

Costing methods in MS Dynamics NAV

(Inventory Costing-basics)

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Inventory Costing overview

Why inventory accounting?



Allocate item cost to the period in which the item is sold

Inventory Equation



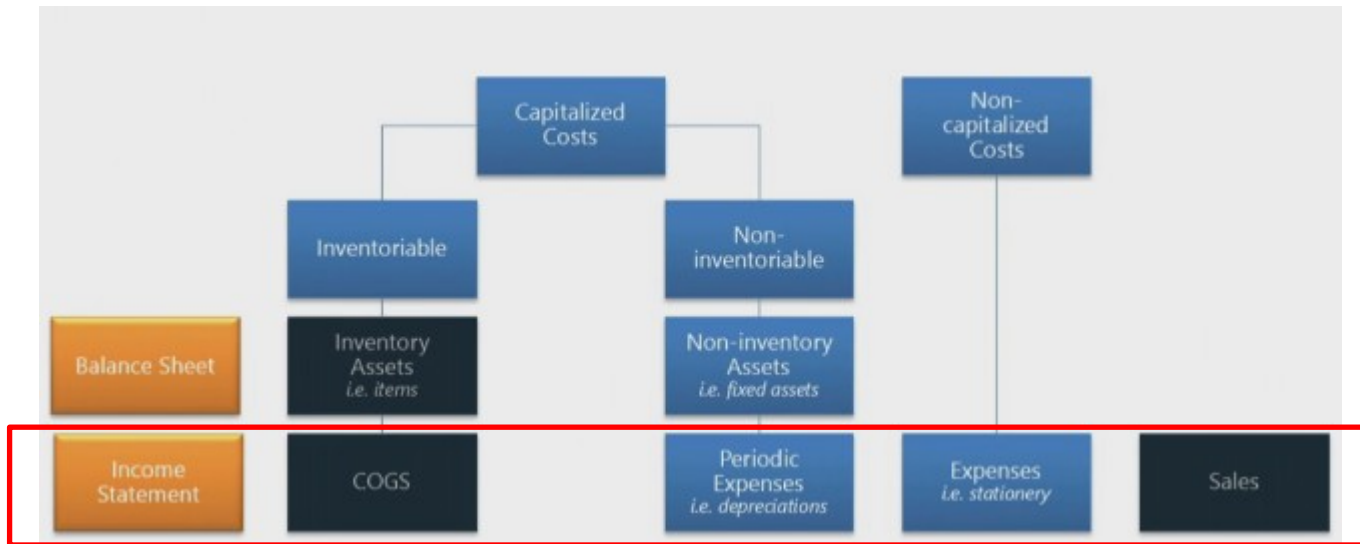
Known

Known

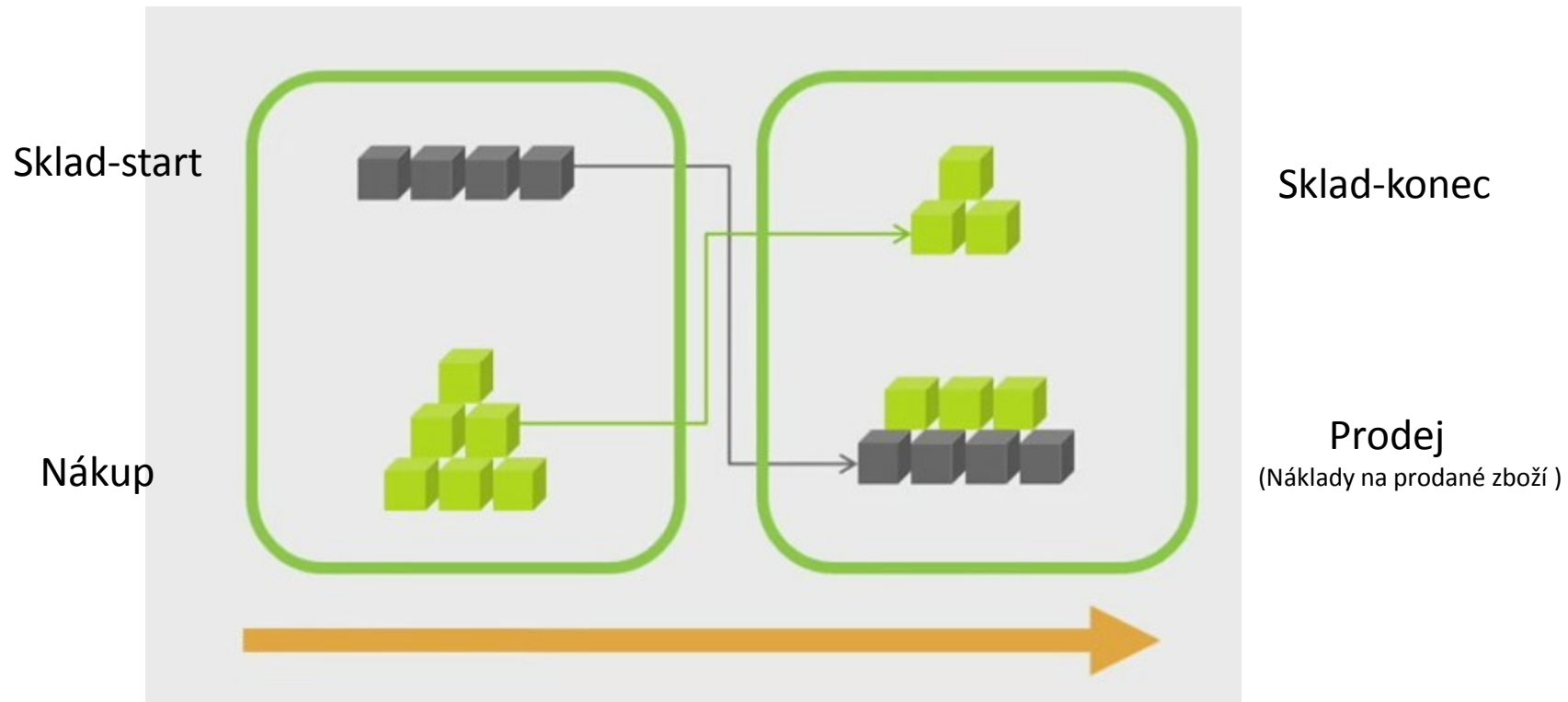
Recorded

Solved for - *vypočítáváno*

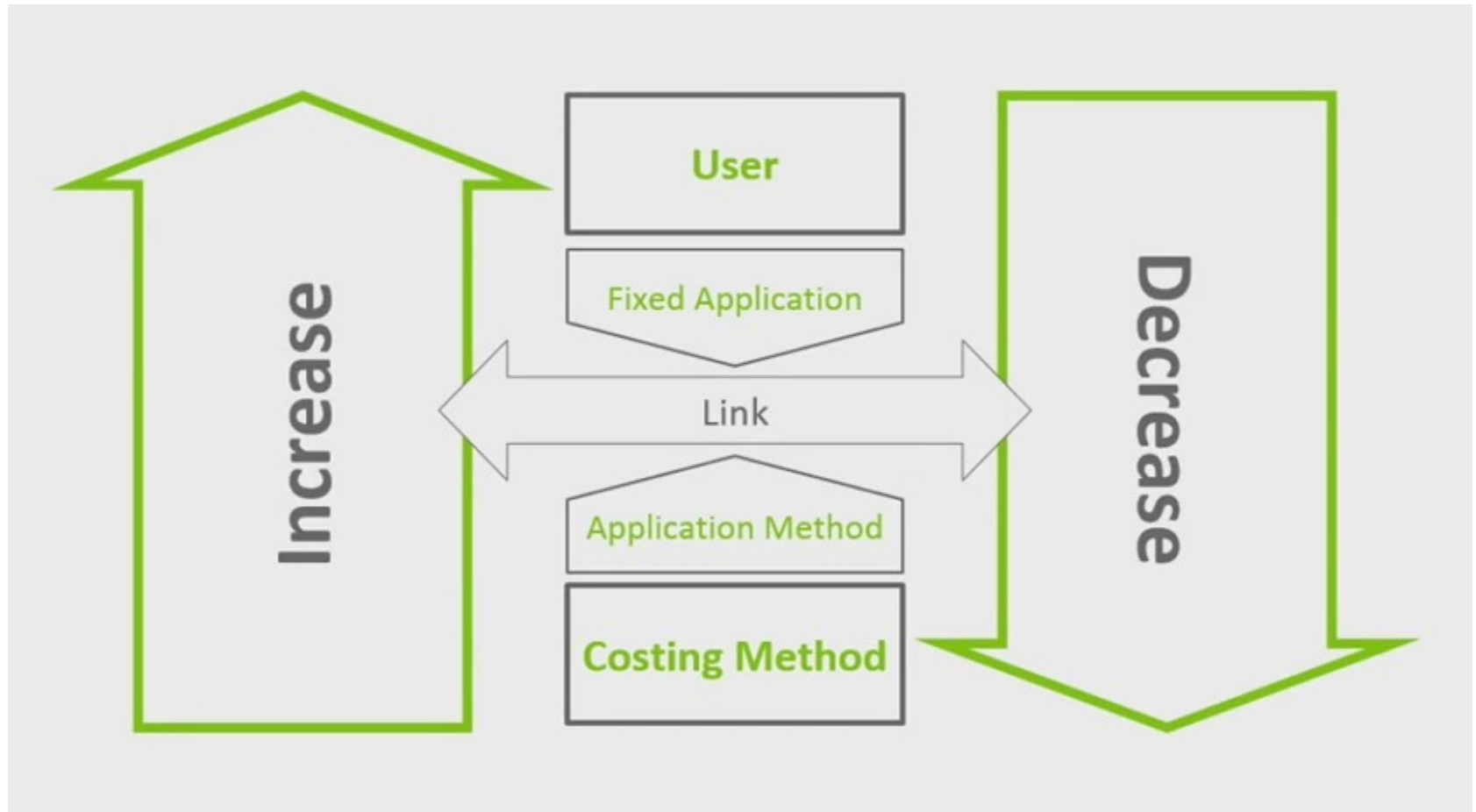
Inventory costing overview



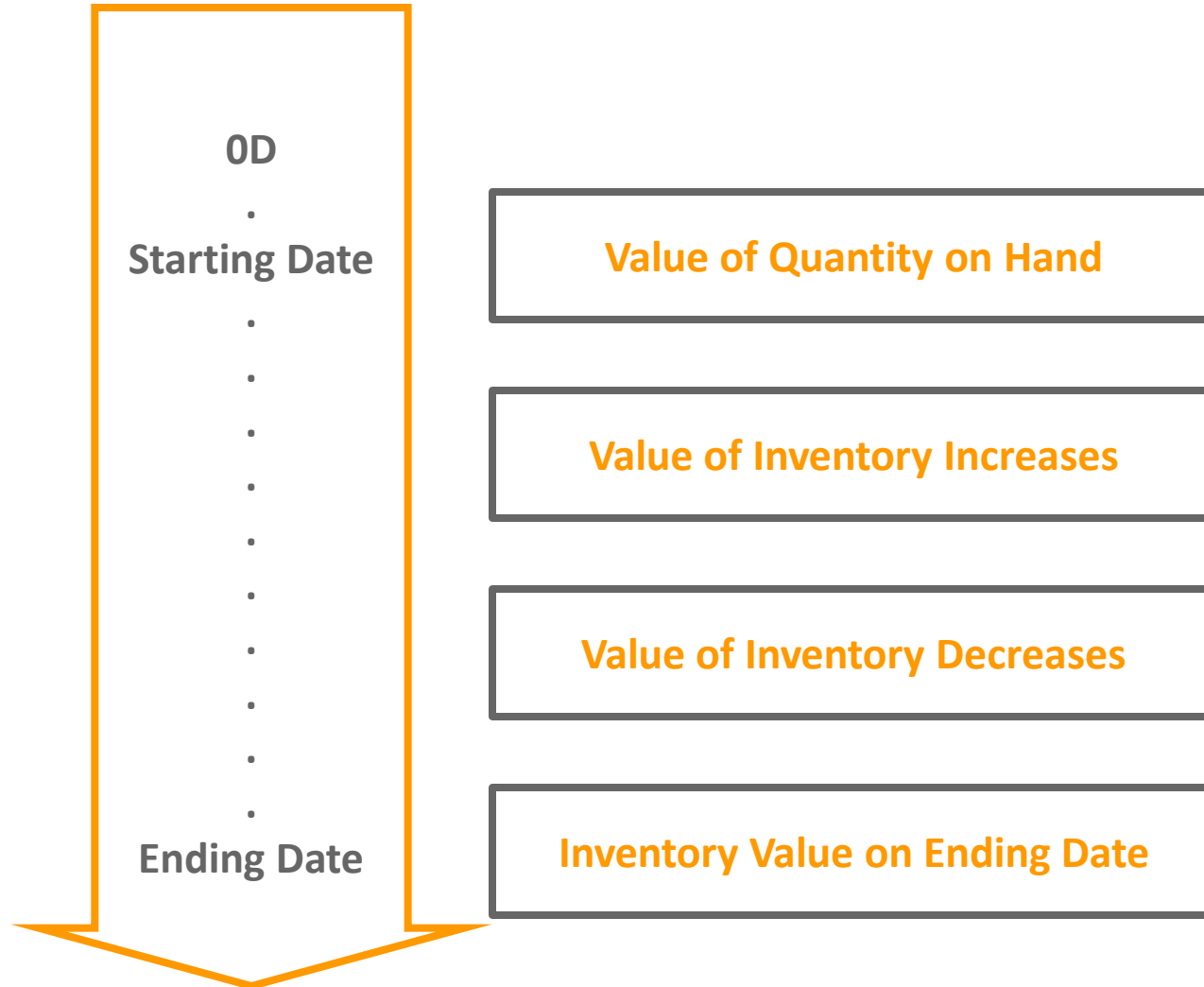
Costing methods (FIFO)



