



Fund Accounting

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Fund Administration Leaders Program

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Agenda

- Accounting, Valuation policies
- Trade accounting
- Valuation and income accounting
- Revaluation in multi-ccy structures
- Corporate actions
- Expense accrual
- Computing the NAV





Accounting Policies:

- 1. Trades are recognised on trade date
- 2. Trade fees are capitalised / expensed:
 - a. Brokerage capitalised
 - b. Stamp expensed
 - c. STT expensed
- 3. Realized gains / losses are reckoned based on weighted average cost or on a lot basis (FIFO, LIFO et al)
- 4. Income on debt recognised from the settlement date of trade
- 5. Corporate actions recognised on respect ex-dates
- 6. Cost apportioned to asset created by a de-merger, will be based on basis provided by competent authority.





Valuation Policies - Equity:

- Listed equity valued based on closing prices of NSE / any other market

 a. If price is not available in preferred market, then price may be picked
 from alternate markets
 - b. Source of the price will be Stock exchange data or Bloomberg
- In case, based on trading volumes / values in past 'n' days, a listed security is deemed to be 'Thinly Traded' then valuation will be based on Fair value provided by a competent authority
- 3. Rights Valued on price from preferred market. If price is not available then it may be computed as the price of the underlying share minus the amount to be paid to exercise the right.
- 4. Demerged shares which are unlisted valued based on Fair value.





Valuation Policies - Debt:

- 1. Investment grade paper is fairly straightforward and obtained directly from the agency per valuation policy.
- 2. Non Investment grade generally use price provided by the agency. If no price is available we will have to use the hair-cut prescribed for the paper.
- 3. In case of paper which is new in the market and the agency has not yet commenced providing prices, the weighted average trade price is used for valuation. In case of discounted instruments we typically use the yield and arrive at the price on the T+1 day and use this as the valuation price
- 4. Tail 'n' days to be valued on amortisation basis

As a good practice, it may be prudent to manually compute the price / yield based on the paper's cash flows and compare the same with that provided by the agency.





Valuation Policies - Derivatives:

- 1. Exchange traded derivatives are valued based on prices obtained from the relevant markets
- 2. OTC derivatives. For some of them prices to value are obtained from agencies. E.g:- IRS valuation prices are obtained from rating agencies in India.
- 3. OTC derivatives where prices are not provided, are valued based on established methodologies (Shiva will take us through this, for some common OTC derivatives).
- 4. When valuation / MTM is manually computed, the same will have to be reconciled with Counterparty / Custodian





Trade Accounting:

- 1. Acquisition and disposal of assets will follow the relevant policies.
- 2. On trade date, cost of investment will include the price and all capitalised trade fees.
- 3. In the case of debt, broken coupon will be computed till the settlement date and establish the settlement date to be the start date for income recognition. Conversely, in the case of sales, income will continue to accrue till the settlement date.
- 4. In the case of primary market, asset will be held under a pending allotment account till the allotment date. This is applicable for subscription / redemption of Mutual fund units where the price (NAV) of the units is known on a prospective basis.
- 5. Cost of acquisition of derivatives, irrespective of long or short, will be booked based on the price paid to obtain the same. Realised IR/Id will ministration occur on square off / expiry





Income Accounting:

- 1) Accrual of income on Fixed income securities
 - a) Day count, holiday conventions
 - b) Leap year considerations
 - i) Only if you cross 29th February
 - ii) Sometimes ignore 366 Coupon specific denominator
 - iii) Sometimes the full year is considered as 366 denominator
 - c) Compounding complications
 - i) Including margin or excluding margin
 - ii) No compounding on holidays week-end or bank holiday dependence on calendar
- 2) Amortising the Discount in case of discounted securities (like TBILLS, CP, Deep discount bonds etc)





Revaluation of ccy positions:

- 1) Market value of foreign ccy securities translated to values in principal / fund currency.
 - a) Unrealised gain/loss to include impact of market price movement as well as changes in exchange rate
 - b) Ability to segregate impact of price movement from that of exchange rate movement.
- 2) Revaluation of payables / receivables, foreign currency bank balances. In addition any GL account which needs to be revalued.





Corporate Actions:

- 1) All corporate actions are impacted on the relevant ex-dates
- 2) When multiple corporate actions for the same asset occur on the same date, we need to take care of sequencing them properly
- Corporate actions where the investor can elect, need to be managed appropriately

 a) Company dividends where choice is provided for obtaining in cash or kind
 - b) Dividends where investor is provided a choice of currency
- 4) In cases where gain/loss is tracked on a lot basis, bonus, splits and such corporate actions to appropriately create new lots with appropriate acquisition dates, based on existing lots.
- 5) Demerger and other such actions which require cost / value apportionment to be managed upon receipt of all relevant information.





