

# CSK - CAD Systeme Kluwetasch

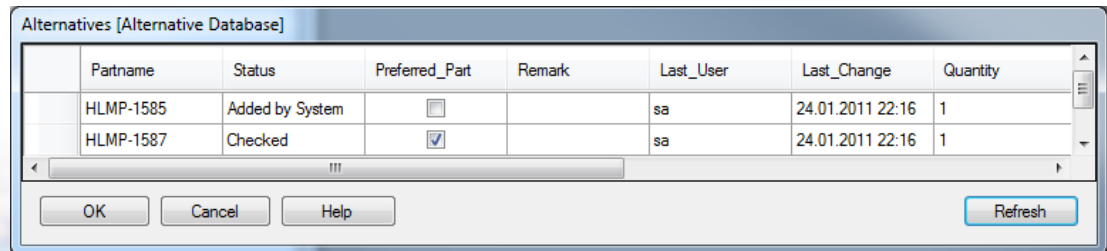
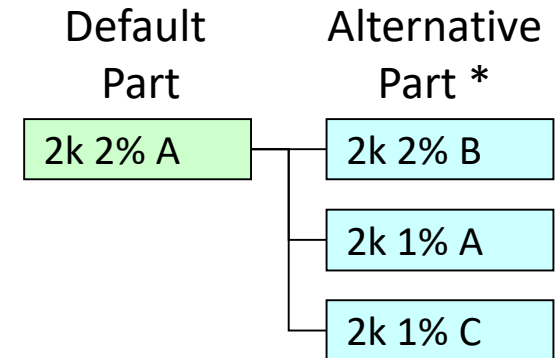
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MRP-Link Alternates vs. Collective Numbers

- 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

- 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

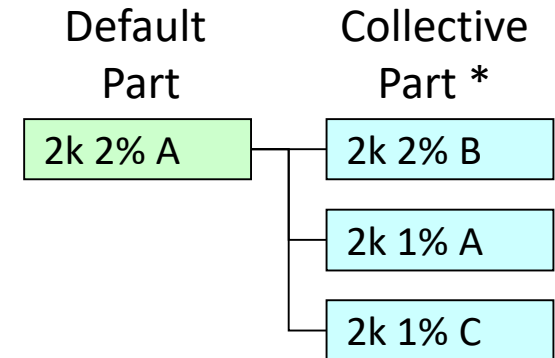


Partname	Status	Preferred_Part	Remark	Last_User	Last_Change	Quantity
HLMP-1585	Added by System	<input type="checkbox"/>		sa	24.01.2011 22:16	1
HLMP-1587	Checked	<input checked="" type="checkbox"/>		sa	24.01.2011 22:16	1

Buttons: OK, Cancel, Help, Refresh

# Collective Numbers Definition

- Define any number of Collective Parts
- Approve relations between Collective Parts
- With Multi Cluster Index

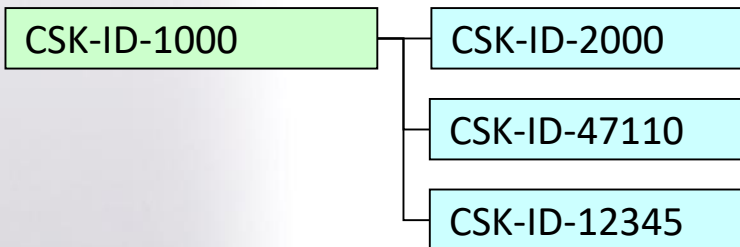
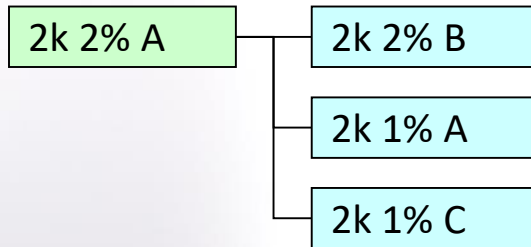


A	B	C	D	E	F	G	H
Partnumber	EMS-Name	EMS-Partnumber	Class	Value	Supplier	Supplier-MPN	Description
10000000			Capacitor	2.2nF	TDK	C1608X7R2A222K	2.2nF, TDK, C1608X7R2A222K
10000000	Bosch	8902211808	Capacitor	2.2nF	TDK	C1608X7R2A222K	
10000000	Hella	n/a	Capacitor	2.2nF	TDK	C1608X7R2A222K	
10000000	Flextronics	4816-00775	Capacitor	2.2nF	TDK	C1608X7R2A222K	
10000001			Resistor	10k	ROHM	MCR03..PFX1002	10k, ROHM, MCR03..PFX1002
10000001	Bosch	1267360318	Resistor	10k	SN	MCR03..PFX1002	10k, KOA EUROPE GMBH, RK73H
10000001	Hella	n/a	Resistor	10k	VIS	RVCS45242-shjh	
10000001	Flextronics	4816-00663	Resistor	10k	ROHM	MCR03..PFX1002	
10000002			Integrated Circuit		INF	TLE6251-2G	, INF, TLE6251-2G
10000002	Bosch	8905505876	Integrated Circuit		INF	TLE6251-2G	TLE6251-2G
10000002	Hella		Integrated Circuit				
10000002	Flextronics	4816-03577	Integrated Circuit		Infineon	TLE6251-2G/SP0004	CAN TRANSCEIVER TLE6251G SC
018863			Connector		SFS		
018863	Flextronics		Connector		SFS	?????	
2268310123			Connector		SFS	2268310123	
2268310123	Bosch	2268310123	Connector		SFS		

# Alternate Parts vs. Collective Parts

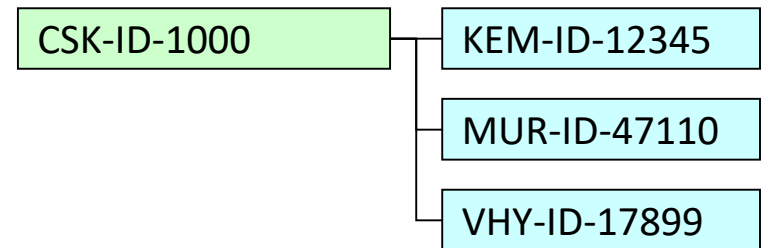
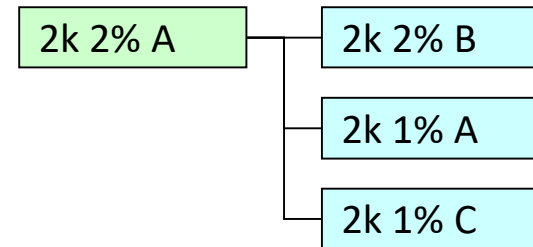
## Alternate Parts:

At first glance they look the same.



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

## Collective Parts:



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.

The screenshot shows the MRP-Link software interface. The main window displays a query for the part number 1N4184. The data table lists several suppliers for this part number, all providing the component 'dio-04500185' (High-speed diode). The selected row is from Digi-Key.

