

6WTagger Integration - Principles

Technical Article

Abstract

This article presents the 6WTagger, the **3DEXPERIENCE** platform component dealing with the filtering by tags. Global concepts are explained as well the principles when the filtering is about widget content's.

- Objective
- 6WTag
 - Subject/predicate/object Statement
 - Implicit versus Explicit
- 6WTagger Component
 - 6WTags Selector
 - Date Filtering
 - User-Defined Tags Creation
 - Widget 6WTags
 - Widget Filtering
- Refinement
 - 6WTagger Filtering
 - Server Side Filtering
 - Refinement Algorithm
- In Short
- References
- History

Objective

Before starting the technical explanations, let's see the matter of this article.

Imagine you have a widget displaying a list of communities. Since the count can far exceed the quantity of information that an end user can handle, trying to display all of them can be at least painful, but worse, useless, because the end user will not know how to retrieve the right community among all of them.

The common answer is the **filtering** based on the **tag** concept. The elements to filter own tags. A tag is a data associated with the element to represent as its type, its shape, its owner, or whichever data which can 'classify' the element. When those tags are presented to the end-user, he/she can do a **refinement** by selecting some of them.

In our example, when the end-user clicks tags, the widget only displays the communities matching the end-user's criteria.

In the **3DEXPERIENCE** platform, the filtering management is attributed to the **6WTagger**. It presents the tags to the end-users, gives them the possibility to make a refinement, and finally informs the widgets to adapt their contents accordingly to the end-user choice.

This article explains **how your own widget** can take benefit of the **6WTagger** integration.

It first explains in details what a **6WTag** - a tag in the **3DEXPERIENCE** platform context- is. Then it describes the UI of the **6WTagger**, and its role for widgets. Finally, it presents the **refinement** principles, and the exchanged data between the 6WTagger and widgets.



6WTag

A tag is a key element to a large proportion of web sites. It is the means for end-users to easily search for objects behind all web's links. On another hand, it is the means for object owners to perform a sort of classification.

In the **3DEXPERIENCE** platform context, a tag is named a **6WTag** where 6W stands for "What, Who, How, Why, When, Where" as explained in this section. But first let's explain what a 6WTag as a tag is.



Subject/predicate/object Statement

A 6WTag expresses the relationship between two entities: a subject and an object. So such a tag is a statement composed of three elements:

- A **subject**, something representing a data
- An **object**, something representing another data.
- A **predicate** representing the kind of relationship between them

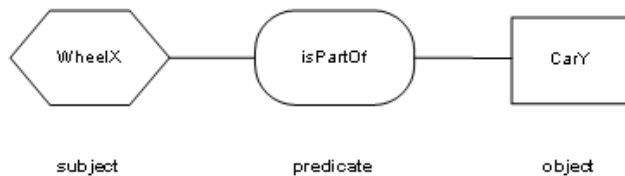
A 6WTag is also known as a *triple*.

So instead of a simple string associated with a subject, we have a richer statement:

- The object can be more sophisticated than a literal,
- Thanks to the semantic associated with the predicate.

Such a way is more robust and aligns with concepts of Resource Data Framework (RDF) [1].

Let's take a basic example:



It states: the Wheel X (subject) is part of (predicate) the Car Y (object).

Below some 6WTags using this (extended) mechanical example:

- {Wheel1, isPartOf, Car1}
- {Wheel1, isPartOf, Axle2}
- {Wheel1, isLocated, left}
- {Wheel2, isLocated, right}
- {Windshield1, isLocated, front}
- {Windshield1, isPartOf, Car1}
- {Windshield2, isPartOf, Truck3}

The same subject can be part of several 6WTags, and the same predicate as the same object can be associated with different subjects.

Now, let's see in details what these elements are, and their format.



About the Subject

The subject represents a data usually hosted on a server. So, in this case the subject is represented by its **Uniform Resource Identifier** [2] to identify precisely the data on the server.

3DEXPERIENCE platform examples (*):

- For 3DSpace : "pid:B8485.2939.1992.393" or "pid:R8485.2939.1992.393"
- For 3DSwym : "swym:4f5a7b73-dad2-4cf1-b0c3-355277a04136:OnPremise:post:Xl00f2Z4RNSvX523YTBqJA"

For non DS subjects, there is no constraint about the identifier format as long as it is compliant with API managing the subjects. Nevertheless, when 6WTags will be stored in one of our database rules of unicity should be applied. This point will be addressed in the 6WTag Edition article [3].

(*) The **3DEXPERIENCE** platform examples are not contractuel, they can change.



About the Object

The object is an element represented by an URI, or a literal. For the latter, in DS context, it can only be a literal which is a string or a date. For dates, the format is usually YYYY/MM/DD, but month and/or day can be omitted.



About the Predicate

For DS subjects a predicate is always an element from a **vocabulary** known to the **3DEXPERIENCE** platform.

Some examples:

- ds6w:owner
- ds6w:answer
- ds6w:skill
- ds6w:length

Among the predicates, some are called the 'roots'. There are six root predicates:

- ds6w:who
- ds6w:when
- ds6w:what
- ds6w:where
- ds6w:how
- ds6w:why

From this classification comes the 6WTag name.

New 6W predicates can be defined by extending the **3DEXPERIENCE** platform vocabulary. This capability - only valid for customized 3DSpace data model - is explained in the User Assistance documentation. Look for "Managing Vocabulary Files" to find articles about the topic. From 19xFD02, there are web services to import new 6W vocabularies. Such functionality is explained in the Developer Assistance [8] .

For non DS subjects, you can use predicates defined by vocabulary (yours or DS native) or not. For the latter a simple string is enough. In our use cases (see [7] for example), the predicate is "architect".

Pay attention about those string predicates:

- They are case sensitive. For the 6WTagger `responsible` is not `Responsible` (all predicates are case sensitive, defined in vocabulary or not).
- They cannot be translated. The 6WTagger translates a given predicate, if the latter is defined by vocabulary, and if translations exist.

6WTag and predicates

A 6WTag does not have only one predicate, it is a path of predicates where the first is necessary one among the **six** roots, and where each elementary predicate is separated by a slash:

Some examples:

- ds6w:what/ds6w:language
- ds6w:what/ds6w:social/ds6w:comments
- ds6w:what/ds6w:type
- ds6w:what/ds6w:category
- ds6w:where/ds6w:context/ds6w:community
- ds6w:where/architect
- ds6w:where/architect/french

The hierarchy defines a root-leaf classification:

- ds6w:what
 - ds6w:language
 - ds6w:social
 - ds6w:comments
 - ds6w:type
 - ds6w:category
- ds6w:where
 - ds6w:context
 - ds6w:community

The predicates of first level (roots) are also named "**categories**", while the others are named "**groups**".

Specify a valid root predicat is mandatory for the 6WTagger. It means the following 6WTags are not valid:

- architect
- architect/french
- ds6w:which/material

For the first two cases `ds6w:xxx/` is missing, and for the last case `ds6w:which` is not one among the 6 possible categories.



Implicit versus Explicit

Now we have seen what a 6WTag is, let's see where it comes from.

A 6WTag can come from the subject (stored in database or not), or it can have been created by the end-user.

From subjects

There are deduced from the attributes and the relationships associated with the subjects (stored in database or not). Such a tag is not physically stored somewhere, since it is deduced from existing subjects. Automatically extracted, they are also called **implicit** 6WTags.

From end-users

They are created interactively by the end-user. In this case, the created 6WTags are kept by a database known to the 6WTagger:

- An internal database for **3DSpace** subjects,
- The 6WTags server database for customer subjects.

By opposition to implicit, they are usually named **explicit** 6WTags. You will find more technical explanations about those tags in the referenced technical article [3].



6WTagger Component

The 6WTagger is the component managing 6WTags during a 3DEXPERIENCE platform session. From end-users point of view its role consists in displaying tags, letting them makes a refinement, and proposing them to create their own tags.

This chapter presents the two facets of the 6WTagger: its "front end" view (the UI part), and its "model view" (the background part interacting with widgets).

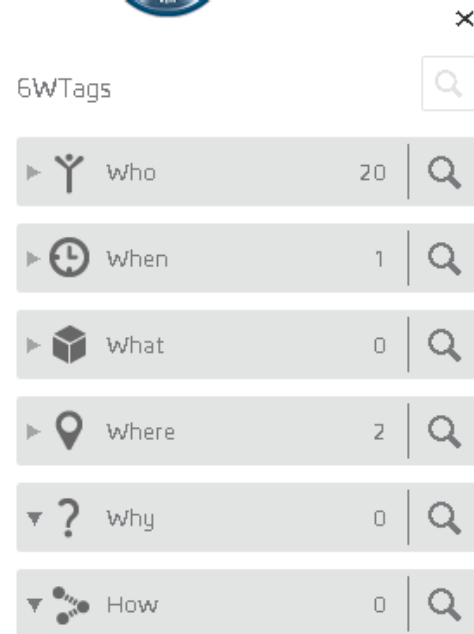


6WTags Selector

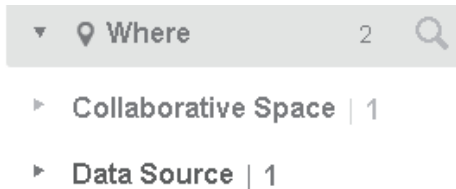
Interactively the 6WTagger shows up by clicking the 6WTag icon in the 3DEXPERIENCE top bar:



The following component appears:



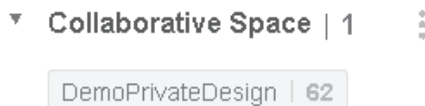
You recognize the six root predicates (categories) displayed with their display name: Who, When, What, Where, Why and How. Click one of them (*Where*), its group predicates appear beneath:



"Collaborative Space" is the display name of the group predicate "ds6w:collabspace". So the complete predicate is 'ds6w:where/ds6w:collabspace'.

Note: For a predicate with more than two levels deep, the 6WTagger only uses the leaf group predicate. For this predicate: 'ds6w:where/ds6w:context/ds6w:community', only the group predicate "ds6w:community" in the "ds6w:where" category is presented by the 6WTagger. As of today other intermediate predicates are not used.

Finally by clicking on a group predicate you got its objects:



There is one object (DemoPrivateDesign) associated with the "Collaborative Space" predicate.

For a predicate or an object you can observe on the right **a count** always computed by the 6WTagger based on its 6WTags.

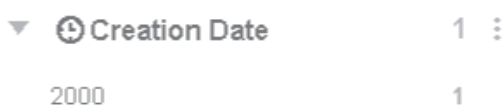
- For a *root predicate*, the number is the count of its sub predicates (including those of tags explicites). For example, for "Where" the count is "2" because below there are two predicates: "Collaborative Space" and "Data Source".
- For a *leaf predicate*, the number is the count of objects associated with the predicate. For example, there is one object (DemoPrivateDesign) associated with the "Collaborative Space" predicate.
- For an *object*, the number is the subject count. For example, it means the 6WTagger counts 62 subjects associated with the 'Collaborative Space' predicate and the "DemoPrivateDesign" object.



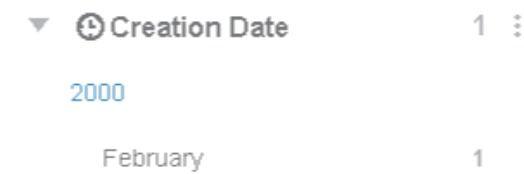
Date Filtering

When the object is a date each time part shows up progressively. Let's suppose the date: 2000/02/

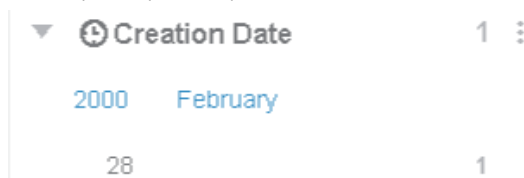
First the year is displayed:



When the year is selected, the month **as text** (deduced from the number) appears:



And finally the day shows up after the month selection.



We said again month and day can be optional, the object can be a year only, or a year and a month only.

Note: if the month value is not between 1 and 12 the displayed value is the "undefined" string.

User-Defined Tags Creation

Through the UI of the 6WTagger (see picture just below) end users can create their own tags for given subjects.

Add Tag

Who	When	What
Where	Why	How

Tag Name *

Add Tag

The user-defined tags editor is only visible if:

- The widget implements the feature. The principles, and how to proceed for your widget, are described in the referenced article [3].
- The widget is in maximized/fullscreen mode.
- Subjects - to associate the tags with - are firstly selected.

Widget 6WTags

The 6WTagger **keeps in memory** the 6WTags given by widgets. These widgets can be instantiated within different tab pages from different dashboards. For information if you are not comfortable with dashboard organization, read the "Dashboard App" section of the referenced article [4].

The 6WTagger is deleted when the 3DEXPERIENCE session is closed, and recreated empty (without previous 6WTags and previous potential selected tags) when the 3DDashboard application is reloaded (automatically or by the end-user). The widget reloading operation re-fills the 6WTagger.

The 6WTagger **displays** only the 6WTags coming from widgets of the current tab page of the current dashboard. To be more precise:

- If one particular widget is maximized (or fullscreen) [5], the tags displayed are those coming from that particular widget, and those only,
- Otherwise, if widgets are windowed or minimized, necessarily [5], the tags displayed are those of all widgets (of current tag page and current dashboard). Note that even tags for a minimized widget are displayed.

The 6WTagger component keeps all 6WTags, whether displayed or not. Therefore, when a widget is no more maximized, 6WTags for all widgets of the current tab page of the current dashboard are automatically displayed again.

Another example, if the end-user changes the current tab page or the current dashboard, then automatically the UI contents of the 6WTagger is refreshed based on the same above logic, but this time for widgets of the new tab page or the new dashboard, respectively.

Widget Filtering

When the end-user makes a tag selection **all** widgets (involved with the 6WTagger) of the current tab page of the current dashboard are informed, and thus wherever the selected tags come from. By consequence widgets can update their contents according to an refinement algorithm given at the end of the next chapter.

Nevertheless the impact (in term of widget scope) of the selection is different according to the dashboard configuration at the time of the selection. Let's explain the two possible configurations.

