

Improving Performance. Derivatives Made Easy.

Loan Hedging Overview





Why Use SBA Loan Hedging?



Loan hedging provides *win/win* for bank and borrower

- Provides borrowers with products that meet their needs
- Improves profitability by increasing average life of loans
- Provides real time market pricing based on underlying loan characteristics
- Provides loan pricing and prepayment discipline
- Gives the bank tools to compete with traditional fixed rate lending



Why Use SBA Loan Hedging?



Commercial loan hedging allows community banks to create a <u>competitive advantage</u> by offering desirable products at low cost

New loans (offensive)

- Offer attractive long term fixed rates
- Compete with traditional lenders

Existing loans or renewals (defensive)

- Offers the opportunity to lock in at low interest rates
- Proactively approach your customers / keep competitors away



How Do You Want to Face Your Borrower?

Three flexible options for offering fixed rate financing to your borrowers

VINING 💋

INTEREST RATE PRODUCTS. LLC

SPARKS



- Each provides identical economic characteristics
- Each uses an identical pay fixed swap to create
- Choose the one most appropriate for your borrower
 - Fixed Rate Loan the traditional fixed rate loan...plus a prepayment penalty
 - SMART Loan VSIRP's proprietary product. As simple as the fixed rate loan with additional fee income and accounting benefits
 - Back-to-Back Swap The traditional method employed by the big banks. Provides greater flexibility, but with added complexity, compliance and reporting requirements

How Can You Fix the Rate for a SBA Floating Borrower?



Commercial Loan Hedging Solutions

	Hedged Solutions				
	Back to Back	SMART Loan	Fixed Rate Loan Hedge		
Note Type	Floating Rate	Floating Rate + Modification	Fixed Rate		
Does Borrower Have a DFA "Swap"?	Yes, separate contract	No, derivative embedded in Loan	No		
Documentation	ISDA Master+ GMEI +ECP	Addendum to Note	Fixed Rate Note w/prepay provision		
Reported to SDR?	Yes	Νο	Νο		
Must Borrower be Eligible Contract Participant?	Yes	No	No		
Reduces Rate Risk?	Yes	Yes	Yes		
Fee Income Potential?	Yes	Yes	No		
Borrower Has Gain Potential?	Yes	Yes	Yes		
Option to Prepay Without Penalty?	Yes	Yes	Yes		
Allows funding flexibility?	Yes	Yes	Yes		
Fixed to Float Structure?	Yes	Yes	Yes		
VINING SPARKS Accounting Treatment	Mark-to-Market	Mark-to-Market	Hedge Accounting		

How Does a Loan Hedging Swap Work?



How Does the Loan Hedging Swap Work?





How Does the Loan Hedging Swap Work?





FAQ

What size loan can be hedged?

Loan amounts greater than \$500,000

What terms can the borrower lock in?

Terms up to 15-years

When is the borrower's fixed rate locked?

- Typically, at closing
- The rate can be locked prior to closing with an Advanced Rate Lock Agreement

Can the borrower prepay the loan?

- ONLY at market
- Even partial prepayment will trigger a market unwind

Does the SBA guarantee an losses on the hedge?

- No
- The hedge document must note that this loss is not guaranteed



Underwrite Credit Risk - Definition

- Interest rate swaps have an explicit market value (much like a bond) that is determined by market interest rates and reflected on the bank's books
- Early termination of an interest rate swap will result in either a gain or loss
 - If the swap replacement rate is higher than the existing swap rate, early termination results in a gain
 - If the swap replacement rate is lower than the existing swap rate, early termination results in a loss
- With commercial loan hedging, if the borrower defaults, the offsetting hedge must be terminated at market which could result in a loss to the bank if the swap replacement rate is lower than the existing swap rate
- It is extremely difficult to predict the path rates will follow, and whether the hedge termination will result in a gain or loss
- We can, however, estimate, with a 95% degree of certainty (or higher if preferred), what an institution's maximum loss could be
- To capture the potential "worst case loss scenario", we recommend underwriting additional credit risk equal to 1.5% per year of the beginning hedged balance



Credit Risk - Example

- This incremental credit risk is not direct exposure, as you are not lending additional money to the borrower
 - Should not impact Debt Service Coverage ratios
- Per Dodd-Frank Act, this exposure must be included in the bank's exposure to one borrower and legal lending limit
- Exposure should be calculated, approved and monitored on a deal by deal basis
- This exposure is not guaranteed by the SBA
- The following calculation illustrates the "worst case loss" with a 95% confidence interval assuming a precipitous drop in market interest rates and the borrower defaulting at the worst possible time in the life cycle of the swap:
 - \$1,000,000, 10-year term loan, 8.45 year average life
 - \$1,000,000 X 1.5% X 8.45 year average life
 - Exposure = \$127,900 of additional credit exposure



What Happens at Early Termination?