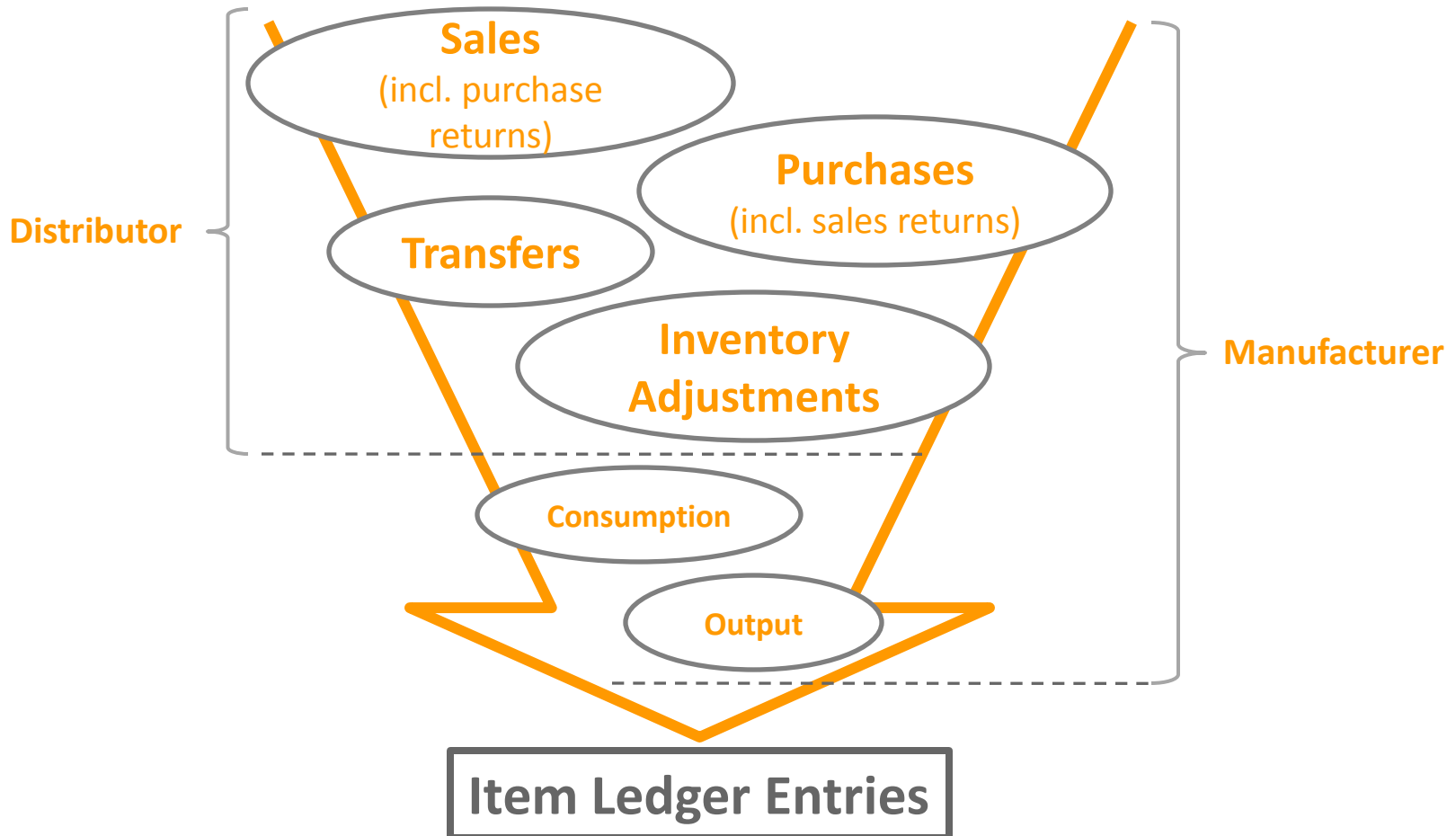
Cost flow assumption



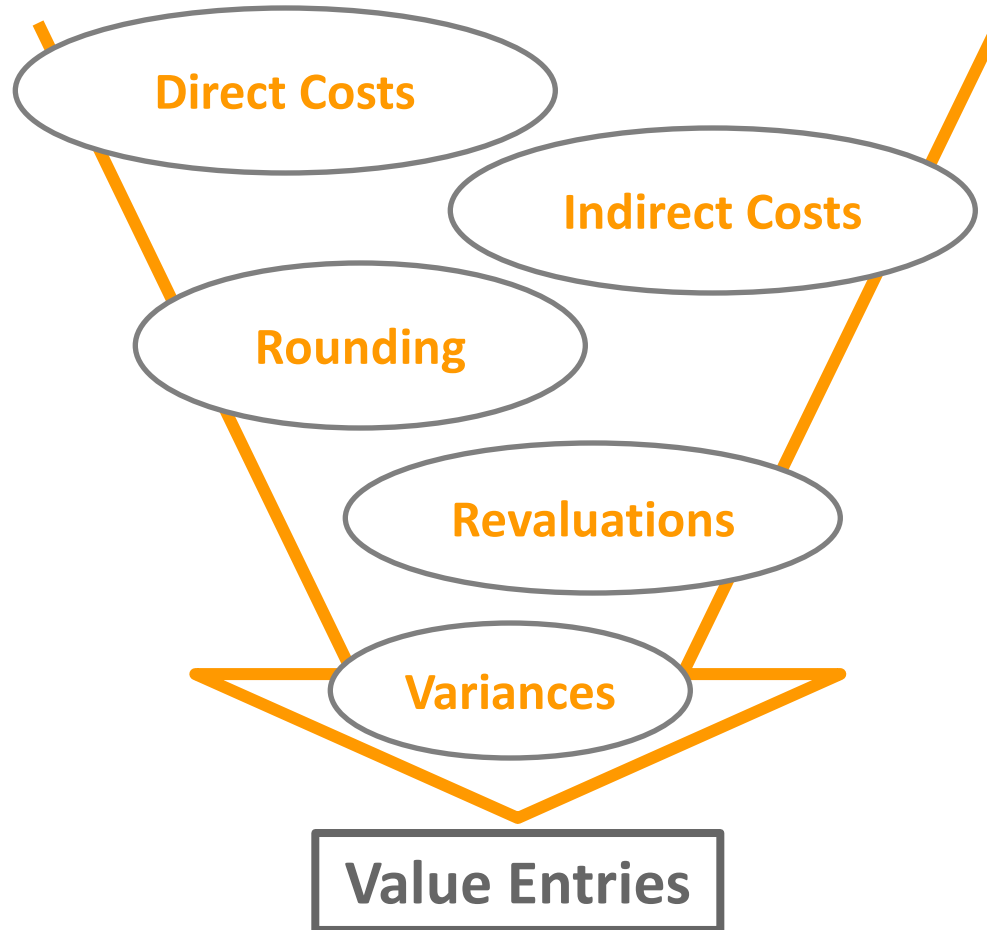
Accounting and inventory



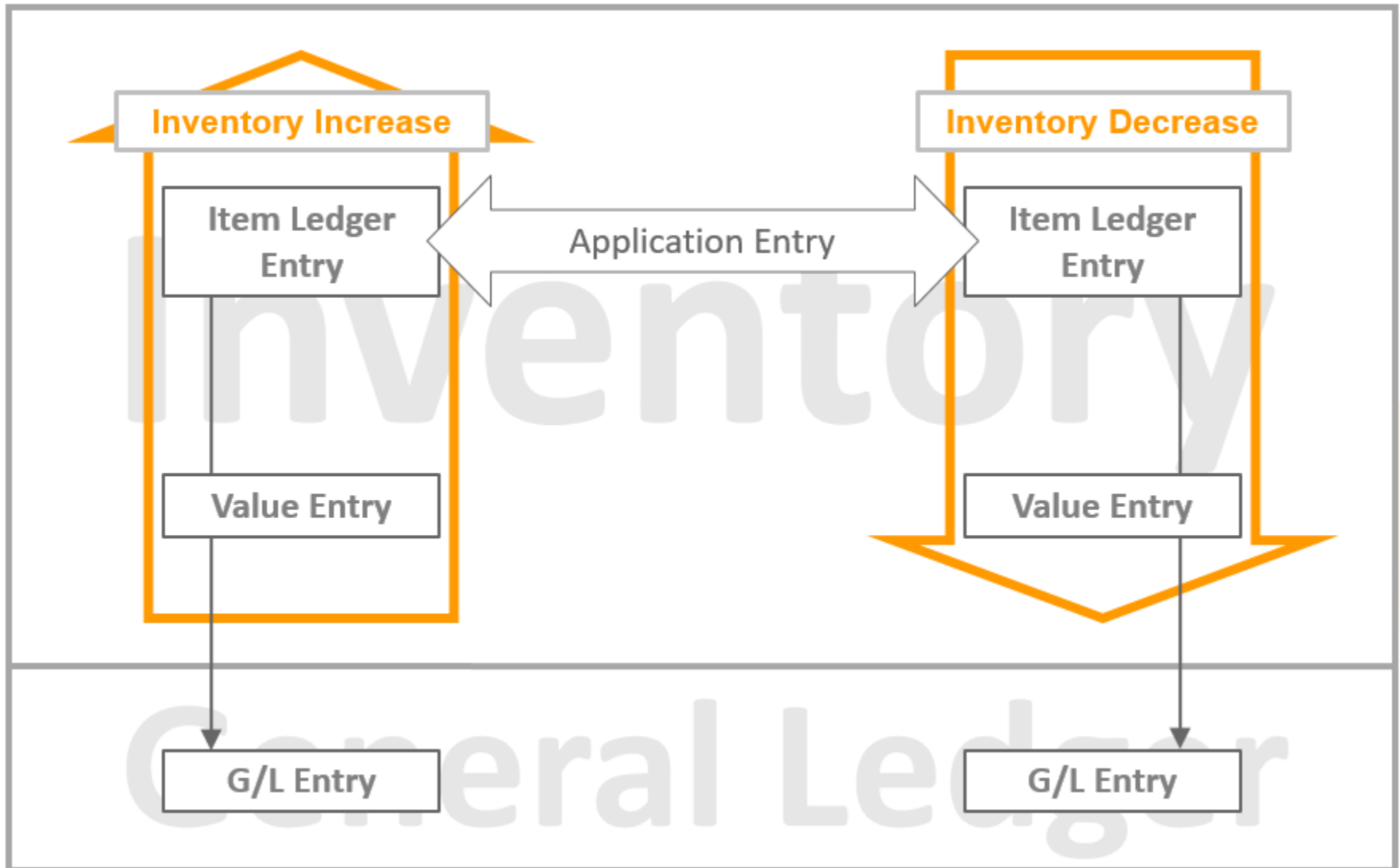
Inventory costing flow – zaúčtování množství



Inventory costing flow – zaúčtování hodnoty



