

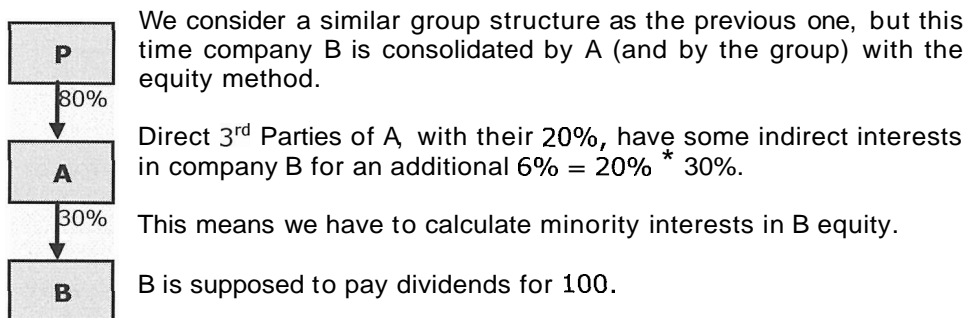
DIRECT CONSOLIDATION

When company B pays its dividends, $40 = 40\% * 100$ goes (definitely) to the bank account of the direct 3rd Parties and $60 = 60\% * 100$ goes to the bank account of company A. This company being consolidated with the global method, these 60 are integrated at 100% in the final consolidated accounts.

The conclusion is that the cash flow statement should show a payment to 3rd Parties for only 40 and not 52.

Our recommendation here should be to check how this event has been parameterized in your consolidation software. Not sure it is correctly done...

Dividends paid to indirect 3rd Parties through an equity method company



Here is its equity evolution limited to these dividends.

	Year 1	Divid.	Year 2
Equity	1,000	(100)	900
Minority interests	60	(6)	54

Again, one of the notes to the accounts requires justifying the minority interests evolution and here above is the company B contribution to this note.

But we must closely check that the amount of (6) is not imported also in the cash flow statement as well as dividends paid to 3rd Parties, which would be wrong.

Thinking cash again, company B pays a dividend of 100, 30 being transferred to the bank account of A, fully consolidated, and 70% being paid to the other shareholders of B.

The amount of 6 has no economical signification and should not appear in the cash flow statement. The amount of 30 is not cash because B is consolidated

by the equity method, but 30 will appear as cash in paid by an equity method in the consolidated accounts.

Finally, this 30 amount will be the only impact of company B in the cash flow statement.

Differences on opening reserves

The reasons of this situation and the way to adjust it have been explained in Part 2 – Chapter 8.11. But there is a little trap behind when we try to build a cash flow statement.

Here are the accounts of a company in the situation of a difference on opening reserves.

Company A	Year 1	Diff. on opening	Transfer	Net variation	Year 2
Cash	160			70	230
Reserves	80	(10)	30		100
Result	30		(30)		0
Payables	50	10		70	130

When receiving the Year 2 figures, we expect Reserves to be $110 = 80 + 30$, and we find only 100. The reason is that after reporting Year 1 figures to the consolidation office, company A had to book a purchase invoice for 10 corresponding to costs of sales.

The bundle received for Year 2 is correct, showing a difference on opening not only on the Reserves account but also on the Payables account.

Of course, we have to book a consolidation adjustment impacting this Year 2 result for a debit of 10 on Cost of

	Flow	Debit	Credit
Cost of sales		10	
Reserves	Diff. on opening		10

sales account and a credit on the Reserves account. In most consolidation software, the booking of adjustments requires to book also some flows for balance sheet accounts. In this example, we book the "Difference on opening" flow of the Reserves account.

Here is the impact of this adjustment limited to the balance sheet accounts

Company A	Year1	Diff. on opening	Transfer	Year2 result	Net variation	Year 2
Cash	160				70	230
Reserves	80	(10) 10	30			100 10
Result	30		(30)	(10)		0 (10)
Payables	50	10			70	130

and, starting from this information, we show what would be the effect in the cash flow statement.

	(1)
Result	(10)
...	
Cash flow	(10)
Variation of Receivables	
Variation of Payables	70
Working capital	70
Operating cash	60
...	
Net cash variation	60
Cash variation in balance sheet	70

A difference of 10 between the net cash variation of 60 deduced from the cash flow statement and the cash variation in balance sheet of 70.

This indicates there is an error somewhere.

Indeed, our adjustment should be completed as follows with a reclassification of flows on the Payables account.

