



How to load/modify market data associated with a trade?

- In finance, market data is associated with investment instruments or trades.
- After creating a new trade or loading an existing trade, click the Market
 Data tab that is beside the Trade Detail tab. Then the user can either click
 the New button to input new market data or the Load button to extract
 the existing market data.
- If the user chooses to input new market data by specifying the Valuation Date and then clicking the New button, the system knows what kind of market data needed for this trade and thus generates market data templates displayed in the main window.



- After filling the market data and then clicking the Save button, an OK windows pops up if all data are in correct formats and value types. That means the new market data are saved into the system and ready to use.
- Please note that FinPricing provides some market data to users. However, a user feels free to modify or provide their own market data. Those new or modified market data will be private to the user.

Trade Data BackOffice BatchRisk Account Tools														
☐ Product ☐ Interest Rate Product ☐ Fixed Income Product ☐ Grand Callable Bond ☐ Money Market Product	Trade	Pricing Detail Market	Data Results	Cash Flows				Valuati	on Date 6/	26/2018				
EquityProduct		Column0	Column 1	Column2	Column3	Column4		Column5	Column6	Column7	Column8	Column9	Column 1	0
⊕ Foreign Exchange Product	•	USD_3M	Base Curve							MarketQuote	6/26/2018			
		Currency	Valuation Date	CurveName	QuoteName	Instrument Type		Term	Value	Name	Value	Туре	Currency	rs.
		Currency	Valuation Date	CurveName	QuoteName	Instrument T	ype	Term	Value	Name	Value	Type	Cultericy	
		Currency USD	ValuationDate 6/26/2018	CurveName USD_3M	QuoteName	Instrument T Future	ype ~	Term	Value 0	912828XN8	100	Bond	USD	-
			17		QuoteName		-	Term	No.				1	-
		USD	6/26/2018	USD_3M	QuoteName	Future	~	Tem	0				1	
		USD USD	6/26/2018 6/26/2018	USD_3M USD_3M	QuoteName	Future Future	\ \ \	Tem	0				1	
		USD USD USD	6/26/2018 6/26/2018 6/26/2018	USD_3M USD_3M USD_3M	QuoteName	Future Future	> >	Tem	0 0 0				1	

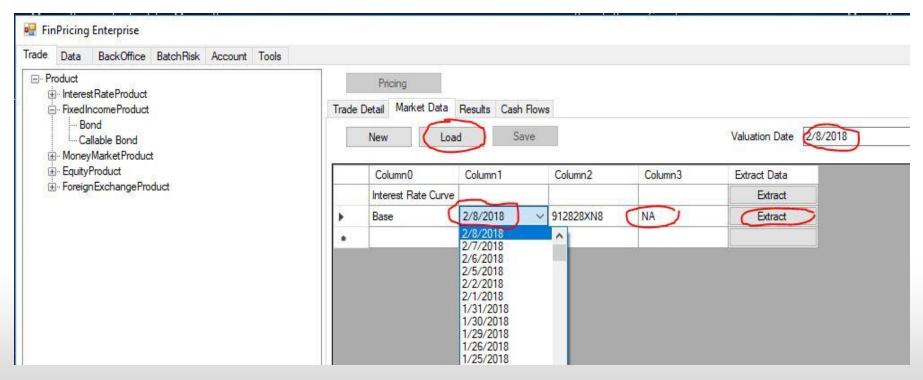


How to load/modify market data associated with a trade? (Cont'd)

- If user chooses to load existing market data by inputting a Valuation Date (say, 2/8/2018) and then clicking the Load button, a selection form appears in the main window. The user can select a date from pull-down menus. If all available dates are not what he wants, just select NA (not available). Then click the Extract button at the right of the row.
- Note: the valuation date and the market data date are allowed to be different as sometimes a user conducts what-if analysis at a start-of-day (SOD), when the new market data are still not available. In that case, the user can use yesterday's data.