Inventory posting flow



FIFO

Costing Methods

First In, First Out (FIFO)

Posting Date		Cost Amount (Actual)	Entry No.
1/1/2010		10	1
1/1/2010		20	2
1/1/2010		30	3
1/2/2010		-10	4
1/3/2010		-20	5
1/4/2010		-30	6

LIFO

Posting Date		Cost Amount (Actual)	Entry No.
1/1/2010		10	1
1/1/2010		20	2
1/1/2010		30	3
1/2/2010		-30	4
1/3/2010		-20	5
1/4/2010		-10	6

Average

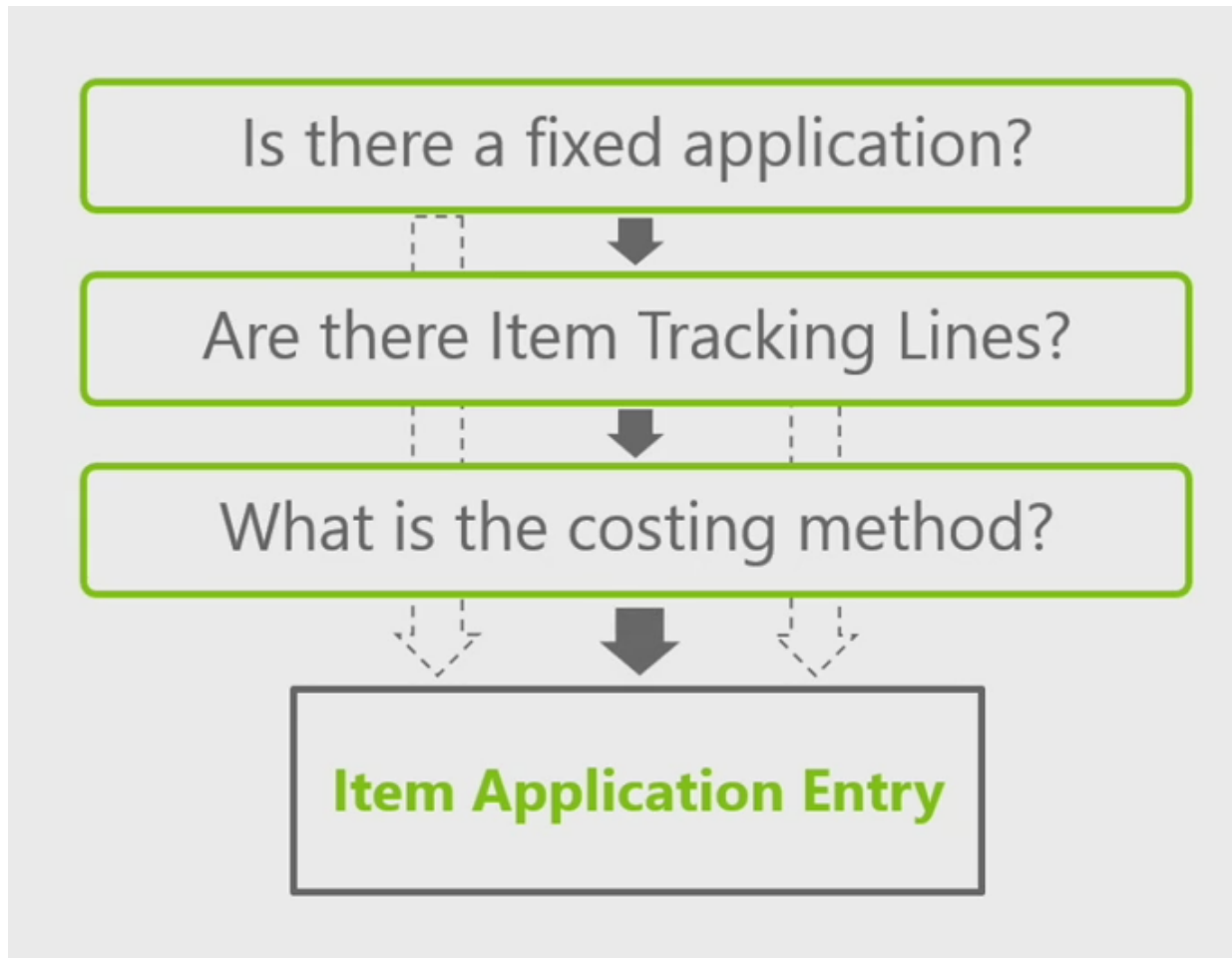
Posting Date		Cost Amount (Actual)	Entry No.
1/1/2010		10	1
1/1/2010		20	2
1/1/2010		30	3
1/2/2010		-20	4
1/3/2010		-20	5
1/4/2010		-20	6