	Flow	Debit	Credit
Cost of sales		10	
Reserves	Diff. on opening		10
Payables	Diff. on opening	10	
Payables	Net variation		10

Company A	Year 1	Diff. on opening	Transfer	Year 2 result	Net variation	Year 2
Cash	160				70	230
Reserves	80	(10) 10	30			100 10
Result	30		(30)			0 (10)
Payables	50	(10) 10 (10)			70 10	130 0

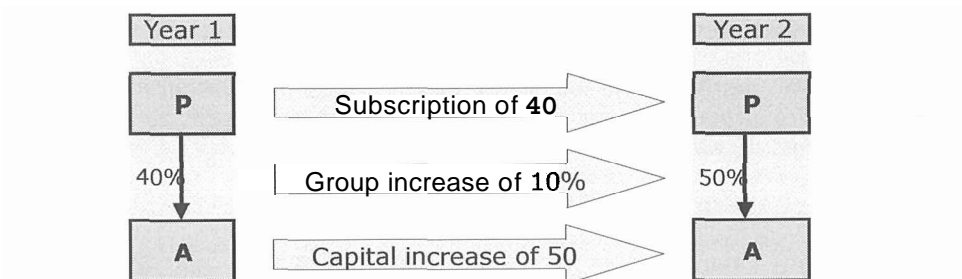
By booking like this we get the following accounts with the corresponding correct cash flow statement.

	(1)	(2)
Result	(10)	(10)
...		
Cash flow	(10)	(10)
Variation of Receivables		
Variation of Payables	70	80
Working capital	70	80
Operating cash	60	70
...		
Net cash variation	60	70

Cash variation in balance sheet	70	70
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Increase in capital depending on the consolidation methods

In Year 1, the parent company P consolidates a company A at 40% by the equity method.



On January 1st, Year 2, company A increases its capital by 50 for which P subscribes 40 and the 3rd Parties 10. By subscribing in a proportion different from the existing percentages, the participation of P is increasing by 10%. We should normally study this increase of capital based on the number of shares but for the scope of this case, it brings nothing additional.

When we look at a consolidation software, we usually find two flows impacting the cash flow statement

- The amount of capital the group subscribes, that is $40 = 100\% * 40$ which represents a cash out for P
- The amount of capital maintained in the group as being $25 = 50\% * 50$

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giving a net impact of $(15) = (40) + 25$.

This amount is either correct or not depending on the consolidation method defined for Year 2 as shown hereunder

	Global integration	Proportional integration	Equity method
Subscription	(40)	(40)	(40)
Capital increase	$50 = 100\% * 50$	$25 = 50\% * 50$	$0 = 0\% * 50$
	10	(15)	(40)

Again, we have to think cash.

For the global integration method, the bank account of A is integrated at 100% of its value in the consolidated figures and the net impact of the capital increase is the cash of 10 brought by the 3rd Parties.

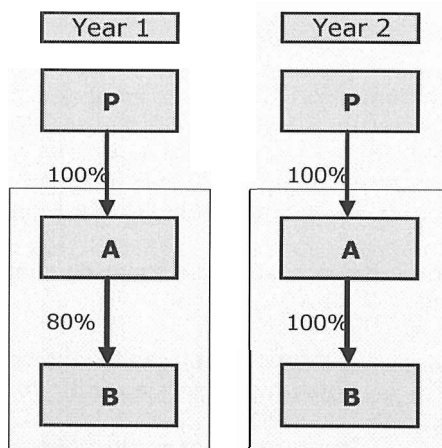
For the proportional integration method, the bank account of A is integrated at 50% of its value in the consolidated figures and the net impact of the capital increase is now (15), a negative amount. The group gives 40 but receives only 25 in return.

For the equity method, the bank account of A is not integrated in the consolidated figures and the net impact of the capital increase is zero. The group gives 40 and receives nothing in return.

Acquisition of shares through stage consolidation

Parent company P consolidates its group on the basis of the consolidated figures $A + B$ and the only transaction in Year 2 is the acquisition of the remaining 20% of shares of company B.

Supposing company P is not informed of that acquisition and supposing also that the subgroup $A + B$ does not provide a cash flow statement, then we would only see the following two changes



A + B					
Goodwill	0	10	Capital	200	200
			RC(B)	0	0
Cash	220	190	MI(B)	20	0

- A new goodwill of 10
- Minority interests disappearing from 20 to 0

Of course, with such simple accounts, one can also observe a cash variation of (30), but this would be impossible to detect for a larger group with many transactions.