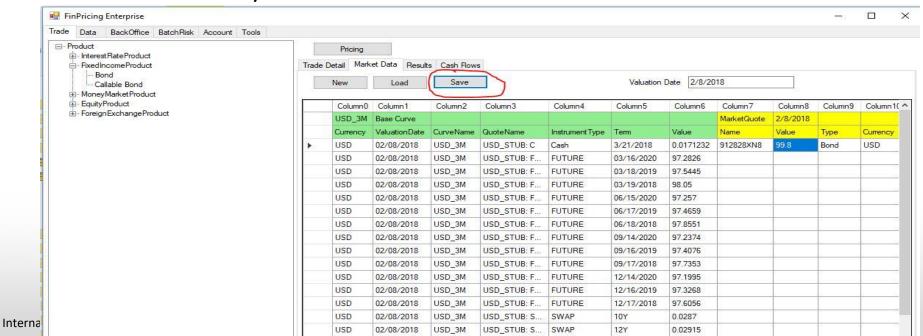
How to load/modify market data associated with a trade? (Cont'd)





How to load/modify market data associated with a trade? (Cont'd)

 The market data on 2/8/2018 are loaded in the main window. Again the user can modify and save the market data.





 After either new market data saved or existing market data loaded, the user can click the Pricing button. The calculation results will be presented in the Results tab.

ade Data BackOffice BatchRisk Account Tools					
□ Product		Pricing			
Interest Rate Product Fixed Income P		Detail Market D	ata Results Cash Flows		
Bond	T T	Column 1	Column2	Column3	
I Callable Bond III- Money Market Product III- Equity Product III- Foreign Exchange Product		FiBond	usp		
		Category	Name	Value	
		General	Tradeld	T00000012004000044	
		General	ValuatonDate	2/8/2018 12:00:00 AM	
		General	Position	100	
		General	мтм	99.8	
		General	Cash	0	
		Delta	DISCOUNT_USD_3M: FUTURE Mar-16-20	-0.507607393842591	
		Delta	DISCOUNT_USD_3M: FUTURE Mar-18-19	-0.824002890311704	
		Delta	DISCOUNT_USD_3M: FUTURE Mar-19-18	-2.0221071928006	
		Delta	DISCOUNT_USD_3M: FUTURE Jun-15-20	-0.402540210018287	
		Delta	DISCOUNT_USD_3M: FUTURE Jun-17-19	-0.723324341436182	
		Delta	DISCOUNT_USD_3M: FUTURE Jun-18-18	-0.880363156454678	
		Delta	DISCOUNT_USD_3M: FUTURE Sep-14-20	-0.358875429640193	
		Delta	DISCOUNT_USD_3M: FUTURE Sep-16-19	-0.66191692823736	
		Delta	DISCOUNT_USD_3M: FUTURE Sep-17-18	-0.973918367179749	
		Delta	DISCOUNT_USD_3M: FUTURE Dec-14-20	-0.554072478138323	
		Delta	DISCOUNT_USD_3M: FUTURE Dec-16-19	-0.556610567059579	
		Delta	DISCOUNT_USD_3M: FUTURE Dec-17-18	-0.880900905713133	
		Delta	DISCOUNT_USD_3M: SWAP 4Y	-3.35298615325996	
		Delta	DISCOUNT_USD_3M: SWAP 5Y	-5.27826492415784	
		Delta	DISCOUNT_USD_3M: SWAP 6Y	-6.2823154173941	
		Delta	DISCOUNT_USD_3M: SWAP 7Y	-335.593784579942	

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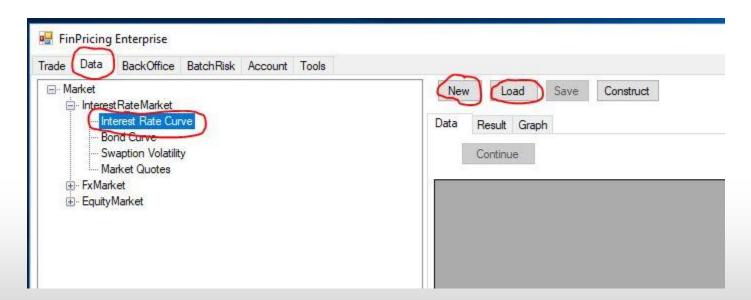


- Sometimes, bond prices are available (quoted) in the market. If the bond price is provided, FinPricing will match the model price to the market price by calibrating a credit spread that reflects credit risk and liquidity risk.
- If the market bond price is not given, FinPricing will compute the model price only based on the discount and/or forecast curves provided.
- FinPricing calculates sensitivities or Greeks based on market observable and liquid instruments, such as LIBOR rates, Eurodollar futures, and swap rates. This is the best market practice and convention as hedge and risk analysis are based on market observables. Most trading systems in the market compute Greeks relying on zero-rates, which is an easy way for convenience.
- To compute Greeks on market instruments, system/model needs to shock each instrument and then reconstruct curve one by one. The calculation is much more complex and time-consuming. But trickery cannot be used to gain advantage.



