Reference
5.2.7.2

Escenic Content Engine™

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Table of Contents

1 Introduction

This reference should contain enough information to enable a template developer to set up profile- and search-related Struts actions in an Escenic publication, so that profile/search forms may be submitted. A working knowledge of Struts is assumed.

For more on Struts, see **http://struts.apache.org**.

2 Action Forms

2.1 AbstractForm

A base class which has behaviour and properties which are common to all action forms. All action forms share the properties defined by this class.

Properties

`AbstractForm` inherits properties from:

- `com.escenic.tools.struts.ValidateForm`

It has no properties of its own.

2.2 AbstractUserForm

A form that collects user data needed when registring or updating a profile

The properties describes below are all settable from the html form in the jsp page.

The form contains information about the profile to create or update

Struts config

```
<form-bean
  name="com.escenic.profile.presentation.struts.AbstractUserForm"
  type="com.escenic.profile.presentation.struts.AbstractUserForm"/>
```

Action Error

This form requires that userName and surname is set. If one is missing, the user should be notified.

`no_userName`
   (On the `userName` property.) The userName was not specified

`invalid_username`
   (On the `userName` property.) The username did not start with a letter

`no_surName`
   (On the `surName` property.) The surName was not specified

`AbstractUserForm` inherits properties from:

- `com.escenic.profile.presentation.struts.AbstractForm`

It also has the following properties of its own:

userName
String
  the username of the user

firstName
String
  the firstame of the user

surName
String
  the users surname

profiles
Profiles
  the profiles, containing additional user information

address
String
  the users address

phone
String
  the users phone number

mobilePhone
String
  the users mobile phone

email
String
  the users email

publicationId
String
  the publicationid of the profile. Returns -1 if it's a new profile

password
String
  the password

id
String
  the id of the profile. Returns -1 if it's a new profile

2.3   Profiles

A helper class to facilitate handling of several Profile objects. A Form may use a Profiles instance to handle lists of profiles.

Properties

Profiles inherits properties from:

- **`java.lang.Object`**

It also has the following properties of its own:

`item`
Profile
> Returns the Profile instance given the name. It is meant to be used from a JSP page, when using Map properties: For example form.Profiles(1).name would refer to the name of the profile. If the item does not exist, it will be created. This method, therefore, never returns null.

`keys`
List
> returns a list of keys that can be used to retrieve profiles. The List contains the names that can be used to retrieve each profile.

`size`
int
> returns the total count of Profile objects

2.4   Profile

A profile related to the user

Properties

`Profile` inherits properties from:

- **`java.lang.Object`**

It also has the following properties of its own:

`id`
String
> the id of the profile.Is -1 if the profile is not yet created

`attribute`
String
> the attribute defined by the given key

`attributeNames`
Set
> a set containing all the names of attributes added to the profile

`articleType`
String
> the articletype of the profile

`homeSectionId`
String
> the id of the homesection of the profile

2.5 DefaultUserForm

A default implementation of the AbstractUserForm

Defines that the email should be used as the username of the user

The form contains information about the user to create or update

Struts config

<form-bean
  name="com.escenic.profile.presentation.struts.DefaultUserForm"
  type="com.escenic.profile.presentation.struts.DefaultUserForm"/>

DefaultUserForm inherits properties from:

- **com.escenic.profile.presentation.struts.AbstractUserForm**

It has no properties of its own.

2.6 StandardUserForm

A standard implementation of the AbstractUserForm

Provide the same functionallity as DefaultUserForm, except that this form provide a separate user name that could be anything, not just the mail-address.

The form contains information about the user to create or update

Struts config

<form-bean
  name="com.escenic.profile.presentation.struts.StandardUserForm"
  type="com.escenic.profile.presentation.struts.StandardUserForm"/>

StandardUserForm inherits properties from:

- **com.escenic.profile.presentation.struts.AbstractUserForm**

It has no properties of its own.

2.7 LoginForm

A form that collects user data needed when logging in a user

The properties describes below are all settable from the html form in the jsp page.

The form contains information about the userName and password of the user.

