

## Technical Articles



Shanthi Bhaskar

December 6, 2019 | 4 minute read

# All about CDS Annotations

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This blog would give insights about the Annotations used in the S4HANA CDS DDL views.

If you are beginner then you will be puzzled what are the available Annotations which we can use while creating a CDS view. SAP doesn't allow any customer specific annotations so you have to use what ever SAP delivered.

Below is the whole list available in English and sorted by Annotation group. Intentionally added in code format so that it would easy to copy ?

```
AbapCatalog.buffering.numberOfKeyFields
AbapCatalog.buffering.status
AbapCatalog.buffering.type
```

AbapCatalog.compiler.compareFilter  
AbapCatalog.dbHints[ ].dbSystem  
AbapCatalog.dbHints[ ].hint  
AbapCatalog.preserveKey  
AbapCatalog.sqlViewAppendName  
AbapCatalog.sqlViewName  
AbapCatalog.viewEnhancementCategory[ ]  
AccessControl.authorizationCheck  
ClientDependent  
ClientHandling.algorithm  
ClientHandling.type  
Consumption.defaultValue  
Consumption.derivation.binding[ ].targetElement  
Consumption.derivation.binding[ ].targetParameter  
Consumption.derivation.binding[ ].type  
Consumption.derivation.binding[ ].value  
Consumption.derivation.derivationFilter  
Consumption.derivation.lookupEntity  
Consumption.derivation.procedure  
Consumption.derivation.resultElement  
Consumption.filter.defaultValue  
Consumption.filter.hidden  
Consumption.filter.hierarchyBinding[ ].type  
Consumption.filter.hierarchyBinding[ ].value  
Consumption.filter.hierarchyBinding[ ].variableSequence  
Consumption.filter.mandatory  
Consumption.filter.multipleSelections  
Consumption.filter.selectionType  
Consumption.groupWithElement  
Consumption.hidden  
Consumption.labelElement  
Consumption.quickInfoElement  
Consumption.semanticObject  
Consumption.valueHelp  
DataAging.noAgingRestriction

EndUserText.label  
EndUserText.quickInfo  
Environment.sql.passValue  
Environment.systemField  
MappingRole  
Metadata.allowExtensions  
Metadata.ignorePropagatedAnnotations  
Metadata.layer  
OData.publish  
ObjectModel.association.type[ ]  
ObjectModel.compositionRoot  
ObjectModel.createEnabled  
ObjectModel.dataCategory  
ObjectModel.deleteEnabled  
ObjectModel.foreignKey.association  
ObjectModel.mandatory  
ObjectModel.modelCategory  
ObjectModel.readOnly  
ObjectModel.representativeKey  
ObjectModel.semanticKey[ ]  
ObjectModel.text.association  
ObjectModel.text.element[ ]  
ObjectModel.updateEnabled  
ObjectModel.writeActivePersistence  
ObjectModel.writeDraftPersistence  
ObjectModel.writeEnabled  
Semantics.address.city  
Semantics.address.country  
Semantics.address.label  
Semantics.address.postBox  
Semantics.address.region  
Semantics.address.street  
Semantics.address.subRegion  
Semantics.address.type[ ]  
Semantics.address.zipCode

Semantics.amount.currencyCode  
Semantics.businessDate.at  
Semantics.businessDate.createdAt  
Semantics.businessDate.from  
Semantics.businessDate.lastChangedAt  
Semantics.businessDate.to  
Semantics.calendar.dayOfMonth  
Semantics.calendar.dayOfYear  
Semantics.calendar.month  
Semantics.calendar.quarter  
Semantics.calendar.week  
Semantics.calendar.year  
Semantics.calendar.yearMonth  
Semantics.calendar.yearQuarter  
Semantics.calendar.yearWeek  
Semantics.calendarItem.categories  
Semantics.calendarItem.class  
Semantics.calendarItem.completed  
Semantics.calendarItem.contact  
Semantics.calendarItem.description  
Semantics.calendarItem.dtEnd  
Semantics.calendarItem.dtStart  
Semantics.calendarItem.due  
Semantics.calendarItem.duration  
Semantics.calendarItem.fbType  
Semantics.calendarItem.location  
Semantics.calendarItem.percentComplete  
Semantics.calendarItem.priority  
Semantics.calendarItem.status  
Semantics.calendarItem.summary  
Semantics.calendarItem.transparent  
Semantics.calendarItem.wholeDay  
Semantics.contact.birthDate  
Semantics.contact.note  
Semantics.contact.photo

