



Rocket Uniface Library 10.4

\$dbgString

Get a string that represents the Struct or Struct collection, including annotations.

Struct -> **\$dbgString**

Return Values


Returns a string that can be used for debugging.

Table: Values of \$procerror Commonly Returned Following Struct Functions


Value	Error Constant	Meaning
-84	UACTERR_NO_OBJECT	<i>Struct</i> refers to zero Structs
-1151	USTRUCTERR_NO_COMMON_CHARACTERISTICS	Collection of Structs that do not share a common parent or the specified characteristic
-1157	USTRUCTERR_ILLEGAL_MEMBER_TYPE	Not a valid Struct member type

Description

Use **\$dbgString** when you need to verify the structure and annotations of a Struct.

 **Note:** If you do not need to see the annotations, use the Struct function **\$dbgStringPlain**.

\$dbgString is intended for use during development, to visually represent and format the contents of a struct variable. It can be used to display the Struct as string, for example, in the message frame.

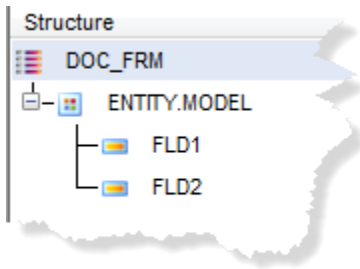
 **Note:** It is not intended to be a serialized form of the Struct. It is not possible to recreate a Struct from a string that was created this way.

The returned string shows a nested structure that includes both the normal Struct and the **\$tags** Structs:

- The name of the Struct is printed on the first line between square brackets, with proper indentation.
A Struct leaf is followed by an equal sign (=) and its value.
- String values are in double quotes.
- All other data types (numeric/float, date, raw, and so on) are displayed without quotes
A node with no members and no value is considered to hold an empty string
- If annotations exist, the **\$tags** Struct is displayed as the first Struct under a node; it precedes the member list.

Uniface Component Struct

For example, given the following component structure:



And the following runtime data:

The Struct function `$dbgstring` returns a formatted string that represents the Struct:

```
[DATA_FRM] ❶
[tags] ❷
  [u_type] = "component" ❸
[NM_ENTITY.NM] ❹
  [tags]
    [u_type] = "entity"
  [occ] ❺
    [tags]
      [u_type] = "occurrence"
      [FIELD1] = "Text can be bold or italic" ❻
      [tags]
        [u_type] = "field"
      [FIELD2] = "but not in all widgets."
      [tags]
        [u_type] = "field"
```

1. Named top-level Struct with name of component
2. \$tags Struct containing annotations for the member
3. u_type annotation indicates the component object that the Struct member represents
4. Named Struct node for entity
5. Struct node for occurrence. The name is fixed to OCC
6. Struct leaf for field

String Returned for an XML Struct

For example, consider the following XML code:

```
<div class="note">Text can be <b>bold</b> or <em>italic</em></div>
```

The Struct function `$dbgstring` returns a formatted string that represents the Struct:

```

[] ❶
  [div] ❷
    [$tags] ❸
      [xmlClass] = element ❹
      [class] = note ❺
      [$tags]
        [xmlClass] = attribute ❻
        [] = Text can be ❼
        [b] = bold ❺
        |
        [xmlClass] = element ❹
        [] = or ❼
        [em] = italic ❺
        [$tags]
          [xmlClass] = element

```

1. Top-level Struct.
2. Struct node.
3. \$tags Struct containing annotations for the member.
4. xmlClass shows that the member represents an XML element.
5. Struct leaf, with its value being the only member.
6. xmlClass shows that the member represents an XML attribute.

Related concepts

[\\$dbgStringPlain](#)