# **CSK - CAD Systeme Kluwetasch**



# Agenda



- Alternate Part definition
- Collective Numbers definition
- Alternate Parts vs. Collective Parts
- Find the Parent Part
- Set the Parent Part
- The result of Parent Part
- Find the Child Part
- The result for the relation
- The Parent Part for the next Child
- > The result for the second relation
- Find parts with Alternates
- Show the parts with Alternates
- The result for our relation setting
- How to use Alternates in a BOM
- How to add All Alternates into the BOM
- The result of Add Alternates into the BOM
- Required synchronize after Add Alternates

- Check the added Alternates
- Check the Preferred Parts
- Select only Fitted Parts
- > As result the Preferred Parts
- Set Preferred Parts to fitted
- Alternate Database privileges
- Delete an Alternate Part
- The different Collective Numbers
- Add all Collective Numbers
- ➤ To create a BOM for only one supplier
- Delete all Collective Numbers in the BOM

# **Alternate Part Definition**



- Define any number of Alternative Parts /second sources
- Approve relations between Alternative Parts
- Optional bidirectional declarations
- Supports recursive alternative declarations
- Define Preferred Parts
- Using defined Alternatives in BOM-Management, Parts Stock and Library Searcher

Alterna	atives [Alternative D	atabase]						
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Define any number of Collective Parts

Approve relations between Collective Parts

### ➤ With Multi Cluster Index

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Partnumber	EMS-Name	EMS-Partnumber	Class	Value	Supplier	Supplier-MPN	Description
1000000			Capacitor	2.2nF	TDK	C1608X7R2A222K	2.2nF, TDK, C1608X7R2A222K
1000000	Bosch	8902211808	Capacitor	2.2nF	TDK	C1608X7R2A222K	
1000000	Hella	n/a	Capacitor	2.2nF	TDK	C1608X7R2A222K	
1000000	Flextronics	4816-00775	Capacitor	2.2nF	TDK	C1608X7R2A222K	
1000001			Resistor	10k	ROHM	MCR03PFX1002	10k, ROHM, MCR03PFX1002
1000001	Bosch	1267360318	Resistor	10k	SN	MCR03PFX1002	10k, KOA EUROPE GMBH, RK73H
1000001	Hella	n/a	Resistor	10k	VIS	RVCS45242-shjh	
1000001	Flextronics	4816-00663	Resistor	10k	ROHM	MCR03PFX1002	
1000002			Integrated C	ircuit	INF	TLE6251-2G	, INF, TLE6251-2G
1000002	Bosch	8905505876	Integrated C	ircuit	INF	TLE6251-2G	TLE6251-2G
1000002	Hella		Integrated C	ircuit			
1000002	Flextronics	4816-03577	Integrated C	ircuit	Infineon	TLE6251-2G/SP0004	CAN TRANSCEIVER TLE6251G SC
018863			Connector		SFS		
018863	Flextronics		Connector		SFS	22222	
2268310123			Connector		SFS	2268310123	
2268310123	Bosch	2268310123	Connector		SFS		





Alternate Parts:

Collective Parts:

At first glance they look the same.







An Alternate Part is a replacement from an **own** part number against another **own** part number.

A Collective Part is a replacement from an **own** part number against another **external supplier** part number.

# Find The Parent Part



# The parent part is the 1N4184.

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# Set The Parent Part



## How to set the parent part.

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# The Result Of Parent Part



## The parent part is now selected.

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# Find The Child Part



# The child part is the 1N3595.

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The result is simply an unidirectional relation between the parent part 1N4148 and the child part 1N3595 as Alternate.

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# The parent part is now selected.

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The result is simply a bidirectional relation between the parent part 1N4148 and the child part 1N4001 as Alternate.

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### The way how to find parts which has alternates defined.

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	OG DEVICES		100002	Bosch	100002	FMMZ5255	SOT23-3	SILICON VOLTA	
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# Show The Parts With Alternates



### Show the content of the relation settings of this part.

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				100002		Bosch	100002	FMN	NZ5255	SOT23-3	SILICON VOLTA	$\checkmark$	
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News	11/41/0	_	Query-B	uilder activ		Color							
Number:	101342		Open (	Query Save	Quer	Apply [F5]		-					
Description:	High-speed diode			Property			Comp. Value			Bool Order			^
Component:	dio-04500185			EMS-Partnum	ber	~	LIKE 🗸 🕇			AND V NO	· ·		1.4
Library Alias: Library Path:	Express D:\CSK Data\Definition\Express	\Library\		Has_Alternati	ves	~	<b>LIKE</b> ~ 1			AND V NO	· ·		
Library Version:	1 Parte		▶*	<choose a="" filt<="" td=""><td>er-pro</td><td>perty&gt; ~</td><td>~</td><td></td><td></td><td>~</td><td>~</td><td></td><td></td></choose>	er-pro	perty> ~	~			~	~		
Part Acceptance													~
			5 0000.	.0000sec. To	tal ro	ws: 18142							
			Current	User: sa	Dat	abase Info: (Serve	er/Instanz: W10-64	-1\SC	QLEXPRESS201	4 [Database: CS	K_MRPLINK_15_Expres	s-16.0-2015-08-17	-5])



### The Parts 1N4148, 1N4001 and 1N3595 have Alternates.

📥 MRP-Link -	[Secondary Source]										$\Box$ $\times$
Modu	I II () ⊇ ÷ les Library Searcher I	Primary !	Source	Secondary Sou	r BOM Manage	em BOM Rep	oorts Administ	ration	Custom	er Tools	View Help
<u></u>	🖌 🗋	Has_	Alternat	e							
Sec. Sec	. Sec.	SOT2	23_v2								
Import Statu	us Export Recent (Second	All_P	arts urco loct	using guonda)							
Secondary Sc	Necent (Secon		arce last	using query s) 1s							
Iree PartsStock	r	•	Data	Parter web an	EMC Name	EMC Determine	Pederare	0		Decedetion	Line Alternational
	•			100000	EMS-Name	100000	ZV/NII 120G	Compone	ent 4	Zuken N. CHAN	Has_Atternatives
			·	100001	riextronics	10000	Zuken 7/ECT1	SSOP.49	4	16.BIT LATCHES	
				100001	Bosch	100002	EMMZ5255	SOT23-3		SILICON VOLTA	
	DG_DEVICES			101342	boson	100002	1N4148	dio-04500	1185	High-speed diode	
	OG DEVICES			101612			1N4001	DO41-2		GENERAL PUR	
ASI	-			102570			1N3595	DO35-2		SMALL SIGNAL	
	HILD		*								
	RECTIFIER										
	- hv										
MAXI	M										
	OCHIP										
MOTO	ROLA										
	INAL_SEMICONDUCTOR	- ×									
			<								>
	. •		5 IA	I von	6 🕨 🕨 Expor	t Current View					
			Querv-B	uilder activ Querv = I	Has Alternate						
			Open (	Query Save Query	Apply [F5]						
Name:	ZVNL120G			Property		Comp. Value		Bool	Order		
Number: Description:	100000 Zuken N- CHANNEL ENHANCE	MENT		Partnumber	~	LIKE 🗸 🕇		AND 🗸	ASC		
Symbol:	ZVNL120G			EMS-Name	~	LIKE 🗸 *		and 🗸	ASC	/	
Library Alias:	SU1223-4 Express			EMS-Partnumber	~	LIKE 🗸 •		and v	NO \	*	
Library Path:	D:\CSK_Data\Definition\Express	\Libra		Has_Alternatives	~	LIKE V 1		and v	NO \	/	
Library Name:	Zetex-Parts		▶*	<choose a="" filter-prop<="" td=""><td>verty&gt;</td><td>~</td><td></td><td>~</td><td>×</td><td>/</td><td></td></choose>	verty>	~		~	×	/	
Part Acceptance:			6 0000	.0000sec. Total rov	vs: 18142						
1			Current	User: sa Data	base Info:						
;											Ŧ