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description	Has_Alternatives
101342			1N4184	dio-04500185	High-speed diode	<input type="checkbox"/>
101342	Bosch	101342	1N4184	dio-04500185	High-speed diode	<input type="checkbox"/>
▶ 101342	Digi-Key	101342	1N4184	dio-04500185	High-speed diode	<input type="checkbox"/>
101342	Farnell	101342	1N4184	dio-04500185	High-speed diode	<input type="checkbox"/>
101342	Flextronics	101342	1N4184	dio-04500185	High-speed diode	<input type="checkbox"/>
101342	RS Components	101342	1N4184	dio-04500185	High-speed diode	<input type="checkbox"/>
101342	Würth	101342	1N4184	dio-04500185	High-speed diode	<input type="checkbox"/>
*						<input type="checkbox"/>

Below the table, the Query-Builder shows the active query: `Has_Alternate`. The query is defined as:

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
Partname	LIKE	1N4184	AND	NO...

Summary: 7 0000.0000sec. Total rows: 18142. Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLEXPRESS2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])

# Set The Parent Part

How to set the parent part.

The screenshot shows the MRP-Link software interface. The main window is titled "MRP-Link - [Secondary Source]". The menu bar includes "Modules", "Library Searcher", "Primary Source", "Secondary Source", "BOM Management", "BOM Reports", "Administration", "Customer", "Tools", "View", and "Help". The toolbar contains icons for "Sec. Import", "Sec. Status", "Sec. Export", and "Secondary Source Parts". The "Recent (Secondary Source last using query's)" list shows "Has\_Alternate", "All\_Parts", and "SOT223\_v2".

The "Tree" view on the left shows a hierarchy of parts under "PartsStock", including ACTEL, ALTERA, AMD, ANALOG\_DEVICES, ANALOG\_DEVICES, ANALOG\_DEVICES, ASI, AVX, FAIRCHILD, INT\_RECTIFIER, INTEL, and Legerty. Below the tree are two schematic diagrams: a diode symbol and a diode component.

The "Data" table displays a list of parts. The selected row is highlighted, and a context menu is open over it. The menu options are: "Add New Alternative-Pair", "Set Part", "Set Alternative", "Alignment Data View by Column Text", "Alignment Data View by Cell Text", "Show Alternatives", "Used as Alternative", "Links", "Searching [F5]", "Copy", "Column-Chooser...", "Part-Details", and "Color...".

The "Part-Details" panel at the bottom left shows the following information:

- Name: 1N4148
- Number: 101342
- Description: High-speed diode
- Symbol: DIODE
- Component: dio-04500185
- Library Alias: Express
- Library Path: D:\CSK\_Data\Definition\Express\Library\
- Library Version: 1
- Library Name: Parts
- Part Acceptance:

The "Query-Builder" panel at the bottom right shows the active query "Has\_Alternate" and a table of query results:

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
Partname	LIKE	1N4148	AND	NO...

At the bottom of the interface, it shows "7 0000.0000sec. Total rows: 18142" and "Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLEXPRESS2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])".

# The Result Of Parent Part

The parent part is now selected.

The screenshot shows the MRP-Link software interface. The main window displays a query result for part 1N4148. The 'Data' table shows the following information:

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description	Has_Alternatives
101342			1N4148	dio-04500185	High-speed diode	<input checked="" type="checkbox"/>

An 'Add Alternative Pair' dialog box is open, showing a table with the following data:

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Descr
101342			1N4148	dio-04500185	High-sp

The dialog box also includes an 'Alternative' section and a 'Query-BUILDER' section with options for 'Recursive' and 'Bidirectional'. The 'Open Query' section shows a table with the following data:

Property	Value	Operator	Value	Operator	Value
EMS-Partnumber		LIKE	*	AND	NO...
Partname		LIKE	1N4148	AND	NO...
>*	<Choose a filter-property>				

The 'Tree' view on the left shows a hierarchy of parts, with 'PartsStock' expanded. The 'Properties' view at the bottom left shows the following details for part 1N4148:

Name: 1N4148  
Number: 101342  
Description: High-speed diode  
Symbol: DIODE  
Component: dio-04500185  
Library Alias: Express  
Library Path: D:\CSK\_Data\Definition\Express\Library\  
Library Version: 1  
Library Name: Parts  
Part Acceptance:



# Find The Child Part

The child part is the 1N3595.

MRP-Link - [Secondary Source]

Modules Library Searcher Primary Source Secondary Sour... BOM Managem... BOM Reports Administration Customer Tools View Help

Sec. Import Sec. Status Sec. Export Secondary Source Parts

All\_Parts  
SOT223\_v2  
Has\_Alternate  
Recent (Secondary Source last using query's)

Tree

- PartsStock
  - ACTEL
  - ALTERA
  - AMD
  - ANALOG\_DEVICES
  - ANALOG\_DEVICES
  - ANALOG\_DEVICES
  - ASI
  - AVX
  - FAIRCHILD
  - INT\_RECTIFIER
  - INTEL
  - Legenty
  - MAXIM
  - MICROCHIP
  - Molex
  - MOTOROLA
  - Multiple
  - NATIONAL\_SEMICONDUCTOR

Data

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description	Has_Alternatives
102570			1N3595	DO35-2	SMALL SIGNAL ...	<input checked="" type="checkbox"/>
102570					SMALL SIGNAL ...	<input type="checkbox"/>
102570					SMALL SIGNAL ...	<input type="checkbox"/>
102570		595	DO35-2		SMALL SIGNAL ...	<input type="checkbox"/>
102570		595	DO35-2		SMALL SIGNAL ...	<input type="checkbox"/>
102570		595	DO35-2		SMALL SIGNAL ...	<input type="checkbox"/>
102570		595	DO35-2		SMALL SIGNAL ...	<input type="checkbox"/>

Context Menu:

- Add New Alternative-Pair
- Alignment Data View by Column Text
- Alignment Data View by Cell Text
- Show Alternatives
- Used as Alternative
- Links
- Searching [F5]
- Copy
- Column-Chooser...
- Part-Details
- Color...

Query-Builder activ Query = All\_Parts

Open Query Save Query Apply [F5]

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
Partname	LIKE	1N3595	AND	NO...
>>	<Choose a filter-property>			

7 0000.0000sec. Total rows: 18142

Current User : sa Database Info:

# The Result For The Relation

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

The screenshot shows the MRP-Link software interface. The main window title is "MRP-Link - [Secondary Source]". The menu bar includes: Modules, Library Searcher, Primary Source, Secondary Source, BOM Management, BOM Reports, Administration, Customer, Tools, View, Help. The toolbar contains icons for "Sec. Import", "Sec. Status", and "Sec. Export". The main area is divided into a "Tree" view on the left and a "Data" table on the right. The "Tree" view shows a hierarchy under "PartsStock" with various diode manufacturers listed. The "Data" table has columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, Component, Description, and Has\_Alternatives. A dialog box titled "Add Alternative Pair" is open, showing a table with columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, Component, and Description. The dialog also has "Alternative" and "Recursive" checkboxes, and "OK", "Cancel", and "Help" buttons. The status bar at the bottom shows: "7 0000.0000sec. Total rows: 18142" and "Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLSERVER2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])".

