



What's new and changed in Adobe ColdFusion (2016 release) Update 3

Adobe Systems Incorporated

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ColdFusion 2016 Update 3 early access build is now available for testing.

Please note that this is an intermediate test build and must not be used in a production environment.

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Installing Update 3

The update can be installed manually, or from the administrator.

Installing the update from the Administrator:

1. Navigate to ColdFusion Administrator -> Server Updates -> Updates.
2. Under Settings tab, check "Automatically Check for Updates" check-box.
3. Change the Site URL to <https://cfdownload.adobe.com/pub/adobe/coldfusion/2016/prerelease/updates.xml>. In case a local site is configured for receiving update notifications, ensure the local site URL is backed-up before changing it to the URL mentioned above.
4. Click Submit to save your changes.
5. Under the "Available Updates" tab, click on the "Check for Updates" button.
6. "ColdFusion 2016 Update 3" should be listed under the "Available updates" tab.
7. Click on the "Download and Install" button to install the update.

Installing the update manually

1. Click on the below link to download the update JAR,
<https://cfdownload.adobe.com/pub/adobe/coldfusion/2016/prerelease/update3/hotfix-003-300232.jar>.
2. Execute the below command on the downloaded JAR.

Windows: `<cf_root>/jre/bin/java.exe -jar <jar-file-dir>/hotfix-003-300232.jar`

Linux based platforms: `<cf_root>/jre/bin/java -jar <jar-file-dir>/hotfix-003-300232.jar`

Ensure JRE bundled with CF is used for executing the downloaded JAR. For standalone CF, this must be at, `<cf_root>/jre/bin`

MD5 Checksum: 734805c0ba02d2eab8d99d2866588fbb

Post install

The build number of ColdFusion (2016 release) after applying the update must be 2016,0,03,300232.

Support for sorted structs

In Update 3, there is support for sorted structs. You can create a struct of type ordered with sort type as text and sort order as ascending.

The StructNew function has new parameters:

StructNew(structType, sortType, sortOrder, localeSensitive)

StructNew(structType, callback)

Parameter	Description
structType	(Optional) The type of struct to be created. This is new in Adobe ColdFusion (2016 release). You can specify either "Ordered" or leave structType blank.
sortType	(Optional) Sort types are text or numeric.
sortOrder	(Optional) Ascending ("asc") or descending ("desc").
localeSensitive	(Optional) True or false.
callback	(Optional) A comparator function that compares the keys and returns 1, 0, or -1.

StructNew maintains the sorted order instead of sorting it every time at runtime.

For example,

```
<cfscript>
    someStruct=StructNew("ordered","text","asc",false);
    someStruct.jonas = {age=26, department="IT"};
    someStruct.jason= {age=29, department="Analytics"};
    someStruct.johnnie = {age=31, department="Accounting"};
    someStruct.john = {age=31, department="Audit"};
    WriteDump(someStruct);
</cfscript>
```

Using callback function,

```
<cfscript>
sorted = structNew("ordered", function(e1,e3,e2,e4)
{
return compare(e1,e2);
});
    sorted.azure = "blue";
    sorted.adze = "tool";
    sorted.baffle = 01;
    sorted.adamantium = "dork";
    sorted.alabama = 3;
    sorted.ballad = 007;
    sorted.age = 36;
    sorted.aabc= "allardyce";
    sorted.baleful="hodgson";
    sorted.aardvark=-7;
```

```

sorted.back="sort";
writedump(sorted);
</cfscript>

```

StructToSorted function

StructToSorted is a new function that converts any struct to a sorted struct.

Note:

If the input struct has an inner struct , StructToSorted does not sort the inner struct. StructToSorted only sorts structs at the first level.

StructToSorted (anyStruct, sorttype, sortorder, localeSensitive)

<!-- Syntax with callback function-->

StructToSorted (anyStruct,callback)

Parameter	Description
anyStruct	The structure to be sorted.
sortType	Sort types are text or numeric. Text value produces a case-insensitive sort.
sortOrder	Ascending ("asc") or descending ("desc").
localeSensitive	True or false.

