

PEAR User Guide



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PEAR - What is it?

PEAR is Axon's online exchange compliance database and the knowledge centre that underpins the Axon platform. With an intuitive design, PEAR has a home page for each exchange giving customers access to dedicated sections on products, policies and copies of documents.

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PEAR - Benefits

- 1. Enables users to determine data usage costs by creating 'what if' scenarios.
- 2. Searchable information using vendor codes.
- 3. Allows the mapping of market data policies at product level rather than Exchange level, this, in turn, allows users to access targeted guidance to their queries efficiently. Previous exchange market data agreements, policies, pricing and announcements are maintained within Axon Knowledge and are accessible via PEAR.
- **4.** Recognises searchable terms including Axon's proprietary standardised terms for Unit of Count. Standardised searchable terms allow for easy comparison between exchanges or products in addition to providing quick reference guidance.
- **5.** Axon Knowledge includes product and licence hierarchy structures allowing users to quickly see which other products or licences are included within any given product or licence.
- **6.** Includes details of announcements by exchanges and upcoming price changes to ensure that you stay up to date.



PEAR - Home Page	PEAR Menu		PEAR Announcements Rem	inder		Man	age your a	ccount
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ATHEX Group	Go »	Administrative Information Subscriber						Go »
Australian Securities Exchange	Go »	O AFF - Post-trade						Go »
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<u>On the left-hand side</u>, we have the various exchanges/exchange groups available within PEAR. The exchanges are split out by contract e.g. if we type 'Irish Stock Exchange' into the search bar it will refine the result to Euronext as they administer all of the market data for the Irish Stock Exchange. So essentially you can search for the exchange group e.g. Wiener Börse or alternatively search for the underlying market e.g. Macedonian (administered by Wiener Börse).

On the right-hand side, we have the related exchange products. Here you have the ability to search for a product using different criteria such as the Product Name or the associated Vendor Codes and so forth. For example, if we type 'NAS1', it will refine the results to show 'UTP Level 1' (PDP Code).



If there have been Announcements within PEAR since you last logged in, a reminder will appear (if applicable) at the top right corner of the PEAR Home Page showing you how many Announcements have been created since your last login. By clicking on the 'View' button a lightbox will appear showing you the list of Announcements that you may have missed.

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Australian Securities Exchange				Close	174	14042	NAU .	G0 »
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PEAR - Announcements Page

- To keep up-to-date with exchange announcements we have contact with the exchanges, additionally, we also monitor the exchange websites and documentation.
- We compare the documentation that we hold with that on the exchange website, therefore within our daily checks, if there has been a change, we will proceed to
 update PEAR as required.
- Once we make the changes within PEAR, we will create an announcement, which also includes a notification email inviting the PEAR user to review the changes within PEAR.
- The list of announcements on the Announcements page lists those that have been effective within the last 90 days and those that are effective in the future.

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Announced in Mar 2020 Title: B3 Revised Market Data Commercial Policy Announcement Date: 2020-03-06 Announcement Types: Document Change, Policy Update Policies Affected: Unit of Count - Basis of Count, Unit of Count - Per Instance	Exchange: B3 (formerly BMFBOVESPA) Effective Date: 2020-02-27
Title: Agreement for Non-Display Information Usage Announcement Date: 2020-03-02 Announcement Types: Document Change Policies Affected: Non Display - Reference Price Based Systems, Non Display Applications	Exchange: SIX Swiss Exchange Effective Date: 2020-01-01 Go >
Announced in Feb 2020	
Title: SZSE Fee Schedule for February 2020 Announcement Date: 2020-02-28 Announcement Types: Product Introduction, Document Change Policies Affected: Unit of Count - Basis of Count, Unit of Count - Per Instance	Exchange: Shenzhen Stock Exchange Effective Date: 2020-07-01 Go >
Title: Fee Changes effective 1 July 2020 Announcement Date: 2020-02-27 Announcement Types: Price Change - Product, Policy Update, Price Change - Licence, Document Change Policies Affected: Private Investor Criteria	Exchange: Euronext Effective Date: 2020-07-01 Go >
Title: Oslo Bors migration to Euronext July 2020 Announcement Date: 2020-02-27 Announcement Types: Product Introduction, Document Change Policies Affected: Unit of Count - Natural User, Unit of Count - User Per Source, Unit of Count Non Display	Exchange: Euronext Effective Date: 2020-07-01



Below is a summary of the features that have been incorporated into the Announcements page.

Feature/Capability	Function					
Sort/Filter	Ability to refine announcements by different filters – can filter by:					
	 Announcement Date or Effective Date i.e. announcements that were published (announced) on 					
	a specific date or announcements that became/become effective on a specific date.					
	 Exchange – Select a specific exchange to see the announcements affecting it. 					
	 Announcement Type – Refine announcements based on what they affect i.e. Policy Update, 					
	Policy Introduction, Document Change, Price Change, Product Decommission and Product					
	Introduction.					
	 Policy Type – Filter announcements based on the policy type affected i.e. Non-Display, Unit of 					
	Count, Derived Data and so forth.					
Date Picker	Ability to select a specific date range for either announcements 'announced' or 'effective' for that chosen					
	date range. Please note: Only announcements that were either effective within the last 90 days or are					
	upcoming are available on the announcements page.					
Export Capability	Ability to export the announcements in PDF or CSV format. This allows you to:					
	 Export announcements based on the specific filter's input, if any. For example, export all 					
	announcements effective in March 2020.					
'This Week' and 'This Month' Buttons	Ability to quickly view announcements that are either 'announced' or 'effective' this week or this month.					
My Announcements	Ability to only show announcements that are directly linked to any products owned and/or licences held.					
	Please note: Clients must administer the products they subscribe to and licences they hold to using the					
	Admin feature in PEAR for this function to work correctly. If you require any further information, please					
	contact us: support@axonfs.com					
Search	Ability to search for announcements based on:					
	Exchange Name					
	 Product Name/Description 					
	 PDP 					
	Exchange Code					
	• EID					
	Mnemonic					



Additional Notes

Announcement Date/Effective Date Filter

By default, when the *Announcements* page is loaded it will show the first page of announcements that have been *Announced* (published), starting with the most recent. For example, in the below, we can see that there are the following announcements for March and Feb 2020 (please note: there may be more announcements for current or other months, these can be viewed by selecting the additional pages to view – as outlined below).