Struts config

```
<form-bean
  name="com.escenic.profile.presentation.struts.LoginForm"
  type="com.escenic.profile.presentation.struts.LoginForm"/>
```

Action Error

This form requires that userName and password is set. If one is missing, the user should be notified.

no_userName
(On the **userName** property.) The userName was not specified

no_password
(On the **password** property.) The password was not specified

LoginForm inherits properties from:

- **com.escenic.profile.presentation.struts.AbstractForm**

It also has the following properties of its own:

userName
String
the username of the user

password
String
the users password

2.8   PasswordForm

A form that collects user data needed when requesting a new password

The form contains the userName of the user requesting a new password.

When a new password is created, the password will be available in the password-property of the form.

Struts config

```
<form-bean
  name="com.escenic.profile.presentation.struts.PasswordForm"
  type="com.escenic.profile.presentation.struts.PasswordForm"/>
```

Action Error

This form requires that userName is set. If missing, the user should be notified.

no_userName
(On the **userName** property.) The userName was not specified

PasswordForm inherits properties from:

- **com.escenic.profile.presentation.struts.AbstractForm**

It also has the following properties of its own:

password
String
   the new password of the user

userName
String
   the username of the user

2.9   ValidateUserPasswordForm

A form that collects user data needed when requesting a new password

The form contains the userName and validateField of the user requesting a new password.

When a new password is created, the password will be available in the password-property of the form.

The form validates that user actually is a user and that both the username and emailaddress entered is the same as the one defined in the user itself before resetting the password. If this validation is not performed, it is possible for whoever to reset a password for whoever user.

If it's required to validate another field than the emailaddress, create a new subclass and override method **protected boolean hasValidField(Person p)**

Struts config

<form-bean
  name="com.escenic.profile.presentation.struts.ValidateUserPasswordForm"
  type="com.escenic.profile.presentation.struts.ValidateUserPasswordForm"/>

Action Error

This form requires that userName and validateField is set. If missing, the user should be notified.

no_userName
   (On the **userName** property.) The userName was not specified

no_email
   (On the **validateField** property.) The validateField was not specified

nameAndMailDoesNotMatch
   (On the **global** property.) The validateField was not specified

ValidateUserPasswordForm inherits properties from:

• **com.escenic.profile.presentation.struts.PasswordForm**

It has no properties of its own.

2.10   ChangePasswordForm

A form that collects data needed when requesting a change of password

The form contains the old and new password

Struts config

```
<form-bean
  name="com.escenic.profile.presentation.struts.ChangePasswordForm"
  type="com.escenic.profile.presentation.struts.ChangePasswordForm"/>
```

Action Error

This form requires that both old and new password is set. If missing, the user should be notified.

no_Password
   (On the **password** property.) The new password was not specified

no_Old_Password
   (On the **oldPassword** property.) The old password was not specified

ChangePasswordForm inherits properties from:

- **com.escenic.profile.presentation.struts.AbstractForm**

It also has the following properties of its own:

password
String
   the new password of the user

oldPassword
String
   the oldPassword of the user

2.11   DeleteProfileForm

A form contains the name of a profile which is to be deleted

The properties describes below are all settable from the html form in the jsp page.

The form contains information about the profile to delete

Struts config

```
<form-bean
  name="com.escenic.profile.presentation.struts.DeleteProfileForm"
  type="com.escenic.profile.presentation.struts.DeleteProfileForm"/>
```

Action Error

This form requires that title is set. If missing, the user should be notified.

no_title
   (On the **title** property.) The title was not specified

DeleteProfileForm inherits properties from:

- **com.escenic.profile.presentation.struts.AbstractForm**

It has no properties of its own.

2.12   SearchForm

Struts config

<form-bean
 name="com.escenic.search.SearchForm"
 type="com.escenic.search.SearchForm"/>

Action Error

This are the errors returned by the validate method found on this action form.

errors.required
   (On the **pageLength** property.) when a value is missing for this property

errors.integer
   (On the **pageLength** property.) when the value of this property can't be
   converted to a integer

errors.minvalue
   (On the **pageLength** property.) when the value of this property is less or
   equal to '0'

errors.required
   (On the **pageNumber** property.) when a value is missing for this property

errors.integer
   (On the **pageNumber** property.) when the value of this property can't be
   converted to a integer

errors.minvalue
   (On the **pageNumber** property.) when the value of this property is smaller
   than '1'

errors.required
   (On the **pageLength** property.) when a value is missing for this property

errors.integer
   (On the **pageLength** property.) when the value of this property can't be
   converted to a integer

errors.minvalue
(On the **pageLength** property.) when the value of this property is less or equal to '0'

SearchForm inherits properties from:

- **com.escenic.tools.struts.ValidateForm**

It also has the following properties of its own:

pageLength
String
The number of search hits to show on each result page.; default value=10

pageNumber
String
the page in the search result we want to display.; default value=1

searchEngineName
String
The name of the search engine to use for search. When no name is given the default search engine configured by the system will be used.; default value='null'

publicationId
String
The publication to search; default value='null'

2.13 ArticleSearchForm

This is the abstract super class of all article search forms.