For example,

```

<cfscript>
mystruct=StructNew();
mystruct.k1="one";
mystruct.k4="five";
mystruct.k2="three";
mystruct.k3="two";
mystr=StructToSorted(mystruct,"text","asc",false);
writedump(mystr);
</cfscript>

```

For example with callback,

```

<cfscript>
mystruct=StructNew();
mystruct.k1="one";
mystruct.k4="five";
mystruct.k2="three";
mystruct.k3="two";

callback=function(value1,value2,key1,key2)
{
if (key1>key2)

```

```

        return 1;
    else
        return -1;
};
mystr=StructToSorted(mystruct,callback);
writedump(mystr);
</cfscript>

```

The equivalent member function for StructToSorted is *anyStruct.ToSorted*. For example,

```

<cfscript>
mystruct=StructNew();
mystruct.k1="one";
mystruct.k4="five";
mystruct.k2="three";
mystruct.k3="two";
mystr=mystruct.ToSorted("text","asc",false);
writedump(mystr);
</cfscript>

```

With callback,

```

<cfscript>
mystruct=StructNew();
mystruct.k1="one";
mystruct.k4="five";
mystruct.k2="three";
mystruct.k3="two";

callback=function(value1,value2,key1,key2)
{
    if (key1>key2)
        return 1;
    else
        return -1;
};
mystr=mystruct.ToSorted(callback);
writedump(mystr);
</cfscript>

```

QueryGetResult function

QueryGetResult is a new function that returns the metadata of a query. For example,

```
<cfscript>
    myQuery=QueryExecute("SELECT * FROM EMPLOYEES",[],{datasource="cfdocexamples"});
    myResult=QueryGetResult(myQuery);
    WriteDump(myResult);
</cfscript>
```

IsDateObject function

IsDateObject is a new function that determines whether a value is a date/time object. The difference between IsDateObject and IsDate is that isDate returns true for date/time objects as well as date/time strings.

IsDateObject(value), where value is the variable.

For example,

```
<cfscript>
    writeoutput(isDateObject(DateDiff("ww","2016-1-1","2016-12-31"))); // displays NO
    writeoutput(isDateObject(now())); // displays YES
</cfscript>
```

Other function and tag changes

Change	Description
cfhtmltopdfitem tag	There is a new attribute evalAtPrint for cfhtmltopdfitem tag. If set to true, then the content of cfhtmltopdfitem is evaluated after the PDF has been generated and the page numbers are available for each page. This allows you to have some conditional code inside the cfhtmltopdfitem.
cfoject tag	New attributes- domain, username, and password.
CreateObject function	New attributes- domain, username, and password.
ImageScaleToFit and ImageResize fucntions	You can set the blurFactor to zero.
SerializeJSON function	There is a new parameter useSecureJSONPrefix. When Prefix Serialized JSON is enabled in the ColdFusion Administrator, then by default this function inserts the secure json prefix at the beginning of the json.
DateDiff function	The parameter "w" now returns the number of weekdays.
IsValid function	There is a new type <i>datetime_object</i> . This type represents any valid ColdFusion date/time object.
LSTimeFormat function	The time format is now in hh:mm:ss, instead of hh:mm. For example,

	LSTimeFormat(CreateDateTime(2003,05,14,17,22,00)) displays 5:22:00 PM instead of 5:22 PM.
DateFormat function	<p>In the DateFormat function, the following are new and updated:</p> <ul style="list-style-type: none"> • You can use both lowercase and uppercase letters as mask characters. • You can use the mask YYYY to display the complete year, for example, 2016 instead of 16. • There are new masks: <ul style="list-style-type: none"> ○ e/E: Day in a week. ○ f/F: Day of a week in a month. ○ k/K: Hour in a day (1-24). ○ w: Week in a month. ○ W: Week in a year.
DateTimeFormat function	<p>You can now use the following masks as shown below:</p> <ul style="list-style-type: none"> • t: Displays single-character time marker string, for example, A or P. • tt: Displays multi-character time marker string, for example, AM or PM.
LSDatetimeFormat function	<p>You can now use the following masks as shown below:</p> <ul style="list-style-type: none"> • t: Displays single-character time marker string, for example, A or P. • tt: Displays multi-character time marker string, for example, AM or PM.
LSParseDateTime function	<p>You can now use the masks t and tt to create a date/time object. For single-character time marker string, use t. For multiple-character time marker string, use tt.</p> <p>In addition, to specify minutes, use nn instead of mm.</p>