## We use this Rainmaker SCM from CADSTAR Express as BOM.

📥 MRP-Link -	[BOM Management]												- 0	×
New Release BOM Types Management	Library Searcher Pr	imary S E Colu Map	ource Seconda mn BOM Head ping Add/Remov Head	Inheritan Column	BOM Manage Farne Digi- Bosc Fa Rece	ment BOM Report ell_ADC Flextroni Key Farnell h Bosch_A nt (BOM Management k	s Administrati _All_Part DC ast using query's)	on Cust s_	omer To	ols Vie	ew Help			
Tree B-BOMs	•	Data [	SCM_RainMaker4_CS	_[0_0_0_0]]	EMC Destrumber	Peterse	ComparentNews	Dated	Ortur	Quantity	MariantNama	In Alternation	Desferred Dest	
BML-	-Lite		100147	EMS-IName	EMS-Partnumber	Partname	Componentivame		Approved			is_Atternative	Preferred_Par	<u> </u>
Colle	ctive_Number	Ľ	100174			220K-TR4-1%	R6		Approved	1				
Decis	gnA		100246			270K-TR4-1%	R2		Approved	1				
🖃 🛅 Desig	gnB		100246			270K-TR4-1%	R3		Approved	1				_
	PCB_RainMaker4_CS PCB_RainMaker6_CS		100403			2.5mm PWR CON	J1		Approved	1	<no variants=""></no>			
🗗 F	CB_RainMaker7_CS		100567			1000uF-50V-EC	C6		Approved	1	<no variants=""></no>			-
F F	PCB_RainMaker7_CS_Constraint		100625			220E-TR4-1%	R7		Approved	1	<no variants=""></no>			
- 5 9	SCM_RainMaker1_CS		100631			1K5-MRS25-1%	R8		Approved	1	<no variants=""></no>			
	SCM_RainMaker2_CS		100690			2N2905A	TR3		Approved	1	<no variants=""></no>			
	SCM_RainMaker4_CS		100750			BA156K0104J	C1		Approved	1	<no variants=""></no>			
- Desig	gnC		101127			3E3-MRS25-1%	R12		Approved	1	<no variants=""></no>			
Desig	gnD Interface		101127			3E3-MRS25-1%	R13		Approved	1	<no variants=""></no>			
DF_	PCB_Tutorial_2_NEW		101178			NEC_TOKIN_UC2_RE	RL1		Approved	1	<no variants=""></no>			
<	>		101268			RS15H11AA04M-50K	P2		Approved	1	<no variants=""></no>			
			101329			BA156K0103J	C3		Approved	1	<no variants=""></no>			
		<	4 von Builder activ Query = _ Query Save Query	34     All_Parts_ Apply [F5]	Export Current	View		1		-	1		1	>
Name:	2N1613		Property		Comp.	Value	Bool Order							
Number:	100147	•	Partnumber		✓ LIKE ✓	•	AND V ASC	~						
Symbol:	S_NPN		EMS-Name		✓ LIKE ✓	•	AND V ASC	~						
Component: Library Alias:	to39 Express		EMS-Partnumber		✓ LIKE ✓	•	AND V NO	. ~						
Library Path: Library Version: Library Name:	D:\CSK_Data\Definition\Express\ 1 Parts	*	<choose a="" filter-prop<="" td=""><td>erty&gt;</td><td>~ ~</td><td></td><td>~</td><td>~</td><td></td><td></td><td></td><td></td><td></td><td></td></choose>	erty>	~ ~		~	~						
Part Acceptance:	:	34 00 Currer	00,0971sec. Total ro nt User : sa Data	ws: 4393 base Info:	(Server/Instanz:	W10-64-1\SQLEXPRESS	2014 [Database: CS	K_MRPLINK_	15_Express-16	.0-2015-08-	17-5])			