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Announced in Mar 2020 Title: B3 Revised Market Data Commercial Policy Announcement Date: 2020-03-06 Announcement Types: Document Change, Policy Update Policies Affected: Unit of Count - Basis of Count, Unit of Count - Per Instance	Exchange: B3 (formerly BMFBOVESPA) Effective Date: 2020-02-27
Title: Agreement for Non-Display Information Usage Announcement Date: 2020-03-02 Announcement Types: Document Change Policies Affected: Non Display - Reference Price Based Systems, Non Display Applications	Exchange: SIX Swiss Exchange Effective Date: 2020-01-01 Go >
Announced in Feb 2020	
Title: SZSE Fee Schedule for February 2020 Announcement Date: 2020-02-28 Announcement Types: Product Introduction, Document Change Policies Affected: Unit of Count - Basis of Count, Unit of Count - Per Instance	Exchange: Shenzhen Stock Exchange Effective Date: 2020-07-01
Title: Fee Changes effective 1 July 2020 Announcement Date: 2020-02-27 Announcement Types: Price Change - Product, Policy Update, Price Change - Licence, Document Change Policies Affected: Private Investor Criteria	Exchange: Euronext Effective Date: 2020-07-01 Go >
Title: Oslo Bors migration to Euronext July 2020 Announcement Date: 2020-02-27 Announcement Types: Product Introduction, Document Change Policies Affected: Unit of Count - Natural User, Unit of Count - User Per Source, Unit of Count Non Display	Exchange: Euronext Effective Date: 2020-07-01 Go >



Alternatively, we can view announcements by *Effective Date* i.e. announcements that will become effective on a particular date. For example, in the below, we can see the view is ordering announcements by the effective date, ordered by the those furthest in the future. In the example, the *Euronext* announcements were announced (published) on February 27th, 2020 however, they don't become effective until July 1st, 2020.

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Title: Oslo Bors migration to Euronext July 2020 Effective Date: 2020-07-01 Announcement Types: Product Introduction, Document Change Policies Affected: Unit of Count - Natural User, Unit of Count - User Per Source, Unit of Count Non Display	Exchange: Euronext Announcement Date: 2020-02-27	Go »
Title: Oslo market data will migrate to Euronext July 2020 Effective Date: 2020-07-01 Announcement Types: Document Change, Product Decommission, Exchange Participants Policies Affected: Unit of Count - Basis of Count	Exchange: Oslo Bors Announcement Date: 2020-01-27	G0 »
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Effective in Apr 2020		
Title: Updated Market Data Policies document effective April 2020 Effective Date: 2020-04-01 Announcement Types: Policy Update, Product Decommission, Document Change Policies Affected: Usage Reporting - Delayed Data	Exchange: Cboe Futures Exchange (CFE) Announcement Date: 2020-01-26	G0 •



Viewing announcements older than ninety (90) days

The announcements page currently restricts announcements to those that have been effective in the last ninety (90) days and to those that will be effective in the future. If you wish to view announcements that are older than ninety (90) days, this can be done by viewing the announcements within each exchange. For example,

1. Select the London Stock Exchange Group from the list of exchanges in PEAR.

2. Once you're on the home page of the London Stock Exchange Group, select the Announcements under policies:





3. By selecting the drop-down, you will be able to see a list of all announcements related to that specific exchange.

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Document Version So Effective Date: 2022-01-01 End Date: Document Reference: Schedule A, Market Data Policies - Free trials - 6.4 to 6.7 6.4. A Redistributor may grant a one-off, single free trial of 30 days during which no Data Charges will apply. This will apply: a) Per Natural User for display Devices: b) Per End Customer Location for Data delivered via datafeed. 6.5. The Redistributor must submit a Report for any free trial and technical and technical and technical and technical and technical and technical controls put in place by any Redistributor prove in writing the contractual and technical and techn	Source Document: Schedule A: Market Data Poli	cies			AIM Level 1 Non Display - Trading Platforms - Member	Go »
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PEAR - Exchange Page

In this example we have selected the London Stock Exchange Group from the list of exchanges in PEAR:

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Natural User Netting	0	AIM Level 1		L	evel 1	Go »
Optional direct reporting scheme which allows Natural User	0	AIM Level 2		L	evel 2 - Full Depth	Go »
Standard unit of count is User per Source		CurveGlobal Interest Rate Derivatives Le	evel 1	L	evel 1	Go »
		CurveGlobal Interest Rate Derivatives Le	evel 2	L	evel 2 - Full Depth	Go »
	0	ETF / ETP Level 1		L	evel 1	Go »
	0	ETF / ETP Level 2		L	evel 2 - Full Depth	Go »
	•					•
Policies	Potential Cost Savings		Document Category:		Agreement 💊	Add Contract + Historical O Current
Announcements Go »	Announcements	Go »	Terms and Conditions	Downlo	ad ComPEAR	Online Version
Derived Data Go >	Derived Data	Go »	FTSE Partnership Index Series Non-Display Usage - Customer	2022-0 Downic	ad <u>ComPEAR</u>	Online Version
End of Day Go >	Fee Waivers	Go »	Declaration Version: 2.0	2022-0	1-01	
Fee Waivers Go »	Member Discount	Go »				
Market Data Audit Go >	Non Display	Go »				
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Non Display Go >	Service Facilitator	Go »				
Private Investor Go >	Unit of Count Display	Go »				
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- For each Exchange, we have a home page displaying 5 tabs.
- <u>On the top left</u>, we have '<u>Headline Policies</u>' a snapshot of the main areas of policy that our end users are interested in:



1. Does the exchange have a non-display policy?

2. Does the exchange offer natural user netting? That is, if one user had a Refinitiv terminal and a Bloomberg terminal could they could net those and just pay for one.

3. Does the exchange offer user per source netting? For example, if someone in a DACS environment had a max count of 2 or 3, they could login simultaneously two or three times and you will only have to report it once.

- On the right, we have the 'Products' offered by the exchange. Here you can refine your view by various markets offered by the exchange, if applicable. For example, you could view the various product offerings of either the LSE European and/or International markets.
- On the bottom left, we have the various areas of policy ('Policies') for the exchange, for example, derived data, non-display, unit of count and so forth.
- <u>The next tab along</u>, is the '<u>Potential Cost Savings</u>', essentially a subset of the policies that are here. They're policies that could be positive to the end-user, for example, private investor rates, developer exemptions and so forth.
- <u>Then in the final tab the bottom right tab</u>, these are all the source documents (<u>Document Category</u>) from the exchange, so the exchange agreements, policies, price lists and so on. Not only do we hold the current version of the documentation, but we also hold historical copies that are generally removed from the exchange websites, if available.
 - ComPEAR is a feature that gives you the ability to compare in detail, previous exchange documents with the current versions side-byside
 - \circ $\;$ The download link is a link to the documents we hold on our servers
 - \circ $\;$ The online version link is a link to the exchanges' website version of the document



ComPEAR

With the ComPEAR feature, users can compare in detail, previous exchange documents with the current versions side-by-side. ComPEAR highlights the changes/differences between the documents allowing you to perform comparisons in seconds.