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description	Has_Alternatives
102570			1N3595	DO35-2	SMALL SIGNAL ...	<input type="checkbox"/>
102570	Rosch	102570	1N3595	DO35-2	SMALL SIGNAL ...	<input type="checkbox"/>

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description
101342			1N4148	dio-04500185	High-sp

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description
102570			1N3595	DO35-2	SMALL

# The Parent Part For The Next Child

The parent part is now selected.

The screenshot shows the MRP-Link software interface. The title bar reads "MRP-Link - [Secondary Source]". The menu bar includes "Modules", "Library Searcher", "Primary Source", "Secondary Source", "BOM Management", "BOM Reports", "Administration", "Customer", "Tools", "View", and "Help". Below the menu bar are icons for "Sec. Import", "Sec. Status", and "Sec. Export", along with a "Secondary Source Parts" dropdown. The main interface is divided into three main sections:

- Tree View:** A hierarchical tree structure under "PartsStock" listing various manufacturers and components like ACTEL, ALTERA, AMD, ANALOG\_DEVICES, ASI, AVX, FAIRCHILD, INT\_RECTIFIER, INTEL, and Legerty.
- Data Table:** A table with columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, Component, Description, and Has\_Alternatives. The first row is selected, showing Partnumber 101342, EMS-Name 1N4148, Component dio-04500185, and Description High-speed diode.
- Properties Panel:** Located at the bottom left, it displays details for the selected part: Name: 1N4148, Number: 101342, Description: High-speed diode, Symbol: DIODE, Component: dio-04500185, Library Alias: Express, Library Path: D:\CSK\_Data\Definition\Express\Library\, Library Version: 1, Library Name: Parts, and Part Acceptance.

A dialog box titled "Add Alternative Pair" is open over the data table. It contains a "Part" table with columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, Component, and Description. The first row in this table is filled with the same data as the selected row in the main table. Below the "Part" table is an "Alternative" section. At the bottom of the dialog, there are checkboxes for "Recursive" and "Bidirectional", and buttons for "OK", "Cancel", and "Help".

At the bottom of the software window, a status bar shows: "7 0000.0000sec. Total rows: 18142" and "Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLEXPRESS2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])".

# The Result For The Second Relation

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

The screenshot shows the MRP-Link software interface with the following components:

- Tree View:** A hierarchical list of parts including ACTEL, ALTERA, AMD, ANALOG\_DEVICES, ASI, AVX, FAIRCHILD, INT\_RECTIFIER, INTEL, Legerty, MAXIM, MICROCHIP, Molex, MOTOROLA, Multiple, and NATIONAL\_SEMICONDUCTOR.
- Data Table:** A table with columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, Component, Description, and Has\_Alternatives. It lists three entries for part number 101612, all with component DO41-2 and description GENERAL PUR....
- Add Alternative Pair Dialog:** A dialog box with two sections:
  - Part:** A table with one entry: Partnumber 101342, EMS-Name, EMS-Partnumber, Partname 1N4148, Component dio-04500185, Description High-speed diode.
  - Alternate:** A table with one entry: Partnumber 101612, EMS-Name, EMS-Partnumber, Partname 1N4001, Component DO41-2, Description GENERAL PUR....
- Options:**  Recursive,  Bidirectional.
- Buttons:** OK, Cancel, Help.
- Filter Properties Table:**

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
Partname	LIKE	1N4001	AND	NO...
** <Choose a filter-property>				
- Part Information:**
  - Name: 1N4001
  - Number: 101612
  - Description: GENERAL PURPOSE RECTIFIERS
  - Symbol: "1N4001"
  - Component: DO41-2
  - Library Alias: Express
  - Library Path: D:\CSK\_Data\Definition\Express\Libra
  - Library Version: 1
  - Library Name: Parts
  - Part Acceptance:
- Status Bar:** 7 0000.0000sec. Total rows: 18142. Current User: sa Database Info:

# Find Parts With Alternates Parts

The way how to find parts which has alternates defined.

MRP-Link - [Secondary Source]

Modules Library Searcher Primary Source Secondary Source BOM Management BOM Reports Administration Customer Tools View Help

Sec. Import Sec. Status Sec. Export Secondary Source Parts

Has\_Alternate  
All\_Parts  
SOT223\_v2  
Recent (Secondary Source last using query's)

**Tree**

- PartsStock
  - ACTEL
  - ALTERA
  - AMD
  - ANALOG\_DEVICES
  - ANALOG DEVICES
  - ANALOG\_DEVICES
  - ASI
  - AVX
  - FAIRCHILD
  - INT\_RECTIFIER
  - INTEL
  - Legerity

**Data**

	Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description	Has_Alternatives
▶	100000	Flextronics	100000	ZVNL120G	SOT223-4	Zuken N-CHAN...	<input checked="" type="checkbox"/>
	100001			Zuken 74FCT1...	SSOP-48	16-BIT LATCHES	<input checked="" type="checkbox"/>
	100002	Bosch	100002	FMMZ5255	SOT23-3	SILICON VOLTA...	<input checked="" type="checkbox"/>
	101342			1N4148	dio-04500185	High-speed diode	<input checked="" type="checkbox"/>
	102570			1N3595	DO35-2	SMALL SIGNAL ...	<input checked="" type="checkbox"/>
*							<input type="checkbox"/>

von 5 | Export Current View

Query-Builder active Query = Has\_Alternate

Open Query Save Query Apply [F5]

	Property	Comp.	Value	Bool	Order
	EMS-Partnumber	LIKE	*	AND	NO...
	Has_Alternatives	LIKE	1	AND	NO...
▶*	<Choose a filter-property>				