- The borrower is provided a disclosure describing the prepayment provision
- Most importantly, the borrower must understand the potential early termination <u>costs</u>
- The disclosure provides an estimate of the unwind cost/benefit
- Below is an example of the information provided to borrowers

	Replacement Rate Difference					
Remaining Term Years:	-1.00%	-0.50%	-0.25%	0.25%	0.50%	1.00%
10 Years	(85,244)	(45,452)	(26,216)	10,987	28,974	63,767
9 Years	(74,516)	(39,616)	(22,817)	9,534	25,104	55,083
8 Years	(64,308)	(34,091)	(19,606)	8,168	21,476	46,983
7 Years	(54,604)	(28,864)	(16,576)	6,886	18,079	39,435
6 Years	(45,394)	(23,929)	(13,722)	5,684	14,902	32,413
5 Years	(36,669)	(19,276)	(11,039)	4,560	11,938	25,891
4 Years	(28,418)	(14,898)	(8,520)	3,510	9,176	19,846
3 Years	(20,635)	(10,789)	(6,162)	2,531	6,609	14,256
2 Years	(13,309)	(6,940)	(3,958)	1,622	4,229	9,098
1 Years	(6,433)	(3,346)	(1,906)	779	2,029	4,353

Estimated Sensitivity of Unwinding a 10-Year \$1,000,000 Amortizing Collar Prior to Maturity



Borrower Documentation and Disclosures

- For the *SMART* Loan, the following documentation is required:
 - Standard floating rate promissory note prepared by loan operations, indicate the request is a SMART loan
 - Addendum to promissory note prepared by VSIRP, we will provide a copy of this prior to closing, and update the fixed rate on the day of closing
 - Borrower disclosure an overview of the transaction, this includes a prepayment sensitivity analysis for the borrower
 - Borrower disclosure must include the below language:
 - The Small Business Administration is not a party to this contract and does not guarantee it. In the event SBA is called upon to honor it's guaranty to the lender, the borrower's debt will be determined by the terms of the Note, including the variable rate provision.
- Closing is typically done simultaneous to loan closing
- Forward starting rate locks available subject to approval



Risk Considerations

Risk	Definition	Mitigation Technique		
Upstream Counterparty Exposure (Hedging Counterparty)	Hedging counterparty defaults owing you money (i.e., swap market value is positive to the bank).	Limits on unsecured counterparty exposure, counterparty diversification and ongoing credit review, margin requirements (collateral).		
Downstream Counterparty Exposure (Borrowers)	Borrower defaults owing you money (i.e., swap or <i>SMART</i> loan market value is positive to the bank)	Underwriting standards that reflect potential credit exposure, adequate collateral for both principal and swap potential credit exposure and ongoing credit reviews.		
Operational/Reputational	Inadequate/insufficient disclosure to borrowers (i.e., borrower does not understand prepayment provision). Documentation and settlements not handled properly.	Best practice is to maintain appropriate systems, controls and policies. Ensure appropriate borrower disclosures are provided. Maintain/utilize DFA checklist.		
Accounting/Regulatory	Accounting standards change or are re- interpreted. Books and records do not contain appropriate financial information. Non-compliance with DFA.	Best practices are to maintain internal controls, follow current GAAP and stay abreast of accounting developments. Ensure compliance with DFA reporting and clearing requirements.		



Transaction Timeline

Transaction Proposal / Negotiation

- VSIRP prepares rate indication(s)
- VSIRP can provide term sheets / Commitment letter language
- VSIRP provides borrower disclosure
- VSIRP continuously update rates

Credit / Transaction Approval

Include SMART loan exposure in underwriting package

Transaction Closing

- VSIRP will review all promissory notes, whether internal or attorney prepared
- VSIRP will provide the SMART loan addendum and borrower disclosure
- Rate is refreshed the morning of closing
- Immediately contact VSIRP and management upon execution email copy of signed docs to evidence closing



Obtaining Rate Indication

- Lender contacts VSIRP for an indication
- Multiple ways to get quote
 - Call
 - Email
 - Online via Quick Quote
- Example information provided to VSIRP includes:
 - Loan Amount: \$1,000,000
 - Fixed term: 10-Years
 - Amortization Period: 20-Years
 - Floating rate Index: Prime
 - Spread to Index: 1.25%
 - Fee Income: None