How to load/modify market data manually?

- Click the Data tab at the top-left corner of the application. Then, expend Market ->
 particular market (e.g., Interest Rate Market) and select a market data set (e.g.,
 Interest Rate Curve).
- After that, you can either click the Load button to load an existing market data set for review/modification or the New button to generate new market data.



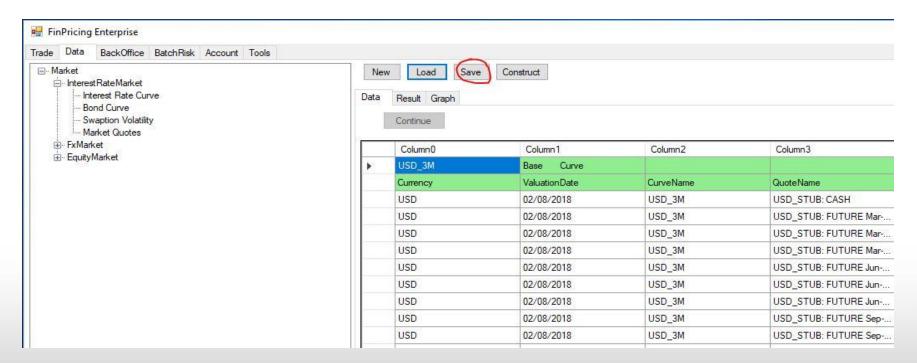


If you click the Load button, a selection window pops up. Expend Data ->
 InterestRateCurve -> Currency (e.g., USD) and select a curve (e.g., USD_3M). The list of the available market dates of USD_3M is displayed in the main windows

🖳 Selection - FinPricing Enterprise	
	New Load Delete
⊟- Data	ValuationDate
interest RateCurve	06/26/2018
i⊕- AUD i⊕- CAD	02/08/2018
E-CHF	
E-CNH	02/07/2018
⊞ · CNY	02/06/2018
± · DKK	02/05/2018
⊕ EUR ⊕ GBP	02/02/2018
⊕ GBF	02/01/2018
⊕- JPY	01/31/2018
⊞- MXN ⊞- NOK	01/30/2018
⊕- NOK ⊕- NZD	01/29/2018
. SEK	01/26/2018
⊕- SGD ⊟- USD	01/25/2018
USD_12M_BASIS	01/24/2018
USD 1M_BASIS	01/23/2018
USD_3M_ USD_6M_BASIS	01/22/2018
USD_FEDFN_BASIS	01/19/2018
USD_OIS USD_PRIME_BASIS	01/18/2018
USD_SIFMA_BASIS	01/17/2018



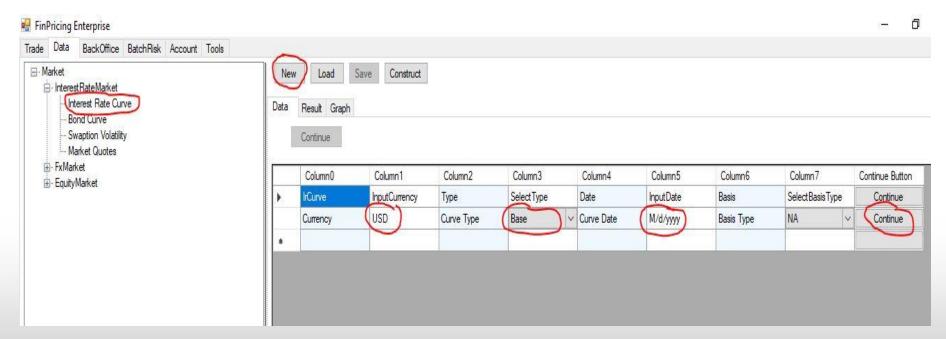
 Select a date and then click the Load button. The market data of that valuation date are displayed in the main windows. You can modify the data and click the Save button to save all the changes.