For this example, we have selected *Aequitas* Exchange and selected the *Price List* 'Document Category' type. We have selected the 'Data Fee Schedule' document and then we clicked *ComPEAR*.

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Exchange: Aequitas (contact details)							MICs	
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Natural User Netting	0	Other Traded Securities - Level 1 - NEO-D		Level 1			Go »	
MISU approach - requires reporting reconciliation for billing purposes	0	Other Traded Securities - Level 1 - NEO-L		Level 1		T	Go »	
User per Source netting is permitted without report reconciliation	0	Other Traded Securities - Level 1 - NEO-N		Level 1		Ī	Go »	
		NEO Exchange Listed Securities Level 1 & Level 2 - NEO-D		Level 2 - Ful	I Depth		Go »	
		NEO Exchange Listed Securities Level 1 & Level 2 - NEO-L		Level 2 - Ful	II Depth		Go »	
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Non Display								
Private investor								
Service Facilitator		4						•



After clicking 'ComPEAR' you are presented with a lightbox (pop-up) with the previous documents to run a comparison against. In this example, we selected the previous 'Data Fee Schedule'. Then we clicked the 'ComPEAR' button in the lightbox.

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PEAR HOME ANNOUNCEMENTS VENDOR NOTIFI	CATIONS Compare Exchange Doc	cuments		×				1.
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Non Display Policy Contempose fees for Trading and/or Analysis Non Display use	Aequitas NEO Historical Data Agreer	ment Version: 20150918	2015-09-18	•	Timeliness: State:	 Real Time Current Data Level 	 Delayed Expired 	Î
Natural User Netting MISU approach - requires reporting reconciliation for billing purpos	Connectivity Services Fee Schedule	Version: 20150217	2015-02-17	0		Level 1 Level 1		Go » Go »
User Per Source Netting User per Source netting is permitted without report reconciliation	Data Fee Schedule	Version: 2018/10/29	2018-10-29	۲		Level 1		Go »
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Below is the 'ComPEAR' tab showing the previous document on the left and the current document on the right. Text that was deleted is highlighted in red (on the left), text that was added is highlighted in green (on the right). For example, below you can see the fees have changed for both the Other Traded Securities Level 1 and Level 2 NEO-L and NEO-N products.

Application		× +					-
	pear.axon	ifs.com/#/home/compare					☆ 0
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		2.1 DISPLAY FEES FOR PROFESSIONAL USERS	NEO-L	NEO-N	NEO-D	2.1 DISPLAY FEES FOR PROFESSIONAL USERS	
		NEO Listed Securities - Level 1 & Level 2	Eree	Eree	Eree	NEO-L NEO-N	NEO-D
		Other Traded Securities - Level 1	\$6.50	\$8.00	\$0.00	NEO Listed Securities – Level 1 & Level 2 Free Free	Free
		Other Traded Securities - Level 2	\$15.00	\$18.75	\$0.00	Other Traded Securities - Level 1 \$9.20 \$9.85	\$0.00
						Other Traded Securities - Level 2 \$21.00 \$22.70	\$0.00
		2.2 DISPLAY FEES FOR RETAIL PROFESSIONAL USERS	NEO-L	NEO-N	NEO-D	2.2 DISPLAY FEES FOR RETAIL PROFESSIONAL USERS	NEO-D
		NEO Listed Securities - Level 1 & Level 2	Free	Free	Free	NEO Listed Cognition Lovel 1 & Lovel 2	Eroo
ANGE BHR		Other Traded Securities - Level 1	\$1.50	\$1.50	\$0.00		+0.00
		Other Traded Securities - Level 2	\$3.00	\$3.00	\$0.00		\$0.00
	¹ In addition annual prim ¹ To benefit i netting per o	n to such fees, the Data Recipient must also pay Interest on any amounts owed and not re- ne rate plus 3% calculated on a daily basis. from the application of the MISS approach, a Data Recipient must provide supporting data source & absort without report reconstitution.	ceived within such thirty eport reconciliation acro	y (30) day period at a ass its various vendor	rate equal to the R rs to the NEO Exch	alin = 2.3 DISPLAY FEES FOR NON-PROFESSIONAL USERS	NEO-D
	T OT GC IIII	unite of 1 foreasoning every rectain 1 foreasoning every line for 1 foreasoning every press, a	A DR. DAR THOUGHOUR		neostock	NEO Listed Securities - Level 1 & Level 2 Free Free	Free
					neoscoci	Other Traded Securities - Level 1 & Level 2	
NEO E)	XCHAN	GE DATA FEE SCHEDULE (CAD)		Mangar.		B. NON-DISPLAY FEES Non-display fees apply when NEO Exchange Data is used in an application that is not for d	splay use.
		23 DISPLAY FEES FOR NON-PROFESSIONAL USERS	NEO-L	NEO-N	NEO-D	Applications are classified as relating to either trading or analysis and the fees apply per Dat (i.e., the signatory to a Data Agreement) and, if applicable, per each of its Affiliates # explanation, please see the Data Instructions.	Recipient or further
		NEQ Listed Securities - Level 1.8 Level 2	Free	Free	Free		
						3.1 NON-DISPLAY FEES FOR NEO EXCHANGE LISTED SECURITIES	



PEAR - Exchange Product Page

In this example we have selected *European Level 2* from the list of Products for the London Stock Exchange Group:

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PEAR HOME ANNOUN	ICEMENTS VENDOR NO	DTIFICATIONS REPORTS	WHAT IF? ADMIN							1-
London Stock Exchange Group Europe	an Level 2									
Search Exchange Details X	Product Details 🗙									
European Level 2			Product Id: LSE0	Associated Po	blicies		Vendors			
Level 2 - Full Depth				Announcements	5	Go »	Refinitiv Bloomberg			
Delay Period: 15 minutes				Derived Data		Go »	London Stock Exchange - Eu	Iropean Service L14	+L2	
MICs: XLON				End of Day		Go »	Exchange Code: DT2	PDP Code: DT2		
				Fee Waivers		Go »	Fee: GBP 27.52 per month	2020-01-01		
Data Charges					Historical	Current				
Client Type	Use Type	Fee		Effective Date	End Date		Hierarchy		Included In	Includes
Private Investor	Display	GBP 4.10 per month		2014-01-01			International Level 2	2		
Professional	Display	EUR 25.72 per month		2020-01-01						
Private Investor Rate additionally include	es International Level 2 data									
Thread investor read additionally include										
Licences							Historica	al O Current	Licence Type: Application Usage	÷ •
Licence Name				Timeliness	Client Type	Fee	Effective	Date	End Date	
International Level 2 Other Application	Usage		3	Real Time	Professional	Ban	ded 2020-01-0	1		Go »

 On the top left, we have some high-level information, so the data level, the delay period (if applicable) and the associated MICs (Market Identifier Code) with that product.