The dashboard contains at least one maximised (of fullscreen) widget

Tags selected in this configuraton are defined "local" to the widget. But the local filtering goes beyond the maximized/fullscreen mode. It means that whatever the rendering mode of this widget, the local 6WTags are part of its refinement filter. Nevertheless, once the widget is no more maximized/fullscreen, the 6WTagger removes those local selected tags from the UI since this filtering is not applicable for other widgets. The end-user is informed a widget can be filtered by more tags than those currently selected in the 6WTagger by a special icon in the widget top banner as shown by this picture:



The other widgets (those not currently maximized/fullscreen) are informed when a "local" selection is performed. But their refinement filter does not contain the local selected tags.

Otherwise, all widgets are windowed or minimized

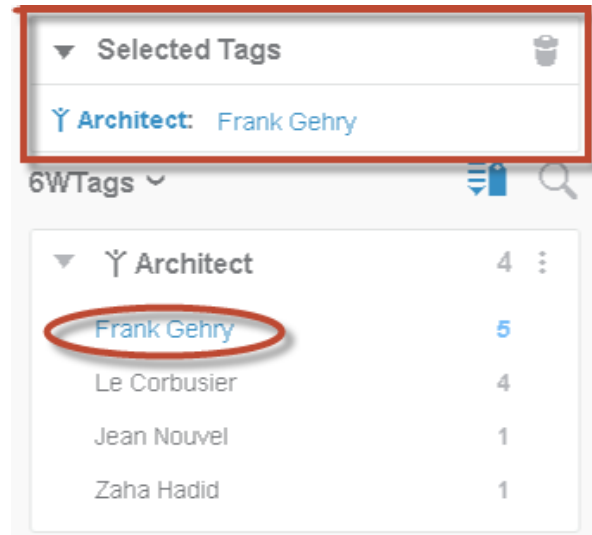
Tags selected in this configuration are applicable for all widgets, and even when they are maximised (of fullscreen). Their expected behavior is to filter their subjects accordingly to the selected tags. It can lead to display nothing if the refinement excludes all their own subjects.

To conclude, whatever the rendering mode of a widget, in case of tag selection, this widget is informed with a refinement filtering containing together:

- Its own local selected tags (if they exist),
- The global selected tags.

Refinement

When the end user selects tags among those displayed by the 6WTagger, he/she defines a **filter** to be applied to the subjects to refine the widget's contents.



The selected tags are displayed at the top of the 6WTagger. In the picture just above the object "Frank Gehry" associated with the group predicate "Architect" has been selected, and thus the couple object & predicate is presented in the "Selected Tags" part of the UI component.

About the subject filtering (also named refinement) there are two cases to consider: when the filtering is performed by the **6WTagger** itself, or when it is performed on **server side**. The choice, defined at the development stage, is made according to the data to filter.

This chapter details for each filtering type:

- The reason to use it,
- The data given by the widget to the 6WTagger,
- The data (*) provided by the 6WTagger to the widget after a tag selection.

But it does not explain how those data are exchanged between the 6WTagger and the widgets. This part is fully detailed in the "Filtering Protocol" section of the article dealing with the 6WTagger API [6].

(*) Note: The data provided by the 6WTagger can contain more elements than the ones presented in this article, or the others from the 6WTagger section of the Developer Assistance. The "extra" elements must be ignored.

6WTagger Filtering

When the set of subjects is small enough to upload them **all** efficiently from the database (or from file) to the client side, the subject filtering can be operated by the 6WTagger itself.

The **data given by the widget to the 6WTagger** is a **complete 6WTags** set: a set of {subject, predicate, object} statements. The JSON structure is as follows (in bold the static arguments):

```
{
  'subject-1-uri':[{'object'      : 'objValue',
                    'sixw'       : 'predicateValue', // Hierarchical path of the predicates URIs, from root 6W to used predicate
                    'dispValue' : 'objValueName',    // Display name of the object, can be empty (objValue as default).
                    'type'      : 'objValueType',    // date,string can be empty (string as default)
                    }, ... ],
  'subject-2-uri':[{...},{...}],
}
```

With this complete structure, the 6WTagger can display the tags, display the subject counts in the pictogram boxes, and perform the filtering after the end-user refinement. It means it can define the list of subjects matching the chosen tags.

Example partially constructed from pictures illustrating the 6WTags Selector section.

```
{
  'ENOVIA:8485.2939.1992.393':[{'object'      : 'demoprivatedesign',
                                'sixw'       : 'ds6w:where/ds6w:collabspac',
                                'dispValue' : 'DemoPrivateDesign',
                                'type'      : 'string',
                                }, {'object'   : 'pdd',
                                    'sixw'    : 'ds6w:who/ds6w:responsible',
                                    'dispValue' : 'Pierre Dupond',
                                    'type'     : 'string',
                                    }, ... ],
  'ENOVIA:8485.2939.1992.39A':[{...},{...}],
}
```

The first subject (one among the 62) is stored in the "demoprivatedesign" ("DemoPrivateDesign" in UI) collaborative space, and let's say its current responsible is "pdd" ("Pierre Dupond" in UI). The predicates ("sixw" key values) are issued from the DS vocabulary, so they are automatically translated by the 6WTagger.

After the end-user selection, the 6WTagger broadcasts an event with the result of the filtering (at least the list of subjects). The JSON structure of this data is as follows (in bold the static arguments):

```
{
  "allfilters": {
    "predicateValue1": [ {'object' : "objValueA", 'type' : "objValueType" } , {...},{...} ],
    "predicateValue2": [ {'object' : "objValueB", 'type' : "objValueType" } , {...},{...} ]
  },
}
```

```
    "filteredSubjectList": [ 'subject-1-uri', 'subject-2-uri', 'subject-3-uri', ...]
  }
```

The "filteredSubjectList" key value is an array containing the filtered subjets. In case of no subject matching the filtering criteria the array is empty (length is equal to zero). With this data widgets (those involved with the 6WTagger of the current tab page of the current dashboard) can refresh their UI accordingly.

Additionally, the selected predicates and their objects are provided. If there is no more selected tags (after a de-selection), the key "allfilters" exists but it is an empty JSON object. Here we do not insist on the predicate value, since for such kind of filtering, "allfilters" should be useless. Nevertheless, if you want some details about the contents of the predicate value, see the next section.

Example when DemoPrivateDesign is selected.

```
{
  "allfilters": {
    "ds6w:where/ds6w:collabspace": [ {"object" : "demoprivatedesign", "type" : "string" } ],
  },
  "filteredSubjectList": [ 'ENOVIA:8485.2939.1992.393', ...]
}
```

Server Side Filtering

When the set of subjects is huge the filtering by the 6WTagger becomes impossible. The subject filtering must be performed on the server side (or where your complete set of subjects is).

The **data given by the widget to the 6WTagger** is an array of elements formed for each of them by a group containing a predicate, an object, and the count of subjects having them. Logically a list of elements with such a structure {predicate, object, #subjects}. Implementatively a JSON array where each element of the array is a JSON object as follows:

```
{'object'      : 'objValue',
'sixw'        : 'predicateValue', // Hierarchical path of the predicates URIs, from root 6W to used predicate
'dispValue'   : 'objValueName',  // Display name of the object, can be empty (objValue as default).
'type'        : 'objValueType',   // date,string can be empty (string as default)
'count'       : #subjects
}
```

With this structure, named a summary, the 6WTagger can display predicates and objects, with the count of involved subjects for each of them, awhile the latters are not necessary uploaded to the client side.

Example partially constructed from pictures illutrating the 6WTags Selector section.

```
[{'object': 'demoprivatedesign','sixw': 'ds6w:where/ds6w:collabspace','dispValue' : 'DemoPrivateDesign', 'type' : 'string', 'count':62} ,
{'object': 'pdd','sixw': 'ds6w:who/ds6w:responsible','dispValue' : 'Pierre Dupond', 'type' : 'string', 'count':100},
{'object': '2017/03/30','sixw': 'ds6w:who/ds6w:created','dispValue' : '', 'type' : 'date', 'count':4},
...
]
```

After the end-user selection, the 6WTagger broadcasts an event with the filter to apply server side: It is the set of the selected 6WTags, in other words a set of {predicate, object} elements. The JSON structure is as follows (in bold the static arguments):

```
{
  "allfilters": {
    "predicateValue1": [ {"object" : "objValueA", "type" : "objValueType" } , {...},{...} ],
    "predicateValue2": [ {"object" : "objValueB", "type" : "objValueType" } , {...},{...} ]
  },
}
```

With this information widgets (those involved with the 6WTagger of the current tab page of the current dashboard) can make a search (server side) to look for subjects matching this filter, and then update their UI accordingly. As for the other type of filtering, if there is no more selected tags (after a de-selection), the key "allfilters" exists but it is an empty JSON object.

When the 6WTag object is a data, the "object" value is the selected part:

- If the year is selected, the value contains the year only,
- if the month is selected, the value contains the year and the month only,
- if the day is selected, the value is the complete date.

Note: The JSON data can contain the key "filteredSubjectList", but it is in case of explicit tag edition. See the Data Format/For Server Side Filtering section of the referenced article [3].

Example when DemoPrivateDesign is selected.

```
{
  "allfilters": {
    "ds6w:where/ds6w:collabspace": [ {"object" : "demoprivatedesign", "type" : "string" } ],
    "ds6w:where/ds6w:created": [ {"object" : "2017/03", "type" : "date" } ],
  }
}
```

Note for the date, the object value (2017/03) is not the value set as input (2017/03/30), but the part of the object really selected.

Refinement Algorithm

The logic is as follows:

- OR between objects of the same predicate.
- AND between objects of different predicates.

Let's see an example with 4 subjects (first column) and 4 predicates (other columns):

Subject	Who:Architect	Who:Owner	When: Creation Date	When:Last Renovation Date
House1	Jean Nouvel	Bank A	2000/03/30	2010/05/14
House2	Jean Nouvel	Bank A	1980/03	2000/05
House3	Franck Gehry	Bank A	2000/03	2005/12
House4	Franck Gehry	Bank B	2000/05	2005/09

Let's see the expected filtering according to different selected tags:

- Who:Architect/Jean Nouvel
House1,House2
- Who:Architect/Jean Nouvel + Who:Architect/Franck Gehry
House1,House2,House3, House4
- Who:Architect/Franck Gehry + Who:owner/Bank A

House3

- Who:Architect/Jean Nouvel + Who:Architect/Franck Gehry + When:Last Renovation Date/2005

House3, House4

- Who:Architect/Jean Nouvel + Who:owner/Bank A + When: Creation Date/2000

House1

- When: Creation Date/2000

House1, House3, House4

- When: Creation Date/2000/03

House1, House3

- When: Creation Date/2000/03/30

House1



In Short

The reader can continue with the article dealing with the APIs. You will learn what a widget must do to implement the 6WTagger protocol.



References

- [1] Resource description framework
- [2] Uniform resource identifier
- [3] 6WTag Edition
- [4] 3DEXPERIENCE Applications
- [5] Widget Object
- [6] 6WTagger Integration - APIs
- [7] Implementing 6WTagger Filtering
- [8] About 6W Vocabulary Web Services



History

Version: **1** [August 2014] Document created

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The common answer is the **filtering** based on the **tag** concept. The elements to filter own tags. A tag is a data associated with the element to represent as its type, its shape, its owner, or whichever data which can 'classify' the element. When those tags are presented to the end-user, he/she can do a **refinement** by selecting some of them.

In our example, when the end-user clicks tags, the widget only displays the communities matching the end-user's criteria.

In the **3DEXPERIENCE** platform, the filtering management is attributed to the **6WTagger**. It presents the tags to the end-users, gives them the possibility to make a refinement, and finally informs the widgets to adapt their contents accordingly to the end-user choice.

This article explains **how your own widget** can take benefit of the **6WTagger** integration.

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6WTag

A tag is a key element to a large proportion of web sites. It is the means for end-users to easily search for objects behind all web's links. On another hand, it is the means for object owners to perform a sort of classification.

In the **3DEXPERIENCE** platform context, a tag is named a **6WTag** where 6W stands for "What, Who, How, Why, When, Where" as explained in this section. But first let's explain what a 6WTag as a tag is.

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A 6WTag expresses the relationship between two entities: a subject and an object. So such a tag is a statement composed of three elements:

- A **subject**, something representing a data
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A 6WTag is also known as a *triple*.

So instead of a simple string associated with a subject, we have a richer statement:

- The object can be more sophisticated than a literal,
- Thanks to the semantic associated with the predicate.

Such a way is more robust and aligns with concepts of Resource Data Framework (RDF) [1].

Let's take a basic example:



It states: the Wheel X (subject) is part of (predicate) the Car Y (object).

Below some 6WTags using this (extended) mechanical example:

- {Wheel1, isPartOf, Car1}
- {Wheel1, isPartOf, Axle2}
- {Wheel1, isLocated, left}
- {Wheel2, isLocated, right}
- {Windshield1, isLocated, front}
- {Windshield1, isPartOf, Car1}
- {Windshield2, isPartOf, Truck3}

The same subject can be part of several 6WTags, and the same predicate as the same object can be associated with different subjects.

Now, let's see in details what these elements are, and their format.

About the Subject

The subject represents a data usually hosted on a server. So, in this case the subject is represented by its **Uniform Resource Identifier** [2] to identify precisely the data on

the server.

3DEXPERIENCE platform examples (*):

- For 3DSpace : "pid:B8485.2939.1992.393" or "pid:R8485.2939.1992.393"
- For 3DSwym : "swym:4f5a7b73-dad2-4cf1-b0c3-355277a04136:OnPremise:post:Xl00f2Z4RNSvX523YTBqJA"

For non DS subjects, there is no constraint about the identifier format as long as it is compliant with API managing the subjects. Nevertheless, when 6WTags will be stored in one of our database rules of unicity should be applied. This point will be addressed in the 6WTag Edition article [3].

(*) The **3DEXPERIENCE** platform examples are not contractuel, they can change.