Semantics.contact.type  
Semantics.currencyCode  
Semantics.eMail.address  
Semantics.eMail.bcc  
Semantics.eMail.body  
Semantics.eMail.cc  
Semantics.eMail.from  
Semantics.eMail.keywords  
Semantics.eMail.received  
Semantics.eMail.sender  
Semantics.eMail.subject  
Semantics.eMail.to  
Semantics.eMail.type[ ]  
Semantics.fiscal.period  
Semantics.fiscal.year  
Semantics.fiscal.yearPeriod  
Semantics.fiscal.yearVariant  
Semantics.geoLocation.cartoId  
Semantics.geoLocation.latitude  
Semantics.geoLocation.longitude  
Semantics.geoLocation.normalizedName  
Semantics.language  
Semantics.mimeType  
Semantics.name.additionalName  
Semantics.name.familyName  
Semantics.name.fullName  
Semantics.name.givenName  
Semantics.name.jobTitle  
Semantics.name.nickName  
Semantics.name.prefix  
Semantics.name.suffix  
Semantics.organization.name  
Semantics.organization.role  
Semantics.organization.unit  
Semantics.quantity.unitOfMeasure

```
Semantics.systemDate.createdAt  
Semantics.systemDate.lastChangedAt  
Semantics.telephone.type[ ]  
Semantics.text  
Semantics.time  
Semantics.unitOfMeasure  
Semantics.url.mimeType  
Semantics.user.createdBy  
Semantics.user.id  
Semantics.user.lastChangedBy  
Semantics.user.responsible
```

Next question is how we to get this list. It's pretty simple, every information in SAP stored in SAP tables itself ? in this case ABDOC\_CDS\_ANNOS

```
SELECT * FROM ABDOC_CDS_ANNOS where SPRAS = 'E'
```

You can check SAP help on these Annotations using the below link

[https://help.sap.com/doc/saphelp\\_nw751abap/7.51.0/en-US/63/0ce9b386b84e80bfade96779fbaeec/content.htm?no\\_cache=true](https://help.sap.com/doc/saphelp_nw751abap/7.51.0/en-US/63/0ce9b386b84e80bfade96779fbaeec/content.htm?no_cache=true)

## Framework-Specific Annotations

CDS annotations that (as a rule) are evaluated during runtime by specific frameworks such as **SADL**, **BOPF**, **Analytics**, or **Enterprise Search**:

- [Analytics Annotations](#)
- [AnalyticsDetails Annotations](#)
- [Consumption Annotations](#)
- [DefaultAggregation Annotations](#)
- [EnterpriseSearch Annotations](#)
- [Hierarchy Annotations](#)
- [ObjectModel Annotations](#)
- [OData Annotations](#)
- [Search Annotations](#)
- [Semantics Annotations](#)
- [UI Annotations](#)
- [VDM Annotations](#)

### ➔ Tip

To access help for an framework-specific annotation, position the cursor on relevant annotation in the DDL source editor and choose **F1**.

For more information, look here [Framework-Specific Annotations](#)

Now I want to explain how to get the list of Annotations used in a given CDS view. Recently I saw few questions in SDN about how to CDS views where Odata extraction is enabled, What are all Query CDS views which are available etc...You can play with SQL for answering questions about CDS meta data.

There were two SAP delivered CDS views one for header information and one for the field information.