Specific (Fixed application)


Posting Date	Cost Amount (Actual)	Entry No.	Applies-to Entry No.
1/1/2010	 10	1	
1/1/2010	 20	2	
1/1/2010	 30	3	
1/2/2010	 -20	4	2
1/3/2010	 -10	5	1
1/4/2010	 -30	6	3

Viz označování položek s pomocí šarží !!! Výběr vyrovnání je určován uživatelem.

Application algorithm - algoritmus vyrovnání



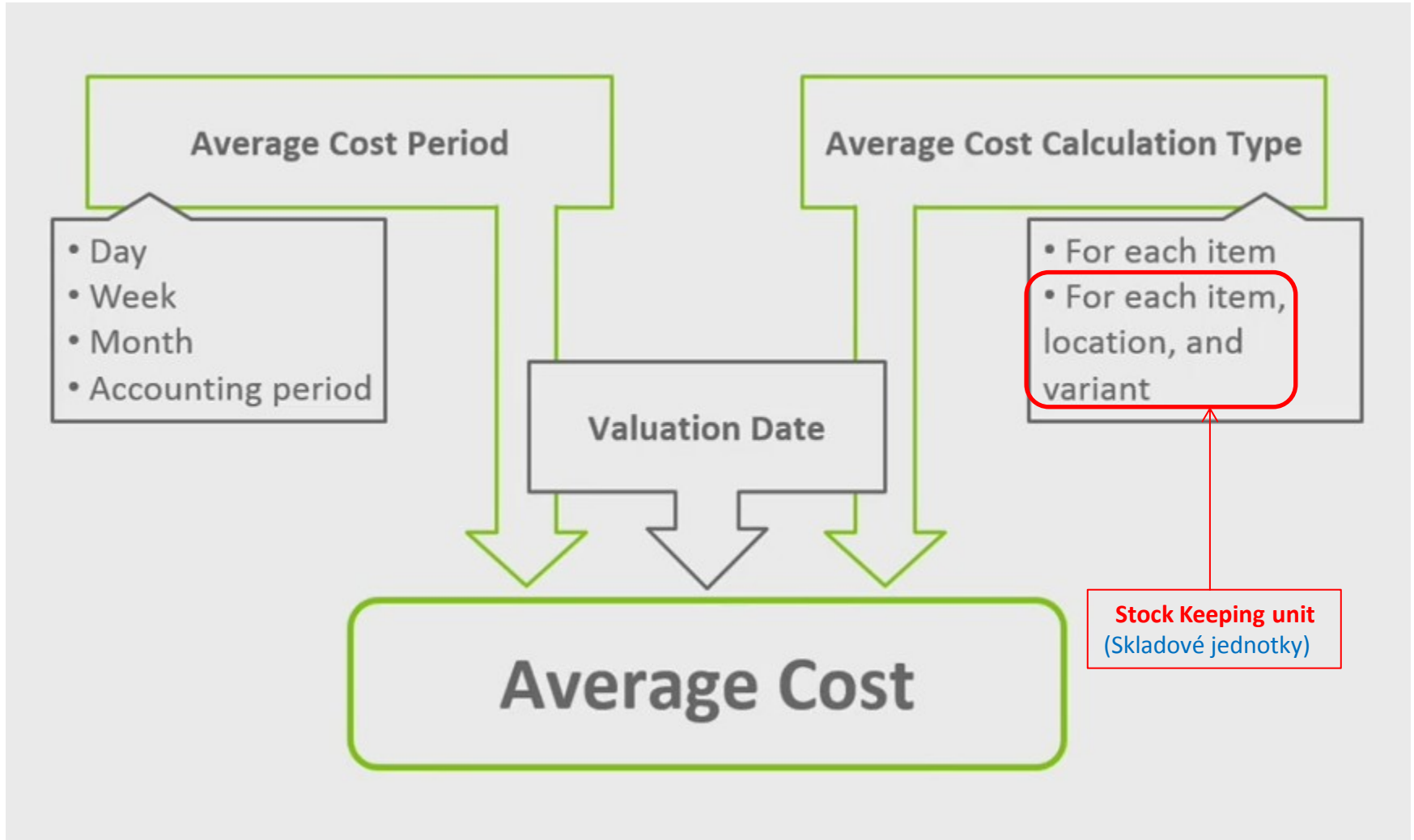
Standard – pevná cena

Posting Date		Cost Amount (Actual)	Entry No.
1/1/2010		15	1
1/1/2010		15	2
1/1/2010		15	3
1/2/2010		-15	4
1/3/2010		-15	5
1/4/2010		-15	6

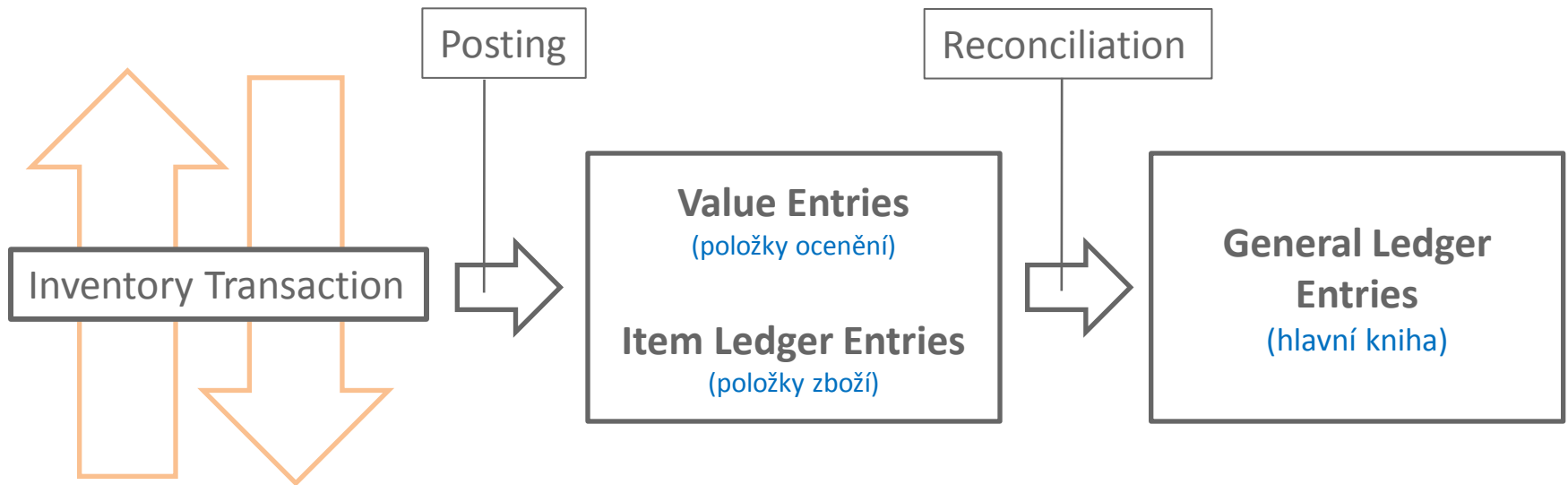
Fixed application -pevné vyrovnání

Posting Date	Cost Amount (Actual)	Entry No.	Applies-to Entry No.
1/1/2010	 10	1	
1/1/2010	 20	2	
1/1/2010	 30	3	
1/2/2010	 -20	4	2
1/3/2010	 -10	5	1
1/4/2010	 -30	6	3

Average Cost Calculation



Inventory Value determination



Average Cost calculation setup

Inventory Setup

General

Automatic Cost Posting:	<input type="checkbox"/>
Expected Cost Posting to G/L:	<input type="checkbox"/>
Automatic Cost Adjustment:	Never <input type="button" value="v"/>
Average Cost Calc. Type:	Item <input type="button" value="v"/>
Average Cost Period:	Day <input type="button" value="v"/>