Struts config

<form-bean
 name="com.escenic.search.ArticleSearchForm"
 type="com.escenic.search.ArticleSearchForm"/>

Action Error

This are the errors returned by the validate method found on this action form.

errors.integer
(On the **includeSectionId** property.) when the value of this property can't be converted to a integer

errors.required
(On the **includeSubSections** property.) when a value is missing for this property

errors.integer
(On the **excludeSectionId** property.) when we are not able to produce a Integer.

errors.required
(On the **maxRows** property.) when a value is missing for this property

errors.integer
(On the **maxRows** property.) when the value of this property can't be converted to a integer

errors.required
(On the **optimized** property.) when a value is missing for this property

ArticleSearchForm inherits properties from:

- **com.escenic.search.SearchForm**

It also has the following properties of its own:

includeSectionId
String[]
The list over sections that is to be included. The list is made up of Strings that can be converted to Integers.

includeSubSections
String
Should we include sub sections in the search.; default value=false

excludeSectionId
String[]
The list over sections that is to be excluded. The list is made up of Strings that can be converted to Integers.

articleType
String[]
The Array of article types to be included in the search.; default value=an empty array, meaning that all article types is to be included

sortString
String
The String used for deciding the sort order.; default value=an empty String.

sortStrings
List
A list used to prepopulate the sortString properties. The list contains all legal values for the sortString property.

descending
String
Should we sort decending or ascending.

maxRows
String
the number of rows to return from the database.; default value=-1

searchType
String
the search type

searchTypes
List
A list used to prepopulate the searchType properties. The list contains all legal values for the searchType property.

optimized
String
the optimized property

stemType
String
the stem type property

stemTypes
List
A list used to prepopulate the stemType properties. The list contains all legal values for the stemType property.

2.14   SimpleSearchForm

This is the search action form to use when you want to create a simple search.

Struts config

<form-bean
 name="simpleSearchForm"
 type="com.escenic.search.SimpleSearchForm"/>

Action Error

This are the errors returned by the validate method found on this action form.

errors.required
(On the **searchString** property.) when a value is missing for this property

SimpleSearchForm inherits properties from:

- **com.escenic.search.ArticleSearchForm**

It also has the following properties of its own:

searchString
String
 the string used when searching

2.15 AdvancedSearchForm

This is the search action form to use when you want to create a advanced search page.

Struts config

<form-bean
 name="advancedSearchForm"
 type="com.escenic.search.AdvancedSearchForm"/>

Action Error

This are the errors returned by the validate method found on this action form.

errors.required
 (On the **searchExpression** property.) when a value is missing for this property

errors.required
 (On the **startDay** property.) when a value is missing for this property

errors.integer
 (On the **startDay** property.) when the value of this property can't be converted to a integer

errors.range
 (On the **startDay** property.) when the value of this property is not between '1' and '31'

errors.required
 (On the **startMonth** property.) when a value is missing for this property

errors.integer
 (On the **startMonth** property.) when the value of this property can't be converted to a integer

errors.range
 (On the **startMonth** property.) when the value of this property is not between '0' and '11'

errors.required
 (On the **startYear** property.) when a value is missing for this property

errors.integer
 (On the **startYear** property.) when the value of this property can't be converted to a integer

errors.range
(On the **startYear** property.) when the value of this property is not between '0' and '{@link Integer#MAX_VALUE}'

errors.date
(On the **fromDate** property.) when we are not able to produce a date.

errors.required
(On the **toDay** property.) when a value is missing for this property

errors.integer
(On the **toDay** property.) when the value of this property can't be converted to a integer

errors.range
(On the **toDay** property.) when the value of this property is not between '1' and '31'

errors.required
(On the **toMonth** property.) when a value is missing for this property

errors.integer
(On the **toMonth** property.) when the value of this property can't be converted to a integer

errors.range
(On the **toMonth** property.) when the value of this property is not between '0' and '11'

errors.required
(On the **toYear** property.) when a value is missing for this property

errors.integer
(On the **toYear** property.) when the value of this property can't be converted to a integer

errors.range
(On the **toYear** property.) when the value of this property is not between '0' and '11'

errors.date
(On the **toDate** property.) when we are not able to produce a date.