Rate Indication Content

Notional: \$1,000,000.00 amortizing over 240 months Commencement: 11/27/2017 Maturity: 10-Year Customer Locks in Fixed Bank Yields Prime + 125bps, act/365

10-Year Maturity: 6.45% is the customer's indicative fixed rate; this includes no profit to Bank; each basis point you increase the fixed rate will generate \$791.84 in fee income

Potential credit risk is \$127,899.62



Implementation

- Establish business need(s)
- Get buy in from board and executive management
- Implement appropriate board policies/resolutions
 - Derivative products policy
 - Loan hedging credit policy
 - Resolution exempting bank from mandatory clearing
 - Counterparty approvals
- Develop product parameters (borrower ratings, loan size, maximum and minimum terms, qualified lenders, etc.)
- Develop or outsource derivative support function for lenders, finance/accounting/treasury and operations
- Train appropriate constituencies (lenders, operations and accounting)
- Assign approval authorities for credit approval and trade execution
- Establish counterparty relationships
- Establish collateral management process to meet swap margin requirements





- Acts as <u>counterparty or strategic partner</u> in interest rate derivative transactions
- Provides interest rate hedging products, strategies, trading, accounting, operations and Dodd-Frank regulatory support to middle market and community financial institutions

Staffed by seasoned team of interest rate derivative professionals

- Highly experienced team who spent their careers working for, and with, depository institutions
- Each professional has managed/traded extensive derivative positions

Includes complete suite of services

- Turn-key front to back implementation support
- Balance sheet performance and hedging strategy development
- Macro hedging
- Direct Commercial loan hedging
- Training and policy development (board, executives, accounting, lenders, operations)
- Pricing and execution
- ASC-815 accounting support and Dodd-Frank regulatory compliance support

Utilizes state-of-the-art infrastructure

- State of-the-art front, middle and back-office derivative platform
- SOC 1 & 2 valuation compliant





Thank You!





Toll Free 1.800.786.2883 Websites: Firm - <u>www.vingingsparks.com</u> Interest Rate Product - www.vsirp.com

Rick Redmond

rredmond@VSIRP.com 901.766.3382 **Katharine Bray** kbray@VSIRP.com 901.766.3384 Walt Robison, CPA, CFA wrobison@VSIRP.com 901.766.3389 Tommy Warren, CPA twarren@VSIRP.com 864.915.6675 **Max Barousse** mbarousse@VSIRP.com 901.766.3383



Disclaimer

INTENDED FOR INSTITUTIONAL INVESTORS ONLY. The information included herein has been obtained from sources deemed reliable, but it is not in any way guaranteed, and it, together with any opinions expressed, is subject to change at any time. Any and all details offered in this publication are preliminary and are therefore subject to change at any time. This has been prepared for general information purposes only and does not consider the specific investment objectives, financial situation and particular needs of any individual or institution. This information is, by its very nature, incomplete and specifically lacks information critical to making final investment decisions. Investors should seek financial advice as to the appropriateness of investing in any securities or investment strategies mentioned or recommended. The accuracy of the financial projections is dependent on the occurrence of future events which cannot be assured; therefore, the actual results achieved during the projection period may vary from the projections. Interest rate swaps and derivatives are offered and sold via Vining Sparks Interest Rate Products, LLC (VSIRP). VSIRP is an independent operating entity and is not a subsidiary of Vining Sparks IBG, LP. VSIRP is not a broker/dealer registered with the SEC. The firm may have positions, long or short, in any or all securities mentioned. Vining Sparks is a member FINRA/SIPC.

This material was produced by a Vining Sparks Interest Rate Products representative and is not considered research and is not a product of any research department. Employees may provide advice to investors as well as to Vining Spark's trading desk. The trading desk may trade as principal in the products discussed in this material. Employees may have consulted with the trading desk while preparing this material and the trading desk may have accumulated positions in the securities or related derivatives products that are the subject of this material. Employees receive compensation which may be based in part on the quality of their analysis, Vining Sparks' revenues, trading revenues, and competitive factors. Although this information has been obtained from sources which we believe to be reliable, we do not guarantee its accuracy, and it may be incomplete or condensed. Opinions, historical price(s) or value(s) are as of the date and, if applicable, time, indicated. Vining Sparks Interest Rate Products does not accept any responsibility to update any opinions or other information purposes only and is not intended as an offer or solicitation of any product. Securities, financial instruments, products or strategies mentioned in this material may not be suitable for all investors. Before acting on any advice or recommendation in this material, you should consider whether it is suitable for your particular circumstances. Further information on any of the securities or financial instruments mentioned in this material may be obtained upon request.