## Header level Annotations of a CDS view

```
//This is select statement
Select
  * from
    CDSVIEWANNOPOS

//But I want see Annotations of one CDS view so I added where clause as shown below
Select
  * from
    CDSVIEWANNOPOS
  where cdsname = 'I_MATERIAL'
```

This is how **I\_MATERIAL** CDS was defined.



```

16 @AbapCatalog.sqlViewName: 'IMaterial'
17 @Analytics: { dataCategory: #DIMENSION, dataExtraction.enabled: true }
18 @VDM.viewType: #BASIC
19 @EndUserText.label: 'Material'
20 @ObjectModel.representativeKey: 'Material'
21 @AccessControl.authorizationCheck: #NOT_REQUIRED
22 @Search.searchable: true
23
24 @ObjectModel.usageType.serviceQuality: #A
25 @ObjectModel.usageType.sizeCategory: #M
26 @ObjectModel.usageType.dataClass: #MASTER

```

### Header Annotations

```

27 define view I_Material as select from mara
28 association [0..*] to I_MaterialText as _Text on $projection.Material = _Text.Material
29 association [0..1] to I_MaterialType as _MaterialType on $projection.MaterialType = _MaterialType.MaterialType
30 association [0..1] to I_MaterialGroup as _MaterialGroup on $projection.MaterialGroup = _MaterialGroup.MaterialGroup
31 association [0..1] to I_UnitOfMeasure as _BaseUnit on $projection.MaterialBaseUnit = _BaseUnit.UnitOfMeasure
32 association [0..1] to I_UnitOfMeasure as _WeightUnit on $projection.MaterialWeightUnit = _WeightUnit.UnitOfMeasure
33 association [0..*] to I_MaterialPlant as _MaterialPlant on $projection.Material = _MaterialPlant.Material
34 {
35   --@EndUserText.label: 'Material'
36   @Search.defaultSearchElement: true
37   @Search.fuzzinessThreshold: 0.8
38   @ObjectModel.text.association: '_Text'
39   key mara.matnr as Material, _Text,
40
41   --@EndUserText.label: 'Material Type'
42   mara.mtart as MaterialType, _MaterialType,
43
44   --@EndUserText.label: 'Material Group'
45   mara.matkl as MaterialGroup, _MaterialGroup,
46
47   --@EndUserText.label: 'Base Unit of Measure'
48   @Semantics.unitOfMeasure: true
49   @ObjectModel.foreignKey.association: '_BaseUnit'
50   mara.meins as MaterialBaseUnit, _BaseUnit,
51
52   --@EndUserText.label: 'Gross Weight'
53   @Semantics.quantity.unitOfMeasure: 'MaterialWeightUnit'
54   @DefaultAggregation: #NONE
55   mara.brgew as MaterialGrossWeight,
56
57   --@EndUserText.label: 'Net Weight'
58   @Semantics.quantity.unitOfMeasure: 'MaterialWeightUnit'
59   @DefaultAggregation: #NONE
60   mara.ntgew as MaterialNetWeight,
61
62   --@EndUserText.label: 'Weight Unit'
63   @Semantics.unitOfMeasure: true
64   @ObjectModel.foreignKey.association: '_WeightUnit'
65   mara.gewei as MaterialWeightUnit, _WeightUnit,
66
67   mara.mfrnr as MaterialManufacturerNumber,
68   mara.mfrpn as MaterialManufacturerPartNumber,
69 }

```

### Field Annotations

```

55
56      _MaterialPlant
57
58  }
59

```

This is the output of the select statement if we execute the 2nd SQL shown above code sample

Filter pattern


21 rows retrieved - 2 ms

RB	CDSNAME	RB	ANNOTATIONNAME	RB	ANNOTATIONVALUE	12	ACTUALPOSITION	12	CHANGEDPOSITION
I_MATERIAL			ABAPCATALOG				1		0
I_MATERIAL			ABAPCATALOG.SQLVIEWNAME		'IMaterial'		2		1
I_MATERIAL			ANALYTICS				3		2
I_MATERIAL			ANALYTICS.DATACATEGORY		#DIMENSION		4		3
I_MATERIAL			ANALYTICS.DATAEXTRACTION				5		4
I_MATERIAL			ANALYTICS.DATAEXTRACTION.ENA...		true		6		5
I_MATERIAL			VDM				7		6
I_MATERIAL			VDM.VIEWTYPE		#BASIC		8		7
I_MATERIAL			ENDUSERTEXT				9		8
I_MATERIAL			ENDUSERTEXT.LABEL		'Material'		10		9
I_MATERIAL			OBJECTMODEL				11		10
I_MATERIAL			OBJECTMODEL.REPRESENTATIVEKEY		'Material'		12		11
I_MATERIAL			ACCESSCONTROL				13		12
I_MATERIAL			ACCESSCONTROL.AUTHORIZATION...		#NOT_REQUIRED		14		13
I_MATERIAL			SEARCH				15		14
I_MATERIAL			SEARCH.SEARCHABLE		true		16		15
I_MATERIAL			OBJECTMODEL				17		16
I_MATERIAL			OBJECTMODEL.USAGETYPE				18		17
I_MATERIAL			OBJECTMODEL.USAGETYPE.SERVICE...		#A		19		18
I_MATERIAL			OBJECTMODEL.USAGETYPE.SIZECAT...		#M		20		19
I_MATERIAL			OBJECTMODEL.USAGETYPE.DATAACL...		#MASTER		21		20