AdvancedSearchForm inherits properties from:

- **com.escenic.search.ArticleSearchForm**

It also has the following properties of its own:

all (read/write)
String
All the words written here must be present in the article to get a hit.

exactPhrase (read/write)
String
   All words written here will be searched for as a phrase.

atLeastOne (read/write)
String
   At least one of these words must be present.

without (read/write)
String
   These words must NOT be present.

startDay (read/write)
String
   The day on which to start searching; default value=1

startMonth (read/write)
String
   The month on which to start searching; default value=0

startYear (read/write)
String
   The year on which to start searching; default value=current year

toDay (read/write)
String
   The day on which to stop searching; default value=1

toMonth (read/write)
String
   The month on which to stop searching; default value=0

toYear (read/write)
String
   The year on which to stop searching; default value=0

days (read-only)
List
   A list used to prepopulate the startDay and toDay properties. The list contains all values in the range from '1' to '31'. Both 'label' and 'value' is the number representation of the day of the month.

months (read-only)
List
   A list used to prepopulate the startMonth and toMonth properties. The list contains all values in the range from '0' to '11'. Both 'label' and 'value' is the number representation of the month of the year.

years (read-only)
List
   A list used to prepopulate the startYear and toYear properties. The list contains all values in the range from '1990' to 'currentYear'. Both 'label' and 'value' is the number representation of the year.

3 Actions

3.1   AbstractProfileAction

A base class which has behaviour and properties which are common to all actions

It requires an AbstractForm and is responsible for forwarding the request to the approtiate forward according to the result of the action.

If the action is a success, it forwards to the targetUrl,if defined, or success.

If the action fails, the request is forwarded to errorUrl,if defined, or input page

Struts config

```
<action path="/some/path/AbstractProfileAction"
  type="com.escenic.profile.presentation.struts.AbstractProfileAction"
  name=""
  input="/some/path/AbstractProfileAction-input.jsp"
  validate="true">
</action>
```

Action Forwards

3.2   AddUserAction

Creates a new user in escenic based on the values defined in the form. It creates both the user and profiles

Struts config

```
<action path="/newUser"
  type="com.escenic.profile.presentation.struts.AddUserAction"
  name="UserForm"
  input="/newUser-input.jsp"
  validate="true">

  <forward name="success"
        path="/newUser-success.jsp"/>
</action>
```

Action Form

This action can be used with the following form:

`com.escenic.profile.presentation.struts.AbstractUserForm`
    The form containing the userdata

Action Forwards

input page
    If the user couldn't be created.

`success`
    If the user was successfully created

Action Error

If creating the user fails, an error will be logged, and the action will be
forwarded to the input-page.

`create_user_failed`
    (On the `global` property.) If creating user failes

3.3   LoginAction

Logs a user in to escenic

Struts config

```
<action path="/login"
 type="com.escenic.profile.presentation.struts.LoginAction"
 name="LogonForm"
 input="/login-input.jsp"
 validate="true">

  <forward name="success"
       path="/login-success.jsp"/>
</action>
```

Action Form

This action can be used with the following form:

`com.escenic.profile.presentation.struts.LoginForm`
    The form contains information about the username and password to use
    when performing a login

Action Forwards

input page
    If the user couldn't be logged in

`success`
    If login was successfull.

Action Error

If login fails,an error will be logged and the action will be forwarded to the input-page and the user should be notified about what went wrong.

login_failed
    (On the **global** property.) If logon fails

login_failed_other
    (On the **global** property.) If logon fails due to unforseen events

login_failed_account_expired
    (On the **global** property.) If logon fails due to an expired account

3.4   NewPasswordAction

Resets the password of the given user

Struts config

```
<action path="/newPassword"
 type="com.escenic.profile.presentation.struts.NewPasswordAction"
 name="PasswordForm"
 input="/newPassword-input.jsp"
 validate="true">

  <forward name="success"
        path="/newPassword-success.jsp"/>
</action>
```

Action Form

This action can be used with the following form:

com.escenic.profile.presentation.struts.PasswordForm
    The form contains information about the user which requires a new password

Action Forwards

input page
    If the password couldn't be reset

success
    If reset was a success.

