Basic Analyses on the set up of a Database

Chart of account

1. Do you need a detailed chart of account for the accounting purpose?
2. Concerning the securities held in the above fonds, do they need to be detailed (i.e. Equities, UCITS, Fixed Bonds, Floating Bonds, Variables Bonds…)?
3. Is there any Tax regime for the dividend or coupons?
4. How many charts of accounts does the client need, are they different for Equity funds, pension funds, Private equity, Properties Funds…?

Outbound of Data (Interface)

1. What kind of information is needed to get out from the accounting platform for the clients or other applications used by the client (ie Statpro), for regulatory?
2. How many reports are required by the clients?

Inbound of Data MFGA

1. How are the transactions feed in the accounting platform (By flat files, swift, manually by the accountant…)?
2. How is the pricing done on those securities in the funds globally per instruments or, specifically by funds
3. Concerning the securities creation, what is in scope, manual creation or automatic creation?
4. Creation of new funds done Manually or automatically?
5. Corp Action processing auto or manual?
6. Do you use yield curves for security?

Funds characterises

1. Accounting methods → **Average**, FIFO, HIFO, LIFO…?
2. Any specific valuation for Bonds for example Amortised cost, Linearization or any specific valuation or only Mark to Market valuation.
3. What are the specific taxes they will use? CGT(Capital gain Tax) tax? Gail and Loss tax? Any Bond Tax? Etc
4. For the subscription & redemption, what date unit NAV you will use the calculation of the amount?
5. What Type of fund structure is managed by the client (Multimanager, Segment/Master, Look through structure…)

Migration process

Securities

1. Do the funds hold OTC's(Over the counter) and ETD's (Exchange traded deals) like Swaps, futures, Options, FX
2. How any positions are held by the different funds?

3. What ccy's are needed for those funds?

Nav calculation

1. Do you have daily, monthly, quarterly nav calculation?
2. What kind of performance fees they are using (High water mark, Benchmark, Absolute performance…)
3. Do they have a list of all kind of fees like admin fees, financial fees, taxes…

Concerning the SaaS requirement

The hosting of the platform

1. Can the platform be deployed in Europe (Luxembourg) with a vpn access or does it have to be deployed in SA?

Can you share PIC's targeted IT Architecture / Operating Model?
What is the total number of holdings (explanation of the "holding" term from our perspective: if you have the same bond in 3 pension funds we would count that as 3 holdings)?
You provided the minimum number of daily transactions, could you please also provide the daily maximum number of transactions?
Please elaborate what the extensive data processing needed includes. Does this question concern high volume data processing capabilities, interfaces, data management or data warehouse functionalities?
Normally the front office system (CRD) would manage orders and the BO system (Listed Investment Management solution/HiPort) would handle executed orders/allocations and send these to the BO system as transactions. Please explain what kind of management of orders that should be supported by the BO system?
Related to question above - if orders have to be supported please state daily average and peak of orders to be handled.
BR1.4 asks about the capability to integrate, BR2.56 asks for support of investment risk monitoring and performance measurement. What is the scope for the tender? Should performance attribution be supported by StatPro or the Listed Investment Management system or both?
Is the scope for the tender to replace StatPro?
Is PIC a SWIFT network member? Should the software support SWIFT based communication with the custodians?
In case of SWIFT, is already MX in use or MT? If yes, for which message types?
How many custodians are in use? Which ones?

The system is required to "perform automated corporate actions" process. We see two potential corporate action workflows (described below). Please confirm which of the following should be part of the future investment management solution.
 	
1. Do you expect a comprehensive workflow including e.g. the following steps:
• The data scrubbing of a SWIFT message to get a Golden Copy (MT564);
• The publication of the silver and golden records and creation of the corporate action event
• The view of "Eligible Positions" impacted by the event plus "what if" analysis on voluntary options or the application of standing instructions/decisions;
• Generation of corporate action transactions for events without a choice and additional steps for choice/elections events
   - The creation and saving of "Elections" by the portfolio manager;
   - Netting and messaging capabilities informing the custodian of the portfolio manager's decisions, including instruction generation (MT565) and settlement notifications (MT566); and
   - The automatic generation of an "Entitlement" per election on a per holdings basis.
 	
2. Or is the approach more simple with the following steps:

What is the source (and how many) for corporate action data and in which format (e.g. SWIFT or not)
Is scrubbing for Corporate Action data done upstream (i.e., are only so called 'Golden' records imported)?
What price sources is currently used? Please provide a description of the scrubbing rules required.
As you state "not limited to" - should Credit Default Swaps be included in the offer?
As you state "not limited to" - should Commitment-based Alternative Investments be included in the offer?