Copy Comments Order to Shpt.:	<input checked="" type="checkbox"/>
Copy Comments Order to Rcpt.:	<input checked="" type="checkbox"/>
Outbound Whse. Handling Time:	<input type="text"/>
Inbound Whse. Handling Time:	<input type="text"/>

Average Calculation per day

Invoicing

Costing Method:

Cost is Adjusted:

Cost is Posted to G/L:

Standard Cost:

Unit Cost:

Overhead Rate:

Indirect Cost %:

Last Direct Cost:

Price/Profit Calculation:

Profit %:

3 times Purchase of one item
 With Costing methods=Average,
 Costs 10, 12 and 14 -> $36/3=12$

Average Cost Calc. Overview

Type to filter (F3) | Type

No filters applied

Type	Valuation Date	Item No.	Unit Cost	Cost is ...	Entry Type	Quantity	Cost Amount (Expected)	Cost Amount (Actual)
▲ Closing Entry	31.01.2017	AVRG_01	10,00	<input type="checkbox"/>		1	0,00	10,00
Increase	31.01.2017	AVRG_01	10,00	<input type="checkbox"/>	Purchase	1	0,00	10,00
▲ Closing Entry	01.02.2017	AVRG_01	11,00	<input type="checkbox"/>		2	0,00	22,00
Increase	01.02.2017	AVRG_01	12,00	<input type="checkbox"/>	Purchase	1	0,00	12,00
▲ Closing Entry	02.02.2017	AVRG_01	12,00	<input type="checkbox"/>		3	0,00	36,00
Increase	02.02.2017	AVRG_01	14,00	<input type="checkbox"/>	Purchase	1	0,00	14,00