# In this case we use the menu from the RMB of the tree to get all Alternates with only one mouse click.

📥 MRP-Link - [BOM Managem	ent]											- 🗆	×
🔬 🗳 🖲 🛯 🕥 🗵	•												
Modules Library S	Searcher Prin	mary Source Seco	ndary Source	BOM Manag	ement BOM Repo	rts Administrat	ion Cust	omer To	ools Vi	ew Help			
New Release Column	BOM List	Column BOM H	ad Inheritar	Fan Dig	nell_ADC Flextron i-Key Farnell	nics _All_Par	ts_						
BOM Types Mapping	Add/Remove	Mapping Add/Ren	iove Column	ns Bos	ch Bosch_	ADC							
			u	Taj Neu	ent (BOIM Management	last using query s)	18						
BOMs		Data [SCM_RamMaker4]	EMS Name	EMS Partnumber	Partoamo	ComponentName	Fitted	Chatura	Quantity	VariantName	le Alternative	Proformed Par	
BML-Lite		► 100037	LMJ-INdille	EM34 attriumber	47uE-10V-EC	C5		Approved	1	<no variants=""></no>			<u> </u>
Collective_Number		100123			2N3053	TR1		Prototype	1	<no variants=""></no>			_
DesignA		100123			2N3053	TR2		Prototype	1	<no variants=""></no>			- 1
DesignB     PCB BainMaker( (	~	100147			2N1613	Q2		Approved	1	<no variants=""></no>			
PCB_RainMaker6_0	CS	100174			220K-TR4-1%	R6		Approved	1	<no variants=""></no>			
PCB_RainMaker7_0	CS	100246			270K-TR4-1%	R2	~	Approved	1	<no variants=""></no>			
PCB_RainMaker7_0	CS_Constraint	100246			270K-TR4-1%	R3		Approved	1	<no variants=""></no>			
SCM_RainMaker1_	cs	100403			2.5mm PWR CON	J1		Approved	1	<no variants=""></no>			
SCM_RainMaker2_0	CS CS	100567			1000uF-50V-EC	C6		Approved	1	<no variants=""></no>			
SCM_Rain		100625	1		220E-TR4-1%	R7	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$	
DesignC	Open				1K5-MRS25-1%	R8	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$	
IDF-Interface	Open Head				2N2905A	TR3	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$	
IDF_PCB_Tutorial_	New Version				BA156K0104J	C1	$\checkmark$	Approved	1	<no variants=""></no>			
<	Clone				3E3-MRS25-1%	R12	$\checkmark$	Approved	1	<no variants=""></no>			
	Rename				3E3-MRS25-1%	R13		Approved	1	<no variants=""></no>			~
	Synchronize												>
	Refresh Preferree	d Values	on 34 🕨 🕨	Export Curren	it View								
	Refresh BOM Va	lues	= All Parts									_	
	Add All Alternat	ives	ery Apply [F5]	Allow Delete C	Collective Number								
Name: 47uF-10V-E0	Add All Collectiv	ve Numbers		Comp.	Value	Bool Orde	r						
Number: 100037	Kenumber Posit	ion		✓ LIKE	~ •	AND 🗸 ASC	. ~						
Symbol: CEP	Synchronize all			✓ LIKE	~ •	AND 🗸 ASC	. ~						
Component: cep-dia055 Library Alias: Express	Delete			✓ LIKE	~ •	AND V NO.	. ~						
Library Path: D:\CSK_Dat	Delete All Altern	ative Numbers	vroperty>	~	~	~	$\sim$						
Library Name: Parts	Delete All Collec	tive Numbers											
Part Acceptance:	New		rows: 4393									_	
:	Send BOM to Pa	rts Stock	atabase Info:	(Server/Instanz	W10-64-1\SOLEXPRES	S2014 (Database) CS		15 Express-16	5.0-2015-08	-17-51)			
	Find in Parts Sto	ck		(server) materiza		see In a constant of							



# Now we have the D1 and D2 twice as original and as Alternate.

📥 MRP-Link -	[BOM Management]											- 0	×
🔊 🖷 I	9 🛽 🐴 🛃 🗧												
Modu	ules Library Searcher Pr	rimary Source Second	ary Source	BOM Manage	ment BOM Report	s Administrati	on Custo	omer To	ols Vie	w Help			
New Release BOM Type Managemen	se Column BOM List Mapping Add/Remove List r	Column BOM Head Mapping Add/Remov Head	I Inheritance Columns	ce s s Fail Rece	ell_ADC Flextroni Key Farnell h Bosch_Al ent (BOM Management la	cs _All_Part DC ist using query's)	s_						
		Data [SCM_RainMaker4_C	6_[0_0_0_0]]	5140.5		<b>a</b>	5		<b>0</b>		1.11		
BOMS	-Lite	Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part	<u> </u>
Colle	ective_Number	100750			BA156K0104J	C1		Approved	1	<no variants=""></no>			- 1
Deci	ision-Example	1014/8			0.10F-COG2-5%	C2		Approved	1	<no variants=""></no>			- 1
🗐 👘 Desi	gnB	101329			BA156K0103J	C3		Approved	1	<no variants=""></no>			- 1
	PCB_RainMaker4_CS	101/92			10uF-10V-EC	C4		Approved	1	<no variants=""></no>			- 1
	PCB_RainMaker6_CS PCB_RainMaker7_CS	100037			4/uF-10V-EC	C5		Approved	1	<no variants=""></no>			- 1
-5	PCB_RainMaker7_CS_Constraint	101067			10000F-30V-EC	C6		Approved	1	<no variants=""></no>			- 1
	PCB_RainMaker7_CS_Constraint SCM_RainMaker1_CS	101342			1114140	DI		Approved	1				- 1
	SCM_RainMaker2_CS	102570			114140	01		NO STATUS	1	<no variants=""></no>			- 1
ė 📮	SCM_RainMaker4_CS	101342			1114148	D2		Approved	1	<no variants=""></no>			- 1
Desi	anC	102570			2 From DWD CON	11		No status	1				- 1
Desi	gnD	101205			2.5mm PWR CON	JI D1		Approved	1				- 1
IDF-	PCB Tutorial 2 NEW	101363			DS15U11AA04M-100K	F1 P2		Approved	1				- 1
<		101250			2012904	01		Approved	1				- 1
		101338			2N1612	02		Approved	1				- 1
Ι Ύ		100147			2141013	QZ	Ľ	Appioved	'	CNO VARIANTS>			<u> </u>
			36 🕨 🔰	Export Current	View								-
	••••			- sport current									
		Query-Builder activ Query =	_All_Parts_										
		Open Query Save Query	/ Apply [F5]	Allow Delete Co	ollective Number			_	_				_
Name:	BA156K0104J	Property		Comp.	Value	Bool Order							
Description:	1nf Leaded film capacitor	Partnumber		✓ LIKE ✓	. •	AND ~ ASC	~						
Symbol: Component:	CAP BA15 8-2	EMS-Name		✓ LIKE ✓	. •	AND ~ ASC	~						
Library Alias:	Express	EMS-Partnumber		✓ LIKE ✓		AND V NO	. ~						
Library Version:	1	* <choose a="" filter-pro<="" td=""><td>perty&gt;</td><td>× ×</td><td>·</td><td>~</td><td>~</td><td></td><td></td><td></td><td></td><td></td><td></td></choose>	perty>	× ×	·	~	~						
Library Name:	Parts												
		36 0000,1090sec. Total r	ows: 4395										
1	Ŧ	Current User : sa Data	abase Info:	(Server/Instanz:	W10-64-1\SQLEXPRESS	2014 [Database: CS	K_MRPLINK_1	5_Express-16	.0-2015-08-	17-5])			