- <u>Below</u> we have the '<u>Data Charges</u>' these vary by exchange in terms of the user type offered. Depending on the exchange, we also hold the historical pricing information which can be viewed by selecting the 'Historical' radio button (if available). In the above example, we can see that there are two (2) "states" of pricing Historical and Current.
- <u>To the bottom of the page</u>, we have the '<u>Licences</u>' that are associated with the product. We also group the licences by 'Licence Type', again this varies by exchange but generally speaking we have derived data, external redistribution, non-display etc. Again, we also have historical pricing for the licences (if available).
- <u>To the top right</u>, we have the '<u>Vendors</u>' pricing for both Refinitiv and Bloomberg, some may be empty as the Vendor may not carry the product.
- <u>Below this tab</u>, is the '<u>Hierarchy</u>' tab, within PEAR we have built-in a parent-child relationship, as exchanges tend to include Level 1 data as part of the Level 2 subscription – this is reflected here, if applicable.
- <u>Finally</u>, we have the '<u>Associated Policies</u>' tab, essentially these are the policies that this exchange product is related to. (Note: this is particularly useful where exchanges split out policies by products, for example, Nasdaq differentiate between their non-display policies for U.S. and European products).



PEAR - Exchange Policy Page

In this example we have selected *Non Display* | *Non Display* – *Other Application Usage* from the list of Non Display Policies for the London Stock Exchange Group:

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London Stock Exchange Group Non Display - Other Application Usage			
Search Exchange Details X Policy Details X			
Non Display (6 Policies):	Non Display - Other Application Usage 🗸 🔿 Historical 💿 Current	Associated Products Stat	e: Current 🗸
Effective Date: 2016-01-01 End Date:	Requires Pre-approval	AlM Level 1	Go »
Policy Explanation:	Usage Categories:	AIM Level 2	Go »
The use (display or non-display) of London Stock Exchange Group real-time data in applications covering one or more non trading based activities attracts 'Other Application Usage fees' Non trading based activities includes but are not limited to	Fund Administration	CurveGlobal Interest Rate Derivatives Level 1	Go »
Risk Management	Portfolio Management Quantitative Analysis	CurveGlobal Interest Rate Derivatives Level 2	Go »
Quantitative Analysis Fund Administration	Risk Management Any use other than Display	ETF / ETP Level 1	Go »
Portfolio Management		ETF / ETP Level 2	Go »
Effective January 2016, separate licence charges are applicable where a customer utilises data in both Non Display Usage and Other Application Usage free were not liable when holding a non display licence	Notes: Add Notes +	European Level 1	Go »
for the same level of data.	•	European Level 2	Go »
Policy Extracts	Historical Q Current	Associated Licences Stat	e: Current 🗸
		AIM Level 1 Other Application Usage	Go »
	View all associated documents	AIM Level 2 Other Application Usage	Go »
Source Document: Schedule A: Market Data Policies		CurveGlobal Interest Rate Derivatives Level 1 Other Application Usage	Go »
Document Version: Version 5.0 Effective Date: 2022-01-01		CurveGlobal Interest Rate Derivatives Level 2 Other Application Usage	Go »
End Date: Document Reference: Schedule A. 1. Definitions - Application Lisane		ETF / ETP Level 1 Other Application Usage	Go »
Sournerie televenes. Senedale 7, 1. Senimale Frippication Souge		ETF / ETP Level 2 Other Application Usage	Go »
1. Definitions		International Level 1 Other Application Usage	Go »
Application Usage means Non-Display and/or Other Application Usage Licence Charges. Charges are identified in the Price	List.	International Level 2 Other Application Usage	Go »

On the top left, we have the 'Policy Explanation', which is our explanation of the information contained within the exchange's documentation, as referenced below in the 'Policy Extracts'.



- The '<u>Policy Extracts</u>' contain all the information from the exchange documentation policy, agreement, price list and so forth that refer to the area of policy that we are explaining. There is also the option of viewing the document which the extract was taken from by selecting the 'Source Document' hyperlink.
- <u>To the right</u>, we have the '<u>Associated Products</u>' and '<u>Associated Licences</u>' that this policy applies to.



PEAR - Vendor Notifications

The Vendor Notifications page is a centralised store of both the Bloomberg and Refinitiv Data Notifications. Similar to the Announcements page in PEAR, users can filter Vendor Notifications by 'Announced Date', 'Effective Date', 'Announcement Types' and so forth. There are two flags that are set by Axon either 'Review Advised' (denoted by an orange 'i') or 'Action Advised' (denoted by a green 'i'). Users can then set a status for the Vendor Notification, if required, by selecting the 'Set Status...' drop-down and setting it to either 'Task', 'Done' or 'N/A'.

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Sort/Filter By: Announced Date All Announcement Types All Data Sources All Vendo	r Codes 🔻 All States 🔹	PDF CSV Reset
« < 1 2 3 4 →	mberg 🗹	Search by ID/Vendor Code
Notification ID: 16798 Title: Change in Feed Sources for a Subset of Interest Rate Swaps Announced Date: 2020-03-04 Effective Date: 2020-04-01	Vendor: Bloomberg Data Sources: Announcement Types: Symbology Change	Action Advised Set Status Set Status Task Done
Notification ID: 16800 Title: Market Data with a Request-Response Interface & Market Depth - Policy Changes Announced Date: 2020-03-04 Effective Date: 2020-06-01	Vendor: Bloomberg Data Sources: Announcement Types: Contractual/Commercial Change	N/A Set Status
Notification ID: 16797 Title: Entitlement Change for a Subset of Indices Announced Date: 2020-03-04 Effective Date: 2020-04-03	Vendor: Bloomberg Data Sources: Exchange: Chicago Mercantile Exchange Group Announcement Types: Entitlement Change	Action Advised Set Status Details >
Notification ID: 16790 Title: Discontinuation of a Subset of Indices Announced Date: 2020-03-04 Effective Date: 2020-03-30	Vendor: Bloomberg Data Sources: Announcement Types: Symbology Change	Action Advised Set Status
Notification ID: 16789 Title: Discontinuation of a Subset of Vontobel Indices Announced Date: 2020-03-04 Effective Date: 2020-03-30	Vendor: Bloomberg Data Sources: Announcement Types: Symbology Change	Action Advised Set Status



By clicking on the 'Details' button for a particular Vendor Notification you will be presented with a screen similar to the below. Rather than a clunky, information-overload view, users are presented with organised extracts from either the Bloomberg or Refinitiv Data Notifications, such as 'Change Summary, 'Change Type (s)' and so forth.