As you state "not limited to" - should Repos be included in the offer?
As you state "not limited to" - should Security Lending be included in the offer?
As you state "not limited to" - should Inflation Linked Swaps be included in the offer?
With regards to the Collective Investment Scheme(CIS) capabilities - please state total number of NAVs to be calculated (number of funds).
With regards to the Collective Investment Scheme(CIS) capabilities - what fund types are those (Single fund, multi-class fund, fund of fund, pooled fund)?
What is the expected number of mandate driven limits? Does this also include limits with regards to Regulation 28 and CISCA?
What is/are the general data source(s) for security master data?
What is/are the general data source(s) for securities prices?
What is scope with regards to collateral management? - Passive Collateral Management where the collateral management is done externally, and the changes are imported in the system or - Active Collateral Management where the system should do the daily valuation, create and submit margin calls
Do you already have a 3rd Party Reporting or BI Tool in use? If yes, which tool?
Do you use a data provider to receive information about sanctions? If yes, which provider?
Generic question
Generic question
Generic question
Generic question
Generic question
BR1.2

| BR1.5 |
| BR1.11 |
| BR1.12 |
| BR1.13 |
| BR1.14 |
| BR1.20 |
| BR2.7 |
| BR2.12 |
| BR2.22 |
| BR2.29 |

BR2.44	
BR2.45	
BR2.46	
BR2.49	
BR2.64	
BR2.67	
BR2.72	
BR2.75	
BR2.81	
BR2.89	
BR2.91	
BR2.92	
BR2.100	

BR2.105

1. We have a question regarding Annexure B – Non Functional Requirements, **NFR1.17** - **The solution should be compliant to privacy regulations including but to not limited to POPI, GDPR etc.**

Typically, our clients do not store "sensitive client level information" within the Eagle platform.

Could you please clarify the specific datasets that you are planning to store on the system, where you think you will be concerned about hitting the POPI/GDPR etc?

General Section
Security Master
Event type coverage
Event related volumetrics
Entitlements related volumetrics

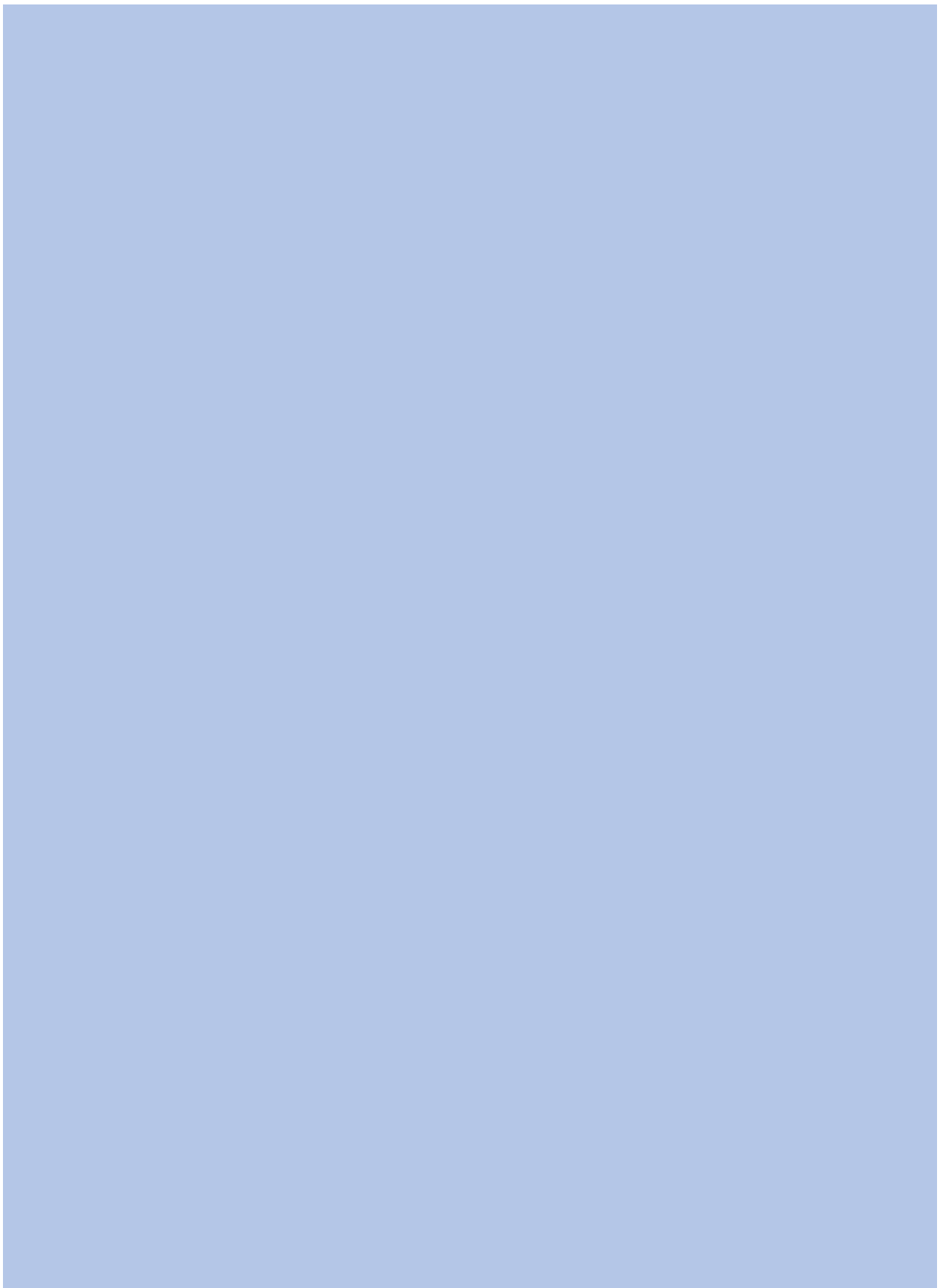| Downstream systems |
| --- |
| Asset Classes |
| Client Profile |
| Application Instances |
| Conversion and Migration |
| Archival |
| Volemtric |