18



### It is necessary to synchronise the parts with the primary source.

📥 MRP-Link -	[BOM Managemen	nt]											- 🗆	$\times$
🔬 🖷 🛛	9 <b>8</b> () 🗵 )	Ŧ												
Modu	iles Library Sea	archer Prin	mary Source Secon	dary Source	BOM Manage	ment BOM Report	s Administrati	on Cust	omer To	ols Vie	w Help			
A 22		<b>*</b>	eHa 🔤	<b>)</b> _	Farne	ell_ADC Flextroni	cs							
	Column	POM List	Column POM Ha	L)	Digi-	Key Farnell	_All_Pari	ts_						
BOM Types	s Mapping A	Add/Remove	Mapping Add/Rem	ove Columns	Bosc	h Bosch_A	DC							
Management	tra Li	ist 🖓	Head		r <sub>a</sub> Rece	nt (BOM Management I	ast using query's)	F <sub>M</sub>						
Tree			Data [SCM_RainMaker4_	CS_[0_0_0_0]]										
BOMs	1.2.	^	Partnumber	EMS-Name E	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part	^
Colleg	ctive Number		▶ 100750			BA156K0104J	C1		Approved	1	<no variants=""></no>			
Decis	sion-Example		101478			0.1UF-COG2-5%	C2	$\checkmark$	Approved	1	<no variants=""></no>			
	gnA nnR		101329			BA156K0103J	C3	$\checkmark$	Approved	1	<no variants=""></no>			
Pesig	PCB_RainMaker4_CS		101792			10uF-10V-EC	C4	$\checkmark$	Approved	1	<no variants=""></no>			
- D P	CB_RainMaker6_CS		100037			47uF-10V-EC	C5		Approved	1	<no variants=""></no>			
	CB_RainMaker/_CS CB_RainMaker7_CS	Constraint	100567			1000uF-50V-EC	C6		Approved	1	<no variants=""></no>			
	CB_RainMaker7_CS	_Constraint	101342			1N4148	D1		Approved	1	<no variants=""></no>			
	CM_RainMaker1_CS		102570			1N3595	D1		Approved	1	<no variants=""></no>	$\checkmark$		
	SCM_RainMaker2_CS		101342			1N4148	D2		Approved	1	<no variants=""></no>			
	SCM_F		102570			1N3595	D2		Approved	1	<no variants=""></no>	$\checkmark$		
Desi(	Open		100403			2.5mm PWR CON	J1		Approved	1	<no variants=""></no>			
	offace Open	Head	101385			RS15H11AA04M-100K	P1		Approved	1	<no variants=""></no>			_
IDF ;	B_Tuto New V	/ersion	101268			RS15H11AA04M-50K	P2		Approved	1	<no variants=""></no>			
<	Clone		101358			2N3904	Q1		Approved	1	<no variants=""></no>			
×	Renam	ne	100147			2N1613	Q2		Approved	1	<no variants=""></no>			_
	Synch	ironize	<	1				i			1	1	1	>
		•	i∥∢ ∢  1 vo	on 36 🕨 🕨	Export Current	View								
*			0 041 0 0	41.0.1										
			Query-Builder activ Query	= _AI_Parts_	Allow Dolata Co	llective Number								
Name	DA15CK01041		Open Query Save Que	iy Apply[FJ		Value	Paul Oata		-	-				
Number:	100750		Property			value .								
Description:	Inf Leaded film capa	acitor	Fatriumber											
Component:	BA15_8-2		EMS Patoumbor			•								
Library Alias: Library Path:	Express D:\CSK Data\Defini	nition\Express\	* Choose a filtero	metho			740 · 140							
Library Version:	1		* Condose a niterp	iopeity>			•							
Part Acceptance:	rans													
			36 0000,1030sec. Total	rows: 4395										
:		-	Current User : sa Da	tabase Info: (S	Server/Instanz:	W10-64-1\SQLEXPRESS	2014 [Database: CS	K_MRPLINK_	15_Express-16	.0-2015-08-	17-5])			



#### The system added only checked valid Alternates into our BOM.

Data [S	6CM_RainMaker4_CS	_[0_0_0_0]]									
	Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
•	100750			BA156K0104J	C1	$\checkmark$	Approved	1	<no variants=""></no>		
	101478			0.1UF-COG2-5%	C2	$\checkmark$	Approved	1	<no variants=""></no>		
	101329			BA156K0103J	C3	$\checkmark$	Approved	1	<no variants=""></no>		
	101792			10uF-10V-EC	C4	$\checkmark$	Approved	1	<no variants=""></no>		
	100037			47uF-10V-EC	C5	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
	100567			1000uF-50V-EC	C6	$\checkmark$	Approved	1	<no variants=""></no>		
	101342			1N4148	D1	$\checkmark$	Approved	1	<no variants=""></no>		
	102570			1N3595	D1		Approved	1	<no variants=""></no>	$\checkmark$	
	101342			1N4148	D2	$\checkmark$	Approved	1	<no variants=""></no>		
	102570			1N3595	D2		Approved	1	<no variants=""></no>	$\checkmark$	
	100403			2.5mm PWR CON	J1	$\checkmark$	Approved	1	<no variants=""></no>		
	101385			RS15H11AA04M-100K	P1		Approved	1	<no variants=""></no>		$\checkmark$

### This is the setting for the relation between all parts.

The part 1N4001 is unchecked and therefore not valid as Alternate.

	Partnumber	EMS-Name	EMS-Partnumber	Status	Preferred_Part	Remark	Partname
	102570			Checked			1N3595
	101342			Checked			1N4148
	101612			Unchecked		Prototype	1N4001
*							
	ОК С	Cancel Delete R	elation Help				Refre



#### The system set directly the current Preferred Part.

Data (S	CM_RainMaker4_CS	_[0_0_0_0]]									
	Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
•	100750			BA156K0104J	C1	$\checkmark$	Approved	1	<no variants=""></no>		
	101478			0.1UF-COG2-5%	C2	$\checkmark$	Approved	1	<no variants=""></no>		
	101329			BA156K0103J	C3	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
	101792			10uF-10V-EC	C4	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
	100037			47uF-10V-EC	C5	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
	100567			1000uF-50V-EC	C6	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
	101342			1N4148	D1	$\checkmark$	Approved	1	<no variants=""></no>		
	102570			1N3595	D1		Approved	1	<no variants=""></no>	$\checkmark$	$\checkmark$
	101342			1N4148	D2	$\checkmark$	Approved	1	<no variants=""></no>		
	102570			1N3595	D2		Approved	1	<no variants=""></no>		$\checkmark$
	100403			2.5mm PWR CON	J1	$\checkmark$	Approved	1	<no variants=""></no>		
	101385			RS15H11AA04M-100K	P1		Approved	1	<no variants=""></no>		$\checkmark$

## This is the setting for the relation between all parts. This 1N3595 is the Preferred Part for this alternate group.

1025	570			 riomane	rannanio
			Checked		1N3595
1013	342		Checked		1N4148
1016	612		Unchecked	Prototype	1N4001



In case you wish that the result BOM has to contain only the fitted parts from the SCM you have to set Fitted Value to 1 in the Query Builder.

