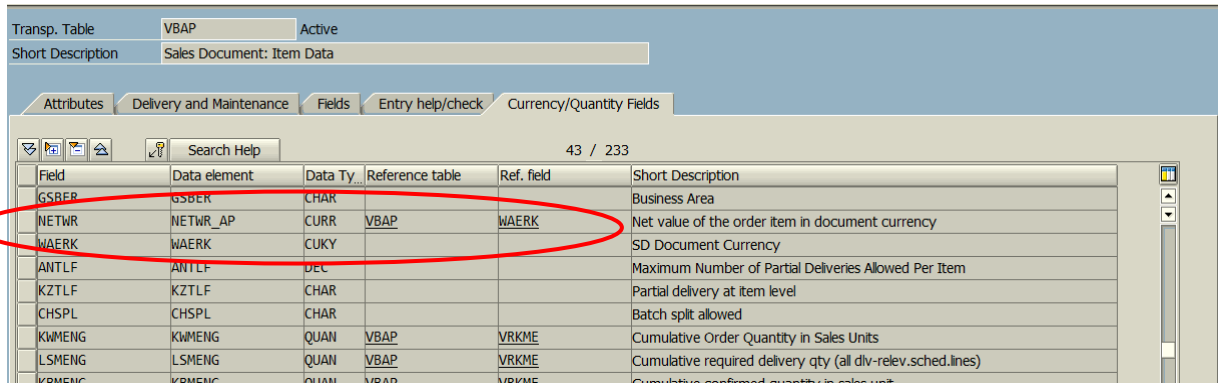


Reference Fields for CURR/QUAN fields

In the **SAP Data Dictionary** all fields of type **CURR** or **QUAN** have a reference field assigned which contains the currency or the unit of the original field.

Take for example table **VBAP** (Sales Document: Item Data):



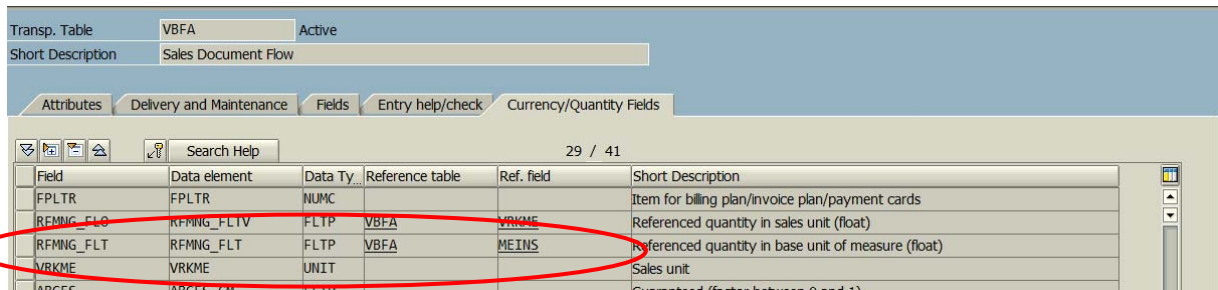
Field	Data element	Data Ty.	Reference table	Ref. field	Short Description
GSRER	GSRER	CHAR			Business Area
NETWR	NETWR_AP	CURR	VBAP	WAERK	Net value of the order item in document currency
WAERK	WAERK	CUKY			SD Document Currency
ANTLF	ANTLF	DEC			Maximum Number of Partial Deliveries Allowed Per Item
KZTLF	KZTLF	CHAR			Partial delivery at item level
CHSPL	CHSPL	CHAR			Batch split allowed
KWMENG	KWMENG	QUAN	VBAP	VRKME	Cumulative Order Quantity in Sales Units
LSMENG	LSMENG	QUAN	VBAP	VRKME	Cumulative required delivery qty (all div-relev.sched.lines)
VRMENG	VRMENG	QUAN	VBAP	VRKME	Cumulative confirmed quantity in sales unit

Field **NETWR** (type **CURR**) has **VBAP-WAERK** as currency reference field.

Field **KWMENG** (type **QUAN**) has **VBAP-VRKME** as unit reference field.