Action Error

If resetting password fails, an error will be logged, and the action will be forwarded to the input-page.

reset_password_failed
(On the **global** property.) If resetting password failes

3.5   SetPasswordAction

Resets the password of the current user. This can only be done in a logged-in context

Struts config

<action path="/setPassword"
 type="com.escenic.profile.presentation.struts.SetPasswordAction"
 name="ChangePasswordForm"
 input="/setPassword-input.jsp"
 validate="true">

  <forward name="success"
       path="/setPassword-success.jsp"/>
</action>

Action Form

This action can be used with the following form:

com.escenic.profile.presentation.struts.ChangePasswordForm
The form contains information about the new password

Action Forwards

input page
If the password couldn't be updated

success
If update was a success.

Action Error

If updating password fails, an error will be logged, and the action will be forwarded to the input-page.

set_password_failed
(On the **global** property.) If updating password failes

3.6   AuthenticatedAction

Some actions, such as for instance updating a users profile, should be done in context of a logged in user.

This action is an abstract superclass which ensures that a user is logged in before being able to perform the requested task. Subclasses needs to

implement one method, `performAuthenticated` , to take advantage of user authentication.

The action ensures that the user is logged in before invoking the abstract method `performAuthenticated` which performs the requested action.

The abstract method `performAuthenticated` obeys the same contract as Action#execute.

Struts config

```
<action path="/doSomeThingAuthenticated"
 type="com.escenic.profile.presentation.struts.AuthenticatedAction"
 name="SomeForm"
 input="/doSomeThingAuthenticated-input.jsp"
 validate="true">

 <forward name="success"
       path="/doSomeThingAuthenticated-success.jsp"/>
</action>
```

Action Forwards

input page
not-logged-in if the user was not logged in

`success`
If user is autenticated.

3.7 AuthenticatedForwardAction

This action ensures the user is logged in before forwarding the request to the success-mapping. If the user is not logged in, the user will be forwarded to "not-logged-in" mapping

Struts config

```
<action path="/doSomeThingAuthenticated"
 type="com.escenic.profile.presentation.struts.AuthenticatedForwardAction"
 name="com.escenic.tools.struts.ForwardForm"
 input="/doSomeThingAuthenticated-input.jsp"
 validate="true">

 <forward name="success"
       path="/doSomeThingAuthenticated-success.jsp"/>
</action>
```

Action Forwards

input page
not-logged-in if the user was not logged in

success
If user is autenticated.

3.8 PopulateUserAction

Populates a form with data of the currently logged in user. This action does not lock the user when loaded.

Struts config

```
<action path="/populateUser"
 type="com.escenic.profile.presentation.struts.PopulateUserAction"
 name="UserForm"
 input="/populateUser-input.jsp"
 validate="true">

  <forward name="success"
        path="/populateUser-success.jsp"/>

  <forward name="not-logged-in"
        path="/populateUser-not-logged-in.jsp"/>
</action>
```

Action Form

This action can be used with the following form:

com.escenic.profile.presentation.struts.AbstractUserForm
The form is populated with data from the user

Action Forwards

input page
If the user couldn't be loaded.

success
If the user was successfully loaded

not-logged-in
If user is not logged in

Action Error

If loading the user fails, an error will be logged, and the action will be forwarded to the input-page.

user_error
(On the **global** property.) If loading user failes failes

3.9   UpdateUserAction

Updates the logged in user with the values defined in the form. It both updates existing profiles and creates new profiles if user has added a new profile. The userName will not be updated using this action as this is a readonly value.

Struts config

```
<action path="/updateUser"
 type="com.escenic.profile.presentation.struts.UpdateUserAction"
 name="UserForm"
 input="/updateUser-input.jsp"
 validate="true">

 <forward name="success"
       path="/updateUser-success.jsp"/>

 <forward name="not-logged-in"
       path="/updateUser-not-logged-in.jsp"/>
</action>
```

Action Form

Below is a list of the Action Forms known to work with this Action. All of these Action Forms is a instance of {@link AbstractUserForm}.