Data	[SCM_RainMaker4	4_CS_[0_0_0_0]	]												
	Partnumber	EMS-Name	EMS-Pa	artnumber	Partname	Compone	entName	Fitted		Status	Quantity	VariantName	Is_Alternative	Preferred_Part	^
•	00750				BA156K0104J	C1			2	Approved	1	<no variants=""></no>		$\checkmark$	
	01478				0.1UF-COG2-5%	C2			1	Approved	1	<no variants=""></no>		$\checkmark$	
	01329				BA156K0103J	C3			3	Approved	1	<no variants=""></no>			
	01792				10uF-10V-EC	C4			3	Approved	1	<no variants=""></no>			
	00037				47uF-10V-EC	C5		~	1	Approved	1	<no variants=""></no>			
	00567				1000uF-50V-EC	C6		~	1	Approved	1	<no variants=""></no>		$\checkmark$	-
	01342				1N4148	D1		~	1	Approved	1	<no variants=""></no>			-
	01342				1N4148	D2		~	1	Approved	1	<no variants=""></no>			-
	00403				2.5mm PWR CON	J1		~	1	Approved	1	<no variants=""></no>			-
	01385				RS15H11AA04M-100K	P1		~	1	Approved	1	<no variants=""></no>			-
	01268				RS15H11AA04M-50K	P2		~	1	Approved	1	<no variants=""></no>			-
	01358				2N3904	Q1			1	Approved	1	<no variants=""></no>			-
	00147				2N1613	Q2		~	1	Approved	1	<no variants=""></no>			-
	01000				1V7 TD 4 19/	<b>D1</b>			л	ب	4	ANO MADIANTOS		<b></b>	Ξ ۷
Query Oper	✓ 1 /-Builder activ Quer Ouery Save O	von 34	51 Allov	ort Currei	nt View										
	Property	7 1174		Comp.	Value	Bool	Ord	er							
	EMS-Name		~	LIKE	~ •	AND	∨ AS	<b>c</b> ~							
	EMS-Partnumbe	er	~	LIKE	~ •	AND	V NO	~ ~							
	Fitted		~	LIKE	1		~	~							
▶*	<choose a="" filter<="" td=""><td>-property&gt;</td><td>~</td><td></td><td><u> </u></td><td></td><td>~</td><td>~</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></choose>	-property>	~		<u> </u>		~	~							

As result we get only the original parts from the SCM

- No Alternates
- No Preferred Parts



# In case you wish that the result BOM has to contain only the Preferred Parts for the SCM you have to set Preferred\_Part Value to 1.

Data [	SCM_RainMaker4	_CS_[0_0_0_0]]													
	Partnumber	EMS-Name	EMS-Pa	artnumber	Partname	Comp	onentNa	ame	Fitted	Sta	itus	Quantity	VariantName	Is_Alternative	Preferred_Part
b -	00750				BA156K0104J	C1			$\checkmark$	] Appi	roved	1	<no variants=""></no>		$\checkmark$
	01478				0.1UF-COG2-5%	C2			$\checkmark$	] Appi	roved	1	<no variants=""></no>		$\checkmark$
	01329				BA156K0103J	C3			$\checkmark$	] App	roved	1	<no variants=""></no>		
	01792				10uF-10V-EC	C4			$\checkmark$	] App	roved	1	<no variants=""></no>		
	00037				47uF-10V-EC	C5			$\checkmark$	] App	roved	1	<no variants=""></no>		
	00567				1000uF-50V-EC	C6			$\checkmark$	] App	roved	1	<no variants=""></no>		
	02570				1N3595	D1				] Appr	roved	1	<no variants=""></no>		
	02570				1N3595	D2				] Appr	roved	1	<no variants=""></no>	$\checkmark$	
	00403				2.5mm PWR CON	J1			$\checkmark$	] Appr	roved	1	<no variants=""></no>		
	01385				RS15H11AA04M-100K	P1			$\checkmark$	] Appr	roved	1	<no variants=""></no>		
	01268				RS15H11AA04M-50K	P2			$\checkmark$	] Appr	roved	1	<no variants=""></no>		
	01358				2N3904	Q1			$\checkmark$	] App	roved	1	<no variants=""></no>		
	00147				2N1613	Q2			$\checkmark$	] App	roved	1	<no variants=""></no>		
<	n1000				2V7 TD 4 19/	<b>D1</b>				۰ <u>۰</u>	<i></i>	4	ANO VADIANTES		
E IA	∢   1 v	on 34 🗼 🕨	Expo	ort Curre	nt View	_	_		_	-	-				
		,													
Query-	Builder activ Query	/ = _AII_Parts_													
Open	Query Save Qu	ery Apply [F:	5] Allo	w Delete	Collective Number										
	Property			Comp.	Value	Bo	ol	Orde	r						
	EMS-Name		~	LIKE	~ •	A	ND V	ASC	: ~						
	EMS-Partnumber	r	~	LIKE	~ •	A	ND V	NO	- ~						
	Preferred_Part		~	LIKE	× 1		~		$\sim$						
▶*	<choose a="" filter-<="" td=""><td>property&gt;</td><td>~</td><td></td><td>~</td><td></td><td>~</td><td></td><td><math>\sim</math></td><td></td><td></td><td></td><td></td><td></td><td></td></choose>	property>	~		~		~		$\sim$						

As result we get only the original parts which are preferred for this SCM. Not all of these parts are fitted in the SCM because they are Alternate Parts which are defined as Preferred Part.