About the Object

The object is an element represented by an URI, or a literal. For the latter, in DS context, it can only be a literal which is a string or a date. For dates, the format is usually YYYY/MM/DD, but month and/or day can be omitted.



About the Predicate

For DS subjects a predicate is always an element from a **vocabulary** known to the **3DEXPERIENCE** platform.

Some examples:

- ds6w:owner
- ds6w:answer
- ds6w:skill
- ds6w:length

Among the predicates, some are called the 'roots'. There are six root predicates:

- ds6w:who
- ds6w:when
- ds6w:what
- ds6w:where
- ds6w:how
- ds6w:why

From this classification comes the 6WTag name.

New 6W predicates can be defined by extending the **3DEXPERIENCE** platform vocabulary. This capability - only valid for customized 3DSpace data model - is explained in the User Assistance documentation. Look for "Managing Vocabulary Files" to find articles about the topic. From 19xFD02, there are web services to import new 6W vocabularies. Such functionality is explained in the Developer Assistance [8] .

For non DS subjects, you can use predicates defined by vocabulary (yours or DS native) or not. For the latter a simple string is enough. In our use cases (see [7] for example), the predicate is "architect".

Pay attention about those string predicates:

- They are case sensitive. For the 6WTagger `responsible` is not `Responsible` (all predicates are case sensitive, defined in vocabulary or not).
- They cannot be translated. The 6WTagger translates a given predicate, if the latter is defined by vocabulary, and if translations exist.

6WTag and predicates

A 6WTag does not have only one predicate, it is a path of predicates where the first is necessary one among the **six** roots, and where each elementary predicate is separated by a slash:

Some examples:

- ds6w:what/ds6w:language
- ds6w:what/ds6w:social/ds6w:comments
- ds6w:what/ds6w:type
- ds6w:what/ds6w:category
- ds6w:where/ds6w:context/ds6w:community
- ds6w:where/architect
- ds6w:where/architect/french

The hierarchy defines a root-leaf classification:

- ds6w:what
 - ds6w:language
 - ds6w:social
 - ds6w:comments
 - ds6w:type
 - ds6w:category
- ds6w:where
 - ds6w:context
 - ds6w:community

The predicates of first level (roots) are also named "**categories**", while the others are named "**groups**".

Specify a valid root predicat is mandatory for the 6WTagger. It means the following 6WTags are not valid:

- architect
- architect/french
- ds6w:which/material

For the first two cases `ds6w:xxx/` is missing, and for the last case `ds6w:which` is not one among the 6 possible categories.



Implicit versus Explicit

Now we have seen what a 6WTag is, let's see where it comes from.

A 6WTag can come from the subject (stored in database or not), or it can have been created by the end-user.

From subjects

There are deduced from the attributes and the relationships associated with the subjects (stored in database or not). Such a tag is not physically stored somewhere, since it is deduced from existing subjects. Automatically extracted, they are also called **implicit** 6WTags.

From end-users

They are created interactively by the end-user. In this case, the created 6WTags are kept by a database known to the 6WTagger:

- An internal database for **3DSpace** subjects,
- The 6WTags server database for customer subjects.

By opposition to implicit, they are usually named **explicit** 6WTags. You will find more technical explanations about those tags in the referenced technical article [3].



6WTagger Component

The 6WTagger is the component managing 6WTags during a 3DEXPERIENCE platform session. From end-users point of view its role consists in displaying tags, letting them makes a refinement, and proposing them to create their own tags.

This chapter presents the two facets of the 6WTagger: its "front end" view (the UI part), and its "model view" (the background part interacting with widgets).

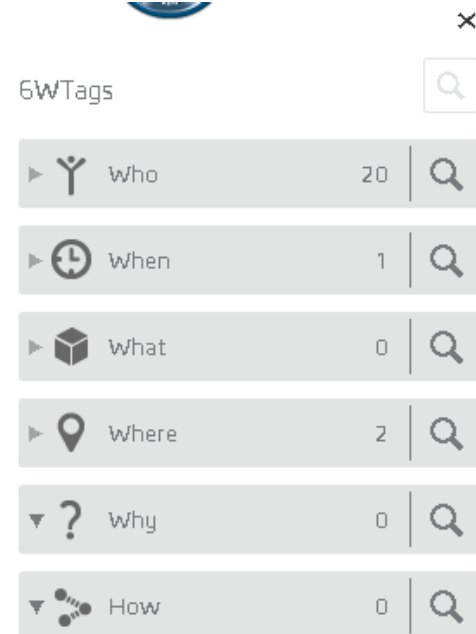


6WTags Selector

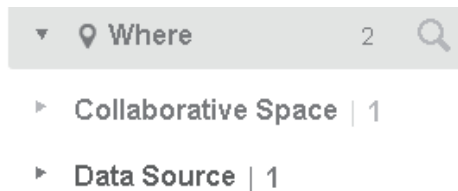
Interactively the 6WTagger shows up by clicking the 6WTag icon in the 3DEXPERIENCE top bar:



The following component appears:



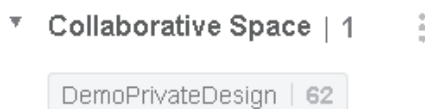
You recognize the six root predicates (categories) displayed with their display name: Who, When, What, Where, Why and How. Click one of them (*Where*), its group predicates appear beneath:



"Collaborative Space" is the display name of the group predicate "ds6w:collabspace". So the complete predicate is 'ds6w:where/ds6w:collabspace'.

Note: For a predicate with more than two levels deep, the 6WTagger only uses the leaf group predicate. For this predicate: 'ds6w:where/ds6w:context/ds6w:community', only the group predicate "ds6w:community" in the "ds6w:where" category is presented by the 6WTagger. As of today other intermediate predicates are not used.

Finally by clicking on a group predicate you got its objects:



There is one object (DemoPrivateDesign) associated with the "Collaborative Space" predicate.

For a predicate or an object you can observe on the right **a count** always computed by the 6WTagger based on its 6WTags.

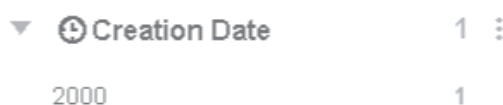
- For a *root predicate*, the number is the count of its sub predicates (including those of tags explicites). For example, for "Where" the count is "2" because below there are two predicates: "Collaborative Space" and "Data Source".
- For a *leaf predicate*, the number is the count of objects associated with the predicate. For example, there is one object (DemoPrivateDesign) associated with the "Collaborative Space" predicate.
- For an *object*, the number is the subject count. For example, it means the 6WTagger counts 62 subjects associated with the 'Collaborative Space' predicate and the "DemoPrivateDesign" object.



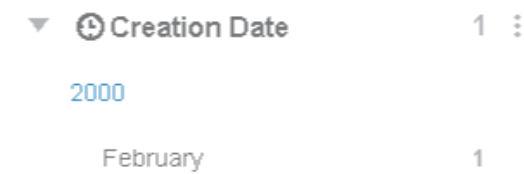
Date Filtering

When the object is a date each time part shows up progressively. Let's suppose the date: 2000/02/

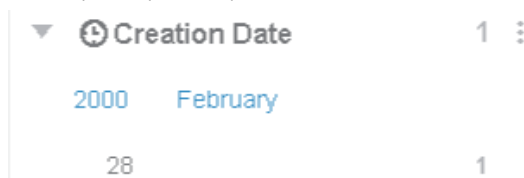
First the year is displayed:



When the year is selected, the month **as text** (deduced from the number) appears:



And finally the day shows up after the month selection.



We said again month and day can be optional, the object can be a year only, or a year and a month only.

Note: if the month value is not between 1 and 12 the displayed value is the "undefined" string.

User-Defined Tags Creation

Through the UI of the 6WTagger (see picture just below) end users can create their own tags for given subjects.

Add Tag

Who	When	What
Where	Why	How

Tag Name *

Add Tag

The user-defined tags editor is only visible if:

- The widget implements the feature. The principles, and how to proceed for your widget, are described in the referenced article [3].
- The widget is in maximized/fullscreen mode.
- Subjects - to associate the tags with - are firstly selected.

Widget 6WTags

The 6WTagger **keeps in memory** the 6WTags given by widgets. These widgets can be instantiated within different tab pages from different dashboards. For information if you are not comfortable with dashboard organization, read the "Dashboard App" section of the referenced article [4].

The 6WTagger is deleted when the 3DEXPERIENCE session is closed, and recreated empty (without previous 6WTags and previous potential selected tags) when the 3DDashboard application is reloaded (automatically or by the end-user). The widget reloading operation re-fills the 6WTagger.

The 6WTagger **displays** only the 6WTags coming from widgets of the current tab page of the current dashboard. To be more precise:

- If one particular widget is maximized (or fullscreen) [5], the tags displayed are those coming from that particular widget, and those only,
- Otherwise, if widgets are windowed or minimized, necessarily [5], the tags displayed are those of all widgets (of current tag page and current dashboard). Note that even tags for a minimized widget are displayed.

The 6WTagger component keeps all 6WTags, whether displayed or not. Therefore, when a widget is no more maximized, 6WTags for all widgets of the current tab page of the current dashboard are automatically displayed again.

Another example, if the end-user changes the current tab page or the current dashboard, then automatically the UI contents of the 6WTagger is refreshed based on the same above logic, but this time for widgets of the new tab page or the new dashboard, respectively.

Widget Filtering

When the end-user makes a tag selection **all** widgets (involved with the 6WTagger) of the current tab page of the current dashboard are informed, and thus wherever the selected tags come from. By consequence widgets can update their contents according to an refinement algorithm given at the end of the next chapter.

Nevertheless the impact (in term of widget scope) of the selection is different according to the dashboard configuration at the time of the selection. Let's explain the two possible configurations.

The dashboard contains at least one maximised (of fullscreen) widget

Tags selected in this configuraton are defined "local" to the widget. But the local filtering goes beyond the maximized/fullscreen mode. It means that whatever the rendering mode of this widget, the local 6WTags are part of its refinement filter. Nevertheless, once the widget is no more maximized/fullscreen, the 6WTagger removes those local selected tags from the UI since this filtering is not applicable for other widgets. The end-user is informed a widget can be filtered by more tags than those currently selected in the 6WTagger by a special icon in the widget top banner as shown by this picture:



The other widgets (those not currently maximized/fullscreen) are informed when a "local" selection is performed. But their refinement filter does not contain the local selected tags.

Otherwise, all widgets are windowed or minimized

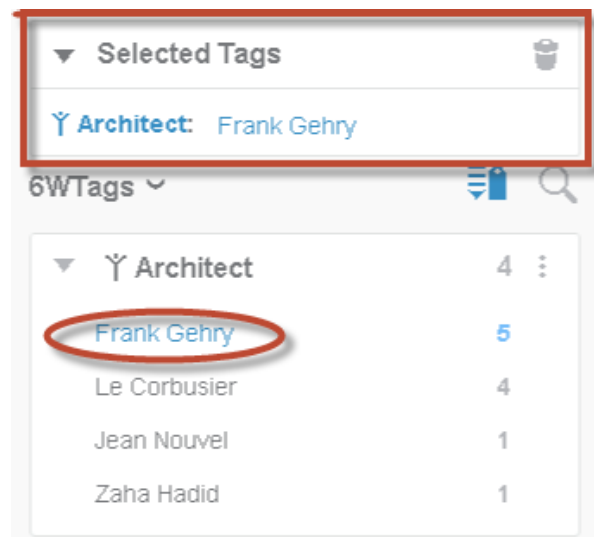
Tags selected in this configuration are applicable for all widgets, and even when they are maximised (of fullscreen). Their expected behavior is to filter their subjects accordingly to the selected tags. It can lead to display nothing if the refinement excludes all their own subjects.

To conclude, whatever the rendering mode of a widget, in case of tag selection, this widget is informed with a refinement filtering containing together:

- Its own local selected tags (if they exist),
- The global selected tags.

Refinement

When the end user selects tags among those displayed by the 6WTagger, he/she defines a **filter** to be applied to the subjects to refine the widget's contents.



The selected tags are displayed at the top of the 6WTagger. In the picture just above the object "Frank Gehry" associated with the group predicate "Architect" has been selected, and thus the couple object & predicate is presented in the "Selected Tags" part of the UI component.

About the subject filtering (also named refinement) there are two cases to consider: when the filtering is performed by the **6WTagger** itself, or when it is performed on **server side**. The choice, defined at the development stage, is made according to the data to filter.

This chapter details for each filtering type:

- The reason to use it,
- The data given by the widget to the 6WTagger,
- The data (*) provided by the 6WTagger to the widget after a tag selection.

But it does not explain how those data are exchanged between the 6WTagger and the widgets. This part is fully detailed in the "Filtering Protocol" section of the article dealing with the 6WTagger API [6].

(*) Note: The data provided by the 6WTagger can contain more elements than the ones presented in this article, or the others from the 6WTagger section of the Developer Assistance. The "extra" elements must be ignored.

6WTagger Filtering

When the set of subjects is small enough to upload them **all** efficiently from the database (or from file) to the client side, the subject filtering can be operated by the 6WTagger itself.

The **data given by the widget to the 6WTagger** is a **complete 6WTags** set: a set of {subject, predicate, object} statements. The JSON structure is as follows (in bold the static arguments):

```
{
  'subject-1-uri': [{ 'object' : 'objValue',
                     'sixw' : 'predicateValue', // Hierarchical path of the predicates URIs, from root 6W to used predicate
                     'dispValue' : 'objValueName', // Display name of the object, can be empty (objValue as default).
                     'type' : 'objValueType', // date, string can be empty (string as default)
                     }, ... ],
  'subject-2-uri': [{...}, {...}],
}
```

With this complete structure, the 6WTagger can display the tags, display the subject counts in the pictogram boxes, and perform the filtering after the end-user refinement. It means it can define the list of subjects matching the chosen tags.