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PEAR HOME ANNOUNCEMENTS VENDOR NOTIFICATIONS REPORTS WHAT IF? ADMIN		1
Overview Details X Reports		London & Italian Stock Exchange - EOD Redistribution Price & Policy Change 2020-04-01 🔹
Status:	Announced Date: 2020-02-10	Effective Date: 2020-04-01
Change Summary:	Change Type(s):	
A price and policy change for EOD Redistribution of London Stock Exchange and Italian Stock Exchange services will take effect 01 January 2020.	New Policy, Policy change, Price change	
Action needed:	Data Source(s):	
Redistribution of EOD clients need to reach out to the exchange to contract and receive approval to redistribute end of day data. Italian Stock Exchange users need to contact market/dataBIT@borsaltaliana.it. London Stock Exchange users need to contact reattimedata@londonstockexchange.com.		
What is the change : Effective 01 January 2020 Jondon Stock Exchange /J SEG) introduced a policy and price change for redistribution of end of day data for		
multiple services. After Midnight data means data distributed after 23:59 on the day that it is generated.		
	Associated PEAR announcements:	
	2019-10-03 Pricing and Policy Changes for	January 1, 2020
Notification Extracts		
Why is the change occuring?	What is the impact of the change?	
This Refinitiv change follows a recommendation notified by (LSEG) and is effective 01 January 2020.	Redistribution of London Stock Exchange a be direct billed for customers who redistribu data services) on the day that it is generate redistribution of data. including a general fe for customers who redistribute After Midnig Delayed data do not require an additional A the same data level and service.	nd Italian Stock Exchange regulated market data services now requires prior approval and will te data after 23-59 (respective local UK or Central European Time for London and Italian market d. After Midnight data license charges are always due where the customer charges fees for the e for accessing its services including the data. After Midnight data license charges are waived nt data for journalistic purposes. Customers with redistribution license's in place to redistribute fitter Midnight data license as the Delayed license covers redistribution of After Market data for

Note: The Vendor Notifications 'Details' view will differ slightly depending on whether you are viewing a Bloomberg or Refinitiv Notification.



Users can also run reports on Vendor Notifications. By clicking on the 'Reports' tab, users will be presented with the below. There are two report types users can run - 'Standard Report' or 'Custom Report' (these options can be found at the bottom of the 'Reports' tab page, as shown in the next screenshot). All reports can be saved and then re-run for later use.

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Vendor Codes					
You can manually add vendor codes for your report below as sing	le or comma separated values Add				
Alternatively, you can select from your company held vendor coor	es using the button below				
Dates		Vendor Notification	States		^
Search by: Announced Date	Date Type: Date Range	Ø	State		111
From:	To:	×	Action Advised Review Advised		11
			Task		
		<u> </u>	Done		
Change Types		Regions			^
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There are several criteria that users can run Vendor Notification reports on such as the 'Change Types' i.e. Price Change, New Market and so forth. The 'Vendor Notification States' i.e. Action Advised, Task and so forth. The 'Regions' i.e. Asia Pacific, Global and so forth.

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	Add Org	anisation Codes							
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Annound Erom:	ced Date •	Date Range	•		Action Advised			1	
2020-03-	-03 🗮	2020-03-10		۲	Review Advised			1	
					Task			1	
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Change T	"ypes		*	Regions				Â	
۲	Туре				Region				
•	Data Change				Americas			. 1	
	Product Enhancement				Asia Pacific			. 1	
•	New Market			2	EMEA			- 17	
•	Entitlement Update				Global				
			Run Stand	ard Report					
			~						



There is also the option to add your firm's Vendor Codes (EID or PDP). This means that users can refine the Vendor Notifications view to only show Vendor Notification's that are directly linked to their held Vendor Codes. You can manually add an EID or PDP below as single or comma-separated values or alternately Admin users can upload them, and they can subsequently be selected from the list (as shown in the lightbox (pop-up) below). We will show you how to administer Vendor Codes as an Admin user next.

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PEAR HOME ANNOUNCEMENTS VENDOR NOTI	Org	ganisat	tion Vendor C	Codes						1	-
Overview Details X Reports	Pleas	e select the	e vendor codes to incl	ude in your report:			-				
Vendor Notification Reports		Туре	Code	Description			Reset	Load Report 📤 🛛 S	ave Rep	iort 🎀	
		EID	14022	Australian Securities Exchange Eq	uities						
Vendor Codes	×	EID	78137	NEO Exchange NEO-D for Non-NE	O-liste	ed securities					
You can manually add vendor codes for your report below as s		PDP	ABD	Abu Dhabi Securities Exchange Le	vel 1						
		PDP	AC2	Athens Cyprus Securities L1+L2							
Alternatively, you can select from your company held vendor co		PDP	ALP	Alpha Trading Systems - TSX Leve	1		•				
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Dates						Vendor Notification States					
Search by:		Date Type:									
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2020-03-03	ſ	2020-03-11)			Review Advised					
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Change Types				ŕ		Regions					
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For PEAR Admin users, they have the option to upload a CSV file of their firm's Vendor Codes (EID or PDP) so that on the Vendor Notifications tab 'Overview' option, users will be able to refine the view to Vendor Notifications that are directly linked to their firm's Vendor Codes. By clicking on the *Admin* tab from the menu and then the 'Vendor Codes' tab, users will be presented with the below. To the left, in this example, are the already loaded Vendor Codes. To add more, either enter the values manually by a comma-separated value or alternatively click 'Add Vendor Codes' and then download the 'Template', complete it, and upload the Vendor Codes specific to your firm.

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A2X Markets						
AxonFS Licences	Licences Products	Vendor Codes				
User Defined Ve	endor Codes:		Add Vendor Codes Ad	Id Vendor Codes		×
			Last updated: Mar 3, 2020 9:45:29 PM	Enter Codes:	Example: Bl 4, 001024	
Code Type	Vendor Code	Description		Enter Coues.	Example: BL1, 001234	Add
EID	14022	Australian Securities Exchange Equities	×	Upload File:	Choose File No file chosen	Template
EID	78137	NEO Exchange NEO-D for Non-NEO-listed securities	×			
PDP	ABD	Abu Dhabi Securities Exchange Level 1	×			
PDP	AC2	Athens Cyprus Securities L1+L2	×			
PDP	ALP	Alpha Trading Systems - TSX Level 1	×			
PDP	ALV	Alpha Trading Systems - TSX Venture Level 1	×			
PDP	AMM	Amman Stock Exchange	×			
PDP	ART	Aquis	×			
PDP	ASE	NYSE MKT	×			
PDP	ASX	Australian Stock Exchange	×			
PDP	ATH	Athens Securities Level 1 (includes ATHEX Indices)	×			
PDP	BC1	Cboe Europe Level 1	×			
PDP	BCD	Vendor code not known to PEAR	×			
PDP	BEC	Vendor code not known to PEAR	×			
PDP	BFE	Vendor code not known to PEAR	×			
PDP	BMC	BM&F Commodity & Futures Level 1	×			
PDP	BSE	BSE India Spot Market Level 1 (India, Bhutan, Nepal)	×			
PDP	BSI	BSE India Indices (India, Bhutan, Nepal)	×			
PDP	BU1	Budapest Stock Exchange Level 1 Package	×			
PDP	BUE	BOLSAS Y MERCADOS ARGENTINOS Level 1	×			
PDP	BUH	Bucharest Stock Exchange Level 1	×			
PDP	CAI	Egyptian Exchange L1+L2	×			
PDP	CAS	Bourse De Casablanca	×			
PDP	CBT	Chicago Board of Trade (Argentina, Chile, Peru and Uruguay)	×			
PDP	CEC	ICE Futures US	×			
PDP	CEG	Canadian Exchange Group	×			
PDP	CEG1	Vendor code not known to PEAR	×			
PDP	CGD	Vendor code not known to PEAR	×			
PDP	CH1	Chi-X Canada CXC TSX LEVEL 1	×			