## Depending to the workflow it is possible to flag the fitted value.

Data (S	CM_RainMaker4_0	CS_[0_0_0_0]]															
	Partnumber	EMS-Name	EMS-P	artnumbei	Pa	rtname	Compone	entNa	ame F	Fitted		Status	Quantity	VariantName	Is_Alternative	Preferred_Part	^
	00750				BA	156K0104J	C1			$\sim$	1	Approved	1	<no variants=""></no>		$\checkmark$	
	01478				0.1	UF-COG2-5%	C2			$\sim$	1	Approved	1	<no variants=""></no>		$\checkmark$	
	01329				BA	156K0103J	C3			$\sim$	1	Approved	1	<no variants=""></no>		$\checkmark$	
	01792				10u	F-10V-EC	C4			$\sim$	1	Approved	1	<no variants=""></no>			
	00037				47u	F-10V-EC	C5			$\sim$	1	Approved	1	<no variants=""></no>			
	00567				100	0uF-50V-EC	C6			$\sim$	1	Approved	1	<no variants=""></no>		$\checkmark$	-
•	02570				1N3	3595	D1				]	Approved	1	<no variants=""></no>	$\checkmark$	$\checkmark$	-
	02570				1N3	3595	D2				]	Approved	1	<no variants=""></no>	$\checkmark$	$\checkmark$	-
	00403				2.5	nm F Edit	1					proved	1	<no variants=""></no>		$\checkmark$	-
	01385				RS	15H						proved	1	<no variants=""></no>		$\checkmark$	-
	01268				RS	15H' Ta	e			0	False	proved	1	<no variants=""></no>		$\checkmark$	-
	01358				2N3	3904				0		proved	1	<no variants=""></no>		$\checkmark$	-
	00147				2N	1613						proved	1	<no variants=""></no>		$\checkmark$	-
	01000				21/2	7 TO							4	ANO VADIANTOS			54
	<ul> <li>↓ 7 vo</li> </ul>	n 34   🕨 🌢	Exp	ort Curre	nt Vi	ew OK	Cano	cel		Hel	p	]					
Query-I	Builder activ Query :	= _All_Parts_	51 411-	Delete	Call	and the Alexandra											
Open	Query Save Que	ту Аррту (г.			Coll		D 1		0.1	_						_	
<u> </u>	Froperty			Comp.		value	BOOI		Order								
<u> </u>	EMS-IName		¥	LINE	×		AND	×	ASC	×							
	EWS-Partnumber		~	LIKE	~		AND	~	NO	~							
<u> </u>	Preferred_Part ~ LIKE ~ 1					1		~		~							
<b>L</b> *	<choose a="" filter-pr<="" td=""><td>operty&gt;</td><td>~</td><td></td><td><math>\sim</math></td><td></td><td></td><td>~</td><td></td><td><math>\sim</math></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></choose>	operty>	~		$\sim$			~		$\sim$							

	00567		1000uF-50V-EC	C6	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
	02570		1N3595	D1	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$	$\checkmark$
۱.	02570		1N3595	D2		Approved	1	<no variants=""></no>	$\checkmark$	$\checkmark$
	00403		2.5mm PWR CON	J1	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$



Depending on the privileges it is possible to change the status of any part relation in the secondary source.

Data [S	CM_RainMaker4_C	:S_[0_0_0_0]]														
	<sup>p</sup> artnumber	EMS-Name	EMS-Pa	rtnumber	Partname		ComponentN	ame	Fitted	Status	Qua	ntity	VariantName	•	Is_Alternative	Preferre
	00750				BA156K0104J		C1		$\checkmark$	Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th>   </th></no>	ITS>		
	01478				0.1UF-COG2-5%		C2		$\checkmark$	Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th></th></no>	ITS>		
	01329				BA156K0103J		C3		$\checkmark$	Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th></th></no>	ITS>		
	01792				10uF-10V-EC		C4		$\checkmark$	Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th></th></no>	ITS>		
	00037				47uF-10V-EC		C5		$\checkmark$	Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th>   </th></no>	ITS>		
	00567				1000uF-50V-EC		C6		$\checkmark$	Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th></th></no>	ITS>		
•	01342				1N4148		D1			Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th></th></no>	ITS>		
	02570				1N3595		D1		$\checkmark$	Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th><math>\checkmark</math></th><th></th></no>	ITS>	$\checkmark$	
	01342				1N4148		D2			Approved	1		<no th="" varian<=""><th>ITS&gt;</th><th></th><th></th></no>	ITS>		
	02570								_							
	00403			Alterna	atives [BOM Manag	emen	tj									X
	01385				Partnumber	EMS-	Name	EMS-	Partnumber	Status		Prefe	rred_Part	Rema	rk	
	01268				102570					Checked			$\checkmark$			
	01050		_		101342					Checked					_	
< 14	4 7	- 26   N - N		►	101612					Unchecked				Prototy	/pe	
: 19		n 30   🕨 🕨	Expo	*											_	
Query-B	uilder activ Query =	All_Parts_	-				MRP-Link								×	
Open (	Query Save Quer	y Apply [F	5] Allov													
	Property							Canny	ot add this al	ternative Alt	ernativ	e haci	n't status 'Ch	ecked'		
	EMS-Name		~					Cunit		cernative: Alt	ernoth	re nusi	restatus en	cened i		
	EMS-Partnumber		~													
	Preferred_Part		~											OK		
▶*	<choose a="" filter-pro<="" th=""><th>operty&gt;</th><th>~</th><th></th><th>OK Cano</th><th>el</th><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th><th>UK</th><th></th><th></th></choose>	operty>	~		OK Cano	el	1							UK		
	Conodad a nitor property >				ound	-		_		_						

# **Delete An Alternate Part**



### To delete only Alternate Parts just use "Delete Part".

Data [S	CM_RainMak	er4_C	S_[0_0_0_0]]										
	Partnumber		EMS-Name	EMS-Partnumber	Partname		ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part ^
	100750				BA156K0104J		C1	$\checkmark$	Approved	1	<no variants=""></no>		
	101478				0.1UF-COG2-5%		C2		Approved	1	<no variants=""></no>		
	101329				BA156K0103J		C3		Approved	1	<no variants=""></no>		
	101792				10uF-10V-EC		C4		Approved	1	<no variants=""></no>		
	100037				47uF-10V-EC		C5		Approved	1	<no variants=""></no>		
	100567 1000uF-50V-E			C6		Approved	1	<no variants=""></no>					
•	101342	1N4148		,	D1		Approved	1	<no variants=""></no>				
	102570	70 Add Part			1	D1		Approved	1	<no variants=""></no>			
	101342		Add Part Dir	ect			D2	$\checkmark$	Approved	1	<no variants=""></no>		
	102570		Alignment E	ata View by Colu	ımn Text		D2		Approved	1	<no variants=""></no>		
	100403		Alignment D	ata View by Cell	Text	N	J1		Approved	1	<no variants=""></no>		
	101385		Duplicate Pa	ırt		1-100K	P1		Approved	1	<no variants=""></no>		
	101268		Edit			1-50K	P2		Approved	1	<no variants=""></no>		
<	101050		Synchronize	Part			01		لــــــ	1	ANO VADIANTES		×
	4 7		Update Con	straints									-
	• • •		Replace from	n Parts Stock		<u> </u>							
Query-	Builder activ Qı		Replace Part	Direct									
Open	Query Save		Position Nu	mber	•	r							
	Property		Delete Part				Bool Order						^

	100567		1000uF-50V-EC	C6	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
•	101342		1N4148	D1		Approved		<no variants=""></no>		
	101342		1N4148	D2	$\checkmark$	Approved	1	<no variants=""></no>		
	102570		1N3595	D2		Approved	1	<no variants=""></no>	$\checkmark$	$\checkmark$
	100403		2.5mm PWR CON	J1	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$

In RMB menu it is possible to delete all Alternate Parts at once.