Example partially constructed from pictures illustrating the 6WTags Selector section.

```
{
  'ENOVIA:8485.2939.1992.393': [{ 'object' : 'demoprivatedesign',
                                'sixw' : 'ds6w:where/ds6w:collabspace',
                                'dispValue' : 'DemoPrivateDesign',
                                'type' : 'string',
                                }, { 'object' : 'pdd',
                                    'sixw' : 'ds6w:who/ds6w:responsible',
                                    'dispValue' : 'Pierre Dupond',
                                    'type' : 'string',
                                    }, ... ],
  'ENOVIA:8485.2939.1992.39A': [{...}, {...}],
}
```

The first subject (one among the 62) is stored in the "demoprivatedesign" ("DemoPrivateDesign" in UI) collaborative space, and let's say its current responsible is "pdd" ("Pierre Dupond" in UI). The predicates ("sixw" key values) are issued from the DS vocabulary, so they are automatically translated by the 6WTagger.

After the end-user selection, the 6WTagger broadcasts an event with the result of the filtering (at least the list of subjects). The JSON structure of this data is as follows (in bold the static arguments):

```
{
  "allfilters": {
    "predicateValue1": [ { "object" : "objValueA", "type" : "objValueType" }, {...}, {...} ],
    "predicateValue2": [ { "object" : "objValueB", "type" : "objValueType" }, {...}, {...} ]
  },
}
```

```
    "filteredSubjectList": [ 'subject-1-uri', 'subject-2-uri', 'subject-3-uri', ...]
  }
```

The "filteredSubjectList" key value is an array containing the filtered subjets. In case of no subject matching the filtering criteria the array is empty (length is equal to zero). With this data widgets (those involved with the 6WTagger of the current tab page of the current dashboard) can refresh their UI accordingly.

Additionally, the selected predicates and their objects are provided. If there is no more selected tags (after a de-selection), the key "allfilters" exists but it is an empty JSON object. Here we do not insist on the predicate value, since for such kind of filtering, "allfilters" should be useless. Nevertheless, if you want some details about the contents of the predicate value, see the next section.

Example when DemoPrivateDesign is selected.

```
{
  "allfilters": {
    "ds6w:where/ds6w:collabspace": [ {"object" : "demoprivatedesign", "type" : "string" } ],
  },
  "filteredSubjectList": [ 'ENOVIA:8485.2939.1992.393', ...]
}
```

Server Side Filtering

When the set of subjects is huge the filtering by the 6WTagger becomes impossible. The subject filtering must be performed on the server side (or where your complete set of subjects is).

The **data given by the widget to the 6WTagger** is an array of elements formed for each of them by a group containing a predicate, an object, and the count of subjects having them. Logically a list of elements with such a structure {predicate, object, #subjects}. Implementatively a JSON array where each element of the array is a JSON object as follows:

```
{'object'      : 'objValue',
'sixw'        : 'predicateValue', // Hierarchical path of the predicates URIs, from root 6W to used predicate
'dispValue'   : 'objValueName',  // Display name of the object, can be empty (objValue as default).
'type'        : 'objValueType',   // date,string can be empty (string as default)
'count'       : #subjects
}
```

With this structure, named a summary, the 6WTagger can display predicates and objects, with the count of involved subjects for each of them, awhile the latters are not necessary uploaded to the client side.

Example partially constructed from pictures illutrating the 6WTags Selector section.

```
[{'object': 'demoprivatedesign','sixw': 'ds6w:where/ds6w:collabspace','dispValue' : 'DemoPrivateDesign', 'type' : 'string', 'count':62} ,
{'object': 'pdd','sixw': 'ds6w:who/ds6w:responsible','dispValue' : 'Pierre Dupond', 'type' : 'string', 'count':100},
{'object': '2017/03/30','sixw': 'ds6w:who/ds6w:created','dispValue' : '', 'type' : 'date', 'count':4},
...
]
```

After the end-user selection, the 6WTagger broadcasts an event with the filter to apply server side: It is the set of the selected 6WTags, in other words a set of {predicate, object} elements. The JSON structure is as follows (in bold the static arguments):

```
{
  "allfilters": {
    "predicateValue1": [ {"object" : "objValueA", "type" : "objValueType" } , {...},{...} ],
    "predicateValue2": [ {"object" : "objValueB", "type" : "objValueType" } , {...},{...} ]
  },
}
```

With this information widgets (those involved with the 6WTagger of the current tab page of the current dashboard) can make a search (server side) to look for subjects matching this filter, and then update their UI accordingly. As for the other type of filtering, if there is no more selected tags (after a de-selection), the key "allfilters" exists but it is an empty JSON object.

When the 6WTag object is a data, the "object" value is the selected part:

- If the year is selected, the value contains the year only,
- if the month is selected, the value contains the year and the month only,
- if the day is selected, the value is the complete date.

Note: The JSON data can contain the key "filteredSubjectList", but it is in case of explicit tag edition. See the Data Format/For Server Side Filtering section of the referenced article [3].

Example when DemoPrivateDesign is selected.

```
{
  "allfilters": {
    "ds6w:where/ds6w:collabspace": [ {"object" : "demoprivatedesign", "type" : "string" } ],
    "ds6w:where/ds6w:created": [ {"object" : "2017/03", "type" : "date" } ],
  }
}
```

Note for the date, the object value (2017/03) is not the value set as input (2017/03/30), but the part of the object really selected.

Refinement Algorithm

The logic is as follows:

- OR between objects of the same predicate.
- AND between objects of different predicates.

Let's see an example with 4 subjects (first column) and 4 predicates (other columns):

Subject	Who:Architect	Who:Owner	When: Creation Date	When:Last Renovation Date
House1	Jean Nouvel	Bank A	2000/03/30	2010/05/14
House2	Jean Nouvel	Bank A	1980/03	2000/05
House3	Franck Gehry	Bank A	2000/03	2005/12
House4	Franck Gehry	Bank B	2000/05	2005/09

Let's see the expected filtering according to different selected tags:

- Who:Architect/Jean Nouvel
House1,House2
- Who:Architect/Jean Nouvel + Who:Architect/Franck Gehry
House1,House2,House3, House4
- Who:Architect/Franck Gehry + Who:owner/Bank A

House3

- Who:Architect/Jean Nouvel + Who:Architect/Franck Gehry + When:Last Renovation Date/2005

House3, House4

- Who:Architect/Jean Nouvel + Who:owner/Bank A + When: Creation Date/2000

House1

- When: Creation Date/2000

House1, House3, House4

- When: Creation Date/2000/03

House1, House3

- When: Creation Date/2000/03/30

House1



In Short

The reader can continue with the article dealing with the APIs. You will learn what a widget must do to implement the 6WTagger protocol.



References

- [1] Resource description framework
- [2] Uniform resource identifier
- [3] 6WTag Edition
- [4] 3DEXPERIENCE Applications
- [5] Widget Object
- [6] 6WTagger Integration - APIs
- [7] Implementing 6WTagger Filtering
- [8] About 6W Vocabulary Web Services



History

Version: **1** [August 2014] Document created
Version: **2** [March 2017] Document update



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6WTag Edition

Technical Article

Abstract

With the previous articles, 6WTagger Integration - Principles [1] and 6WTagger Integration - API [2] you have learnt the basics about 6WTagger integration. This article described another feature. The capability for the end-user to create his/her own tags for given subjects. They are named either **user-defined** tags, or explicite tags. The latter term is opposite to implicate tags where they are deduced from the subject properties.

- User Defined Tags
 - Principles
 - Implementation
 - Data Format
 - subjectURI
 - For 6WTagger Filtering
 - For Server Side Filtering
- In Short
- References
- History

User Defined Tags

User defined (also named explicit) tags are created by the end-user when the widget has provided the capability. Those tags are **applied to subjects given by the widget** itself.

The **format of an explicit tag** is the same as for an implicit one: a subject - identified by its URI , a predicate, and an object. Nevertheless, for the explicit tags some restrictions can exist about the predicate and the object's type: see the User Assistance documentation.

Once created by the end-user, their **storage** is managed by the 6WTagger. From **3DEXPERIENCE** 2021xFD05, all the user tags, whatever the kind of subjects, DS or not, are stored by 6WTags service.

About the **non DS subjects** take care of their URI. Indeed, since their tags are stored in the 6WTags service database, a service shared by all **3DEXPERIENCE** platform components, they must be unique to avoid collision with other applicative subjects.

For a **DS URI**, before logging an explicite 6WTags, the **3DEXPERIENCE** platform performs a check to know if the current person is allowed (granted) to do the tag creation. Each service gives its checking rules. For example, Swym checks the end-user can tag a post.

If your widget can **provide** to the 6WTagger end-user tags for any DS service subjects, take care for your own data. Indeed, as of today there is still a limitation about the explicit tags retrieval. This array sums up the configuration cases:

Service	6WTagger Filtering	Server Side Filtering
DS subjects	REST Web Service dedicated to the subjects provide API retrieving implicit and explicit tags as complete form.	REST Web Service dedicated to the subjects provide implicit and explicit tags as summary form as well.
Non DS subjects	You provide implicit tags (containing subjects URI), the 6WTagger manages the explicit tags retrieval itself.	The 6WTagger cannot retrieve from the 6WTags service database the explicit tags since subjects are not provided. But you cannot provide them to the 6WTagger since there is no API to retrieve explicit tags from 6WTags service.

Therefore: For non DS subjects, only the 6WTagger Filtering solution can be used for **presenting** to the end-user ALL tags, the implicit as the explicit ones.



Principles

The protocol between a widget and the 6WTagger is as follows:

- The widget provides a list of **visible subjects** with their tags. The visible subjects are usually those the end-user can see - and select - in the widget.
- The widget provides a set of **subjects** (among the previous ones) for which the explicit tags will be associated with. Usually, the list comes from a end-user selection in the widget. The list can change according the current end-user selection in the widget.
- When the 6WTagger is in **"edit mode"** (the widget is maximized/fullscreen) the end-user can manage (create/modify/delete) explicit tags.

Once in edit mode, the 6WTagger manages alone the explicit tags: it provides the UI and interacts directly with the service storing them. The widget does not intervene in this management, as it does not need feedbacks after a creation/modication/deletion. Just below, the Tag editor:

Add Tag

Y Who	⌚ When	📦 What
📍 Where	? Why	➡ How

Tag Name *

Add Tag

6WTags

▼ Y Architect

1

⋮

Le Corbusier

1

While the 6WTagger is in edit mode, the end-user cannot select tags.

The widget must manage the edit mode state. Usually, a basic behavior is to focus the widget contents with the subjects for which the end-user tags will be created for while the tag editor is opened, and when the end user comes back to the complete list of subjects, the tag editor is closed.

Implementation

Between the widget and the 6WTagger there is the proxy. The widget creates, and interacts with the proxy, this latter known from the 6WTagger. The creation and use of the proxy is fully explained in the referenced article [2].

The steps are as follows:

1. Create the proxy

The proxy is created with options defining the filtering type (6WTagger or server side).

```
var options= {
  widgetId      : widget.id,
  filteringMode : "WithFilteringServices" or "FilteringOnServer",
  tenant        : widget.getValue('x3dPlatformId') -> ONLY FOR DS Subjects.
};
taggerProxy = TagNavigatorProxy.createProxy(options);
```

If you set the tenant, the 6WTagger does not retrieve the explicit tags from the 6WTags service.

Then you set the callback function to be informed when the end-user will do a tag selection.

```
taggerProxy.addEvent('xxx', myCallFunction );
```

Where xxx is either 'onFilterSubjectsChange' or 'onFilterChange' according to the filtering mode value.

2. Provide Subjects and 6WTags

You provide the 6WTags (as summary or complete) for the subjects the end-user could perform a selection, and you provide all the 6WTags (as a complete form) for which the edit mode could be used. These two operations are performed in one call for both proxy type:

• 6WTagger Filtering

Without more information than the 6WTags for the subjects the end-user could perform a selection. They already contains the subjects for which explicit tags could be created.

```
MyProxy.setSubjectsTags(completeTags)
```

• Server Side Filtering

By providing the 6WTags for the subjects (as complete form) for which the edit mode could be used in addition with the 6WTags for the subjects (as summary form) the end-user could perform a selection.

```
MyProxy.setTags(visibleDataTags,summary)
```

3. Provide subjects for explicit tags edition

Use the *focusOnSubjects* method.

```
MyProxy.focusOnSubjects(subjectURList)
```

The subjects must be part of the "visible" subject tags provided at the previous step. The new tags will be associated with those subjects. Calling this method opens the tag editor as soon as the widget is maximized (or fullscreen).

4. Deactivate the edit mode

Use *unfocus()* method.

```
MyProxy.unfocus()
```

Calling this method closes the tag editor if the widget is maximized (or fullscreen), and do not open it otherwise.

Data Format

This section sums up the format of the different data used in the 6WTagger protocol. You have:

- The subjects for which the end-user creates tags,
- The 6WTags provided by widget proxy,
- The data (*) input of the widget callback functions, the latter triggered when the end user has selected a tag.

(*) Note: The data provided by the 6WTagger can contain more elements than the ones presented in this article, or the others from the 6WTagger section of the Developer Assistance. The "extra" elements must be ignored.

subjectURI

The subjects, as URI, given to the 6WTagger using the *focusOnSubjects* method. All tags created by the end user will be applied to these subjects.

```
[ 'subject-1-uri', 'subject-2-uri', 'subject-3-uri', ...]
```

For 6WTagger Filtering

6WTags Provided by Proxy as subjectsTags

The 6WTags, as a complete form with subjects, provided by the proxy to the 6WTagger using *setSubjectsTags* method.

```
{
  'subject-1-uri':[{ 'object'   : 'objValue',
                    'sixw'     : 'predicateValue',
                    'dispValue' : 'objValueName',
                    'type'      : 'objValueType',
                    }, ... ],
  'subject-2-uri':[{...},{...}],
}
```

Callback Argument - onFilterSubjectsChange - result data

The unique argument of the callback method for the onFilterSubjectsChange event, contains the filtering result.

```
{
  "allfilters": {
    "predicateValue1": [ { "object" : "objValueA", "type" : "objValueType" }, {...},{...} ],
    "predicateValue2": [ { "object" : "objValueB", "type" : "objValueType" }, {...},{...} ]
  }
}
```



```
    },
    "filteredSubjectList": [ 'subject-1-uri', 'subject-2-uri', 'subject-3-uri', ... ]
}
```

allfilters are the selected tags, and *filteredSubjectList* the filtered subjects. Subjects are among those provided by the proxy of the widget.