Building a cash flow statement in this situation would not be possible. We definitely need a cash flow statement for the stage A+B showing the price paid for this 20% shares acquisition.

Going back to our simple example, we can say that by knowing the goodwill of 10 and the minority interests variation of (20), we could "guess" the acquisition price by subtracting one by the other $30 = 10 - (20)$.

If not convinced, then let's go back to some fundamentals

$$\text{Additional goodwill} = \text{Price} - (1 - \text{Group}\%) * \text{Equity}$$

$$\text{Minority interests variation} = -(1 - \text{Group}\%) * \text{Equity}$$

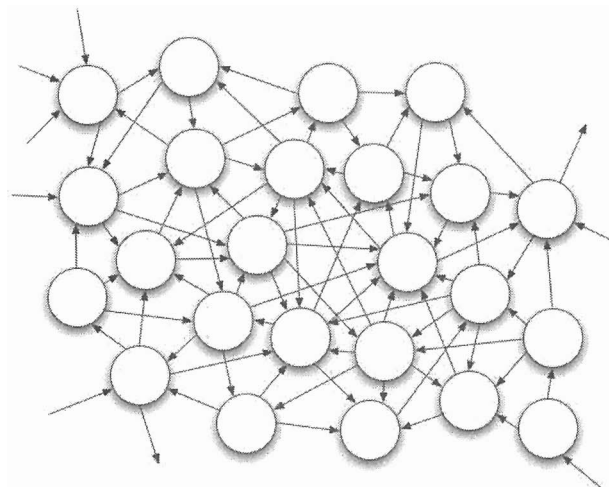
and subtracting the second from the first, we get

$$\text{Additional goodwill} - \text{Minority interests variation} = \text{Price}$$

This approach is really not recommended because it includes a high level of risk to be wrong. The only issue is to receive a cash flow statement from that stage.

BART 4

SPECIAL CONSOLIDATION TOPICS



This Part 4 analyzes situations that don't occur each year in the consolidation of a group. However, from time to time, they really happen and then they are sometimes rather difficult to solve.

Moreover, the situation is sometimes getting more complex by the fact that several events are combined together.

The situations we analyze in this Part 4 are kept separate in order to give a complete and clear solution for each one.

If more than one event happens during the same consolidation period, we recommend solving them sequentially.

For each individual situation, it is sometimes worth extracting the case from the reality of the group and transforming it into a "school-case" with easier figures, simple percentages (without decimals) and a limited number of accounts. Most of the time, solving the case within one consolidation period will not guarantee the solution. The experience shows that it is much more useful to first consolidate a situation before the particular transaction and then to consolidate just after the transaction by justifying both the Equity and the Minority interests evolutions. A cash flow statement can also be useful in some situations.

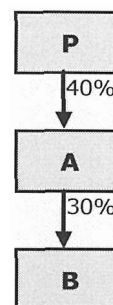
That's the methodology we will adopt for most of the cases analyzed in this Part 4.

UNUSUAL GROUP STRUCTURES

1.1 Chain of equity method companies

In this group companies A and B are consolidated by the equity method because none of them is controlled by the group.

As in the previous section, we will process the consolidation by using first the stage technique and then the direct technique in order to identify possible traps.



Staae consolidation techniaue

Here are the accounts of companies A and B, A being considered temporarily as the consolidating company.

A				B			
Fin. Inv./B	50	Capital	200			Reserves	
		Reserves	100			Result	20
		Result	30			Other liabilities	300
Other assets	550	Other liabilities	270	Other assets	500		

A + B			
		Capital	200
		Reserves	100
Equity value	60	Result	30
		Conso. Res.	10
		Minority int.	0
Other assets	550	Other liabilities	270

where

- Consolidated reserves = $10 = 30\% * [100 + 80 + 20] - 50$
- Equity value = $60 = 30\% * [100 + 80 + 20]$
- Other assets and liabilities are those of A because of the equity method applied to B

Now we consolidate A+B in P by the equity method with a percentage of 40%.

P			
Fin. Inv.A	100	Capital	500
		Reserves	300
		Result	50
Other assets	1,400	Other liabilities	650

P + [A + B]			
		Capital	500
		Reserves	300
Equity value(A+B)	136	Result	50
		Conso. Res.	36
Other assets	1,400	Other liabilities	650

where

- Consolidated reserves = $36 = 40\% * [200 + 100 + 30 + 10] - 100$
- Equity value (A+B) = $136 = 40\% * [200 + 100 + 30 + 10]$
- Other assets and liabilities are those from P only because of the equity method applied to A and B