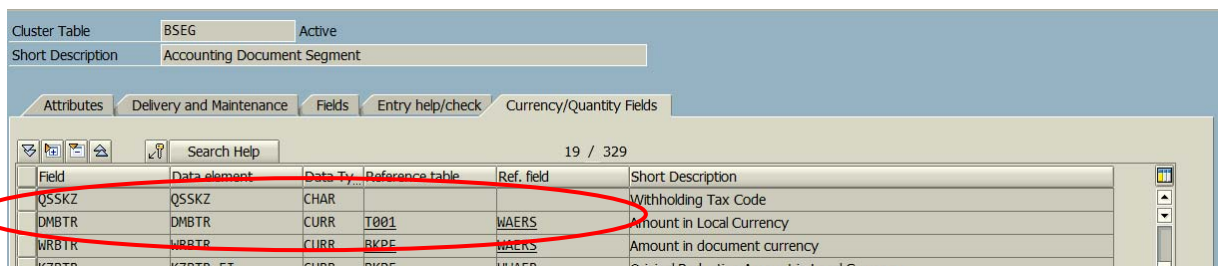
In addition floating point fields (type **FLTP**) may or may not have a reference field.

Table **VBFA** (Sales Document Flow) offers a good example:



Field	Data element	Data Ty.	Reference table	Ref. field	Short Description
FPLTR	FPLTR	NUMC			Item for billing plan/invoice plan/payment cards
RFMNG_FLG	RFMNG_FLTV	FLTP	VBFA	VRKME	Referenced quantity in sales unit (float)
RFMNG_FLT	RFMNG_FLT	FLTP	VBFA	MEINS	Referenced quantity in base unit of measure (float)
VRKME	VRKME	UNIT			Sales unit
ABGES	ABGES_CM	FLTP			Guaranteed (factor between 0 and 1)

The cited examples show reference fields belonging to the same table as the original field. There are, however, also cases where the reference fields belong to other tables. A good example is table **BSEG** (Accounting Document Segment):



Field	Data element	Data Ty.	Reference table	Ref. field	Short Description
QSSKZ	QSSKZ	CHAR			Withholding Tax Code
DMBTR	DMBTR	CURR	T001	WAERS	Amount in Local Currency
WRBTR	WRBTR	CURR	BKPE	WAERS	Amount in document currency
KZBTR	KZBTR_FT	CURR	BKPE	HWAEF	Original Reduction Amount in Local Currency

CURR field **DMBTR** references field **T001-WAERS** which does not belong to **BSEG**. This is an **external reference**.

Reference fields have always been taken into account **implicitly** in SE16XXL – at least the normal ones. External reference fields could only be accounted for if the table containing the reference (T001 in the above cited example) had been joined to the records of the main table.


However, the assignments could only be made visible by summing up the involved fields using the  function of ALV. In this case the reference field would show up with the corresponding currency/unit in the (sub)totals lines:

Table VBAP - Sales Document: Item Data

MANDT	VBELN	POSNR	MATNR	PRODH	NETWR	WAERK	KWMENG	VRKME
<input type="checkbox"/>	800	0000006570	10	P-102	001000010000000110	45.000,00	EUR	15 ST
<input type="checkbox"/>	800	0000006571	10	P-103	001000010000000105	61.200,00	EUR	18 ST
<input type="checkbox"/>	800	0000006572	10	P-104	001000010000000110	100.050,00	EUR	29 ST
<input type="checkbox"/>	800	0000006573	10	P-102	001000010000000110	75.000,00	EUR	25 ST
<input type="checkbox"/>	800	0000006574	10	P-103	001000010000000105	85.000,00	EUR	25 ST
<input type="checkbox"/>	800	0000006575	10	P-104	001000010000000110	138.000,00	EUR	40 ST
<input type="checkbox"/>	800	0000006576	10	R-1140	001250010000000110	3.246,50	EUR	5 ST
*					21.845.470,84	EUR	2	EA
					15.000,00	MXN	11.200	KAR
					7.070.759,23	USD	5	LE
							59.940	ST

This might suffice for normal use, but since the introduction of (sub)totals and similar functions in SE16XXL it becomes almost necessary to be able to locate the reference fields explicitly. For this reason the DDIC reference fields are now visible in several places throughout SE16XXL.