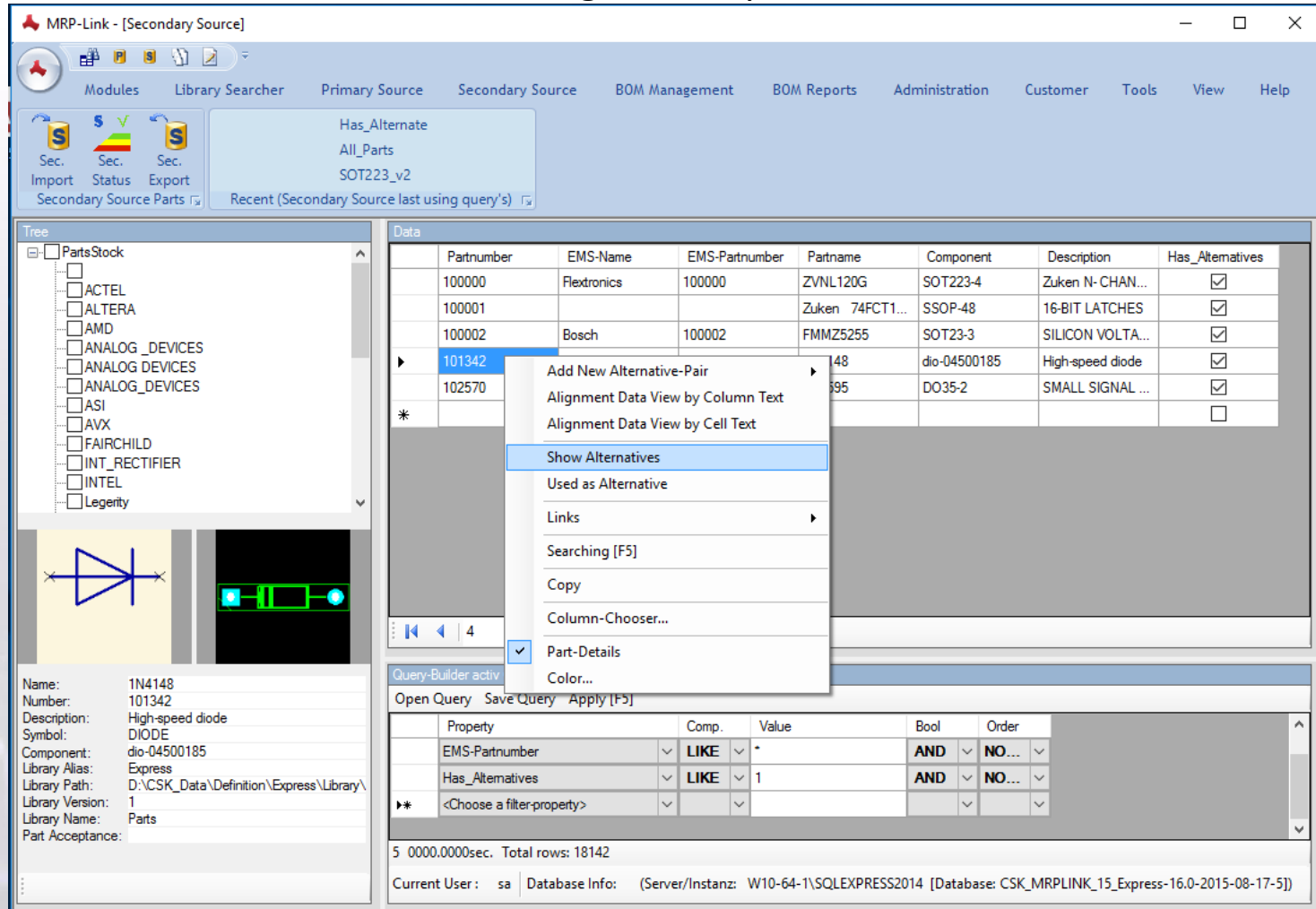
5 0000.0000sec. Total rows: 18142

Current User : sa Database Info: (Server/Instanz: W10-64-1\SQLEXPRESS2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])

Name: ZVNL120G  
Number: 100000  
Description: Zuken N-CHANNEL ENHANCEMENT M  
Symbol: ZVNL120G  
Component: SOT223-4  
Library Alias: Express  
Library Path: D:\CSK\_Data\Definition\Express\Library\  
Library Version:  
Library Name: Zetex-Parts  
Part Acceptance:

# Show The Parts With Alternates

Show the content of the relation settings of this part.



The screenshot shows the MRP-Link software interface. The main window displays a query result for part 101342. A context menu is open over the 'Show Alternatives' option. The query result table is as follows:

Partnumber	EMS-Name	EMS-Partnumber	Partname	Component	Description	Has_Alternatives
100000	Flextronics	100000	ZVNL120G	SOT223-4	Zuken N-CHAN...	<input checked="" type="checkbox"/>
100001			Zuken 74FCT1...	SSOP-48	16-BIT LATCHES	<input checked="" type="checkbox"/>
100002	Bosch	100002	FMMZ5255	SOT23-3	SILICON VOLTA...	<input checked="" type="checkbox"/>
▶ 101342			48	dio-04500185	High-speed diode	<input checked="" type="checkbox"/>
102570			95	DO35-2	SMALL SIGNAL ...	<input checked="" type="checkbox"/>
*						<input type="checkbox"/>

The context menu options are:

- Add New Alternative-Pair
- Alignment Data View by Column Text
- Alignment Data View by Cell Text
- Show Alternatives**
- Used as Alternative
- Links
- Searching [F5]
- Copy
- Column-Chooser...
- Part-Details
- Color...

The Query-Builder active window shows the following query:

Property	Comp.	Value	Bool	Order
EMS-Partnumber	LIKE	*	AND	NO...
Has_Alternatives	LIKE	1	AND	NO...
▶*	<Choose a filter-property>			

5 0000.0000sec. Total rows: 18142  
Current User : sa | Database Info: (Server/Instanz: W10-64-1\SQLEXPRESS2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])

# The Result For Our Relation Setting

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

MRP-Link - [Secondary Source]

Modules Library Searcher Primary Source Secondary Sour... BOM Managem... BOM Reports Administration Customer Tools View Help

Has\_Alternate  
SOT223\_v2  
All\_Parts  
Recent (Secondary Source last using query's)

Tree

- PartsStock
  - ACTEL
  - ALTERA
  - AMD
  - ANALOG\_DEVICES
  - ANALOG\_DEVICES
  - ASI
  - AVX
  - FAIRCHILD
  - INT\_RECTIFIER
  - INTEL
  - Legerty
  - MAXIM
  - MICROCHIP
  - Molex
  - MOTOROLA
  - Multiple
  - NATIONAL\_SEMICONDUCTOR

Data

	Partnumber	EMS-Name	EMS-Parnumber	Partname	Component	Description	Has_Alternatives
▶	100000	Flextronics	100000	ZVNL120G	SOT223-4	Zuken N-CHAN...	<input checked="" type="checkbox"/>
	100001			Zuken 74FCT1...	SSOP-48	16-BIT LATCHES	<input checked="" type="checkbox"/>
	100002	Bosch	100002	FMMZ5255	SOT23-3	SILICON VOLTA...	<input checked="" type="checkbox"/>
	101342			1N4148	dio-04500185	High-speed diode	<input checked="" type="checkbox"/>
	101612			1N4001	DO41-2	GENERAL PUR...	<input checked="" type="checkbox"/>
	102570			1N3595	DO35-2	SMALL SIGNAL ...	<input checked="" type="checkbox"/>
*							<input type="checkbox"/>

von 6 | Export Current View

Query-Builder activ Query = Has\_Alternate

Open Query Save Query Apply [F5]

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Parnumber	LIKE	*	AND	NO...
Has_Alternatives	LIKE	1	AND	NO...
▶*	<Choose a filter-property>			

6 0000.0000sec. Total rows: 18142

Current User: sa Database Info:

Name: ZVNL120G  
Number: 100000  
Description: Zuken N-CHANNEL ENHANCEMENT  
Symbol: ZVNL120G  
Component: SOT223-4  
Library Alias: Express  
Library Path: D:\CSK\_Data\Definition\Express\Libra  
Library Version:  
Library Name: Zetex-Parts  
Part Acceptance:

# How To Use Alternates In A BOM

We use this Rainmaker SCM from CADSTAR Express as BOM.