We can notice highlighted Annotations which doesn't exist in the CDS , these are the Annotation groups related to the Annotations defined in the CDS.

So I had modified the SQL statement so that output shows only Annotations available in CDS

```
Select
* from
CDSVIEWANNOPOS
where cdsname = 'I_MATERIAL'
AND ANNOTATIONNAME LIKE '%.%'
```

Filter pattern  13 rows retrieved - 5 ms									
AB	CDSNAME	AB	ANNOTATIONNAME	AB	ANNOTATIONVALUE	12	ACTUALPOSITION	12	CHANGEDPOSITION
	I_MATERIAL		ABAPCATALOG.SQLVIEWNAME		'IMaterial'		2		1
	I_MATERIAL		ANALYTICS.DATACATEGORY		#DIMENSION		4		3
	I_MATERIAL		ANALYTICS.DATAEXTRACTION				5		4
	I_MATERIAL		ANALYTICS.DATAEXTRACTION.ENABLED		true		6		5
	I_MATERIAL		VDM.VIEWTYPE		#BASIC		8		7
	I_MATERIAL		ENDUSERTEXT.LABEL		'Material'		10		9
	I_MATERIAL		OBJECTMODEL.REPRESENTATIVEKEY		'Material'		12		11
	I_MATERIAL		ACCESSCONTROL.AUTHORIZATIONCHECK		#NOT_REQUIRED		14		13
	I_MATERIAL		SEARCH.SEARCHABLE		true		16		15
	I_MATERIAL		OBJECTMODEL.USAGETYPE				18		17
	I_MATERIAL		OBJECTMODEL.USAGETYPE.SERVICEQUALITY		#A		19		18
	I_MATERIAL		OBJECTMODEL.USAGETYPE.SIZECATEGORY		#M		20		19
	I_MATERIAL		OBJECTMODEL.USAGETYPE.DATAClass		#MASTER		21		20

Field level Annotation of a CDS view

```
select * from
CDS_FIELD_ANNOTATION
WHERE CDSNAME = 'I_MATERIAL'
and ANNOTATIONNAME LIKE '%.%'
```

