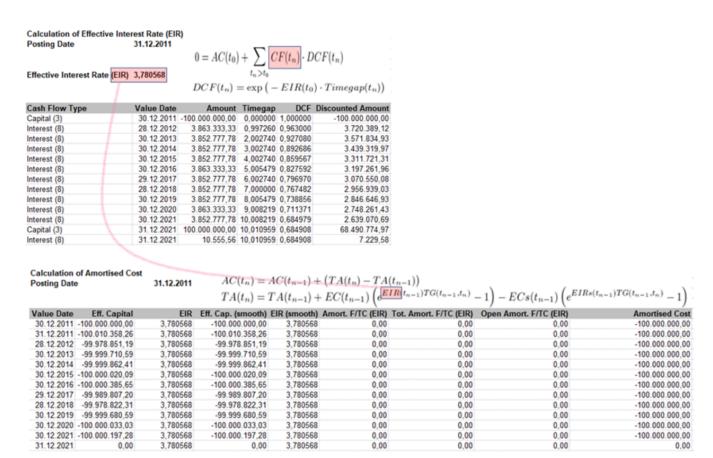
The amortised cost of a financial asset or financial liability is the amount

- at which the financial asset or financial liability is measured at initial recognition,
- · minus principal repayments,
- plus or minus the cumulative amortisation using the effective interest method of any difference between that initial amount and the maturity amount, and
- · minus any reduction (directly or through the use of an allowance account) for impairment or un-collectability.



In view of the definition of the amortised cost, the following formula is used for its calculation:

$$AC(t_0) = -CF(t_0)$$

At further payment dates, the amortised cost equals the amortised cost of the previous payment date, plus the difference of the current
cumulative total amortisation TA(t_n) and the one from the previous payment date TA(t_{n-1}), plus possible principal repayments PR(t_n):

$$AC(t_n) = AC(t_{n-1}) + (TA(t_n) - TA(t_{n-1})) + PR(t_n)$$

The cumulative total amortisation $TA(t_n)$ of payment date t_n is defined by

$$TA(t_n) = TA(t_{n-1}) + EC(t_{n-1}) * \left(exp\left(-EIR(t_{n-1}) * \Delta(t_n, t_{n-1})\right) - 1\right) - ECs(t_{n-1}) * \left(exp\left(-EIRs(t_{n-1}) * \Delta(t_n, t_{n-1})\right) - 1\right)$$

The effective capital EC(t_n) of payment date t_n is defined as the negative of the sum of all future cash flows discounted by the effective interest
rate:

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$$EC(t_n) = -\sum_{k>n} CF(t_k) * exp (-EIR * \Delta(t_k t_0))$$

In order to check the calculation of the effective capital in Excel exports of the calculation analyser, the following equivalent recursive formula for the effective capital is useful:

$$EC(t_0) = - CF(t_0), \quad EC(t_n) \, = \, EC(t_{n-1}) * exp \big(EIR * \Delta(t_n, t_{n-1}) \big) \, + \, CF(t_n)$$

- The smoothing effective interest rate EIRs is calculated exaxctly like the EIR only all cash flows of premiums/discounts/charges/transaction costs are ignored in the calculation.
- Analogously, the smoothing effective capital ECs is calculated exactly like the EC only the EIRs are used instead of the EIR.

The following annuity loan is considered:

Nominal	500.000,00
Currency	USD
Annuity Amount	12.500,00
Deal Conclusion Date	13.09.2011
Capital Begin	13.09.2011
Capital Maturity	31.12.2014

Initially, there is also a charge of 5000 USD. Hence, the first cash flows for the deal are as follows:

Value Date	Cash Flow Type	Currency	Remaining Principal	Rate	Amount
13.09.2011	Capital (3)	USD	-500.000,00		-500.000,00
13.09.2011	Charge (6)	USD			5.000,00
30.09.2011	Interest (8)	USD		4,000000	944,44
30.09.2011	Capital Decrease due to Annuity (18)	USD	-488.444,44		11.555,56
31.10.2011	Interest (8)	USD		4,000000	1.682,42
31.10.2011	Capital Decrease due to Annuity (18)	USD	-477.626,86		10.817,58
30.11.2011		USD		4,000000	1.592,09
30.11.2011	Capital Decrease due to Annuity (18)	USD	-466.718,95		10.907,91
02.01.2012	Interest (8)	USD		4,000000	1.607,59
02.01.2012	Capital Decrease due to Annuity (18)	USD	-455.826,54		10.892,41
31.01.2012	Interest (8)	USD		4,000000	1.570,07
31.01.2012	Capital Decrease due to Annuity (18)	USD	-444.896,61		10.929,93
29.02.2012	Interest (8)	USD		4,000000	1.433,56
29.02.2012	Capital Decrease due to Annuity (18)	USD	-433.830,17		11.066,44
02.04.2012	Interest (8)	USD		4,000000	1.494,30
02.04.2012	Capital Decrease due to Annuity (18)	USD	-422.824,47		11.005,70
30.04.2012	Interest (8)	USD		4,000000	1.409,41
30.04.2012	Capital Decrease due to Annuity (18)	USD	-411.733,88		11.090,59

Applying the calculation method described, the calculation of the amortised cost of the deal starts as follows:

Value Date	Eff. Capital	EIR	Eff. Cap. (smooth)	EIR (smooth)	Amort. F/TC (EIR)	Tot. Amort. F/TC (EIR))	Open Amort. F/TC (EIR)	Amortised Cost
13.09.2011	-495.000,00	4,623017	-500.000,00	4,046253	5.000,00	0,00	5.000,00	-495.000,00
30.09.2011	-483.566,98	4,623017	-488.443,17	4,046253	5.000,00	123,81	4.876,19	-483.568,25
01.10.2011	-483.628,23	4,623017	-488.497,32	4,046253	5.000,00	130,91	4.869,09	-483.575,35
31.10.2011	-472.969,38	4,623017	-477.624,61	4,046253	5.000,00	344,77	4.655,23	-472.971,63
30.11.2011	-462.269,96	4,623017	-466.715,68	4,046253	5.000,00	554,28	4.445,72	-462.273,23
02.01.2012	-451.706,16	4,623017	-455.926,18	4,046253	5.000,00	779,99	4.220,01	-451.606,53
31.01.2012	-440.868,37	4,623017	-444.894,26	4,046253	5.000,00	974,11	4.025,89	-440.870,72
29.02.2012	-429.990,69	4,623017	-433.826,82	4,046253	5.000,00	1.163,87	3.836,13	-429.994,04
02.04.2012	-419.291,69	4,623017	-422.916,78	4,046253	5.000,00	1.374,91	3.625,09	-419.199,38
30.04.2012	-408.281,32	4,623017	-411.731,54	4,046253	5.000,00	1.549,77	3.450,23	-408.283,65

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Amortised Cost

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