MRP-Link - [BOM Management]

Modules Library Searcher Primary Source Secondary Source BOM Management BOM Reports Administration Customer Tools View Help

New BOM Release Types Column Mapping BOM List Add/Remove List Column Mapping BOM Head Add/Remove Head Inheritance Columns Farnell\_ADC Flextronics Digi-Key Farnell \_All\_Parts\_ Bosch Bosch\_ADC Recent (BOM Management last using query's)

Tree

- BOMs
  - BML-Lite
  - Collective\_Number
  - Decision-Example
  - DesignA
  - DesignB
    - PCB\_RainMaker4\_CS
    - PCB\_RainMaker6\_CS
    - PCB\_RainMaker7\_CS
    - PCB\_RainMaker7\_CS\_Constraint
    - PCB\_RainMaker7\_CS\_Constraint
    - SCM\_RainMaker1\_CS
    - SCM\_RainMaker2\_CS
    - SCM\_RainMaker4\_CS
    - SCM\_RainMaker4\_CS\_I0\_0\_0
  - DesignC
  - DesignD
  - IDF-Interface
  - IDF\_PCB\_Tutorial\_2\_NEW

Data [SCM\_RainMaker4\_CS\_I0\_0\_0]

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
100147			2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100174			220K-TR4-1%	R6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100246			270K-TR4-1%	R2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100246			270K-TR4-1%	R3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100625			220E-TR4-1%	R7	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100631			1K5-MRS25-1%	R8	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100690			2N2905A	TR3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101127			3E3-MRS25-1%	R12	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101127			3E3-MRS25-1%	R13	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101178			NEC_TOKIN_UC2_RE...	RL1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101268			RS15H11AA04M-50K	P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101329			BA156K0103J--	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

von 34 Export Current View

Query-Builder active Query = \_All\_Parts\_

Open Query Save Query Apply [F5] Allow Delete Collective Number

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
* <Choose a filter-property>				

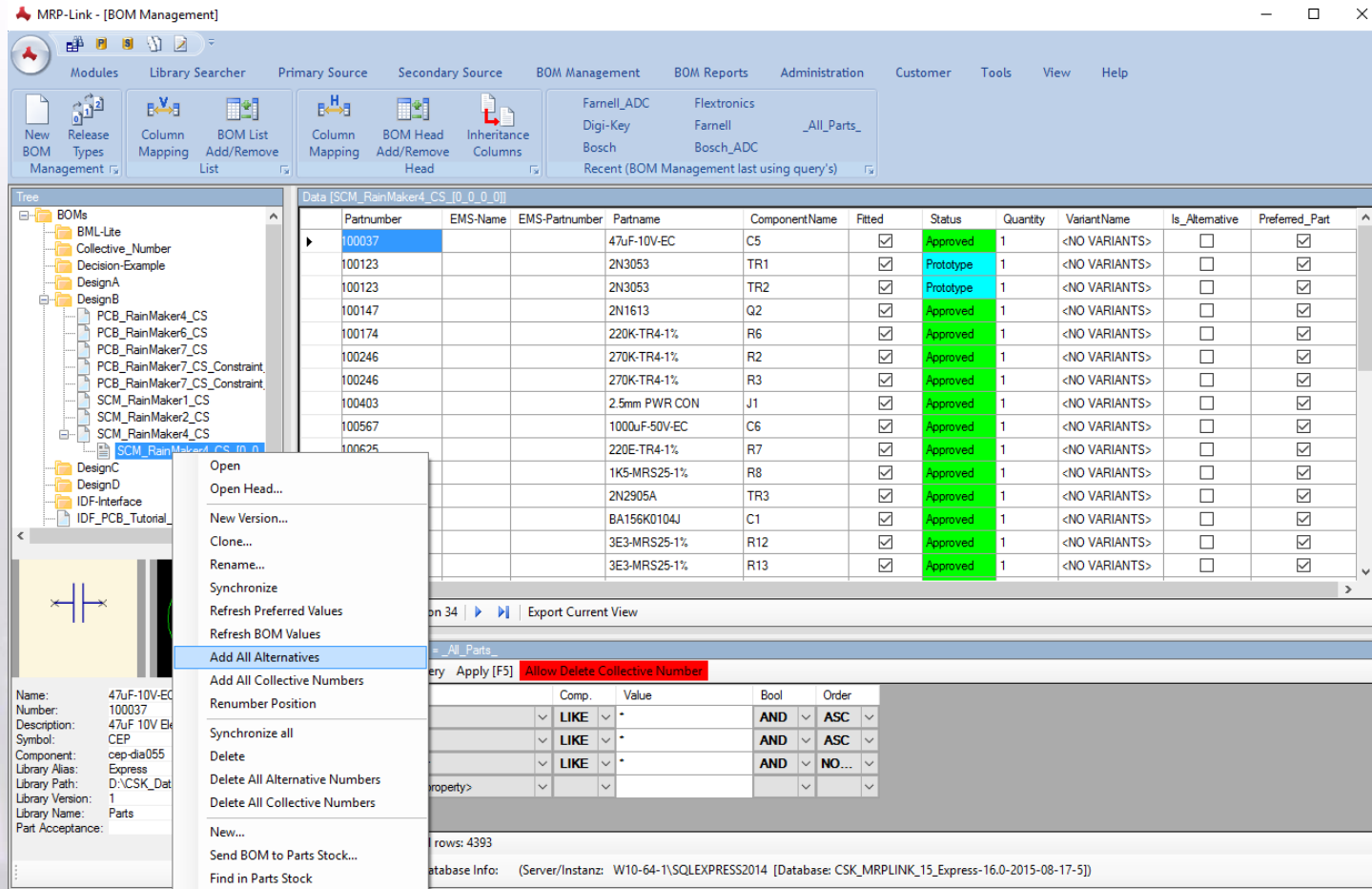
34 0000,0971sec. Total rows: 4393

Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLLEXPRESS2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])



# How To Add All Alternates Into The BOM

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



The screenshot shows the MRP-Link - [BOM Management] application window. The interface includes a menu bar, a toolbar, a tree view on the left, a data table in the center, and a properties panel at the bottom. A context menu is open over the tree view, with the 'Add All Alternates' option highlighted. The data table displays a list of components with columns for Partnumber, EMS-Name, EMS-Partnumber, Partname, ComponentName, Fitted, Status, Quantity, VariantName, Is\_Alternative, and Preferred\_Part. The 'Status' column contains values like 'Approved' and 'Prototype'. The 'Is\_Alternative' column contains checkboxes.