DefaultUserForm
   Implementation which uses the email as username.

StandardUserForm
   Implementation which uses a separate field as username.

Action Forwards

input page
   If the user couldn't be updated.

success
   If the user was successfully updated

not-logged-in
   If user is not logged in

Action Error

If updating the user fails, an error will be logged, and the action will be forwarded to the input-page.

update_user_failed
   (On the `global` property.) If updating user failes

3.10   DeleteUserAction

Deletes the current user. The user will also be logged out of escenic as the user no longer has an available account.

Struts config

```
<action path="/deleteUser"
 type="com.escenic.profile.presentation.struts.DeleteUserAction"
 name=""
 input="/deleteUser-input.jsp"
 validate="true">

 <forward name="success"
       path="/deleteUser-success.jsp"/>

 <forward name="not-logged-in"
       path="/deleteUser-not-logged-in.jsp"/>
</action>
```

Action Forwards

input page
    If the user couldn't be deleted.

`success`
    If the user was successfully deleted

`not-logged-in`
    If user is not logged in

Action Error

If deleting the user fails, an error will be logged, and the action will be forwarded to the input-page.

`could_not_delete_user`
    (On the `global` property.) If deleting user failes

3.11   DeleteProfileAction

Deletes a named profile from current user

Struts config

```
<action path="/deleteProfile"
 type="com.escenic.profile.presentation.struts.DeleteProfileAction"
 name=""
 input="/deleteProfile-input.jsp"
 validate="true">
```

```
<forward name="success"
        path="/deleteProfile-success.jsp"/>

<forward name="not-logged-in"
        path="/deleteProfile-not-logged-in.jsp"/>
</action>
```

Action Forwards

input page
If the profile couldn't be deleted.

success
If the profile was successfully deleted

not-logged-in
If user is not logged in

Action Error

If deleting the profile fails, an error will be logged, and the action will be forwarded to the error page.

couldNotFindProfile
(On the `global` property.) If the profile to delete could not be found

couldNotDeleteProfile
(On the `global` property.) If the profile couldn't be deleted

3.12   LogoffAction

Logs off currently logged in user. The session will still be valid, but the user will no longer be able to do authenticated actions

Struts config

```
<action path="/logoff"
 type="com.escenic.profile.presentation.struts.LogoffAction"
 name="LogoffForm"
 input="/logoff-input.jsp"
 validate="true">

 <forward name="success"
        path="/logoff-success.jsp"/>
</action>
```

Action Form

This action can be used with the following form:

com.escenic.profile.presentation.struts.LogoffForm
Contains forwarding information

Action Forwards

success
    If logoff was a success

3.13   SearchAction

This is the component that does the actual search. The Search Action component will work with different Action forms. The only requirement is that all action forms are an instance of the Search Form class.

To provide a simple and an advanced search will you need to configure the SearchAction class twice in struts-config.xml. One for each form you will use.

Struts config

```
<action path="/search/simple"
 type="com.escenic.search.SearchAction"
 name="simpleSearchForm"
 input="/search/simple-input.jsp"
 validate="true">

 <forward name="success"
      path="/search/simple-success.jsp"/>
</action>
```

Action Form

Below is a list of the Action Forms known to work with this Action. All of these Action Forms is a instance of SearchForm.

com.escenic.search.SearchForm
    This is the Abstract Super class for all SearchForms.

com.escenic.search.SimpleSearchForm
    Use this Action Form when you want to create a simple search.

com.escenic.search.AdvancedSearchForm
    Use this Action Form when you want to create a advanced search.

Action Forwards

This is a list of the action forwards used by this Action.

input page
    When an error or something that requires the system to give the user a message, is the input parameter used. This forward can be overridden by providing a value for the 'input' property on the Action Form.

success

    This forward is used when we have a result to display. Even a empty result is a result. This forward can be overridden by providing a value for the 'result' property on the Action Form.

Request attribute

The following request attributes are made available on the forwarded page.

result

    This attribute is of type `com.escenic.search.ResultPage`. The list of hits for this search.

Action Error

This is a list of the errors that can be created by this action.

errors.form

    (On the `ActionErrors.GLOBAL_ERROR` property.) When the Action Form provided is of the wrong type. {0} represents the provided Action Form, {1} the expected type.