For Server Side Filtering

6WTags Provided by Proxy as visibleDataTags

The 6WTags, as a complete form with subjects, provided by the proxy to the 6WTagger using *setTags* method. It is the first argument of the method.

```
{
  'subject-1-uri': [{ 'object'   : 'objValue',
                     'sixw'    : 'predicateValue',
                     'dispValue': 'objValueName',
                     'type'    : 'objValueType',
                     }, ... ],
  'subject-2-uri': [{...}, {...}],
}
```

6WTags Provided by Proxy as Summary

The 6WTags, as a summary, provided by the proxy to the 6WTagger using *setTags* method. It is the second argument of the method.

```
[
  { 'object'   : 'objValue',
    'sixw'    : 'predicateValue',
    'dispValue': 'objValueName',
    'type'    : 'objValueType',
    'count'   : #subjects
  }, {}, {} , ...
]
```

Callback Argument - onFilterChange - result data

The unique argument of the callback method for the onFilterChange event contains the filter result.

```
{
  "allfilters": {
    "predicateValue1": [ { "object" : "objValueA", "type" : "objValueType" } , {...}, {...} ],
    "predicateValue2": [ { "object" : "objValueB", "type" : "objValueType" } , {...}, {...} ]
  },
  "filteredSubjectList": [ 'subject-1-uri', 'subject-2-uri', 'subject-3-uri', ... ]
}
```

allfilters are the selected tags. Other keys than *object* and *type* may exist but they would be irrelevant for the filtering.



In Short

This article has explained how the widget can propose to the end user to create his/her own tags.

The reader can continue with the use case implementing the scenario [4].



References

- [1] 6WTagger Integration - Principles
- [2] 6WTagger Integration - API
- [3] About Service URL and Platform Instance
- [4] Editing 6WTags



History

Version: **1** [March 2015] Document created

Version: **2** [March 2017] Document updated



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6WTagger Integration - APIs

Technical Article

Abstract

This article describes the API and the scenarios a widget will have to implement to take benefit of the 6WTagger component.

The reading of 6WTagger Integration - Principles [1] is a pre-requisit, as well the article about widget object [2].

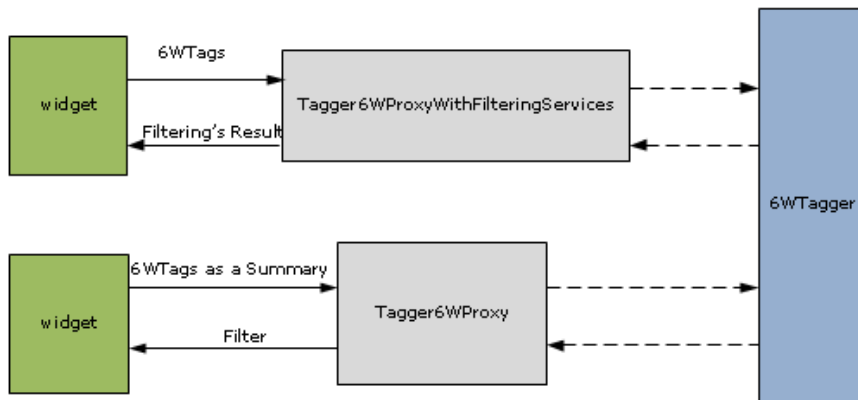
- Principles
 - 6WTagger Proxy
 - Multi-Proxy
 - API Presentation
 - Which 6WTags as Input
- Step by Step Scenarios
 - 6WTagger Filtering
 - Server Side Filtering
 - API Use and Remarks
- Data Format
 - For 6WTagger Filtering
 - For Server Side Filtering
- In Short
- References
- History

Principles

Widgets communicate with the 6WTagger using JavaScript components. Before introducing them, let's start by a presentation of the main principles.

6WTagger Proxy

Your widget has to **create** a JavaScript component to communicate with the 6WTagger. This component is named a **proxy**. Depending on the type of filtering, as defined in the Refinement section of the referenced article [1], the proxy type is different.



The picture just above (*) shows:

- On the top, the proxy (a **Tagger6WProxyWithFilteringServices**) is dedicated for a filtering performed by the 6WTagger. The widget provides to the proxy the complete 6WTags {subject/predicate/object}. After a end-user tag selection, the same proxy receives the result of the filtering which contains the selected tags and the filtered subjects. See onFilterSubjectsChange for the result data format.
- On the bottom, the proxy (a **Tagger6WProxy**) is dedicated for a server side filtering. The widget provides to the proxy the 6WTags as a summary {predicate/object/#subjects}. After a end-user tag selection, the same proxy receives the filter, which contains the selected tags only. See onFilterChange for the result data format.

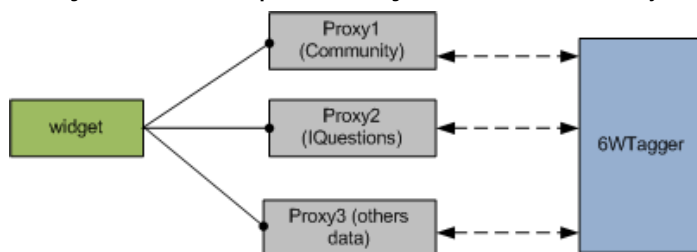
(*)This picture only shows the data flow for a global understanding. So, the dotted lines express an idea, not necessary a concrete implementation. The complete workflow is detailed further.

About proxy

- Once created the type of a proxy component cannot change.
- A proxy can be in **active** or **desactive** state. By default, at the creation stage, the proxy is active.
- **All active proxies** of the current tab page, of the current dashboard, **are informed** when an end user selection is performed, and thus whatever the widgets state (minimized, windowed, maximized, fullscreen) in the current tab page.
- At the end of the widget's life, there is no need to delete the proxies. It is taken in charge by the platform. But a proxy can be deleted during the widget life.

Multi-Proxy

The widget can create **several proxies** if 6WTags involve different kinds of subjects.



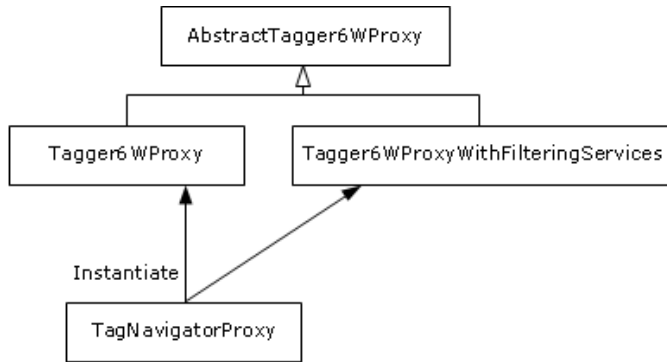
The picture above shows a widget with three proxies: one managing tags for 3DSwym communities, the second for 3DSwym questions and the last for another kind of data. When a filtering is no more required for a given type of subjects (let's suppose the type of subjects is no more displayed to the end-user) its respective proxy can be temporarily deactivated.

Pay attention, if whatever the widget state (minimized, windowed, maximized, fullscreen), its active proxies are informed after an end-user selection, the 6WTagger **displays the 6WTags** of:

- The same active proxies for a **windowed/minimized** widget,
- The **first active proxy only** for a **maximized/fullscreen** widget.

API Presentation

This diagram presents the four JavaScript components to work with:



From down-top:

- TagNavigatorProxy is the factory, the AMD module that provides the methods to instantiate a proxy.
 - When the filtering is performed by the 6WTagger, a Tagger6WProxyWithFilteringServices class instance is created.
 - When the filtering is performed server side, a Tagger6WProxy class instance is created.
- **Tagger6WProxy** and **Tagger6WProxyWithFilteringServices**, both only contain methods to set the 6WTags. *setTags* (without subjects) and *setSubjectsTags* (with subjects) respectively.
- **AbstractTagger6WProxy** is the class from which the two previous ones derive. It contains the common methods like *activate/deactivate/die/addEvent/getCurrentFilter/unsetTags*.

Let's see how to use these API through scenarios described step by step. The API Use and Remarks section lists per APIs the CAA Use case using them.

Which 6WTags as Input

In the article about the principles [1] you have learnt there are two kinds of 6WTags: the ones deduced from subject properties (creation date, owner, ...) we name implicit, and the ones created by end-user we name explicit. For the latter the next article "6WTags Edition" [4] explains how widgets can offer such tags creation.

So your widget, when giving 6WTags to the 6WTagger, must take into account these 2 cases:

- For the **3DEXPERIENCE** servers, whatever the proxy type (FilteringOnServer/WithFilteringServices), you have to provide the implicit and the explicit tags. The DS APIs return them both.
- For a non DS server, if there is no issue for the implicit tags, for the explicit tags let's see how it works according to the proxy type:
 - *WithFilteringServices*: the 6WTagger looks for itself the explicit tags in the 6WTags server database for the given subjects. You do not need to provide them.
 - *FilteringOnServer*: the 6WTagger expects from each proxy a complete set of tags. If you can easily provide the implicit tags, you cannot get the explicit tags while the 6WTags server does not expose an API to provide them.

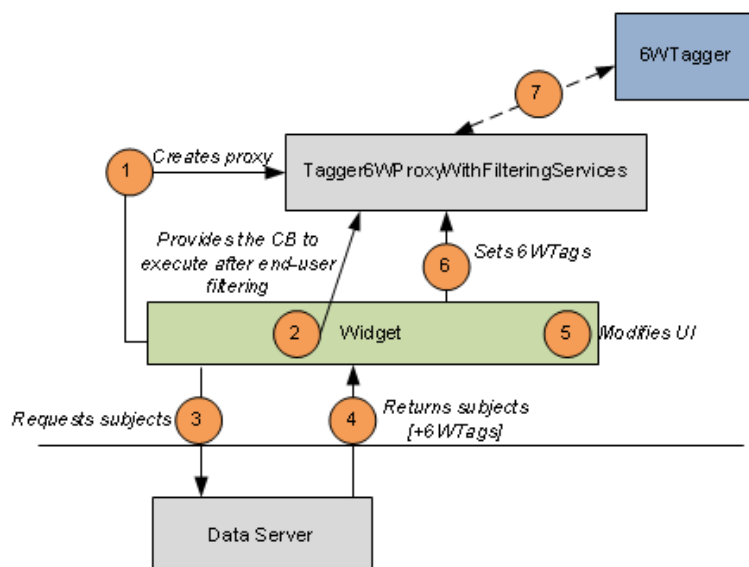
Step by Step Scenarios

This section describes the scenarios your widget will have to implement (at least one) to be integrated to the 6WTagger. In the short section of the article you will find references to the use cases implementing those scenarios.

6WTagger Filtering

This section describes step by step what a widget has to do when using the **Tagger6WProxyWithFilteringServices** JavaScript component.

Let's start by the actions realized once usually in the onLoad method [2] of the widget.



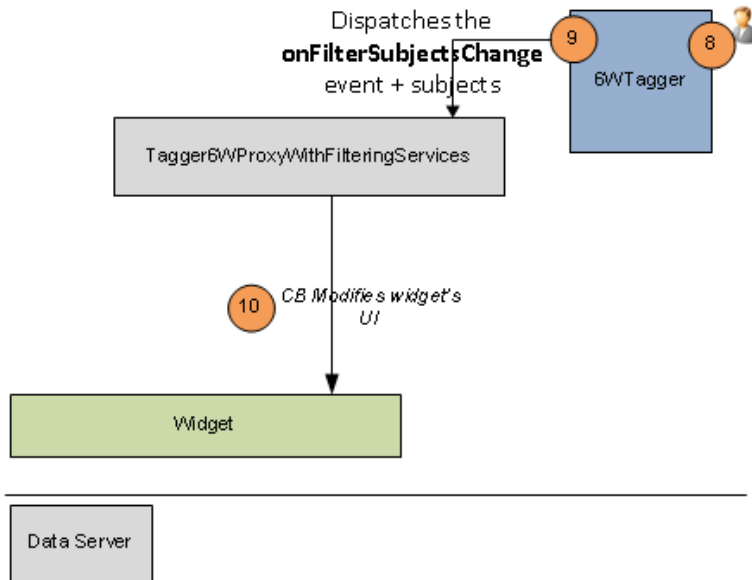
1. The widget creates a *Tagger6WProxyWithFilteringServices* class instance by using the *createProxy* method of the *TagNavigatorProxy* module with the *WithFilteringServices* option as argument. Additionally other options may be required:

- If data comes from a **3DEXPERIENCE** platform server, do not forget to set the platform id value [3], while for others, this argument is useless, set null.
 - The widget identifier (widget.id) [2] is requested too for internal purpose.
- The widget provides to the proxy the callback method (by calling `addEventListener` on the proxy) triggered when the 6WTagger dispatches an **onFilterSubjectsChange** event.
 - The widget requests the subjects from the data server
 - The data server sends back the subjects, with their potential 6WTags. Indeed, the 6WTags can come from the server with the subjects, or can be computed on the client side.
 - The widget updates its UI with the returned subjects when there are uploaded
 - The widget provides the complete 6WTags (subjectsTags) to the proxy (by using `setSubjectsTags` on the proxy)
 - 6WTagger is aware of these new 6WTags, and can update its UI.

The steps (3-4) can be simpler if your data are already on the client (for a limited scope of data).

This step order is recommended because the time the proxy is full up can be long enough.

Now, the widget is ready to receive the information from the 6WTagger, and to take the actions according to them.