Normal reference fields are shown in brackets, either as (**WAERK**) or (**A~WAERK**) depending on whether the list is as simple one or one resulting from a join.

External references may appear as [...] or [**T001-WAERS**], depending on the situation, but always in **square brackets**, to distinguish them easily from the normal ones.

Needless to say, external references become normal ones if the involved table is joined to the current result list.

In the following pages we will illustrate the various situations where reference fields are shown explicitly.

Detail View of a Result List Row

The detailed display of a result list row now shows the reference fields in brackets on the right side of each relevant field name:

Entry of table VBAP - Sales Document: Item Data		
MANDT	'800'	Client
VBELN	'0000005485'	Sales Document
POSNR	'000010'	Sales Document Item
MATNR	'1400-200'	Material Number
MATWA	'1400-200'	Material entered
PMATN		Pricing Reference Material
CHARG		Batch Number
...		
SPART	'02'	Division
GSBER	'3000'	Business Area
NETWR (WAERK)	8.340,80	Net value of the order item in document currency
WAERK	'USD'	SD Document Currency
ANTLF	'9'	Maximum Number of Partial Deliveries Allowed Per Item
KZTLF		Partial delivery at item level
CHSPL		Batch split allowed
KWMENG (VRKME)	520,000	Cumulative Order Quantity in Sales Units
LSMENG (VRKME)	520,000	Cumulative required delivery qty (all dlv-relev.sched.lines)
KBMENG (VRKME)	520,000	Cumulative confirmed quantity in sales unit
KLMENG (MEINS)	520,000	Cumulative confirmed quantity in base unit
VRKME	'ST'	Sales unit
UMVZ	'1'	Multiplier (factor) for conversion of sales quantity into SKU

External references are shown as [...] – whereby hovering over it with the cursor causes the quickinfo to be displayed:

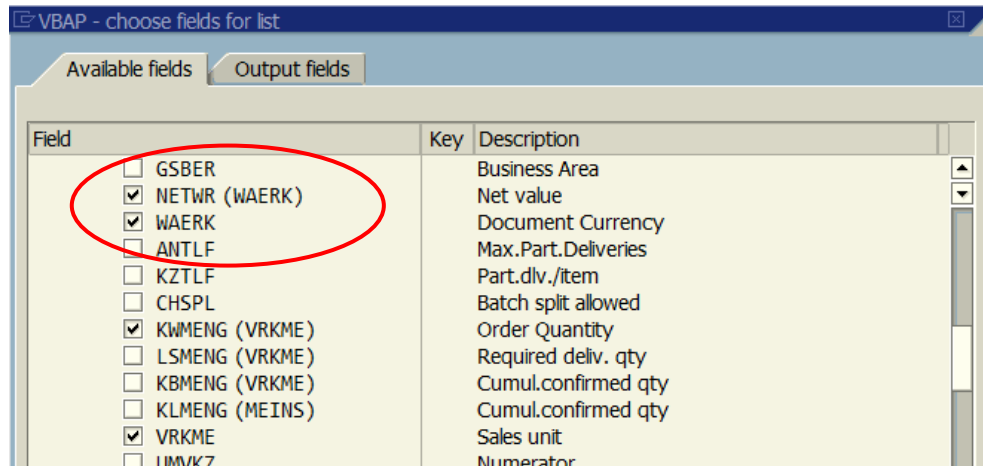
MWSKZ		Sales Tax Code
QSSKZ		Withholding Tax Code
DMBTR [...]	15.000,00	Amount in Local Currency
WRBTR [...]	15.000,00	Amount in document currency
KZBTR [...]	0,00	Original Reduction Amount in Local Currency
PSWB (B~KPF-WAERS)	15.000,00	Amount for Updating in General Ledger
PSWSL	'EUR'	Update Currency for General Ledger Transaction Figures
TXBHW [...]	0,00	Original Tax Base Amount in Local Currency
TXBFW [...]	0,00	Original Tax Base Amount in Document Currency

