

### Variable Rate Debt Options: Auction Rate Securities



### What are Auction Rate Securities?

- Long-term securities sold to short-term investors
- Variable rate, priced competitively relative to other forms of short-term debt, most notably VRDB's
- Re-priced periodically, most common reset periods are weekly (7 day) or monthly (28/35 day)
- Multi-modal with conversion features at issuer option
- Does not require liquidity facility as the auction process provides liquidity; investors have no "put" option
- Usually insured, most often by a AAA monoline bond insurer

### What is a Dutch Auction?

- Competitive Bidding Process among Investors who submit bids/orders to buy, sell or hold securities at desired rates
- Reverse Price Concept orders are filled beginning with the lowest bid submitted until all available securities are allocated
- Clearing Bid order at which the last available security is allocated; clearing bid becomes the reset rate for all investors for the upcoming period
- Auction Rate Mechanism can be viewed as an alternative to the Remarketing Agent function in VRDO programs

- Market Size Approximately \$250 Billion Overall
- Issuers
  - Closed-End Municipal Bond / Equity Funds
  - Student Loan Entities
  - Municipalities
- Investors
  - Corporate Cash Managers
  - Institutional Investors
  - High Net Worth Individuals
- Holding Periods Daily, Weekly, Monthly, Flex
- Dealers
  - Sole Managed Programs
  - Multiple Dealer Participation

- Product Introduction 1984
- Closed End Bond Funds 1988
- Private Placements & Secondary Market Programs 1990
- Student Loan Industry 1993
- Municipal Notes 1997
  - Health Care Issuers
  - Utility and Power Companies
  - Educational Issuers
  - Other Municipal Bond Sectors
- Asset Backed Programs 2000
- Closed End Equity Funds 2002



A Decade of Municipal Bond Finance (Source: Thomson Financial 2/6/2007)



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# What was Behind the Surge in ARS?

- Lower Cost of ARS vs. LOC-backed VRDB's
  - Increased cost of L/C's
  - Fewer providers of L/C's; German bank liquidity rule changes in 2005
- Legislative changes at state and local levels have greatly increased the pool of potential issuers of ARS
  - Issuers ability to float ARS debt
  - Issuers ability to enter into swaps and other derivative transactions
- Demand from investors as they redirect capital from money market funds and other ST investments to ARS
  - Increase in retail investors
  - Increased usage of weekly reset vs. monthly reset

### BNY as Your Auction Agent

- 250 + Auctions per day
- 800 Issues / 1,814 Series (CUSIPS)
- \$100.9 Billion Principal Administered

- Municipal T/E Debt:	\$ 52.32 Billion
- Student Loan Debt:	\$13.59 Billion
- Closed End Funds - Taxable	\$15.4 Billion
- Closed End Funds - Tax-Ex	\$ 9.73 Billion
- Taxable Pfd (Corp / DRD)	\$ 2.98 Billion
- Other Debt:	<u>\$ 6.88 Billion</u>

Total \$100.9 Billion

- Step 1: Preparing for the Auction
  - Confirm "Bidding Rights" with each Participating Broker-Dealer
  - Establish the Band
    - Input Transaction Reference Rate
      - BMA Municipal Swap Index
      - CP Rate
      - LIBOR Rate
      - Net Loan Rate
    - Calculate Minimum and Maximum Rates

- Step 2: Receipt and Compilation of Orders
  - Order Types:
    - Hold Order
    - Sell Order
    - Bid to Hold Order
    - Potential Bid Order
  - Determine if Sufficient Clearing Bids Exist
    - If Demand > Supply = Successful Auction
    - If Demand < Supply = Failed Auction</p>
    - If No Supply = All Hold Auction

- Step 3: Running the Auction
  - Calculate Winning Rate
  - Allocate units among Broker-Dealers
  - Calculate Interest/Dividend Amounts to Investors and Commission Amounts to Broker-Dealers
  - Distribute funds as necessary
  - Notify Parties-in-Interest including Issuer, Borrower, Trustee, Broker-Dealers, DTCC, etc.

# Auction Mechanics - Example

#### **Issue Summary**

100 Bonds	Multi-Broker	Index = 7 day CP	Issue Rating AAA
\$100,000 / Bond	Weekly Reset	Insured	Issuer Rating AA

#### **Step 1: Set Parameters**



### Auction Mechanics - Example

#### Step 2: Bid Submission





### Auction Mechanics - Example

**Bid Submissions** 

Broker	Units	Existing	Potential
B1	50	Hold	
B2	20	Sell	25@ 2.10%
B3	20	Bid @ 2.00%	15@ 2.20%
B4	<u>10</u>	Bid @ 2.25%	
	100		

#### Step 5: Determine Winning Rate



Note: The Clearing Bid rate becomes the reset rate for the entire issue for the current interest rate period

#### **Step 6: Allocation of Units**

Beginning		Net	Ending
Broker	Balance	Change	Balance
B1	50	0	50
B2	20	5	25
B3	20	5	25
B4	<u>10</u>	-10	<u>0</u>
	100		100



# The Trustee's Role Differs Across Rate Structures

- Fixed Rate Securities
  - The rate is established at the time of the original issuance
  - After Capitalized Interest Period is over, the Trustee receives monthly deposits into the Bond Fund (1/6th of Interest) and (1/12th of Principal) of the annual amount due
  - For each debt service payment the Trustee calculates and confirms Debt Service amount
  - Payment amount for each CUSIP does not change unless there is a partial call or redemption

### Variable Rate Demand Bonds

- Remarketing agent is responsible for ensuring Trustee receives rates that may be set daily, weekly, monthly, or semi-annually
- Trustee required to calculate blended rate (daily, weekly, or monthly reset) calculate amount required and confirm Debt Service with borrower
- Conforms to computation and Holiday rules
- Trustee draws on the Letter of Credit for Payment of Interest and/or Principal and pays holders
- The Borrower reimburses the Trustee or will make payment to LOC Bank directly in accordance with the Reimbursement Agreement

- Broker Dealer receives bids from existing holders or potential holders
- Auction Agent receives bids from Broker Dealer or Dealers
- Auction Agent calculates the bids to determine clearing rate (rate at which all bonds are sold)
- Trustee is informed of rate established and pays servicing fees for Broker Dealer and/or Auction Agent
- Trustee makes payment on the established date (weekly, 28 days, 35 days, etc.)
- Issuer establishes a depositary account with the trustee to hold and invest funds for future payments. It is necessitated because of the frequent debt service payments

### **Contact Information**

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