How to load/modify market data manually? (Cont'd)

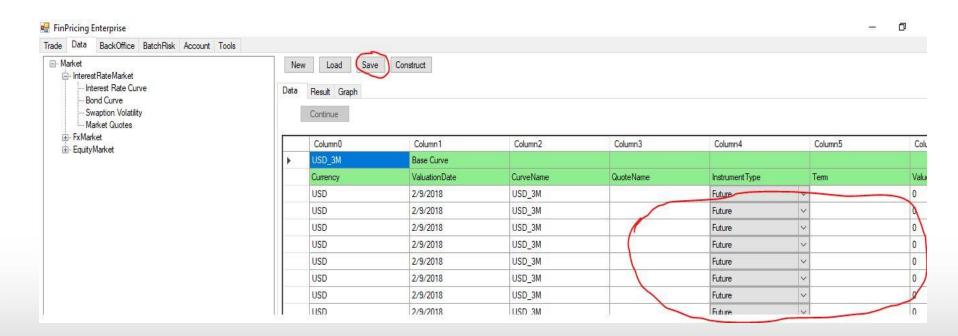
- Or if you click the New button, a selection template form is displayed in the main windows.
- Input Currency and Curve Data, and select Curve Type and Basis Type (if applicable).
 Then click Continue button at the end of each row.





How to load/modify market data manually? (Cont'd)

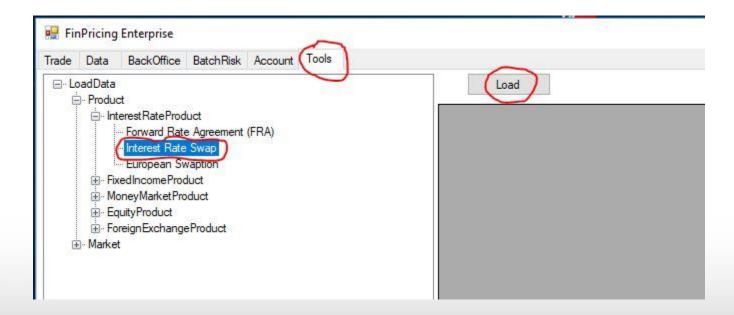
 A new market data template is shown in the main window. Fill all fields and click the Save button. The new market data are generated.





How to local bulk market data?

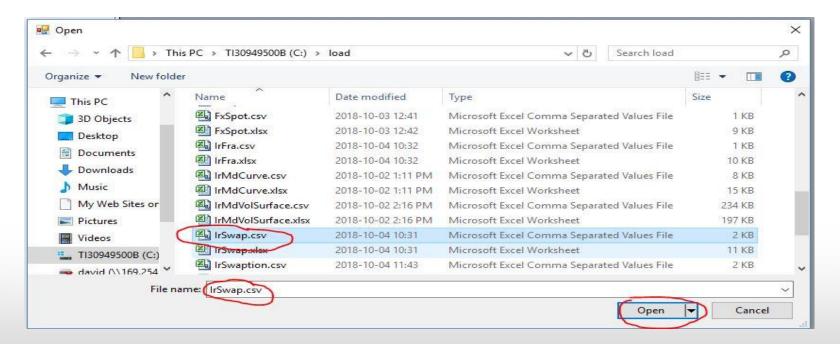
Click the Tool tab at the top-left corner of the application. Next, expend Product ->
InterestRateProduct (for example). Then, select the Interest Rate Swap.





How to local bulk market data? (Cont'd)

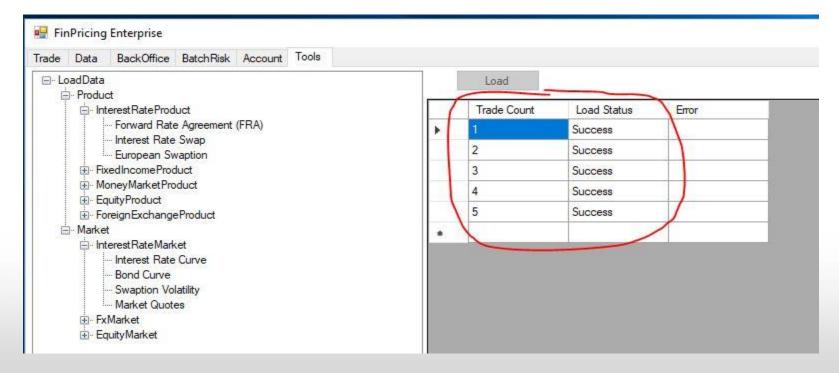
- Next, click the Load button. A window pops up allowing users to browse the local folders and select files.
- After selecting a bulk trade file that is in csv format, click the Open button.





How to local bulk market data? (Cont'd)

 FinPricing starts to load all the trades defined in the file. Finally a summary table is displayed in the main window telling you how many trades are successfully loaded and how many of them fail.





Thank You

You can find more detailsat

https://finpricing.com/lib/EqReverse.html