### Here we can see the different supplier names and numbers in the primary source.

Data					
	Partnumber	EMS-Name	EMS-Partnumber	Description	Status
•	101342			High-speed diode	Approved
	101342	Bosch	101342	High-speed diode	Approved
	101342	Digi-Key	101342	High-speed diode	Approved
	101342	Famell	101342	High-speed diode	Approved
	101342	Flextronics	101342	High-speed diode	Approved
	101342	RS Components	101342	High-speed diode	Approved
	101342	Würht	101342	High-speed diode	Approved

# Part 1

Data					
	Partnumber	EMS-Name	EMS-Partnumber	Description	Status
•	101612			GENERAL PURPOSE RECTIFIERS	Approved
	101612	Bosch	101612	GENERAL PURPOSE RECTIFIERS	Approved
	101612	Digi-Key	101612	GENERAL PURPOSE RECTIFIERS	Approved
	101612	Famell	101612	GENERAL PURPOSE RECTIFIERS	Approved
	101612	Flextronics	101612	GENERAL PURPOSE RECTIFIERS	Approved
	101612	RS Components	101612	GENERAL PURPOSE RECTIFIERS	Approved
	101612	Würht	101612	GENERAL PURPOSE RECTIFIERS	Approved

Part 2

Data	ata														
	Partnumber	EMS-Name	EMS-Partnumber	Description	Status										
•	102570			SMALL SIGNAL DIODE	Approved										
	102570	Bosch	102570	SMALL SIGNAL DIODE	Approved										
	102570	Digi-Key	102570	SMALL SIGNAL DIODE	Approved										
	102570	Famell	102570	SMALL SIGNAL DIODE	Approved										
	102570	Flextronics	102570	SMALL SIGNAL DIODE	Approved										
	102570	RS Components	102570	SMALL SIGNAL DIODE	Approved										
	102570	Würht	102570	SMALL SIGNAL DIODE	Approved										

Part 3



#### With only one mouse click it is possible to add all collective numbers to the BOM.

28

Part	tnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Par
1007	750			BA156K0104J	C1		Approved	1	<no variants=""></no>		$\checkmark$
1014	478			0.1UF-COG2-5%	C2		Approved	1	<no variants=""></no>		
1013	329			BA156K0103J	C3		Approved	1	<no variants=""></no>		
1017	792			10uF-10V-EC	C4		Approved	1	<no variants=""></no>		~
1000	037			47uF-10V-EC	C5		Approved	1	<no variants=""></no>		
1005	567			1000uF-50V-EC	C6		Approved	1	<no variants=""></no>		
1013	342			1N4148	D1		Approved	1	<no variants=""></no>		
1025	570				D1		No status	1	<no variants=""></no>		
1013	342			1N4148	D2		Approved	1	<no variants=""></no>		
1025	570				D2		No status	1	<no variants=""></no>	$\checkmark$	~
1004	403			2.5mm PWR CON	J1		Approved	1	<no variants=""></no>		
1013	385			RS15H11AA04M-100K	P1		Approved	1	<no variants=""></no>		
1012	268			RS15H11AA04M-50K	P2		Approved	1	<no variants=""></no>		
1013	358			2N3904	Q1		Approved	1	<no variants=""></no>		
1001	147			2N1613	Q2	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
1016	660			2K7-TR4-1%	R1	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
1022	206			22E-MRS25-1%	R10		Approved	1	<no variants=""></no>		
1017	710			470E-MRS25-1%	R11		Approved	1	<no variants=""></no>		
1011	127			3E3-MRS25-1%	R12		Approved	1	<no variants=""></no>		
1011	127			3E3-MRS25-1%	R13		Approved	1	<no variants=""></no>		$\checkmark$
1002	246			270K-TR4-1%	R2	$\checkmark$	Approved	1	<no variants=""></no>		$\checkmark$
1003	240			270K TD4 1%	00		An and a second	1	NO VADIANTO		

This BOM shows 36 parts including all Alternates.

After adding the Collective Numbers and synchronising we have 252 parts in our BOM.

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part	Is_CollectiveNumb
100037	Bosch	100037	47uF-10V-EC	C5	$\checkmark$	Approved	1	<no variants=""></no>			$\checkmark$
100037	Digi-Key	100037	47uF-10V-EC	C5		Approved	1	<no variants=""></no>			V
100037	Famell	100037	47uF-10V-EC	C5		Approved	1	<no variants=""></no>			$\checkmark$
100037	Flextronics	100037	47uF-10V-EC	C5		Approved	1	<no variants=""></no>			$\checkmark$
100037	RS Comp	100037	47uF-10V-EC	C5		Approved	1	<no variants=""></no>			$\checkmark$
100037	Würht	100037	47uF-10V-EC	C5		Approved	1	<no variants=""></no>			$\checkmark$
100123	Bosch	100123	2N3053	TR2	$\checkmark$	Approved	1	<no variants=""></no>			$\checkmark$
100123	Bosch	100123	2N3053	TR1	$\checkmark$	Approved	1	<no variants=""></no>			$\checkmark$
100123	Digi-Key	100123	2N3053	TR2		Approved	1	<no variants=""></no>			Y
100123	Digi-Key	100123	2N3053	TR1		Approved	1	<no variants=""></no>			$\checkmark$
100123	Famell	100123	2N3053	TR1		Approved	1	<no variants=""></no>			$\checkmark$
100123	Famell	100123	2N3053	TR2		Approved	1	<no variants=""></no>			$\checkmark$
100123	Flextronics	100123	2N3053	TR2		Approved	1	<no variants=""></no>			$\checkmark$
100123	Flextronics	100123	2N3053	TR1		Approved	1	<no variants=""></no>			
100123	RS Comp	100123	2N3053	TR2		Approved	1	<no variants=""></no>			$\checkmark$
100123	RS Comp	100123	2N3053	TR1		Approved	1	<no variants=""></no>			$\checkmark$
100123	Würht	100123	2N3053	TR2		Approved	1	<no variants=""></no>			$\checkmark$
100123	Würht	100123	2N3053	TR1		Approved	1	<no variants=""></no>			$\checkmark$
100147	Bosch	100147	2N1613	Q2	$\checkmark$	Approved	1	<no variants=""></no>			
100147	Digi-Key	100147	2N1613	Q2		Approved	1	<no variants=""></no>			$\checkmark$
100147	Famell	100147	2N1613	Q2		Approved	1	<no variants=""></no>			
100147	Destantion	100147	011010	02		0	4	INO MADIANTES			



In this case we create a BOM which includes all parts from BOSCH including the ones which are not available from BOSCH, see the CSK1 Component