Average Calculation per day

Average Cost Calc. Overview ▾

Type to filter (F3) | Type ▾ | → ▾

No filters applied

Type	Valuation Date	Item No.	Unit Cost	Cost is ...	Entry Type	Quantity	Cost Amount (Expected)	Cost Amount (Actual)
Closing Entry	31.01.2017	AVRG_01	0,00	<input type="checkbox"/>		0	0,00	-10,00
Increase	31.01.2017	AVRG_01	10,00	<input type="checkbox"/>	Purchase	1	0,00	10,00
Decrease	31.01.2017	AVRG_01	20,00	<input type="checkbox"/>	Sale	-1	0,00	-20,00
Closing Entry	01.02.2017	AVRG_01	2,00	<input type="checkbox"/>		1	0,00	2,00
Increase	01.02.2017	AVRG_01	12,00	<input type="checkbox"/>	Purchase	1	0,00	12,00
Closing Entry	02.02.2017	AVRG_01	8,00	<input type="checkbox"/>		2	0,00	16,00
Increase	02.02.2017	AVRG_01	14,00	<input type="checkbox"/>	Purchase	1	0,00	14,00

We have sold by use of item journal one item with cost (manually entered) 20, so Closing Entry is $36-20=16$ and Unit Cost per one item is $16/2=8$

Posting Date	Entry Type	Document Type	Document No.	Item No.	Descrip...	Location Code	Quantity	Lot No.	Invoiced Quantity	Remaining Quantity	Sales Amount (Actual)	Cost Amount (Actual)	Cost Amount (Non-Invtbl.)	Open	Order Type	Entry No.
31.01.2017	Purchase	T00002	AVRG_01	MODRÝ		1		1	0	0,00	10,00	0,00	<input type="checkbox"/>		359	
01.02.2017	Purchase	T00003	AVRG_01	MODRÝ		1		1	1	0,00	12,00	0,00	<input checked="" type="checkbox"/>		360	
02.02.2017	Purchase	T00004	AVRG_01	MODRÝ		1		1	1	0,00	14,00	0,00	<input checked="" type="checkbox"/>		361	
31.01.2017	Sale	T00005	AVRG_01	MODRÝ		-1		-1	0	0,00	-20,00	0,00	<input type="checkbox"/>		362	



After adjustment

Cost Report (Not Posted)

Value Entry: Item No.: AVR01_01

Entry No.	Item Ledger Entry Type	Document No.	Source No.	Inventory Posting Group	Posting Date	COGS	Inventory Adjustment	Direct Cost Applied	Overhead Applied	Purchase Variance	Mfg. Direct Cost Variance	Manufacturing Ovhd Variance	WIP Inventory	Inventory	Expected Cost
		AVR01_01	Average_01												
25	Purchase	T00002		PRODEJ	31.01.17			-10,00						10,00	No
28	Sale	T00005		PRODEJ	31.01.17	20,00								-20,00	No
29	Sale	T00005		PRODEJ	31.01.17	-10,00								10,00	No
26	Purchase	T00003		PRODEJ	01.02.17			-12,00						12,00	No
27	Purchase	T00004		PRODEJ	02.02.17			-14,00						14,00	No
Inventory Cost Posted to G/L						10,00		-36,00						26,00	

Values entered were 10+12+14 and finally applied value after sales was 10, so $36-10=26$ = ending inventory value

Invoicing

Costing Method: Average

Cost is Adjusted:

Cost is Posted to G/L: No

Standard Cost: 0,00

Unit Cost: 13,00

Overhead Rate: 0,00

Indirect Cost %: 0

Last Direct Cost: 14,00

Price/Profit Calculation: Profit=Price-Cost

Profit %: 0

$26/2=13$

After adjustment

Invoicing

Costing Method: Average

Cost is Adjusted:

Cost is Posted to G/L: No

Standard Cost: 0,00

Unit Cost: 13,00

Overhead Rate: 0,00

Indirect Cost %: 0

Last Direct Cost: 14,00

Price/Profit Calculation: Profit=Price-Cost

Profit %: 0

So manually entered unit cost=20 was replaced by applied item entry with cost 10

no filters applied

Type	Valuation Date	Item No.	Unit Cost	Cost is ...	Entry Type	Quantity	Cost Amount (Expected)	Cost Amount (Actual)
Closing Entry	31.01.2017	AVRG_01	0,00	<input checked="" type="checkbox"/>		0	0,00	0,00
Increase	31.01.2017	AVRG_01	10,00	<input type="checkbox"/>	Purchase	1	0,00	10,00
Decrease	31.01.2017	AVRG_01	10,00	<input type="checkbox"/>	Sale	-1	0,00	-10,00
Closing Entry	01.02.2017	AVRG_01	12,00	<input checked="" type="checkbox"/>		1	0,00	12,00
Increase	01.02.2017	AVRG_01	12,00	<input type="checkbox"/>	Purchase	1	0,00	12,00
Closing Entry	02.02.2017	AVRG_01	13,00	<input checked="" type="checkbox"/>		2	0,00	26,00
Increase	02.02.2017	AVRG_01	14,00	<input type="checkbox"/>	Purchase	1	0,00	14,00

End of section

(Costing methods)