Capital and Distribution:

- 1) Commitment as agreed by investors
- 2) Drawdowns against the commitment
- 3) Distribution of proceeds based on various allocation methods
- 4) Distributions may also need to follow a waterfall based on the agreement
- 5) The fee structures may be different for each class. These will include management fees, performance fees based on HWM and hurdle rates
- 6) Performance may be at class level with different hurdle rates.

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NAV = (Assets – Liabilities)/Total number of outstanding units

- 1. The NAV is perhaps the most important and critical factor. This is generated through a combination of valuation and accounting
- 2. NAV is the result of assembling all the valuation and account data
- 3. Fund level NAV is arrived as Assets at Market Value less Liabilities
- 4. Class level NAV is arrived as Capital plus Net income (including unrealised gain/loss)
- 5. Allocation of income movement to the classes is based on the NAV ratio.





Assembling the NAV Statement

Account Type Des	escription	Amount	% of NAV	Account Type	Description	Class A	Class B	Total
Investments Equ	uity Shares	6,374.42	0.05	Capital	Unit holders Capital	1,19,99,950.00	1,50,000.00	1,21,49,950.00
Investments Gov	overnment Securities	59,32,353.66	49.17	Income	Income - Interest	3,197.67	39.96	3,237.63
Investments Opt	otions	8,282.70	0.07	Income	Income - Profit on Sale of Investments	34,601.56	432.51	35,034.07
Тс	Total Investments	59,47,010.78	49.29	Income	Income - Gain/Loss on Derivatives	-97,971.13	-1,224.56	-99,195.69
Other Assets Cur	urrent Bank Account	60,24,433.36	49.93	Income	Income - Dividend	76.12	0.95	77.07
Other Assets Re	eceivable - Interest	16,094.72	0.13	Income	Income - Gain/Loss on Forex	-7,661.27	-95.76	-7,757.03
Other Assets Re	eceivable - Trade Settlement	84,828.85	0.70	Income	Income - Variable Margin	-792.29	-9.90	-802.19
Other Assets Re	eceivable - Variable Margin	77.07	0.00	Income	Income - Others	6,470.21	-15.45	6,454.76
Other Assets Re	eceivable - Others	1,485.70	0.01		Total Income	-62,079.13	-872.25	-62,951.38
Т	Total Other Assets	61,26,919.70	50.78	Expense	Expense - Brokerage Fee	-570.67	-7.14	-577.81
Liability Par	ayable - Trade Settlement	-933.00	-0.01	Expense	Expense - Loss on Sale of Investments	-16,207.80	-202.59	-16,410.39
Liability Pa	ayable - Management Fee	-2,630.08	-0.02	Expense	Expense - Management Fee	-2,630.08	-	-2,630.08
Liability Par	ayable - Audit Fee	-781.92	-0.01	Expense	Expense - Audit Fee	-772.23	-9.69	-781.92
Liability Par	ayable - STT	-0.10	-0.00	Expense	Expense - STT Fee	-0.10	-	-0.10
Liability Par	ayable - Others	-3,692.61	-0.03	Expense	Expense - Others	-669.07	-36.48	-705.55
Т	Total Liability	-8,037.71	-0.07		Total Expense	-20,849.95	-255.90	-21,105.85
	Total Net Asset Value	1,20,65,892.77	100.00		Total Net Asset Value	1,19,17,020.92	1,48,871.85	1,20,65,892.77
	Units Outstanding	1,21,49,950			Units Outstanding	1,19,99,950	1,50,000	1,21,49,950
	NAV Per Unit	0.9931			NAV Per Unit	0.9931	0.9925	0.9931





NAV Checks

- Previous days NAV with capital movement, movement in income/expense including unrealized gains/losses
- Unnatural movement
- Nav per unit movement





At a glance

Masters	Fees / Setup	Trades	Income Accrual	Expense Accrual	EOD Activities	Reports
Security	Trade Fees - Brokerage, STT	Buy / Sell Trades	Interest	Trade - Brokerage	Income Accrual	Trial Balance
Broker	Trade Fee Capitalisation	Trade Settlement	Discount Income	Trade - STT	Corporation Action	Holding Statement
Counterparty	NAV Fee Setup - Man Fee, Audit Fee	Div, Int, Red Settlement	Int on Deposits	NAV - Man Fee	Valuation	NAV Report
Custodian	Amortisation of Charges	Adjustment Vouchers (if any)	Int on Repo	NAV - Audit Fee	NAV Fees Accrual	General Leder
Fund Setup	Valuation Parameters		Int on IRS	NAV - Performance Fee	Generate NAV	Purchase / Sale
Class Setup			Int on Sec Borr Lend		Publish NAV to Stakehol	Capital Movement
			Unreaslied Gain/Loss Accounting			
		Uploads	Variable Margin			Custodian Reconciliation
		Market Prices - Exchanges	Forex Revaluation			
		Forex Rate				Statutory Reports
		Custodian Holding Upload				Client Reports





Thank You