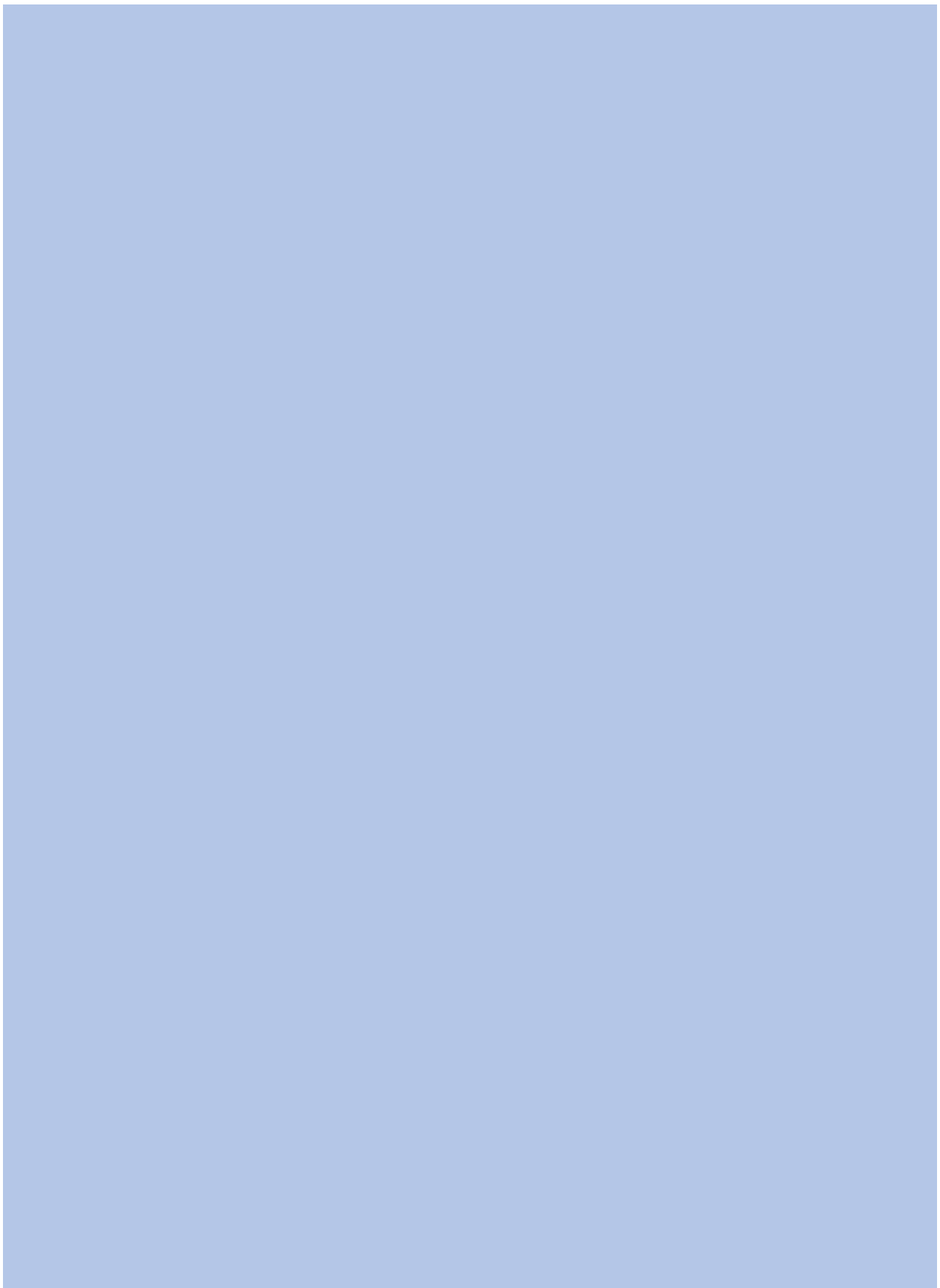| |
|---|
| BR2.30 View embargoed stocks(Including embargo dates, reason and upliftment dates) |
| BR2.44 Show the terms and conditions per instrument |
| BR2.45 Handle tangible collateral types, market and book values |
| BR2.89 Provide capability to move maturity brackets of securities |
| BR2.90 Provide functionality to set up and automatically reclassify securities based on their maturity dates |
| BR2.92 Automatically create Money Markets |
| BR2.97 Derivatives (Options, Futures, Swaps, Collars, Collaterized Loans etc) |
| BR2.97 Derivatives (Options, Futures, Swaps, Collars, Collaterized Loans etc) |
| BR2.98 Provide capability to perform automated price scrubbing and market price validation |
| BR2.102 Offer cash management capbilities including but not limited to : Cash Pooling, Projecting and Treasury etc |