<u>Note</u>: When you add the Vendor Codes and then save them, if there are Products which match the Vendor Codes that you have added, you can add them to your firm's product list. So, for example, in the above, if you had added EID - '14022' you would have had the option to map it to Product - 'Australian Securities Exchange Equities'.



PEAR - Reports Page



- The *Reports* page allows us to essentially interrogate the system based on the meta-data we store at the policy level. There are 4 types of Reports we can run, namely Policy Search, Summary Search, Licence Search and Data Charge Search.
- For example, we can select all the exchanges and run a 'Summary Search' based upon the *Unit of Count Display* 'Policy Type' and select the *Standardised Unit of Count* for the 'Subcategory Type', and finally select the *Natural User* 'Subcategory'.
- As a result, we can view a snapshot of all exchanges within PEAR that currently offer Natural User Netting.
- The results may also be exported as a PDF or CSV.

- The report criteria can also be saved and used by all users across the firm.
- The below is a '<u>Grid View</u>' of the exchange's that offer Natural User netting.

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Search Summary Results 🗙				
🗁 Summary Search Results				Grid View
« < 1 2 > »		Search		٩
Exchange Name	Sub Category	Policy_Title	Details	
Aequitas	Standardised Unit of Count	Unit of Count - MISU	Natural User	
Boerse Stuttgart	Standardised Unit of Count	Unit of Count - Natural User Netting	Natural User	
Bolsas Y Mercados Espanoles (BME)	Standardised Unit of Count	Unit of Count - Natural User Netting	Natural User	
Cboe Europe Equities	Standardised Unit of Count	Unit of Count - Direct Model	Natural User	
Chicago Mercantile Exchange Group	Standardised Unit of Count	Unit of Count - Natural User Netting	Natural User	
Deutsche Boerse	Standardised Unit of Count	Unit of Count - Natural User Netting	Natural User	
Euronext	Standardised Unit of Count	Unit of Count - Natural User	Natural User	
European Money Markets Institute	Standardised Unit of Count	Unit of Count - Natural User	Natural User	
London Metal Exchange	Standardised Unit of Count	Unit of Count - Natural User Netting	Natural User	
London Stock Exchange Group	Standardised Unit of Count	Unit of Count - Natural User Netting	Natural User	
Luxembourg Stock Exchange	Standardised Unit of Count	Unit of Count - Natural User	Natural User	
Nasdaq	Standardised Unit of Count	Unit of Count - European Netting	Natural User	
Nasdaq UTP	Standardised Unit of Count	Unit of Count - MISU	Natural User	
Nasdaq UTP	Standardised Unit of Count	Unit of Count - UTP Netting	Natural User	
New York Stock Exchange	Standardised Unit of Count	Unit of Count - MISU	Natural User	
New Zealand Exchange	Standardised Unit of Count	Unit of Count - Natural User Netting	Natural User	



PEAR - What If?

- 'What If' is our cost analysis tool, allowing users to determine how much specific datasets and markets would cost to implement.
- Users have the ability to query different types of data usage i.e. Display, Non-Display and Data Derivation.
- The results will output the data charges (the terminal fees) and the licences. The system will also calculate the monthly/yearly cost taking into consideration whether the data charge/licence fee is included in another chosen product/licence (within a product/licence hierarchy (parent/child)).

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Next >	
Select Data Timeliness	
 ○ Delayed ● Real Time 	
Search Type	
 Search using Vendor codes Search using Product Wizard 	
Saved Queries	
+ My Public Queries + Public Queries	



What If Example

Click the 'What If' tab from the PEAR menu. In this example, we have selected the following for our query:

- 1. Data Timeliness: Real Time | Search Type: Search using Product Wizard
- 2. Exchange: London Stock Exchange Group | Data Level Filter: Level 1 and Level 2 Full Depth
- 3. Product: International Level 2 and International Level 1
- 4. Usage of Data: Display

5. Display Type: External | User Types: Professional | London Stock Exchange Group Options: Non-Member | Number of Users: 20 | Calculate cost in: GBP Below are the results from the What If query. In this example, you can see the hierarchy within PEAR has calculated that *International Level 2* data charges only apply, as the *International Level 1* is included in Level 2.

6. Additionally, the hierarchy structure also applies to licences. In the example below, the licences with an 😰 icon beside them identify that those licences are included in the International Level 2 Redistribution Licence. If you click on the icon it will display a pop-up explaining this. Note: Please also review the section Licence Picker What If Example for other examples.





PEAR - Admin

- The product/licence picker feature within PEAR makes life easier for users by applying a simple colour-coding process to highlight the licences a firm holds and the
 products they use.
- A green tick indicates products used and licences held by the firm, and an orange tick indicates products and licences which are associated/included with the licences held and products used.
- The 'What If' functionality enables firms to generate a cost-calculation based on products and licences that are specific to them, by excluding costs for licences held by the firm. This provides firms with a much more accurate cost projection of their proposed data-usage.
- All licences and products marked by an administrator via the new Admin tab are visible to all users throughout your firm level, making it easier for all internal users to understand the firm's current licensing and product subscriptions.
- Please note: You must register to become an administrator of PEAR to enable this functionality by contacting our Helpdesk at support@axonfs.com.