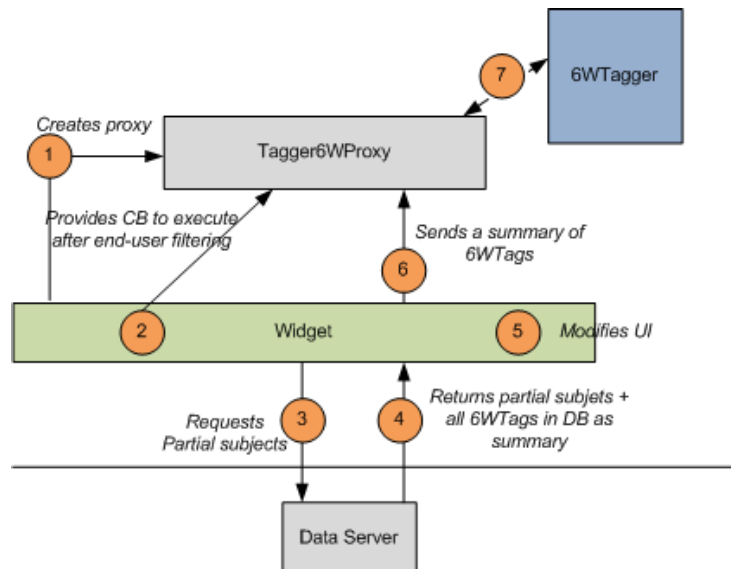
- The end-user makes a selection among the displayed tags.
- The 6WTagger performs the filtering, defines the refined subjects, and dispatches a **onFilterSubjectsChange** event containing the subjects.
- The method, declared for the **onFilterSubjectsChange** event for the proxy, receives the list of filtered subjects (click onFilterSubjectsChange for the exact format). Its role is to change the widget's UI.

Note: If a set of selected tags already exists when the widget is instantiated, the 6WTagger broadcasts a **onFilterSubjectsChange** event.

Server Side Filtering

This section describes step by step what a widget has to do when using the **Tagger6WProxy** JavaScript component.

Let's start by the actions realized once usually in the `onLoad` method [1] of the widget:

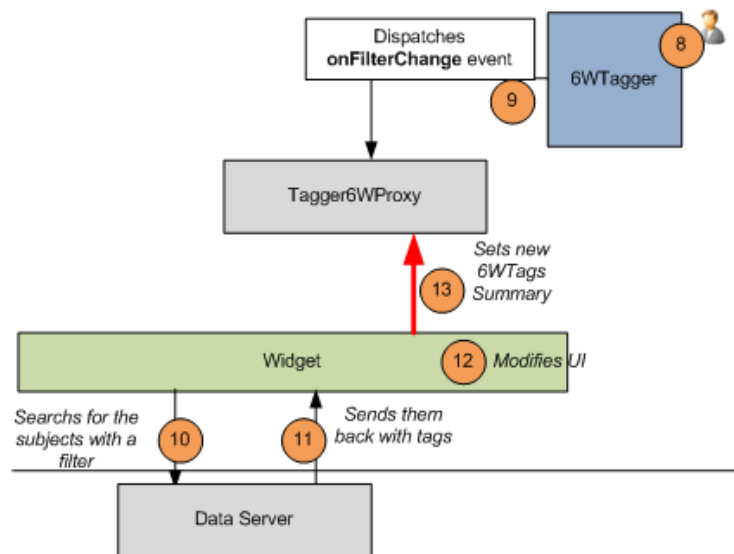


- The widget creates a **Tagger6WProxy** class instance by using the `createProxy` method of the **TagNavigatorProxy** module with the `FilteringOnServer` option as argument. Additionally other options may be required:
 - If data comes from a **3DEXPERIENCE** platform server, do not forget to set the platform id value [3], otherwise, this argument is useless, set null.
 - The widget identifier (`widget.id`) [2] is mandatory.
- The widget provides to the proxy the callback method (by calling `addEventListener` on the proxy) triggered when the 6WTagger dispatches the **onFilterChange** event.
- The widget requests subjects from the server.
- The server sends back some subjects (usually a part of those on the server), with all 6WTags within a summary form
- The widget can change its UI

6. The widget sets the 6WTags's summary to the proxy (by calling `setTags(null,summary)`)
7. The 6WTagger is aware of the new 6WTags

This step order is recommended because the time the proxy is full up can be long enough.

Now, the widget is ready to receive the information from the 6WTagger, and to take the actions according to them.



8. The end-user makes a selection among the displayed tags.
9. The 6WTagger broadcasts a **onFilterChange** event containing the filtering.
10. The method declared for the **onFilterChange** event on the proxy, receives the refinement filter (a set of {predicate/object} couples) (click onFilterChange for the exact format). Its role is to request on the server the subjects linked to the tags.
11. The server sends back the answer (some subjects and still all tags as a summary form)
12. The widget can change its UI
13. Finally, the widget sets the new summary to the proxy (by calling `setTags(null,summary)`)

The last step, the 13 is extremely important. Whatever the result of the request on the server (no subject, failure), the 6WTagger must be informed otherwise it hangs. Use `setTags` for a successful workflow, otherwise use `unsetTags`.

Note: If a set of selected tags already exists when the widget is instantiated, the 6WTagger broadcasts a **onFilterChange** event.

API Use and Remarks

This section lists where the APIs are used in the CAA use cases, and for some of them some remarks are added.

API	Where	Remarks
createProxy	All the 6WTagger CAA use cases	
addEvent	All the 6WTagger CAA use cases	
setSubjectsTags	[4][5][7][8]	For 6WTagger Filtering. It replaces/creates a new set of tags. (Must be used in case of subject deletion while no deleteSubjectsTags API)
addSubjectsTags	Not used	For 6WTagger Filtering. It can be used to modify tags of existing subjects or add tags for new subjects.
setTags	[6]	For Server Side Filtering
unsetTags	[8]	To remove 6WTags whatever the proxy filtering mode. Use it in case of failure when re-loading data.
activate/deactivate	[7]	
die	[5][6]	
getCurrentFilter	[7]	This API returns null when called just after the proxy creation. It can return a JSON structure without <i>filteredSubjectList</i> (see 6WTagger Filtering).
focusOnSubjects/focus	[4]	Subjects for explicit tags

The methods changing or removing the 6WTags associated with proxies (`setSubjectsTags`, `setTags`, `unsetTags`) do not impact the current selected 6WTags kept by the 6WTagger component. A widget still having an active proxy, with or without 6WTags, will be informed after a tag selection or deselection.

Data Format

This section sums up the format of the different data used in the 6WTagger protocol. You have:

- The 6WTags provided by widget proxy,
- The unique callback function argument (*), functions triggered when the end user has selected a tag.

(*) Note: The data provided by the 6WTagger can contain more elements than the ones presented in this article, or the others from the 6WTagger section of the Developer Assistance. The "extra" elements must be ignored.

For 6WTagger Filtering

6WTags Provided by Proxy as subjectsTags

The 6WTags, as a complete form with subjects, provided by the proxy to the 6WTagger using `setSubjectsTags` method.

```

{
  'subject-1-uri':[{ 'object'   : 'objValue',
                    'sixw'     : 'predicateValue',
                    'dispValue': 'objValueName',
                    'type'     : 'objValueType',
                    }, ... ],
  'subject-2-uri':[{...},{...}],
}
  
```

Callback Argument - onFilterSubjectsChange - result data

The unique argument of the callback method for the onFilterSubjectsChange event, contains the filtering result.

```
{
  "allfilters": {
    "predicateValue1": [ { "object" : "objValueA", "type" : "objValueType" } , { ... }, { ... } ],
    "predicateValue2": [ { "object" : "objValueB", "type" : "objValueType" } , { ... }, { ... } ]
  },
  "filteredSubjectList": [ 'subject-1-uri', 'subject-2-uri', 'subject-3-uri', ... ]
}
```

allfilters are the selected tags, and *filteredSubjectList* the filtered subjects. Subjects are among those provided by the proxy of the widget.



For Server Side Filtering

6WTags Provided by Proxy as Summary

The 6WTags, as a summary, provided by the proxy to the 6WTagger using *setTags* method. It is the second argument of the method.

```
{
  'object' : 'objValue',
  'sixw' : 'predicateValue',
  'dispValue' : 'objValueName',
  'type' : 'objValueType',
  'count' : #subjects
}, {}, {}, ...
}
```

Callback Argument - onFilterChange - result data

The unique argument of the callback method for the onFilterChange event contains the filter result.

```
{
  "allfilters": {
    "predicateValue1": [ { "object" : "objValueA", "type" : "objValueType" } , { ... }, { ... } ],
    "predicateValue2": [ { "object" : "objValueB", "type" : "objValueType" } , { ... }, { ... } ]
  },
}
```

allfilters are the selected tags.

Note: The JSON data can contain the key "filteredSubjectList", but it is in case of explicit tag edition. See the Data Format/For Server Side Filtering section of the referenced article [4].



In Short

This article has presented the JavaScript components dealing with the 6WTagger. You have learnt how to create such components, named proxies, according to the desired subjects' filtering type, and how the widget uses it all along its lifetime.

You have seen that subjects can be provided from **3DEXPERIENCE** servers, or from non-DS servers.

For the **3DEXPERIENCE** services having 6WTags for their resources, like 3DSwym and ENOVIA, we suggest the reader to go through the REST Web Services section of the CAA Encyclopedia to know the API dealing with those tags.

The reader can continue with the basic use cases implementing the scenarios mentioned in this article:

- Implementing 6WTagger Filtering [5]
- Implementing Service Side Filtering [6]
- Using Multi Proxies [7]

Once elementary principles are acquired you can study the example of complete application [8].



References

- [1] 6WTagger Integration - Principles
- [2] Widget Object
- [3] About Service URL and Platform Instance
- [4] 6WTag Edition
- [5] Implementing 6WTagger Filtering
- [6] Implementing Service Side Filtering
- [7] Using Multi Proxies
- [8] Tagging Data Read from File

History

Version: **1** [March 2017] Document created



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Implementing 6WTagger Filtering

Use Case

Abstract

This article describes a widget implementing the scenario where the subject filtering is performed by the 6WTagger itself. It is an implementation of the scenario presented in the "6WTagger Integration - API" article [1].

The reading of 6WTagger Integration - Principles [2] is a pre-requisit, as well the article about widget object [3].

- What You Will Learn With This Use Case
- The 6WTaggerFiltering Use Case
 - What Does 6WTaggerFiltering Do
 - How to Launch 6WTaggerFiltering
 - Where to Find the 6WTaggerFiltering Code
- Step-by-Step
- In Short
- References

What You Will Learn With This Use Case

This use case is intended to show you how to create and work with the Tagger6WProxyWithFilteringServices class.

The 6WTaggerFiltering Use Case

6WTaggerFiltering is a use case of the CAATagNavigator.edu framework. It illustrates 6WTagger integration inside widgets capabilities.

What Does 6WTaggerFiltering Do

Before showing the widget UI, let's describe the data.

About Data

6WTaggerFiltering is a widget managing data which are buildings (generic name for houses and buildings). They share the fact to have been conceived by an architect. From that we deduce the following subject/predicate/object links:



subject

predicate

object

The data are all listed by this array. The first column is the building name (subject), and the second column is the architect name (object).

Building Name	Architect Name
house1	Le Corbusier
house2	Le Corbusier
house3	Zaha Hadid
house4	Frank Gehry
house5	Frank Gehry
house6	Frank Gehry
house7	Frank Gehry
building1	Le Corbusier
building2	Le Corbusier
building3	Frank Gehry
building4	Jean Nouvel

The predicate "hasForArchitect" is classified within the "who" category, one of the six root categories. The display name for the predicat is "Architect".

In this use case, we choose to perform the **subject refinement by the 6WTagger**. All the subjects (as 6WTags) will be provided once to it.

About UI

Once the widget is launched in a dashboard, **open the Preferences menu** and check "6WTagger Filtering" is the current option value, if not, change and save to close the dialog box.

Edit preferences

Filtering Mode


6WTagger Filtering

▼

Save

Cancel

The widget body shows all the data, the current selected tags, and the refined subjects. At first no filtering, therefore all the subjects are listed.

 CAA 6WTagger Demonstrator - 6WTagger Filtering

All Subjects:
[house1 , Le Corbusier],[house2 , Le Corbusier],[house3 , Zaha Hadid],[house4 , Frank Gehry],[house5 , Frank Gehry],[house6 , Frank Gehry],[house7 , Frank Gehry],[building1 , Le Corbusier],[building2 , Le Corbusier],[building3 , Frank Gehry],[building4 , Jean Nouvel],

Selected Tags:
No Selected Tags

Subjects:
house1 to house7, building1 to building4

Open the 6WTagger, the predicate (Architect) with the objects (4 architect names) associated with are visible:

6WTags

Architect

4

Frank Gehry

5

Le Corbusier

4

Jean Nouvel

1

Zaha Hadid

1

3DEXPERIENCE Platform News

New Tab

New Tab 1

CAA 6WTagger Demonstrator - 6WTagger Filt...

All Subjects:
[house1 , Le Corbusier],[house2 , Le Corbusier],[house3 , Zaha Hadid],[house4 , Frank Gehry],[house5 , Frank Gehry],[house6 , Frank Gehry],[house7 , Frank Gehry],[building1 , Le Corbusier],[building2 , Le Corbusier],[building3 , Frank Gehry],[building4 , Jean Nouvel],

Selected Tags:
No Selected Tags

Subjects:
house1 to house7, building1 to building4

Select a tag, the list of refined subjects, as well the selected tag set, are automatically updated.

Selected Tags

Architect: Frank Gehry

6WTags

Architect

4

Frank Gehry

5

Le Corbusier

4

Jean Nouvel

1

Zaha Hadid

1

CAA 6WTagger Demonstrator - 6...

All Subjects:
[house1 , Le Corbusier],[house2 , Le Corbusier],[house3 , Zaha Hadid],[house4 , Frank Gehry],[house5 , Frank Gehry],[house6 , Frank Gehry],[house7 , Frank Gehry],[building1 , Le Corbusier],[building2 , Le Corbusier],[building3 , Frank Gehry],[building4 , Jean Nouvel],

Selected Tags:
{ "ds6w:who/Architect": { "disptext": "Frank Gehry", "object": "fgy", "type": "string", "field": [] } }

Subjects:
["house4", "house5", "house6", "house7", "building3"]

The list of filtered subjects comes from the 6WTagger since this widget has decided to use this kind of refinement. The data set is lightweight enough to choose this solution.