In a join list the reference fields are shown with their alias:

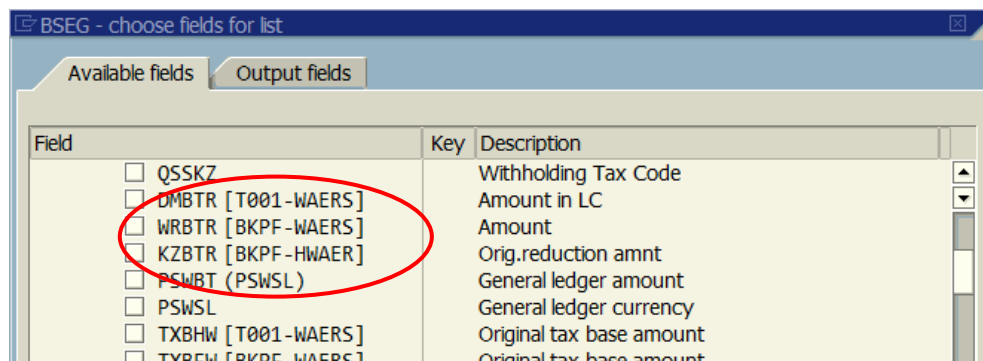
A~MWSKZ	'01'	Sales Tax Code
A~QSSKZ		Withholding Tax Code
A~DMBTR [...]	20.000,00	Amount in Local Currency
A~WRBTR (B~WAERS)	20.000,00	Amount in document currency
A~KZBTR (B~HWAER)	0,00	Original Reduction Amount in Local Currency
A~PSWB (A~PSWSL)	20.000,00	Amount for Updating in General Ledger
A~PSWSL	'EUR'	Update Currency for General Ledger Transaction Figures

Unified Field Selector

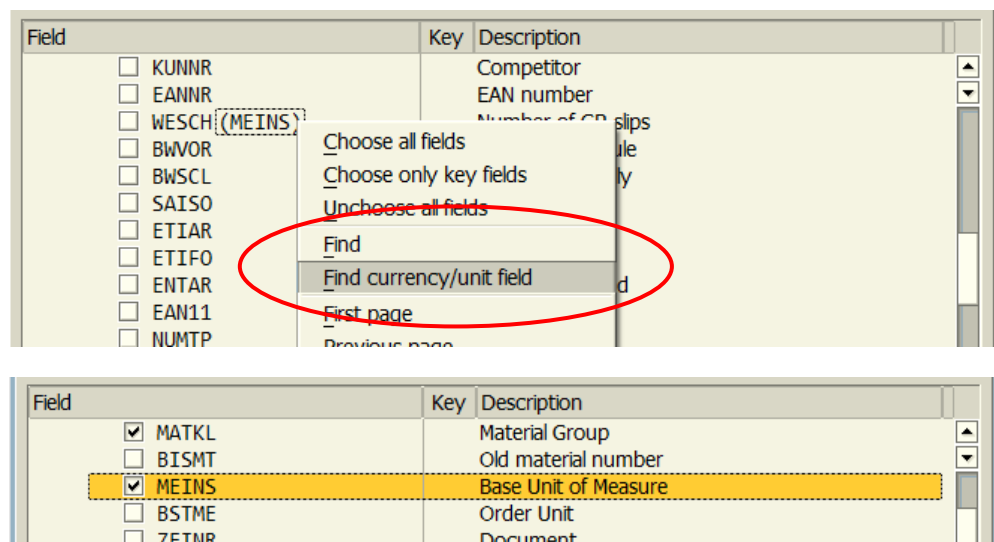
When choosing the fields for the result list, the reference fields are also visible:



In this case, however, the external references are shown directly, because a quickinfo is technically not feasible and there is enough space available:

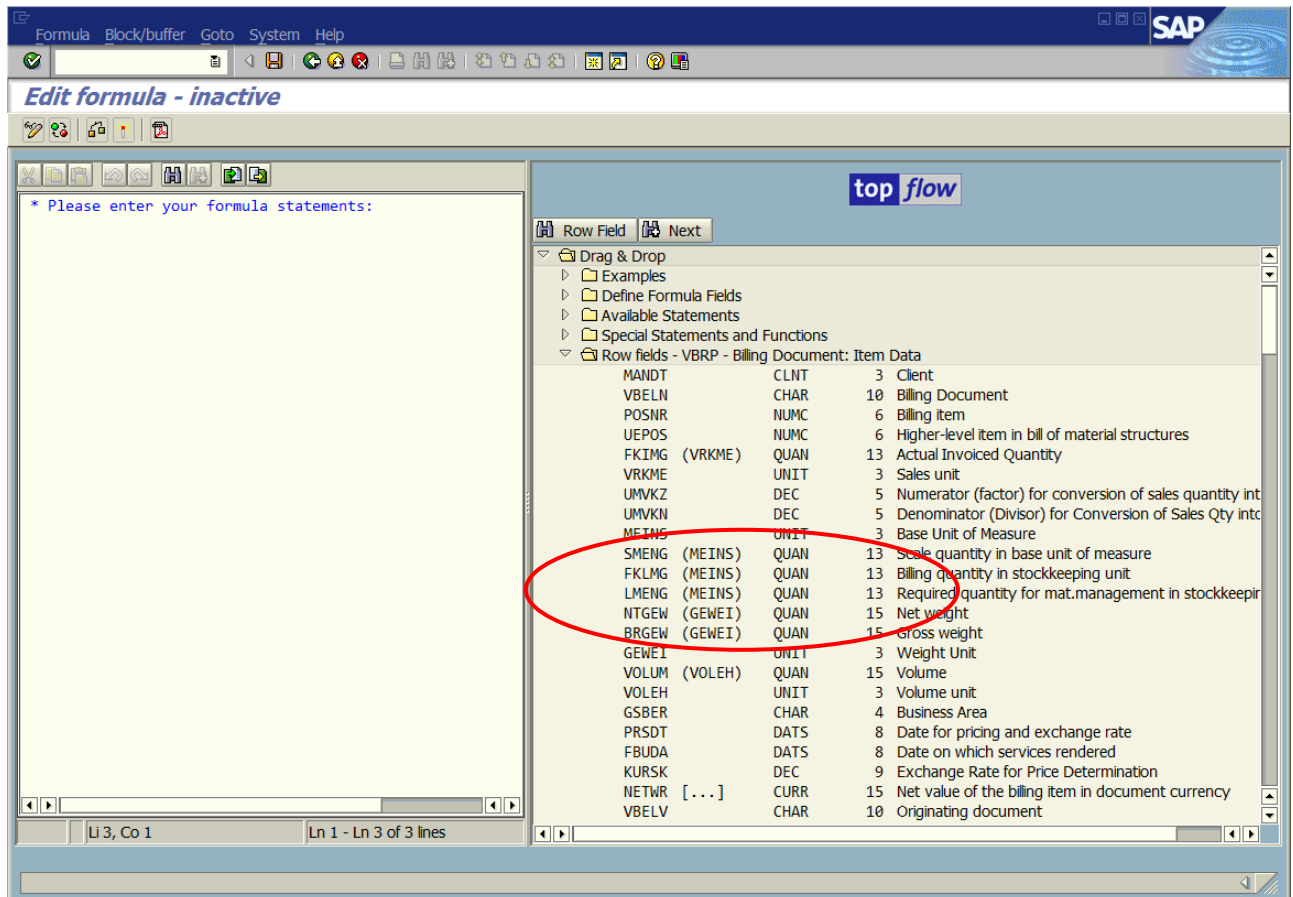


A special function is available on the **context menu** for finding the reference field:



Formula Editor

The tree at the right side of the formula editor offers a list of the row fields. This list has also been enhanced to show the reference fields:



Other Places

Having given an idea of the way the reference fields are shown, it is not necessary to make a complete list of all dialogs and situations where this information is provided.