Jala (Si	CM_RainMaker	4_CS_[0_0_0_	_0]]									
	Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	ls_CollectiveNumb		
•	100750	Bosch	100750	BA156K0104J	C1		Approved	1	<no variants=""></no>			
	101478	Bosch	101478	0.1UF-COG2-5%	C2	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$		
	101329	Bosch	101329	BA156K0103J	C3	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$		
	101792	Bosch	101792	10uF-10V-EC	C4	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$		
	100037	Bosch	100037	47uF-10V-EC	C5	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$		
	100567	Bosch	100567	1000uF-50V-EC	C6	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$		
	101364			3E3-r0805-2%	CSK1	$\checkmark$	Approved	1				
	101342	Bosch	101342	1N4148	D1	$\checkmark$	Approved	1	<no variants=""></no>			
	102570	Bosch	102570	1N3595	D1		Approved	1	<no variants=""></no>			
	101342	Bosch	101342	1N4148	D2	$\checkmark$	Approved	1	<no variants=""></no>			
	102570	Bosch	102570	1N3595	D2		Approved	1	<no variants=""></no>	$\checkmark$		
	100403	Bosch	100403	2.5mm PWR CON	J1	$\checkmark$	Approved	1	<no variants=""></no>			
	101385	Bosch	101385	RS15H11AA04M-100K	P1	$\checkmark$	Approved	1	<no variants=""></no>			
	101268	Bosch	101268	RS15H11AA04M-50K	P2	$\checkmark$	Approved	1	<no variants=""></no>			
	101358	Bosch	101358	2N3904	Q1	$\checkmark$	Approved	1	<no variants=""></no>			
	100147	Bosch	100147	2N1613	Q2	$\checkmark$	Approved	1	<no variants=""></no>			
	101660	Bosch	101660	2K7-TR4-1%	R1	$\checkmark$	Approved	1	<no variants=""></no>			
	102206	Bosch	102206	22E-MRS25-1%	R10	$\checkmark$	Approved	1	<no variants=""></no>			
	101710	Bosch	101710	470E-MRS25-1%	R11	$\checkmark$	Approved	1	<no variants=""></no>			
	101127	Bosch	101127	3E3-MRS25-1%	R12	$\checkmark$	Approved	1	<no variants=""></no>			
	101127	Bosch	101127	3E3-MRS25-1%	R13	$\checkmark$	Approved	1	<no variants=""></no>			

Open (	Query Save Query	Apply [F5]	Allov	v Delete	Co	llective Number				
	Property			Comp.		Value	Bool		Order	
	Partnumber		$\sim$	LIKE	$\sim$	•	AND	$\sim$	ASC	$\sim$
	EMS-Name		$\sim$	=	$\sim$	Bosch	OR	$\sim$	ASC	$\sim$

The CSK1 Part is added manually into the BOM and is not in the SCM.



## It is possible to delete all or only one Collective Number in a BOM.

📥 MRP-Link - [BOM Management]								
💫 🖷 🖻 🕲 🖉 -								
Modules Library Searcher Primar	ry Source Secondary Source BOM /	Management BOM Repo	rts Administra	tion Cu	stomer T	ools V	'iew Help	
	.L	Bosch_ADC Flextro	nics					
New Polosco Column POM List		Farnell_ADC Farnell	_All_Par	ts_				
BOM Types Mapping Add/Remove M	Mapping Add/Remove Columns	Bosch Digi-Ke	ey .					
Management 🕞 List 🕞	Head Fa	Recent (BOM Management	last using query's)	Es.				
Tree	Data [SCM_RainMaker4_CS_[0_0_0_0]]							
BOMs	Partnumber EMS-Name EMS-Par	tnumber Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_CollectiveNumbe
Collective_Number	100037 Bosch 100037	47uF-10V-EC	C5		Approved	1	<no variants=""></no>	
Decision-Example	Open	2N3053	TR2	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$
BesignA	Open Head	2N3053	TR1		Approved	1	<no variants=""></no>	
PCB_RainMaker4_CS	New Version	2N1613	Q2	$\checkmark$	Approved	1	<no variants=""></no>	
PCB_RainMaker6_CS	Clone	220K-TR4-1%	R6	$\checkmark$	Approved	1	<no variants=""></no>	
PCB_RainMaker/_CS	Rename	270K-TR4-1%	R3	$\checkmark$	Approved	1	<no variants=""></no>	
PCB_RainMaker7_CS_Constraint_2	Synchronize	270K-TR4-1%	R2	$\checkmark$	Approved	1	<no variants=""></no>	
SCM_RainMaker1_CS	Refresh Preferred Values	2.5mm PWR CON	J1	$\checkmark$	Approved	1	<no variants=""></no>	
SCM_RainMaker2_CS	Refresh BOM Values	1000uF-50V-EC	C6	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$
SCM_RainMaker4_CS_[0_0_0]	Add All Alternatives	220E-TR4-1%	R7	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$
DesignC	Add All Collective Numbers	1K5-MRS25-1%	R8	$\checkmark$	Approved	1	<no variants=""></no>	
IDF-Interface	Renumber Position	2N2905A	TR3	$\checkmark$	Approved	1	<no variants=""></no>	
D IDF_PCB_Tutorial_2_NEW	Synchronize all	BA156K0104J	C1	$\checkmark$	Approved	1	<no variants=""></no>	
PCB_RainMaker7_CS	Delete	3E3-MRS25-1%	R13	$\checkmark$	Approved	1	<no variants=""></no>	
	Delete All Alternative Numbers	3E3-MRS25-1%	R12	$\checkmark$	Approved	1	<no variants=""></no>	$\checkmark$
	Delete All Collective Numbers	NEC_TOKIN_UC2_R	RL1	$\checkmark$	Approved	1	<no variants=""></no>	
		RS15H11AA04M-50K	P2		Approved	1	<no variants=""></no>	$\checkmark$
	New	BA156K0103J	C3		Approved	1	<no variants=""></no>	$\checkmark$
	Send BOM to Parts Stock	1N4148	D1	$\checkmark$	Approved	1	<no variants=""></no>	
	Find in Parts Stock	1N4148	D2		Approved	1	<no variants=""></no>	
1	Material where-used	2N3904	Q1		Approved	1	<no variants=""></no>	
*	Expand	202-0005-2%	CCK1		0	1		
	Collapse	port Current View						
	BOM Searching							
	Export BOM	ow Delete Collective Number						
	Refresh	Comp. Value	Bool	Order				
+	✓ Part-Details	LIKE V	AND 🗸	ASC 🗸				
	EMS-Name	<pre></pre>	OR 🗸	ASC 🗸				
ALL STREET		100 m						

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Für Rückfragen und weitere Informationen steht Ihnen das CSK Team gerne zur Verfügung.

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