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Exchanges All Exchanges •			Export 💆
Edit			
Licence Name	Exchange Name	Licence Type	Date Changed
Distribution Licence	A2X Markets	External Redistribution	
Non Display Licence	A2X Markets	Non Display	2020/02//06 10:04:44
NEO Exchange Listed Securities - Non Display Analysis Usage - NEO-D	Aequitas	Derived Data, Non Display	2019/09//25 09:31:26
NEO NEO-D Distribution	Aequitas	External Redistribution	
NEO NEO-L Distribution	Aequitas	External Redistribution	
Other Traded Securities Distribution - NEO-L	Aequitas	External Redistribution	2020/03//05 20:04:20
ATHEX & CSE Securities Annual Licence - ATHEX Member	ATHEX Group	Direct Access	
ATHEX & CSE Securities Annual Licence - Subvendor	ATHEX Group	External Redistribution	
ATHEX Bonds Annual Redistribution Licence Fee - Pre-Trade	ATHEX Group	External Redistribution	
ATHEX Futures Non Display - Internal Redistribution	ATHEX Group	Derived Data, Non Display	
ATHEX Securities & Derivatives Non Display - Internal Redistribution	ATHEX Group	Derived Data, Non Display	
ASX - Non Display Fee (Enterprise Licence)	Australian Securities Exchange	Non Display	
ASX 24 - Non Display Fee (Enterprise Licence)	Australian Securities Exchange	Non Display	
ASX 24 Delayed Display	Australian Securities Exchange	External Redistribution	
ASX End of Day (EOD)	Australian Securities Exchange	External Redistribution	~



Admin - Licence Picker Example

In the example below, we are currently on the home page of PEAR and have selected the *London Stock Exchange Group*. The *UK Level 2* product is a product that we currently subscribe to as identified by the \bigcirc icon. The products which have the \bigcirc icon associated with them are those which are included within the subscribed product. So, in this case, *NYSE American Integrated* includes *NYSE American OpenBook*.

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Abu Dhabi Securities Exchange	Go »		Refiniti	v		Bloomberg	
Aequitas	Go »	Description	Exchange Code	PDP Code	EID	Mnemonic	
Amman Stock Exchange	Go »	Arca Options					Go »
Aquis Exchange	Go »	Arca Options - Complex Order Book					Go »
ATHEX Group	Go »	Global OTC					G0 »
Australian Securities Exchange	Go x	ICE Global Index Feed	GIF	GIF	45404	NGIF	Go »
	60-	Network A - NYSE	NYS	NYS	14003	NYSE	Go »
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Bolsa de Valores de Colombia (BVC)	Go »	S NYSE American OpenBook			36415	AMXD	Go »
Bolsa De Valores De Lima (BVL)	Go »	NYSE American Options					Go »
Bolsa Institucional de Valores (BIVA)	Go »	NYSE American Options Complex					Go »
Bolsa Mexicana de Valores (BMV)	Go »	NYSE American Order Imbalances					Go »
Bolsas y Mercados Argentinos (BYMA)	Go »	NYSE American Trades					60 >
Bolsas Y Mercados Espanoles (BME)	Go »	The second fraces					00 2



If you have administrative rights, you will have the ability to administer both the products used and licences held by your firm. Click the 'Admin' tab from the PEAR menu - you will be presented with a similar screen to the below:

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A2X Markets AxonFS Licences Products Vendor Codes			
Exchanges All Exchanges •			Export 💆
Licence Name	Exchange Name	Licence Type	Date Changed
Distribution Licence	A2X Markets	External Redistribution	
Non Display Licence	A2X Markets	Non Display	2020/02//06 10:04:44
NEO Exchange Listed Securities - Non Display Analysis Usage - NEO-D	Aequitas	Derived Data, Non Display	2019/09//25 09:31:26
NEO-D Distribution	Aequitas	External Redistribution	
NEO NEO-L Distribution	Aequitas	External Redistribution	
Other Traded Securities Distribution - NEO-L	Aequitas	External Redistribution	2020/03//05 20:04:20
ATHEX & CSE Securities Annual Licence - ATHEX Member	ATHEX Group	Direct Access	
ATHEX & CSE Securities Annual Licence - Subvendor	ATHEX Group	External Redistribution	
ATHEX Bonds Annual Redistribution Licence Fee - Pre-Trade	ATHEX Group	External Redistribution	
ATHEX Futures Non Display - Internal Redistribution	ATHEX Group	Derived Data, Non Display	
ATHEX Securities & Derivatives Non Display - Internal Redistribution	ATHEX Group	Derived Data, Non Display	
ASX - Non Display Fee (Enterprise Licence)	Australian Securities Exchange	Non Display	
ASX 24 - Non Display Fee (Enterprise Licence)	Australian Securities Exchange	Non Display	
ASX 24 Delayed Display	Australian Securities Exchange	External Redistribution	
ASX End of Day (EOD)	Australian Securities Exchange	External Redistribution	•

You will see 4 tabs within the Admin area of PEAR – Company (name of your firm) Licences, Licences, Products and Vendor Codes.

In the initial view (as above), you will be presented with a list of licences your firm currently holds. It is possible from this view to remove any licences you hold by selecting 'Edit' and unticking the licence(s) you want to remove. Changes will not be reflected until you select 'Save' once in edit mode.



Next, if you click the 'Licences' tab, you will see a screen similar to the below (please note, that the exchange at the top of the Exchange list will be selected by default).

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PEAR HOME ANNOUNCEMENTS VENDOR NOTIFICATIONS REPORTS	WHAT IF	F? ADMIN				1-
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Exchange: Search Q Reset	Lic	ences	Search	All Licer	nce Types 🔹	
A2X Markets	Ma	arkets	All Markets r	All Prod	lucts	*
Abu Dhabi Securities Exchange		Edit				
Aequitas		Licence Name	Licence Type		Licence Fee	
Amman Stock Exchange	0	Derived Data Licence	Derived Data		0 ZAR per month	Θ
Aquis Exchange	0	Non Display Licence	Non Display		0 ZAR per month	0
ATHEX Group		rion Display Electroc	i ton Display			
Australian Securities Exchange						
B3 (formerly BMFBOVESPA)						
Bahrain Stock Exchange						
Boerse Stuttgart						
Bolsa de Valores de Colombia (BVC)						
Bolsa De Valores De Lima (BVL)						
Bolsa Institucional de Valores (BIVA)						
Bolsa Mexicana de Valores (BMV)						
Bolsas y Mercados Argentinos (BYMA)	-					



In our example, we will select the London Stock Exchange Group. Then we will select the London Domestic Market and External Redistribution 'Licence Type'. In the screen below you can see that we currently hold the UK Level 2 Redistribution Licence for External Distribution. Again, using the orange tick icon identifiers we can see that included in our UK Level 2 Redistribution Licence is the external distribution licence for UK Level 1, as well as others.

From this view, you can add/remove licences by selecting 'Edit' and ticking/unticking the licence you want to hold/remove. Changes will not be reflected until you click 'Save' once in edit mode. Moreover, there is also the option to filter licences by either using the search option below by typing in the licence name or by selecting to filter licences by either the Licence Type and/or at the Market and/or Product level.