How to Launch 6WTaggerFiltering

To launch 6WTaggerFiltering please follow the instructions described here [4].

Where to Find the 6WTaggerFiltering Code

The 6WTaggerFiltering use case is made of one file located in:

InstallRootFolder\CAADoc\CAATagNavigator.edu\CAA6WTagFilteringMode.mweb\src\CAA6WTagFilteringMode.html.

Where InstallRootFolder is the folder where the API CD-ROM is installed [4].

Step-by-Step

There are several logical steps in 6WTaggerFiltering use case:

- In the onLoad method
 - Create the 6WTags with Subjects
 - Create the Proxy
 - onFilterSubjectsChange Event Subscription
 - Put in Place Widget UI
 - Set 6WTags to the Proxy
- In the callback method
 - Update UI After Tag Selection
- Widget Refresh
 - Proxy Deletion

Create the 6WTags with Subjects

The JSON object, named `subjectDB`, containing the 6WTags as a complete form (subject/predicate/object) is as follows:

```
var subjectDB= {
  'house1' : [{ 'object' : 'lcr', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Le Corbusier', 'type' : 'string' } ],
  'house2' : [{ 'object' : 'lcr', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Le Corbusier', 'type' : 'string' } ],
  'house3' : [{ 'object' : 'zhd', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Zaha Hadid', 'type' : 'string' } ],
  'house4' : [{ 'object' : 'fgy', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Frank Gehry', 'type' : 'string' } ],
  'house5' : [{ 'object' : 'fgy', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Frank Gehry', 'type' : 'string' } ],
  'house6' : [{ 'object' : 'fgy', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Frank Gehry', 'type' : 'string' } ],
  'house7' : [{ 'object' : 'fgy', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Frank Gehry', 'type' : 'string' } ],
  'building1' : [{ 'object' : 'lcr', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Le Corbusier', 'type' : 'string' } ],
  'building2' : [{ 'object' : 'lcr', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Le Corbusier', 'type' : 'string' } ],
  'building3' : [{ 'object' : 'fgy', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Frank Gehry', 'type' : 'string' } ],
  'building4' : [{ 'object' : 'jnl', 'sixw' : 'ds6w:who/Architect', 'dispValue' : 'Jean Nouvel', 'type' : 'string' } ]
};
```

For the use case, the subject URIs (house1, ...) have been simplified. Do not forget if your application gives the end user the capabilities to create his/her own tags (see "6WTags Edition" article [6]), the subject URIs will be stored in the 6WTags service, a service shared by all applications of the 3DEXPERIENCE platform.

Create the Proxy

The variable `taggerProxy` has been previously declared in the html page.

From now on we are inside the `onLoad` method of the widget.

```
var options= {
  widgetId : widget.id,
  filteringMode : widget.getValue("FilteringMode") // ="WithFilteringServices"
};
taggerProxy = TagNavigatorProxy.createProxy(options);
```

The proxy is created using the `createProxy` of the DS/TagNavigatorProxy/TagNavigatorProxy AMD module [5] represented by the variable `TagNavigatorProxy`. The unique argument of this method is a JSON containing the widget identifier, and the type of proxy. For the latter the value is "WithFilteringServices".

onFilterSubjectsChange Event Subscription

The proxy makes a subscription to be informed when the end-user makes a tag selection.

```
taggerProxy.addEventListener('onFilterSubjectsChange', MyWidget.onFilterSubjectsChange );
```

The first argument is the event name ("onFilterSubjectsChange"), and the second a callback function described in the Update UI After Tag Selection step.

Put in Place Widget UI

Before providing the tags to the 6WTaggers we initialize the widget body contents as you can see on a picture above.

```
widget.body.innerHTML += "<h3>All Subjects:</h3>";
widget.body.innerHTML += MyWidget.displaySubjects(subjectDB);
widget.body.innerHTML += "<br/>";
widget.body.innerHTML += "<h3>Selected Tags:</h3>";
widget.body.innerHTML += "<table><tr><td class='classTags'></td></tr></table>" ;
widget.body.innerHTML += "<br/>";
widget.body.innerHTML += "<h3>Subjects:</h3>";
widget.body.innerHTML += "<table><tr><td class='classSubjects'></td></tr></table>" ;
...
MyWidget.onFilterSubjectsChange(null);
...
```

In our basic use case, we create the DOM elements in the `onLoad` method. Then we update the "Selected Tags" and "Filtered Subjects" sections using the same function which is triggered when the end-user makes a tag selection. Setting null as input argument of this function means no filtering, and leads to display 'no selected tag' and 'house1 to house7, building1 to building4' in the mentioned sections respectively.

Note: When the `onLoad` function is finished, if there is a current selection, and if 6WTags are associated with the proxy (see next step), the 6WTagger emits a "onFilterSubjectsChange" event, so the widget UI could be updated to take into account previous selections.

Set 6WTags to the Proxy

The last action of the `onLoad` method is to provide the 6WTags to the proxy. The latter will give them to the 6WTagger.

```
taggerProxy.setSubjectsTags(subjectDB) ;
```

Those tags will be displayed in the 6WTagger when the tab page containing the widget is current, and no other widgets of this tab page is maximized or in fullscreen mode.

Update UI After Tag Selection

This task consists in updating the "Selected Tags" and "Filtered Subjects" sections in the widget body according to a given refinement filter. We do it in the callback function the proxy has declared for the subscription to the "onFilterSubjectsChange" event.

`filter`, the unique argument of the callback can be:

- null, when we call it in the `onLoad` method to initialize the UI.
- A JSON object containing two keys: (The format of such non null filter is fully described here)
 - "allfilters" - for the selected tags - whose value is a JSON object with 0 to N keys, each key is a predicate, whose value is an array.
 - "filteredSubjectList" - for the refined subjects- whose value is a JSON array with the subject URI list.

This is the contents of the `onFilterSubjectsChange` method, the callback function:

```
onFilterSubjectsChange: function (filter) {
    // Display Selected Tags
    var theSelectedTagElt = widget.body.querySelector('.classTags');
    if ( filter && filter.allfilters ) {
        theSelectedTagElt.innerHTML= JSON.stringify(filter.allfilters) ;
    }else {
        theSelectedTagElt.innerHTML= "No Selected Tags" ;
    }

    //Display Subjects
    var theSubjectsElt = widget.body.querySelector('.classSubjects');
    if ( filter && filter.filteredSubjectList ) {
        if ( filter.filteredSubjectList.length != 0 ) {
            theSubjectsElt.innerHTML= JSON.stringify(filter.filteredSubjectList) ;
        }else {
            theSubjectsElt.innerHTML="No Content to display";
        }
    }else {
        theSubjectsElt.innerHTML="house1 to house7, building1 to building4";
    }
}
```

After the selection the widget body is as depicted by the picture above.

This callback method is invoked when:

1. The end-user has just selected a tag, the 6Wtagger is still open, and the widget is visible, **or not**, in the current tab page,
2. The end-user has selected a tag from the current tab page, closed the 6WTagger, and instantiated this widget in the same current tab page.

For the first point, we recall that all widget proxies -except if deactivated - of the same tab page of a dashboard having subscribed to a tag selection event are informed after a selection whatever the widget state: minimized, maximized, windowed or fullscreen.

For the second point, it means that once instantiated the widget can update its contents accordingly previous tag selection in the current tab page.



Proxy Deletion

In our use case we need to perform a deletion of the created proxy when the widget is refreshed by the end user. This appends when using the "Refresh" item in the action menu of the widget [7]. Indeed the widget does not subscribe to the `onRefresh` event, so the `onLoad` method is triggered when the Refresh item is selected. The widget callback order is explained in the referenced article [3].

So in the `onLoad` before creating the proxy, if the proxy already exists we delete it.

```
...
if ( taggerProxy ) {
    taggerProxy.die();
}
taggerProxy = TagNavigatorProxy.createProxy(options);
...
```

If the widget is reloaded by the dashboard, the deletion is automatically performed by the 3DDashboard engine.



In Short

You have learnt how to create the proxy and manage its lifecycle. You have learnt how to manage the widget UI after a previous tag selection (before the widget instantiation) or a new one.



References

- [1] 6WTagger Integration- API
- [2] 6WTagger Integration - Principles
- [3] Widget Object
- [4] Installing and Launching Widget Use Case
- [5] AMD Concepts
- [6] 6WTags Edition
- [7] 3DEXPERIENCE Applications



History

Version: **1** [March 2017] Document created



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About 6W Vocabulary Web Services

Technical Article

Abstract

In 2019x, administrators of **3DEXPERIENCE** platform can **import** and **delete** 6W vocabularies through the Vocabularies widget in the Platform Management dashboard. From now on, there are REST web services to perform these operations. This article first recalls what 6W vocabularies are, then details the web services use, and finally gives a means to experience them.

The reader can have a first glance of the topic with the User Assistance documentation in the Installation and Setup | Administrate | 3DEXPERIENCE Platform | 3DSpace | Enterprise Control Center | Managing Vocabulary Files" section.

- 6W Vocabularies
 - Definitions
 - RDF File
 - Openness
- About REST Web Services
 - Authentication, Authorization and Security
 - MIME Types
 - Security Context
 - CSRF Token
 - Responses
- Experiencing REST Web Services
 - In Short
 - References
 - History

6W Vocabularies

Below some explanations about 6W vocabularies. You must be familiar with XML, Resource Description Framework (RDF) and Web Ontology Language (OWL) concepts and technologies.

Definitions

A 6W vocabulary is an unified and well-structured **dictionary** that is used by 6WTags service to enrich meta-data semantics. Such dictionaries are defined and imported in the **3DEXPERIENCE** through RDF files.

A 6W vocabulary **consists of** several definitions:

- One ontology.
- One or more 6W predicates.

Once the vocabulary is imported, you can associate the newly created predicates with custom attributes of 3DSpace objects. As platform manager you have access to the "Collaborative Spaces Configuration Center" widget for creating those links. Instance of such 3DSpace objects will have implicit tags (the ones computed from object attributes) including your predicates.

For more information about 6WTag, predicate and implicit tag, the referenced article [5] may be useful.

About Ontology

An **ontology** is identified through a **prefix** and a **namespace**.

The prefix is a human-readable short-name which is viewed as the prefix of the namespace in the XML terminology. For example, for such namespace <http://www.example.com/vocabularies/caavocab/> the prefix would be `caavocab`.

Mandatory:

- The prefix must be unique for a **3DEXPERIENCE** platform instance.

Recommendations:

- Choose a short string and lowercase for the prefix.
- Use brand name, or company name to create a unique name.
- Use the terminal part of the namespace to define the prefix.
- The namespace is not necessary a real URL, but it can be.

In the APIs, the prefix is mentioned as the **name**.

A **label** and a **description** may be associated with the ontology.

Labels and descriptions for ontologies are visible in the user interface. In the Vocabularies widget they are the Name and Description columns respectively.

About 6W Predicate

A 6W predicate must **derive** from a **root predicate** defined in the **6W Vocabulary**: what, where, when, who, why, how.

The predicate URI is the namespace of the ontology where a predicate **name** is appended. Example with the previous ontology namespace, for the predicate name "mypredicate", its complete URI is <http://www.example.com/vocabularies/caavocab/mypredicate>. Choose preferably a short noun for the predicate name.

It can only define a relationship between a subject and a **literal**. The type of the literal is defined by the predicate **range**. It can be a string, a boolean, an integer, a double or a date only.

A predicate has a **label** which appears in UI. You can specify a comment, but it will be not visible in the UI (current DS widgets).

About NLS

Label, description for ontologies and predicates can be internationalized.

Languages are defined by their iso code (two digits). You can insert more languages than the ones supported by the **3DEXPERIENCE**, they will just not be used in the **3DEXPERIENCE** user interface. For less, see the fallback section.

Fallback rules (available for Ontologies and Predicates):

- If the current language in the UI is English, and English text does not exist, the internal name of the entity is used. For an ontology it means its prefix, and for a predicate its name.
- If the current language in the UI is not English, and the text does not exist for this language, the English text is used, if any, the internal name of the entity is used.

Limitations

Translation of literals is not supported.

RDF File

The RDF file is an **XML** document which can be divided in four parts:

```
The prolog
<rdf:RDF The vocabulary header >
  The ontology definition
  The predicate definitions
</rdf:RDF>
```



Where `rdf:RDF` is the tag name of the root element.

The prolog

The **prolog** includes information that applies to the whole document.

At the top must be present the XML version, and optionally, but recommended, the character encoding.

```
<?xml version="1.0" encoding="UTF-8" ?>
```

Then **alias** may be defined using the `DOCTYPE` declaration.

```
<!DOCTYPE rdf:RDF [
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#" >
  <!ENTITY ds6w "http://www.3ds.com/vocabularies/ds6w#" >
  > ]
>
```

Alias are simplifying the reading (and writing) of your RDF documents. Alias are defined between [], and each one is an `ENTITY` declaration. Such declaration contains an entity name (first string without double quote) and an entity value (second string with double quote). In the document, instead to use the entity value, use its alias, the entity name enclosed by & and ;. For example, if you write `&ds6w;`, the XML parsing replaces it by `http://www.3ds.com/vocabularies/ds6w#`.

If `DOCTYPE` exists, its root element (the name just after `DOCTYPE`) is always `rdf:RDF`.

The alias presented in the code sample are for indication.

The vocabulary header

The vocabulary **header** consists in defining the attributes of the `rdf:RDF` XML element.

```
xmlns:caavocab="http://www.3ds.com/vocabularies/caavocab/"
xml:base="http://www.3ds.com/vocabularies/caavocab/"
xmlns:xml="http://www.w3.org/XML/1998/namespace"
xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:owl="http://www.w3.org/2002/07/owl#"
xmlns:ds6w="http://www.3ds.com/vocabularies/ds6w#"
```

Attributes, their declaration order does not matter, are from top down:

- `xmlns:caavocab`, declares (defines) the schema prefix and its namespace for the new ontology.
- `xml:base`, defines the base URI document. This base URI is also a writing facilitator. We recommend to use the new ontology namespace as base URI.
- From `xmlns:xml` to `xmlns:ds6w`, declares schema prefixes and their namespaces used in the child elements of the `rdf:RDF` element. All mentioned in this sample code are mandatory for any new 6W vocabularies.