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
100037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123			2N3053	TR1	<input checked="" type="checkbox"/>	Prototype	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123			2N3053	TR2	<input checked="" type="checkbox"/>	Prototype	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100147			2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100174			220K-TR4-1%	R6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100246			270K-TR4-1%	R2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100246			270K-TR4-1%	R3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100625			220E-TR4-1%	R7	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			1K5-MRS25-1%	R8	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			2N2905A	TR3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			3E3-MRS25-1%	R12	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			3E3-MRS25-1%	R13	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

# The Result Of Add Alternates Into The BOM

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

MRP-Link - [BOM Management]

Modules Library Searcher Primary Source Secondary Source BOM Management BOM Reports Administration Customer Tools View Help

New BOM Management Release Types Column Mapping BOM List Add/Remove List Column Mapping BOM Head Add/Remove Head Inheritance Columns Farnell\_ADC Flextronics Digi-Key Farnell Bosch Bosch\_ADC \_All\_Parts\_ Recent (BOM Management last using query's)

Tree

- BOMs
  - BML-Lite
  - Collective\_Number
  - Decision-Example
  - DesignA
  - DesignB
    - PCB\_RainMaker4\_CS
    - PCB\_RainMaker6\_CS
    - PCB\_RainMaker7\_CS
    - PCB\_RainMaker7\_CS\_Constraint
    - PCB\_RainMaker7\_CS\_Constraint
    - SCM\_RainMaker1\_CS
    - SCM\_RainMaker2\_CS
    - SCM\_RainMaker4\_CS
    - SCM\_RainMaker4\_CS\_[0\_0\_0]
  - DesignC
  - DesignD
  - IDF-Interface
  - IDF\_PCB\_Tutorial\_2\_NEW

Data [SCM\_RainMaker4\_CS\_[0\_0\_0]]

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	Variant Name	Is_Alternative	Preferred_Part
100750			BA156K0104J	C1	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
101478			0.1UF-COG2-5%	C2	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
101329			BA156K0103J-	C3	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
101792			10uF-10V-EC	C4	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
100037			47uF-10V-EC	C5	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
100567			1000uF-50V-EC	C6	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
101342			1N4148	D1	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570				D1	<input type="checkbox"/>	No status	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	☑
101342			1N4148	D2	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570				D2	<input type="checkbox"/>	No status	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	☑
100403			2.5mm PWR CON	J1	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
101385			RS15H11AA04M-100K	P1	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
101268			RS15H11AA04M-50K	P2	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
101358			2N3904	Q1	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑
100147			2N1613	Q2	☑	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	☑

von 36 Export Current View

Query-Builder active Query = \_All\_Parts\_

Open Query Save Query Apply [F5] Allow Delete Collective Number

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
* <Choose a filter-property>				

36 0000,1090sec. Total rows: 4395

Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLEXPRESS2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])

# Required Synchronise After Add Alternates

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

The screenshot shows the MRP-Link - [BOM Management] application window. The main data table displays a list of parts with columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, ComponentName, Fitted, Status, Quantity, VariantName, Is\_Alternative, and Preferred\_Part. The 'Status' column for all listed parts is 'Approved'. A context menu is open over the selected part (Partnumber: 100750), with the 'Synchronize' option highlighted. Below the table, the 'Query-Builder' section shows the active query as '\_All\_Parts\_' and includes a red warning box: 'Allow Delete Collective Number'. The bottom status bar indicates '36 0000,1030sec. Total rows: 4395' and 'Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLSERVER2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])'.

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
100750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101478			0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101329			BA156K0103J-	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101342			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570			1N3595	D1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
101342			1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570			1N3595	D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101385			RS15H11AA04M-100K	P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101268			RS15H11AA04M-50K	P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101358			2N3904	Q1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100147			2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Query-Builder active Query = '\_All\_Parts\_'

Open Query Save Query Apply [F5] Allow Delete Collective Number

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
* <Choose a filter-property>				

36 0000,1030sec. Total rows: 4395

Current User: sa Database Info: (Server/Instanz: W10-64-1\SQLSERVER2014 [Database: CSK\_MRPLINK\_15\_Express-16.0-2015-08-17-5])

# Check The Added Alternates

The system added only checked valid Alternates into our BOM.

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
100750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101478			0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101329			BA156K0103J--	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101342			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
102570			1N3595	D1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
101342			1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570			1N3595	D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101385			RS15H11AA04M-100K	P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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	<input checked="" type="checkbox"/>		1N3595
101342			Checked	<input type="checkbox"/>		1N4148
101612			Unchecked	<input type="checkbox"/>	Prototype	1N4001
*				<input type="checkbox"/>		

OK Cancel Delete Relation Help Refresh

# Check The Preferred Parts

The system set directly the current Preferred Part.

Data [SCM_RainMaker4_CS_[0_0_0_0]]											
	Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
▶	100750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	101478			0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	101329			BA156K0103J--	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	101792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	100037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	101342			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
	102570			1N3595	D1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	101342			1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
	102570			1N3595	D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	100403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	101385			RS15H11AA04M-100K	P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Alternatives [Secondary Source]							
	Partnumber	EMS-Name	EMS-Partnumber	Status	Preferred_Part	Remark	Partname
	102570			Checked	<input checked="" type="checkbox"/>		1N3595
	101342			Checked	<input type="checkbox"/>		1N4148
	101612			Unchecked	<input type="checkbox"/>	Prototype	1N4001
*					<input type="checkbox"/>		

OK Cancel Delete Relation Help Refresh

# Select Only Fitted Parts

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\_CS\_ [0\_0\_0\_0]]

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
00750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01478			0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01329			BA156K0103J--	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01342			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
01342			1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
00403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01385			RS15H11AA04M-100K	P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01268			RS15H11AA04M-50K	P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01358			2N3904	Q1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00147			2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01000			2K7 TD 1%	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

von 34 | Export Current View

Query-Builder activ Query = \_All\_Parts\_

Open Query Save Query Apply [F5] Allow Delete Collective Number

Property	Comp.	Value	Bool	Order
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
Fitted	LIKE	1		
** <Choose a filter-property>				

As result we get only the original parts from the SCM

- No Alternates
- No Preferred Parts

# As Result The 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-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
00750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01478			0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01329			BA156K0103J--	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
02570			1N3595	D1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
02570			1N3595	D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
00403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01385			RS15H11AA04M-100K	P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01268			RS15H11AA04M-50K	P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01358			2N3904	Q1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00147			2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01660			2K7 TD4 1%	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

von 34 Export Current View

Query-Builder activ Query = \_All\_Parts\_

Open Query Save Query Apply [F5] Allow Delete Collective Number

Property	Comp.	Value	Bool	Order
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
Preferred_Part	LIKE	1		
>>	<Choose a filter-property>			

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.

