					Data V	endor Cross Valida	ition						
	Market Group	Security Type	Feeds Collection Time Pricing Primary Logic	Primary & Validation Source	Secondary & Validation Source	Third & Validation Source	Fourth & Validation Source	Fifth & Validation Source	Data Vendor Cross Validation Tolerance	Δ Price & Δ Index Benchmarking Tolerance	Default Logic	Addl Default Logic	Manual Quotes In Case of Non Coverage From Selected Data Vendors
	AEM	Equities / Stocks America	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	AUE	Australia	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Previous Last Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	CAN	Canada	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	CEE	Central Europe	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Previous Last Price	n.a	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	EGE	Egypt	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	n/a	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Closing Price to Previous Closing Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	EUE	Europe	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	FEE	Far East	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
S	GDR	GDR/GDS USD	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	Interactive Data Evaluated Bid Price	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Previous Last Price	If No Price (or Price with no volume) switch to calculated price (Local price * DR ratio / WMR x.rate)	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
\times	GER	German	Closure Market (D-1) Last Trade	Telekurs Xetra Exchange	Bloomberg Xetra Exchange	Reuters Xetra Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price on Xetra SE to Last Price on Frankfurt SE	If no Last price on XETRA or FSE, price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
Ö	GRE	Greece	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
/ ST	HKE	Hong-Kong	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
S	IND	Indian	Closure Market (D-1) Closing Price	Telekurs National Exchange	Bloomberg National Exchange	n/a	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Closing Price on National SE to Closing Price on Bombay SE	n.a	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
QUITIES	ITA	Italian	Closure Market (D-1) - "RIF Price" (Reference Price)	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From "RIF" Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	JPE	Japan	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
Ш	LAM	Latin America	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	LEE	Late Europe	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	MXE	Mexico	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	PRE	Pacific Rim	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Bid Price	In case of default from Last to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	RUS	Russian	Closure Market (D-1) Last Trade	Telekurs Primary Exchange	Bloomberg Primary Exchange	Reuters Primary Exchange	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last Price to Previous Last Price	n.a	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	SAE	South Africa	Closure Market (D-1) Closing Price	Telekurs Primary Exchange	Bloomberg Primary Exchange	n/a	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Closing Price to Bid Price	In case of default from Closing to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	THE	Thailand	Closure Market (D-1) Last Trade	Bloomberg Foreign Exchange	Reuters Foreign Exchange	n/a	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Foreign to Local in case of no Last Price on Foreign Exchange	In case of default from Foreign to Local, Price variation vs Prior day must not exceed 10% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources
	UKE	British	Closure Market (D-1) Closing Price	Telekurs Primary Exchange	Bloomberg Primary Exchange	n/a	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Closing Price to Bid Price	In case of default from Closing to Bid Price: Price variation vs Prior day must not exceed 5% otherwise price must be stale	Investment Manager Quotes Broker/Issuer Quotes All other relevant pricing Sources

				Data Vendor Cross Validation								
	Market Group Security Ty	ype Feeds Collect Time Pricing Prim Logic	Validation	Secondary & Validation Source	Third & Validation Source	Fourth & Validation Source	Fifth & Validation Source	Data Vendor Cross Validation Tolerance	Δ Price & Δ Index Benchmarking Tolerance	Default Logic	Addl Default Logic	Manual Quotes In Case of Non Coverage From Selected Data Vendors
	Derivative Ins	truments & Target Funds		·	•							
	AMF American Fut	Closure Ma (D-1) Settlemen	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	5% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
	BRF Brazilian Futu	res Closure Mar (D-1) Settlemen	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	5% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
S	AMO American Op	Closure Ma (D-1) Settlemen	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	20% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
Fund	BRO Brazilian Opti	Closure Mai (D-1) Settlemen	Bloomberg Settlement Pric	e n/a	n/a	n/a	n/a	Broker Statement	20% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
	ASF Asian Futures	Closure Ma (D-1) Settlemen	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	5% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
Target	AUF Australian Fut	Closure Mai (D-1) Settlemen	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	5% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
× ≪	ASO Asian Options	Closure Mai (D-1) Settlemen	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	20% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
ents	AUO Australian Op	Closure Mai (D-1) Settlemen	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	20% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
Jme	EUF European Fut	Ures Closure Mai (D-1) Settlement	Bloomberg Settlement Price	e n/a	n/a	n/a	n/a	Broker Statement	5% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
Instruments	EUO European Op	tions Closure Mai (D-1) Settlemen	Bloomberg Settlement Pric	e n/a	n/a	n/a	n/a	Broker Statement	20% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
	OTC Options	n/a	OTC Pricing RB	C n/a	n/a	n/a	n/a	Broker Statement	10% Price Tolerance Movemement	Switch From Settlement Price to Previous Last Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
vati	WRT Warrant	Closure Ma (D-1) Last Trade	Bloomberg Primary Exchan	Telekurs Primary ge Exchange	Reuters Primary Exchange	Bloomberg Contributor: Gold/GSSD Bid	n/a	0% Tolerance Between Data Vendors Prices	20%: For Prices Validated by at Least 2 Validation Sources 10%: For Non Validated Prices	Switch to Issuer Price / to Intrinsic Calculation	Switch to Issuer Price / to Intrinsic Calculation	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
Derivative	FOF Funds	12:30 AM (LAST / NA	T Bloomberg	WM Daten	Telekurs	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last price to NAV	This Parameterization ensures Last Trade Price coverage for ETFs and Default Automatically on NAVs for other types of Target Funds	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
	FTF Funds with TA	X 12:30 AM C LAST / NA	T Bloomberg	WM Daten	Telekurs	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Switch From Last price to NAV	Taxes will be as of D-2	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
	HFF Hedge Funds	Last available to pricing cut of		WM Daten	Telekurs	n/a	n/a	0% Tolerance Between Data Vendors Prices	10%: For Prices Validated by at Least 2 Validation Sources 5%: For Non Validated Prices	Last NAV or Estimated available	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
	DFF Internal Fund	S Last available to pricing out of		n/a	n/a	n/a	n/a	n/a	5%: For Internal Funds	Switch From NAV to Last price	DCS Stands for "Internal Communication System: Tijs ensures to pick up NAV prices for Funds administered by RBC Internal IS	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes

				Data V	endor Cross Valida	ition						
ge		Feeds Collection Time Pricing Primary Logic	Primary & Validation Source	Secondary & Validation Source	Third & Validation Source	Fourth & Validation Source	Fifth & Validation Source	Data Vendor Cross Validation Tolerance	Δ Price & Δ Index Benchmarking Tolerance	Default Logic	Addl Default Logic	Manual Quotes In Case of Non Coverage From Selected Data Vendors
\subseteq \oplus	Exchange Rates											
cha Rat	Spot Rates	05:00 PM CET	Reuters/WMR from WMCO	Bloomberg	n/a	n/a	n/a	1% Tolerance Between Data Vendors Prices	n/a	n/a	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes
Щ —	Forward Points	05:00 PM CET	Reuters/WMR from WMCO	Bloomberg	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes

				Data \	/endor Cross Valida	tion		İ				
Mari Gro		Feeds Collection Time Pricing Primary Logic	Primary & Validation Source	Secondary & Validation Source	Third & Validation Source	Fourth & Validation Source	Fifth & Validation Source	Data Vendor Cross Validation Tolerance	Δ Price & Δ Index Benchmarking Tolerance	Default Logic	Addl Default Logic	Manual Quotes In Case of Non Coverage From Selected Data Vendors
	BONDS / Fixed Incomes								<u> </u>			
AB	S ABS or MBS bond	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
AN	NB American bond	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs ICMA Mid	Telekurs MOT Ref	Telekurs Euro TLX Average	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
AS	SB Asian bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Interactive Data Evaluated Mid Price	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
AL	JB Australian Corporate Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Interactive Data Evaluated Mid Price	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
CA	Asia Convertible bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Bloomberg Contributor: MSPX Mid Morgan Stanley	Telekurs Most Liquid Market Place Mid	Bloomberg Contributor: NMDP Mid Nomura	Bloomberg Contributor: WDRL Mid Warburg Dillon	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
CE	EU Convertible bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Bloomberg Contributor: Gold Mid	Telekurs Most Liquid Market Place Mid	Bloomberg Contributor: Exane Mid	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
СР	C Convertible (Piece)	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemenent	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
CI	US Convertible bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Bloomberg Contributor: Gold Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
CA	AU Australian Convertible Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Bloomberg Contributor: Gold Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
DA	AB Danish Mortgage Bonds	Closure Market (D-1) Mid	Callable Matrix Price	n/a	n/a	n/a	n/a	Source consistency approach	2.5% Price Tolerance Movemement	n/a	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
EN	AB Emerging market bond	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
EU	IB European bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Interactive Data Evaluated Mid Price	Telekurs ICMA Mid	Telekurs MOT Ref	Telekurs Euro TLX Average	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
GA	AS Asian Government bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
G#	Australian Government Local Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
GC	CA Canadian Govt Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemenent	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers

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	GEM Emerging Government bond	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
; ;	GEU EU Government bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
, -	GGE German Govt Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
	GIT Italian Govt Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing
-	GJP Japan Govt Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Sources/Data Providers Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing
_	GSW Sweden Govt Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Sources/Data Provides Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
-	GUK UK Government bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
-	GUS US Government bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Interactive Data Evaluated Mid Price	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
-	GBZ Brazilian Government Local Bonds	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
-	HEU High yield EU bond	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs ICMA Mid	Telekurs MOT Ref	Telekurs Euro TLX Average	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
-	HUS High yield US bond	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs ICMA Mid	Telekurs MOT Ref	Telekurs Euro TLX Average	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
-	HAS Asian High Yields	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
-	HAU Australian High Yields	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
_	IDX Index linked bond	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Telekurs MOT Ref	Telekurs Euro TLX Average	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing
	LAB Linear amortization bonds	n/a	Multifonds Calculation	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Sources/Data Providers Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources (Data Providers
	CAT Catastrophic Bonds	Closure Market (D-1) Mid	Multiple Specific Broker	n/a	n/a	n/a	n/a	Source consistency approach	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Sources/Data Providers Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers

	LOA	Loans	Closure Market (D-1) Mid	Markit	Client	n/a	n/a	n/a	Source consistency approach	2.5% Price Tolerance Movement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
	SUP	Supranational bond	Closure Market (D-1) Mid	Interactive Data Evaluated Mid Price	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	Telekurs ICMA Mid	n/a	2.5% Tolerance Between Data Vendors Prices	2.5% Price Tolerance Movemement	Switch to Previous Day Mid Price	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers
		Titres de créances négociables / EMTN	Closure Market (D-1) Mid	Bloomberg BGN Mid	Telekurs Most Liquid Market Place Mid	n/a	n/a	n/a	0.75% Tolerance Between Data Vendors Prices	1% Price Tolerance Movemement	n/a	n/a	Investment Manager Quotes Broker/Issuer Quotes Lead Manager / Book Runner Quotes Any other relevant pricing Sources/Data Providers