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London Stock Exchange Group AxonFS Licences Products Vendor Codes			
Exchange: Ise Q Reset	Licences Search	Licence Type External Redistril	bution 🔻
London Stock Exchange Group	Markets London Domestic Market	Products All Products	Y
	Edit		
4	Licence Name	Licence Type	Licence Fee
	Level 1 After Midnight Data Redistribution Licence	External Redistribution	4,705 GBP per year
	Level 1 Delayed Redistribution Licence	External Redistribution	4,705 GBP per year
	Level 2 After Midnight Data Redistribution Licence	External Redistribution	10,691 GBP per year
	Level 2 Delayed Redistribution Licence	External Redistribution	10,691 GBP per year
	London Stock Exchange Level 2 Private Investor Enterprise	External Redistribution	300,000 GBP per year
	Pager & GSM Phone Redistribution Licence	External Redistribution	4,705 GBP per year
	PDA over GPRS networks Redistribution Licence	External Redistribution	4,705 GBP per year
	Per price request Level 1	External Redistribution	4,705 GBP per year
	UK Level 1 ATP Raw Data	External Redistribution	28,139 GBP per year
	 UK Level 1 Private Investor Redistribution Licence 	External Redistribution	7,627 GBP per year
	O UK Level 1 Redistribution Licence	External Redistribution	29,315 GBP per year
	UK Level 2 ATP Raw Data	External Redistribution	70,352 GBP per year
	UK Level 2 Private Investor Redistribution Licence	External Redistribution	12,311 GBP per year
	O UK Level 2 Redistribution Licence	External Redistribution	53,454 GBP per year
	LIK Post Trade Data Redistribution Licence	External Redistribution	22 426 CBB per vear



Next, we will view the 'Products' tab, click on 'Products' - you will see a screen similar to the below. Again, like the home page of PEAR and the licences view, we can see that we currently hold the following product as identified by the green tick icon: *UK Level 2* and included in our subscription are *UK Level 1* and *UK Post Trade data* products as denoted by the orange tick icon. Please note: *TRADEcho – LSE* which is included with UK Level 2 is not displayed in this view as we have filtered by the *London Domestic Market*.

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PEAR HOME ANNOUNCEMENTS VENDOR NOTIFICATIONS REPORTS	WHAT IF? ADMIN				1
London Stock Exchange Group AxonFS Licences Products PDP Codes					
Exchange: Search Q Reset	Product:	Search	Q By All	Markets London Domestic Market	 Product Subscribed To Included in Subscribed To
A2X Markets	Edit e < 1 > >				Real Time O Delayed
Abu Dhabi Securities Exchange			Thomson Reuters		Bloomberg
Aequitas	Description	Exchange Code	PDP Code	EID	Mnemonic
Amman Stock Exchange	O UK Level 1	LM1	LSE1D	14014	UK1
Aquis Exchange	O UK Level 1	LS1	LSE1D	14014	UK1
ATHEX Group	O UK Level 2	LM2	LSE2D	14076	UK2
Australian Securities Exchange	OUK Level 2	LS2	LSE2D	14076	UK2
B3 (formerly BMFBOVESPA)	OUK Post Trade data				
Bahrain Stock Exchange					
Boerse Stuttgart					
Bolsa de Valores de Colombia (BVC)					
Bolsa De Valores De Lima (BVL)					
Bolsa Institucional de Valores (BIVA)					
Bolsa Mexicana de Valores (BMV)					
Bolsas y Mercados Argentinos (BYMA)	•				

Similarly, to the licence editor, here you can add/remove products by selecting 'Edit' and ticking/unticking the product you want to hold/remove. Changes will not be reflected until you click 'Save' once in edit mode. Again, there is also the option to filter products, by either using the search option below by typing in either the product name, Refinitiv Exchange code or PDP code, Bloomberg EID or Mnemonic, MIC or Operating MIC, or to select a Market.



Admin - Licence Picker What If Example

One of the features of the licence picker is the ability for firms to generate a cost-calculation based on products and licences that are specific to them, by excluding costs for licences held by the firm. Click the 'What If?' tab from the PEAR menu. In this example, we have selected the following for our query inputs (please note, in our example, we currently subscribe to the *UK Level 2* product:

- 1. Data Timeliness: Real Time | Search Type: Search using Product Wizard
- 2. Exchange: London Stock Exchange Group | Data Level Filter: Level 1 and Level 2 Full Depth
- 3. Product: UK Level 2 and UK Level 1
- 4. Usage of Data: Display

5. Display Type: External | User Types: Professional | London Stock Exchange Group Options: Non-Member | Number of Users: 20 | Calculate cost in: GBP Below are the results from the 'What If' query. In this example, you can see that the calculations exclude the licences that we currently hold. Additionally, the hierarchy within PEAR has calculated that *UK Level 2* data charges only apply, as *UK Level 1* is included in Level 2.





PEAR Application × + _ o × 🖈 🛫 🚳 🧕 🗿 🗄 HOME ANNOUNCEMENTS VENDOR NOTIFICATIONS REPORTS ADMIN 1.-PEAR C Restart < Back ▲Save Query 🗟 Export Total: GBP 7,712.83 Users: rrent Price Per Month Data Charge Results Product Subscril Included in Subs Product Timeliness Monthly Cost (GBP) Exchange Price **Fee Type** London Stock Exchange Group GBP 3,367.00 0 UK Level 2 GBP 168.35 per month Non-Member Real Time O O London Stock Exchange Group UK Level 1 Real Time GBP 0 per month GBP 0.00 Non-Member Licence Held Licence Fee Results Included in H Exchange Licence Name Price Monthly Cost (GBP) 0 London Stock Exchange Group UK Level 2 Redistribution Licence GBP 52,150.00 per year GBP 4,345.83 9 9 0 London Stock Exchange Group UK Level 1 Redistribution Licence GBP 28,600.00 per year GBP 0.00 London Stock Exchange Group UK Level 2 ATP Raw Data GBP 68,636.00 per year GBP 0.00 9 9 0 London Stock Exchange Group Pager & GSM Phone Redistribution Licence GBP 4,590.00 per year GBP 0.00 0 0 London Stock Exchange Group PDA over GPRS networks Redistribution Licence GBP 4,590.00 per year GBP 0.00 0 London Stock Exchange Group UK Level 1 ATP Raw Data GBP 27,453.00 per year GBP 0.00 London Stock Exchange Group Per price request Level 1 GBP 4,590.00 per year GBP 0.00 Exchange Rates

It is also possible to select the licence you currently hold to be included in the total cost calculation, as below:

Again, as we have selected the UK Level 2 Redistribution Licence, the UK Level 1 Redistribution Licence will remain excluded from the total cost calculations as it is included in the Level 2 licence.