# Set Preferred Part To Fitted

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

Data [SCM\_RainMaker4\_CS\_T0\_0\_0\_0]

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
00750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01478			0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01329			BA156K0103J-	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
02570			1N3595	D1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
02570			1N3595	D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
00403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01385			RS15H		<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01268			RS15H		<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
01358			2N3904		<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
00147			2N1613		<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Edit

Fitted

True  False

OK Cancel Help

Query-Builder activ Query = \_All\_Parts\_

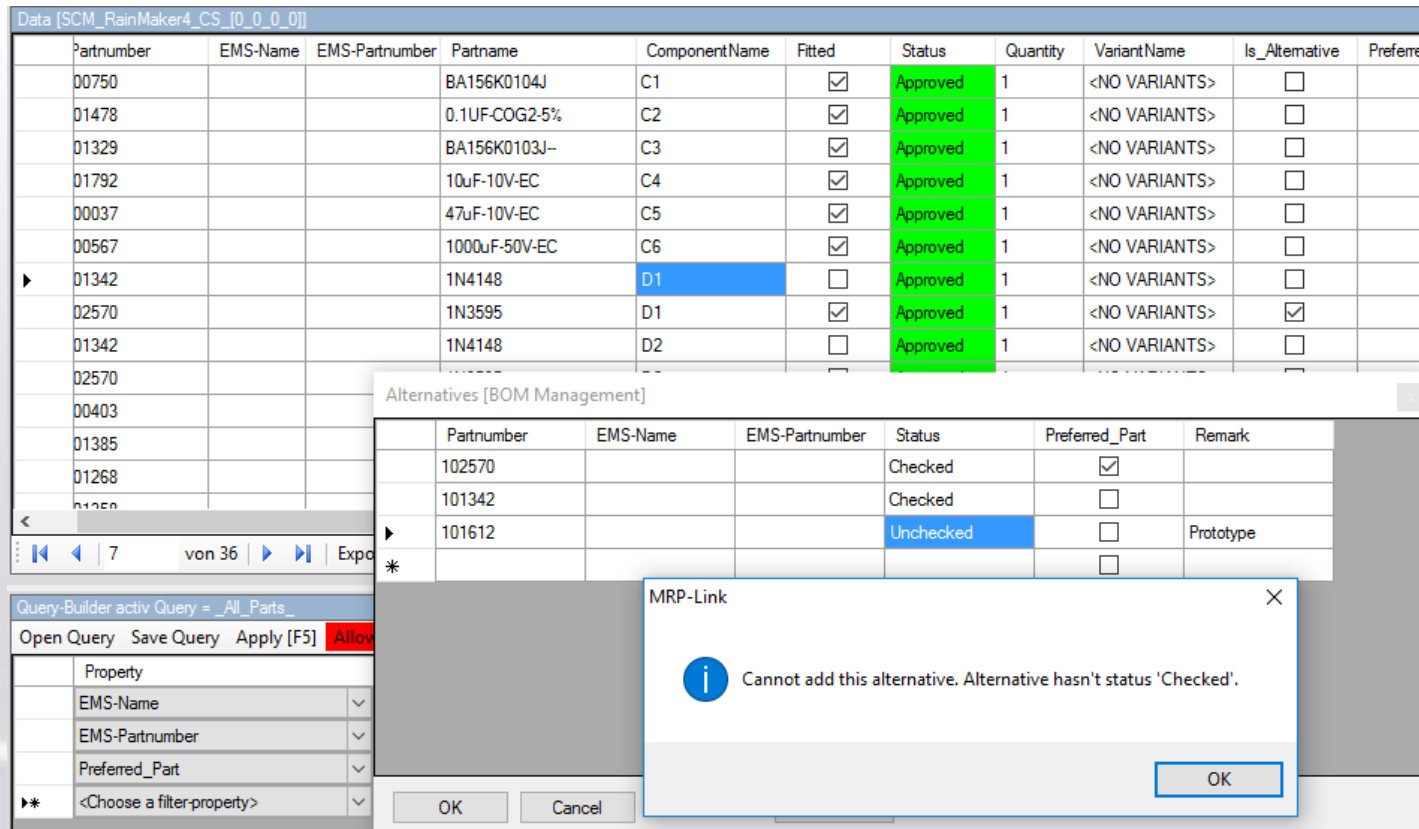
Open Query Save Query Apply [F5] Allow Delete Collective Number

Property	Comp.	Value	Bool	Order
EMS-Name	LIKE	*	AND	ASC
EMS-Partnumber	LIKE	*	AND	NO...
Preferred_Part	LIKE	1		
<Choose a filter-property>				

00567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
02570			1N3595	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
02570			1N3595	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
00403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



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

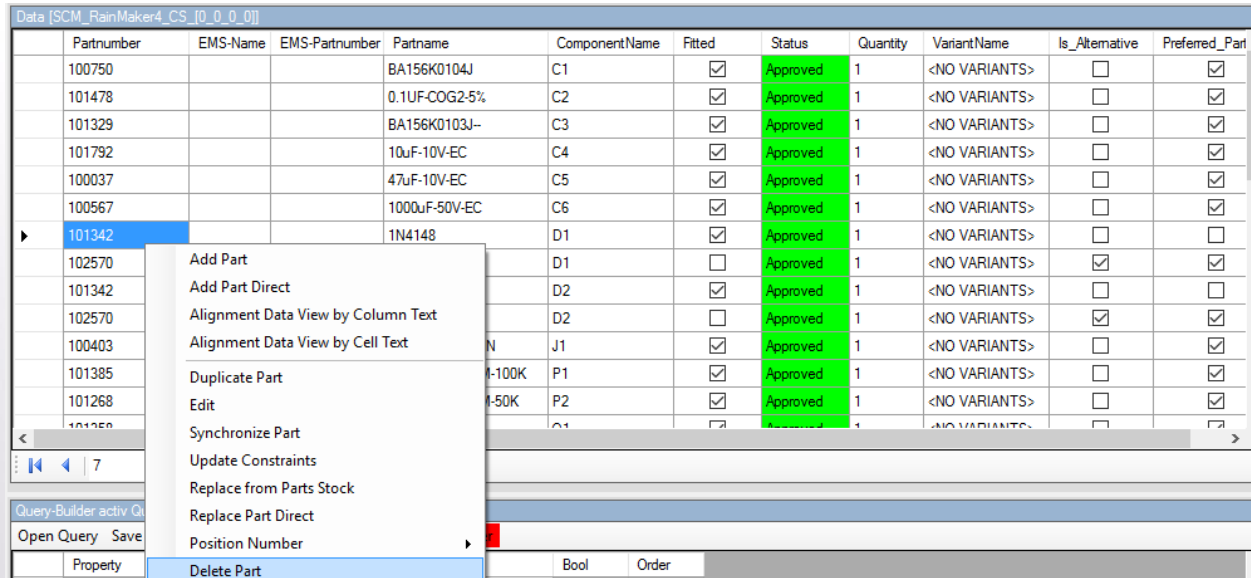


The screenshot displays a software interface with three main components:

- Data Table:** A table titled "Data [SCM\_RainMaker4\_CS\_[0\_0\_0\_0]]" with columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, ComponentName, Fitted, Status, Quantity, VariantName, Is\_Alternative, and Prefere. The "Status" column contains values like "Approved" (highlighted in green) and "Unchecked" (highlighted in blue).
- Alternatives [BOM Management] Dialog:** A dialog box with columns: Partnumber, EMS-Name, EMS-Partnumber, Status, Preferred\_Part, and Remark. It lists alternatives with statuses "Checked" and "Unchecked".
- MRP-Link Error Dialog:** A small error dialog box with the message: "Cannot add this alternative. Alternative hasn't status 'Checked'". It includes an "OK" button.