Filter pattern 16 rows retrieved - 6 ms											
RB	CDSNAME	RB	FIELDNAME	RB	ANNOTATIONNAME	RB	ANNOTATIONVALUE	12	ACTUALPOSITION	RB	NEXTANNOTATIONNAME
I_MATERIAL	MANDT		MANDT	ABAPCATALOG.INTERNAL					2	ABAPCATALOG.INTERNAL.ISMANDT	
I_MATERIAL	MANDT		MANDT	ABAPCATALOG.INTERNAL.ISMANDT					3		
I_MATERIAL	MATERIALBASEUNIT		MATERIALBASEUNIT	OBJECTMODEL.FOREIGNKEY					14	OBJECTMODEL.FOREIGNKEY.ASSOCIATION	
I_MATERIAL	MATERIALWEIGHTUNIT		MATERIALWEIGHTUNIT	OBJECTMODEL.FOREIGNKEY					29	OBJECTMODEL.FOREIGNKEY.ASSOCIATION	
I_MATERIAL	MATERIAL		MATERIAL	OBJECTMODEL.TEXT					9	OBJECTMODEL.TEXT.ASSOCIATION	
I_MATERIAL	MATERIALNETWEIGHT		MATERIALNETWEIGHT	SEMANTICS.QUANTITY					22	SEMANTICS.QUANTITY.UNITOFMEASURE	
I_MATERIAL	MATERIALGROSSWEIGHT		MATERIALGROSSWEIGHT	SEMANTICS.QUANTITY					17	SEMANTICS.QUANTITY.UNITOFMEASURE	
I_MATERIAL	MATERIALBASEUNIT		MATERIALBASEUNIT	OBJECTMODEL.FOREIGNKEY.ASSOCIATION		'_BaseUnit'			15		
I_MATERIAL	MATERIALWEIGHTUNIT		MATERIALWEIGHTUNIT	OBJECTMODEL.FOREIGNKEY.ASSOCIATION		'_WeightUnit'			30		
I_MATERIAL	MATERIALGROSSWEIGHT		MATERIALGROSSWEIGHT	SEMANTICS.QUANTITY.UNITOFMEASURE		'MaterialWeightUnit'			18	DEFAULTAGGREGATION	
I_MATERIAL	MATERIALNETWEIGHT		MATERIALNETWEIGHT	SEMANTICS.QUANTITY.UNITOFMEASURE		'MaterialWeightUnit'			23	DEFAULTAGGREGATION	
I_MATERIAL	MATERIAL		MATERIAL	OBJECTMODEL.TEXT.ASSOCIATION		'_Text'			10		
I_MATERIAL	MATERIAL		MATERIAL	SEARCH.DEFAULTSEARCHELEMENT		true			5	SEARCH	
I_MATERIAL	MATERIAL		MATERIAL	SEARCH.FUZZINESSTHRESHOLD		0.8			7	OBJECTMODEL	
I_MATERIAL	MATERIALBASEUNIT		MATERIALBASEUNIT	SEMANTICS.UNITOFMEASURE		true			12	OBJECTMODEL	
I_MATERIAL	MATERIALWEIGHTUNIT		MATERIALWEIGHTUNIT	SEMANTICS.UNITOFMEASURE		true			27	OBJECTMODEL	

Hope this blog will give kick start on the annotations.

Please leave your comments and suggetions so that I can add if anything missing or wrong.

Thanks,

Shanthi

Alert Moderator

## Assigned tags

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## Related Questions



---

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## 12 Comments

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You must be [Logged on](#) to comment or reply to a post.



Ahmed khan

March 28, 2020 at 1:39 pm

What an awesome blog....bro just one thing is missing, which annotation i have to use on which scenario. if you can guide me for it would be really helpful.

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**Shanthi Bhaskar** | Blog Post Author

April 3, 2020 at 6:58 pm

Please use below in for the documentation

[https://help.sap.com/doc/abapdocu\\_750\\_index\\_htm/7.50/en-US/abencds\\_annotations\\_sap.htm](https://help.sap.com/doc/abapdocu_750_index_htm/7.50/en-US/abencds_annotations_sap.htm)

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**Andre Fischer**

April 30, 2020 at 5:53 pm

Very informative!

Like 1 | Share



**Sunny G**

July 18, 2020 at 6:28 am

Hello Andre - The author (Shanti Bhaskar) has copied the content from the below link and posted it here as his blog post. This author is a plagiarism king and all he does is to copy the contents from other sites and post it here as his own post. The entire post has been copied and pasted here blindly. Following is the link from which he has copied:

<http://sapabapcentral.blogspot.com/2019/12/all-about-cds-annotations.html>

Kindly review the same and request you to take the strictest of action against such people who are destroying this wonderful forum.

PS: The other blog posts of this user are also copied content from the web. One such example is the CDS view finder which he copied from SAPYARD (<https://blogs.sap.com/2020/05/31/abap-cds-view-finder/>). After I posted my comment on plagiarism, looks like this blog has



now been deleted.

Thanks

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**Jerry Janda**

July 18, 2020 at 1:21 pm

That other community post is currently off the site, as we are currently working with Shanthi on how to resolve.

In this case, Shanthi's post was published on December 6. The other was published on December 7

(<http://sapabapcentral.blogspot.com/2019/12/all-about-cds-annotations.html>). Considering that the time stamps are also dependent on time zones, we'd have to investigate further to see whether, in fact, this post actually came first (in which case someone else plagiarized this, and not the other way around).