Insert only one non existing prefix, otherwise the import web service behavior is not guaranteed.

The ontology definition

The vocabulary contains at least the `owl:Ontology` child element:

```
<owl:Ontology rdf:about="">
  <rdfs:label xml:lang="en">...</rdfs:label>
  <rdfs:comment xml:lang="en">...</rdfs:comment>
  <rdfs:label xml:lang="fr">...</rdfs:label>
  <rdfs:comment xml:lang="fr">...</rdfs:comment>
  <owl:versionInfo>...</owl:versionInfo>
</owl:Ontology>
```

Its `rdf:about` attribute is mandatory. Its value defines the ontology URI. Since, here, the attribute value is not an absolute URI, the base URI is first prefixed. The ontology URI is `http://www.3ds.com/vocabularies/caavocab/ + attribute value`, so finally `"http://www.3ds.com/vocabularies/caavocab/"`

The `owl:Ontology` child elements can included (all optional):

- Several `rdfs:label` elements to provide several NLS vocabulary names. The `xml:lang` attribute defines the language iso code.
- Several `rdfs:comment` elements to provide several NLS vocabulary descriptions. The `xml:lang` attribute defines the language iso code.
- One `owl:versionInfo` element. An information which is not used by the **3DEXPERIENCE** platform. The versioning methodology is up to you.

The predicate definitions

Each **6W predicate** definition is a `owl:DatatypeProperty` element since its value can only be a literal. Below a sample code:

```
<owl:DatatypeProperty rdf:about="samplewhat">
  <rdfs:subPropertyOf rdf:resource="&ds6w;what"/>
  <rdfs:range rdf:resource="&xsd:string"/>
  <rdfs:label xml:lang="en">What sample predicate</rdfs:label>
  <rdfs:comment xml:lang="en">A sample What predicate</rdfs:comment>
  <rdfs:label xml:lang="fr">What sample predicate</rdfs:label>
  <rdfs:comment xml:lang="fr">A sample What predicate</rdfs:comment>
</owl:DatatypeProperty>
```

The `rdf:about` attribute is mandatory. Its value defines the predicate URI. Since, here, the attribute value is not an absolute URI, the base URI is used. The predicate URI is `http://www.3ds.com/vocabularies/caavocab/ + attribute value`, so finally `"http://www.3ds.com/vocabularies/caavocab/samplewhat"`. We recommend to build the `rdf:about` attribute value in two parts: `<commonstring><what|where|when|why|who|how>`.

The **mandatory** `owl:DatatypeProperty` child elements are:

- The `rdfs:subPropertyOf` element. It defined the parent predicate. The value of the `rdf:resource` attribute is a root 6W predicate URI. You can only have:
 - `http://www.3ds.com/vocabularies/ds6w#what`
 - `http://www.3ds.com/vocabularies/ds6w#where`
 - `http://www.3ds.com/vocabularies/ds6w#when`
 - `http://www.3ds.com/vocabularies/ds6w#why`
 - `http://www.3ds.com/vocabularies/ds6w#who`
 - `http://www.3ds.com/vocabularies/ds6w#how`

In the example, `&ds6w;` is an alias, defined at the top of the RDF file, to represent the 6W vocabulary URI.

The letter case is important, writing `rdf:resource="&ds6w;What` is wrong.

- The `rdfs:range` element defines the literal type. To be mapped to a custom attribute of a 3DSpace object, the only supported types are:

Rdf Type	PLM Attribut Type
xsd:string	string, string (16), string (40), string (80)
xsd:integer	integer
xsd:double	real
xsd:boolean	boolean
xsd:date	date

The **optional** `owl:DatatypeProperty` child elements are:

- Several `rdfs:label` elements to provide several NLS predicate names. Such names appear for example in the 6WTagger and in CollabSpace Configuration Center widget. The `xml:lang` attribute defines the language iso code.
- Several `rdfs:comment` elements to provide several NLS predicate descriptions. Such information is not used by the UI. The `xml:lang` attribute defines the language iso code.

As usual RDF files, as any XML documents can contain comments:

```
<!-- the comment -->
```

The Experiencing REST Web Services section, further in the article, gives a complete RDF file.

NLS Data

Openness

There is an API to **import** and one to **delete** a 6W vocabulary.

- Import
You can only import a new 6W vocabulary. The request body is the RDF file (XML document).
- Deletion
You can only delete a custom 6W vocabulary. Deleting an OOTB one triggers an error.

For updating a 6W vocabulary already existing in database, first delete it, and then re-import its definition. This operation is unsafe if predicates are already associated with 3DSpace object attributes.

About REST Web Services

The web services to handle 6W vocabularies follow the rules described in the "About 3DSpace Web Services" [1] since they are 3DSpace web services. This section sets up, or recalls, some important key points.

Authentication, Authorization and Security

Using these web services require:

- To be CAS authenticated and 3DSpace logged [2],
- To be granted with an admin role to access 3DSpace,
- To detain a Collaborative Industry Innovator (CSV) role,
- To get and use a 3DSpace CSRF token.

MIME Types

The expected format of the response bodies (Accept-Type) is JSON. The contents of the body (Content-Type for the POST) is defined in XML.

```
headers: {  
  ...  
  "Accept-Type" : "application/json", (always)  
  "Content-Type" : "application/xml", (for POST only)  
  "Accept-Language" : "en|fr|...", (optional, by default English)  
  ...  
}
```

The header **Accept-Language** is taken into account for the import response body. Labels and comments in the response body are those of the requested language. The fallback is English.

Security Context

All the web services require a security context passed in the "SecurityContext" request header field. The security context must be associated with the connected person to be valid. Moreover, for security reason, only people with an admin role (Pn0 meaning) can import and delete vocabularies.

```
headers: {  
  ...  
  "SecurityContext": encodeURIComponent("Owner.My org2.My Collab Space") ,  
  ...  
}
```

Do not forget to encode it with URI format. It is safer if role, organization and collaborative space names may contain special chars.

CSRF Token

All the web services require the 3DSpace CSRF token. Get it using the Get CSRF token web service, and pass the value in the HTTP request header with `ENO_CSRF_TOKEN` as field name.

```
headers: {  
  ...  
  "ENO_CSRF_TOKEN" : "<the_value_returned_by_the_get_csrf_token_ws>",  
  ...  
}
```

Responses

Successful Responses

A successful response means the requested action has been performed: either the creation, or the deletion.

- The status code is 201 (for creation with POST verb), and 204 (for delete with DELETE verb).
- The body is a JSON except for the deletion returning nothing.

Failure Responses

Whatever the failure response, it means the requested action has not been performed: neither the creation, nor the deletion.

As explained in the referenced article [3] there are three levels of errors:

- Generic HTTP failure cases: 404, 415, ...
- Generic 3DSpace failure cases: 401, with a JSON body as follow:

```
{
  "error": {
    "code": "INFXXX",
    "message": "...",
  }
}
```

They are all about a wrong, invalid, or missing security context.

- Specific 6W vocabulary web service failure cases. The HTTP failure codes can be 400, 404, 403, 409, and 500 with a JSON body as follow:

```
{
  "error": {
    "code": "FDAXXX",
    "message": "...",
  }
}
```

Each web service lists the possible FDA codes, their meaning, and their respective HTTP response codes.



Experiencing REST Web Services

You cannot test **3DEXPERIENCE** web services without an initial authentication. Therefore, CAA provides a batch named CAAi3dxScenarioWithCSRFMain first executing the login, and then consuming 3DSpace web services listed in an input file. Each web service is consumed along with a CSRF token. The referenced article [4] explains how the batch works and how to launch it.

Below the lines you can copy/paste to create the batch input file.

Vocabulary Creation

Either by including the 6W vocabulary, collapsed to form one line.

```
# import caavocab
10=POST./resources/6WVocab/authoring/Vocabulary
10_XML= copy/paste the line from this file
```

Or create a file, let's say myVocabulary1.txt (file extension does not matter), containing the 6W vocabulary.

```
# import caavocab1
20=POST./resources/6WVocab/authoring/Vocabulary
20_XML_File=myVocabulary1.txt
```

Vocabulary Deletion

```
# delete caavocab and caavocab1
30=DELETE./resources/6WVocab/authoring/Vocabulary?name=caavocab
40=DELETE./resources/6WVocab/authoring/Vocabulary?name=caavocab1
```



In Short

Vocabularies exposes web services which are RESTful compliant. This article explains how to build up such a HTTP request, and how to understand the response.



References

- [1] About 3DSpace Web Services
- [2] Performing Service Login and Logout
- [3] 3DSpace Web Service HTTP Failures
- [4] Experiencing 3DSpace Web Services
- [5] 6WTagger Integration - Principles



History

Version: **2** [Nov 2022] Document updated: The API are available Cloud and OP, and the NLS is fully supported for ontologies and predicates via ttl in the request payload.

Version: **1** [January 2019] Document created



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Other patents pending.

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Jackson JSON processor

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The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains code derived from the Apache Flink project.

The class com.hazelcast.internal.util.ConcurrentReferenceHashMap contains code written by Doug Lea and updated within the WildFly project (<https://github.com/wildfly/wildfly>).

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The packages:

com.hazelcast.internal.util.collection

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and the classes:

com.hazelcast.internal.util.QuickMath

com.hazelcast.client.impl.protocol.util.UnsafeBuffer

com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project (<https://github.com/real-logic/Agrona>).

The class `com.hazelcast.internal.util.HashUtil` contains code originating from the Koloboke project (<https://github.com/OpenHFT/Koloboke>).

The class `classloading.ThreadLocalLeakTestUtils` contains code originating from the Tomcat project (<https://github.com/apache/tomcat>).

`com.hazelcast.internal.cluster.fed.PhiAccrualFailureDetector` contains code originating from the Akka project (<https://github.com/akka/akka/>).

The package `com.hazelcast.internal.json` contains code originating from minimal-json project (<https://github.com/ralfstx/minimal-json>).

The class `com.hazelcast.instance.impl.MobyNames` contains code originating from The Moby Project (<https://github.com/moby/moby>).

The class `com.hazelcast.internal.util.graph.BronKerboschCliqueFinder` contains code originating from The JGraphT Project (<https://github.com/jgraph/jgraph>).

The packages:

`com.hazelcast.sql`

`com.hazelcast.jet.sql`

contain code originating from the Apache Calcite (<https://github.com/apache/calcite>)

The class `com.hazelcast.jet.kafka.impl.ResumeTransactionUtil` contains code derived from the Apache Flink project.

The class `com.hazelcast.internal.util.ConcurrentReferenceHashMap` contains code written by Doug Lea and updated within the WildFly project (<https://github.com/wildfly/wildfly>).

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- org.apache.tomcat:tomcat-api
- org.apache.tomcat:tomcat-util-scan
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mathjs 10.1.1

math.js

<https://github.com/josdejong/mathjs>

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mathjs 4.3.0

math.js

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The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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2. ActiveState Thread pool with same API as (multi) processing.Pool (Python recipe):

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4. Mateusz Kwiatkowski Workaround for bug 62258 in libstdc++

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4. Mateusz Kwiatkowski Workaround for bug 62258 in libstdc++

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Version 3, 29 June 2007

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TensorFlow, Large-scale machine learning on heterogeneous systems

TensorFlow is a machine learning system that operates at large scale and in heterogeneous environments. TensorFlow uses dataflow graphs to represent computation, shared state, and the operations that mutate that state. It maps the nodes of a dataflow graph across many machines in a cluster, and within a machine across multiple computational devices, including multicore CPUs, general purpose GPUs, and custom-designed ASICs known as Tensor Processing Units (TPUs). This architecture gives flexibility to the application developer, whereas in previous "parameter server" designs the management of shared state is built into the system, TensorFlow enables developers to experiment with novel optimizations and training algorithms. TensorFlow supports a variety of applications, with a focus on training and inference on deep neural networks. Several Google services use TensorFlow in production, we have released it as an open-source project, and it has become widely used for machine learning research. In this paper, we describe the TensorFlow dataflow model and demonstrate the compelling performance that TensorFlow achieves for several real-world applications.

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- src/java/com/jogamp/common/net/Uri.java

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JCPP - A Java C Preprocessor

=====

<<http://www.anarres.org/projects/jcpp/>>

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Files:

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src/jogamp/graph/geom/plane/IllegalPathStateException.java

src/jogamp/graph/geom/plane/NoninvertibleTransformException.java

src/jogamp/graph/geom/plane/PathIterator.java

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PNGJ: Java library for reading and writing PNG images.

Version 1.12 (3 Dec 2012)

<<http://code.google.com/p/pngj/>>

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2 1.2 1995-1999 CNRI yes

1.6 1.5.2 2000 CNRI no

2.0 1.6 2000 BeOpen.com no

1.6.1 1.6 2001 CNRI yes (2)

2.1 2.0+1.6.1 2001 PSF no

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Name: ampgo

Files: benchmarks/benchmarks/go_benchmark_functions/*.py

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Functions for testing global optimizers, forked from the AMPGO project, <https://code.google.com/archive/p/ampgo>

Name: pybind11

Files: no source files are included, however pybind11 binary artifacts are included with every binary build of SciPy.

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Mesa 3-D graphics library

Version: 7.0

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jscript_hash

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

libgd

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zlib.h -- interface of the 'zlib' general purpose compression library
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Written by Fredrik Lundh, January 1999.

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curl

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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0.9.0 thru 1.2	1991-1995	CWI	yes	
1.3 thru 1.5.2	1.2 1995-1999	CNRI	yes	
1.6	1.5.2 2000	CNRI	no	
2.0	1.6 2000	BeOpen.com	no	
1.6.1	1.6 2001	CNRI	yes (2)	
2.1	2.0+1.6.1 2001	PSF	no	
2.0.1	2.0+1.6.1 2001	PSF	yes	
2.1.1	2.1+2.0.1 2001	PSF	yes	
2.1.2	2.1.1 2002	PSF	yes	
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pywin32

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Resources for Modelica.Utilities

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