# Delete An Alternate Part

To delete only Alternate Parts just use “Delete Part”.



Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
100750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101478			0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101329			BA156K0103J-	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101342			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570				D1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
101342				D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570				D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100403				J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101385				P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101268				P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101342			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
101342			1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570			1N3595	D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

# The Different Collective Numbers

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	Würth	101342	High-speed diode	Approved

Part 1

Part 2

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	Würth	101612	GENERAL PURPOSE RECTIFIERS	Approved

Part 3

Data					
	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	Würth	102570	SMALL SIGNAL DIODE	Approved

# Add All Collective Numbers

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

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_Alternative	Preferred_Part
100750			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101478			01UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101329			BA156K0103J	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101792			10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037			47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100567			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101342			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570				D1	<input type="checkbox"/>	No status	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
101342			1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>
102570				D2	<input type="checkbox"/>	No status	1	<NO VARIANTS>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
100403			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101385			RS15H11AA04M-100K	P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101268			RS15H11AA04M-50K	P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101368			2N3904	Q1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100147			2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101660			2K7-TR4-1%	R1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
102206			22E-MRS25-1%	R10	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101710			470E-MRS25-1%	R11	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101127			3E3-MRS25-1%	R12	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
101127			3E3-MRS25-1%	R13	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100246			270K-TR4-1%	R2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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_CollectiveNumber
100037	Bosch	100037	47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037	Digi-Key	100037	47uF-10V-EC	C5	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037	Farnell	100037	47uF-10V-EC	C5	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037	Flextronics	100037	47uF-10V-EC	C5	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037	RS Comp...	100037	47uF-10V-EC	C5	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100037	Würth	100037	47uF-10V-EC	C5	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Bosch	100123	2N3053	TR2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Bosch	100123	2N3053	TR1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Digi-Key	100123	2N3053	TR2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Digi-Key	100123	2N3053	TR1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Farnell	100123	2N3053	TR1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Farnell	100123	2N3053	TR2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Flextronics	100123	2N3053	TR2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Flextronics	100123	2N3053	TR1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	RS Comp...	100123	2N3053	TR2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	RS Comp...	100123	2N3053	TR1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Würth	100123	2N3053	TR2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100123	Würth	100123	2N3053	TR1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100147	Bosch	100147	2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100147	Digi-Key	100147	2N1613	Q2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
100147	Farnell	100147	2N1613	Q2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

# To Create A BOM For Only One Supplier

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

Data [SCM_RainMaker4_CS [0_0_0_0]]										
	Partnumber	EMS-Name	EMS-Parnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_CollectiveNumber
▶	100750	Bosch	100750	BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101478	Bosch	101478	0.1UF-COG2-5%	C2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101329	Bosch	101329	BA156K0103J--	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101792	Bosch	101792	10uF-10V-EC	C4	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	100037	Bosch	100037	47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	100567	Bosch	100567	1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101364			3E3-r0805-2%	CSK1	<input checked="" type="checkbox"/>	Approved	1		<input type="checkbox"/>
	101342	Bosch	101342	1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	102570	Bosch	102570	1N3595	D1	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101342	Bosch	101342	1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	102570	Bosch	102570	1N3595	D2	<input type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	100403	Bosch	100403	2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101385	Bosch	101385	RS15H11AA04M-100K	P1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101268	Bosch	101268	RS15H11AA04M-50K	P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101358	Bosch	101358	2N3904	Q1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	100147	Bosch	100147	2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101660	Bosch	101660	2K7-TR4-1%	R1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	102206	Bosch	102206	22E-MRS25-1%	R10	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101710	Bosch	101710	470E-MRS25-1%	R11	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101127	Bosch	101127	3E3-MRS25-1%	R12	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	101127	Bosch	101127	3E3-MRS25-1%	R13	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
	100346	Bosch	100346	270K-TR4-1%	R3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>

von 37 | Export Current View

Query-Builder activ Query = Bosch\_ADC

Open Query Save Query Apply [F5] Allow Delete Collective Number

Property	Comp.	Value	Bool	Order
Partnumber	LIKE	*	AND	ASC
EMS-Name	=	Bosch	OR	ASC

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

# Delete All Collective Numbers In The BOM

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

The screenshot shows the MRP-Link software interface for BOM Management. The main window displays a table of parts with columns: Partnumber, EMS-Name, EMS-Partnumber, Partname, ComponentName, Fitted, Status, Quantity, VariantName, and Is\_CollectiveNumber. A context menu is open over the first row, with the option 'Delete All Collective Numbers' highlighted. The table contains the following data:

Partnumber	EMS-Name	EMS-Partnumber	Partname	ComponentName	Fitted	Status	Quantity	VariantName	Is_CollectiveNumber
100037	Bosch	100037	47uF-10V-EC	C5	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
2N3053			2N3053	TR2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
2N3053			2N3053	TR1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
2N1613			2N1613	Q2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
220K-TR4-1%			220K-TR4-1%	R6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
270K-TR4-1%			270K-TR4-1%	R3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
270K-TR4-1%			270K-TR4-1%	R2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
2.5mm PWR CON			2.5mm PWR CON	J1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
1000uF-50V-EC			1000uF-50V-EC	C6	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
220E-TR4-1%			220E-TR4-1%	R7	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
1K5-MRS25-1%			1K5-MRS25-1%	R8	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
2N2905A			2N2905A	TR3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
BA156K0104J			BA156K0104J	C1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
3E3-MRS25-1%			3E3-MRS25-1%	R13	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
3E3-MRS25-1%			3E3-MRS25-1%	R12	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
NEC_TOKIN_UC2_R...			NEC_TOKIN_UC2_R...	RL1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
RS15H11AA04M-50K			RS15H11AA04M-50K	P2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
BA156K0103J-			BA156K0103J-	C3	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
1N4148			1N4148	D1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
1N4148			1N4148	D2	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>
2N3904			2N3904	Q1	<input checked="" type="checkbox"/>	Approved	1	<NO VARIANTS>	<input checked="" type="checkbox"/>

The context menu includes the following options: Open, Open Head..., New Version..., Clone..., Rename..., Synchronize, Refresh Preferred Values, Refresh BOM Values, Add All Alternatives, Add All Collective Numbers, Renumber Position, Synchronize all, Delete, Delete All Alternative Numbers, **Delete All Collective Numbers**, New..., Send BOM to Parts Stock..., Find in Parts Stock, Material where-used, Expand, Collapse, BOM Searching, Export BOM, Refresh, Part-Details, and EMS-Name. The Part-Details section shows filters: Comp. LIKE \*, Value = Bosch, Bool AND, Order ASC.

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