One thing missing from the other is that Shanthi includes references to SAP Help and has also been knowledgeable enough to point people to that content in comments:

*You can check SAP help on these Annotations using the below link*

[https://help.sap.com/doc/saphelp\\_nw751abap/7.51.0/en-US/63/0ce9b386b84e80bfade96779fbaeec/content.htm?no\\_cache=true](https://help.sap.com/doc/saphelp_nw751abap/7.51.0/en-US/63/0ce9b386b84e80bfade96779fbaeec/content.htm?no_cache=true)

--Jerry

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**Shanthi Bhaskar** | Blog Post Author

February 23, 2021 at 1:35 am

Hi Jerry,

Thanks for your support.

Sorry for commenting so late here, Was very busy with Group reporting implementation.

Previously I had wrote a blog [ABAP CDS View\(s\) Finder](#) where I had referenced their blog and clearly I had mentioned source. But it was deleted as requested by SDN Moderator. **Now they are doing revenge drama on me 😊**.

Not sure what are they doing these kind of actions. After seeing a year like 2020 still people try to defame people unnecessary with Negative thoughts :(.



I am vivid learner and passionate SAP guy and always try to share the things. I had learnt so much and been learning here (SAP SCN), So will be keep posting the stuff as I learn.

Please refer the below screen cam where email time and date can be seen. I always keep track of my learnings in emails.

CDS View Header Annotations - CDSVIEWANNOPOS  Inbox X

 **Shanthy Bhaskar** <ba...@...>  
to me, Shanthy

Tue, Aug 13, 2019, 3:41 PM



CDSNAME	ANNOVIEWNAME	ANNOVIEWVALUE	ACTUALPOSITION	CHANGEDPOSITION
2019_PMO_KOIN	ANNOVIEWNAME		1	0
2019_PMO_KOIN	ANNOVIEWNAME		2	0
2019_PMO_KOIN	ANNOVIEWNAME		3	0
2019_PMO_KOIN	ANNOVIEWNAME		4	0
2019_PMO_KOIN	ANNOVIEWNAME		5	0
2019_PMO_KOIN	ANNOVIEWNAME		6	0
2019_PMO_KOIN	ANNOVIEWNAME		7	0
2019_PMO_KOIN	ANNOVIEWNAME		8	0
2019_PMO_KOIN	ANNOVIEWNAME		9	0
2019_PMO_KOIN	ANNOVIEWNAME		10	0
2019_PMO_KOIN	ANNOVIEWNAME		11	0
2019_PMO_KOIN	ANNOVIEWNAME		12	0
2019_PMO_KOIN	ANNOVIEWNAME		13	0
2019_PMO_KOIN	ANNOVIEWNAME		14	0
2019_PMO_KOIN	ANNOVIEWNAME		15	0
2019_PMO_KOIN	ANNOVIEWNAME		16	0
2019_PMO_KOIN	ANNOVIEWNAME		17	0
2019_PMO_KOIN	ANNOVIEWNAME		18	0
2019_PMO_KOIN	ANNOVIEWNAME		19	0
2019_PMO_KOIN	ANNOVIEWNAME		20	0

...  
Thanks & Regards,  
Shanthy

Thanks,  
Shanthy.

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**Shanthy Bhaskar** | Blog Post Author

February 23, 2021 at 1:42 am

Please check this thread - The original reason why I had published this blog.

<https://answers.sap.com/questions/12729039/how-to-identify-cds-views-which-are-enabled-for-da.html?childToView=12841087#answer-12841087>

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**Sunny G**

July 18, 2020 at 6:30 am

Shame on you Shanti Bhaskar for copying the content from other sites and posting it here as your own post.

Like 1 | Share



**Shanthi Bhaskar** | Blog Post Author

February 23, 2021 at 1:44 am



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**Shilpa R**

May 19, 2021 at 4:09 am

Hi [Shanthi Bhaskar](#), this blog is really helpful, But I had one doubt can we implement variant using CDS annotations?

Like 0 | Share



**Shanthi Bhaskar** | Blog Post Author

May 26, 2021 at 1:05 pm

I am not sure we have that option Shilpa.

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**Shilpa R**

May 27, 2021 at 4:49 pm

Ok thank you for your reply

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