BR2.103 "Offer Collective Investment Scheme(CIS) capablities such as : •Fund of fund structures, •Multi Management structures •NAV pricing and Unitisation •Capital/income pricing •Distributions •Liability book management(Unit Creation/cancellation"
Generic
Generic
Generic
Generic
Generic
TR7.12 The solution is expected be provided as a SaaS on a Private Cloud with option for 24/7 service delivery and support
NFR2.30 The solution is expected to align with PIC cloud computing policies, standards and procedures

NFR2.16 The solution should be used locally in South Africa with business English language.
Pricing : Other PIC Services (add a row for each category)
BR 1.3 Ability to create portfolio with large and complex models).
BR 1.4 Capability to integrate with performance management system for intraday P&L and daily performance attribution.
BR 1.14 Handle extensive data processing needed to support investment management processes.
BR2. 20 - Support for intraday P&L and daily performance attribution
BR2.24 Cater for time series data.
BR 2.33 Provide capabilities to perform standard instrument valuations.
BR 2.56 Support for Investment risk monitoring and performance measurement & attribution.
BR 2,82 Provide capability to create portfolios covering various portfolio levels" .
BR 2.95 Perform automated sector and security bands movements"
BR2.49Automatically flag when a TRP(Take Over Regulatory Panel) report is required
BR1.3 Support for construction and modelling of large and complex portfolios
BR1.13 Automatic alerts every time there is a violation
BR2.37 Generate portfolio reporting and/or integrate with BI tools
BR2.39 Provide capability to perform database audits
BR2.45 Handle tangible collateral types, market and book values
BR2.108 Offer full integration with PIC solutions in order to manage market flows, static data flows, investment transaction flows and trade execution flows etc.

4.1.6. Data Migration
4.1.6. Data Migration   Data Quality Management
BR2.99Perform automated cash and scrip reconciliations
BR2.83 Provide capability to automatically create and maintain securities in line with the stock exchanges that the PIC trades in

Generic question	Could you please provide the asset classes in scope, instrument types and the associated daily volumes per instrument ?
Generic question	Could you please provide the current system landscape and a diagram with the interactions you foresee for the future system implementation ? Please include in your response the needed integration with external parties such as but not limited to custodians, fund administrators or valuation agents (if any).
Generic question	Could you please provide the structure of the funds you manage ? We foresee in the supporting document to the RfP that funds are managed for the Government Employees Pension Fund (GEPF), Unemployment Insurance Fund (UIF) and Compensation Fund. Are these the three funds you manage ? If not could you please provide the number of funds you monitor ?
Generic question	Please provide the breakdown of the users' number between the various groups (FO, MO, BO, Accounting, Reporting ...)
Generic question	How many collateral agreements do you have? What type (CSA, GMSLA, GMRA)?
Support for Cash Management capabilities	Could you please detail the scope of Cash Management you foresee in the target solution ? Please explain the current systems and interactions in place.

Capability to integrate with current trading platform(e.g: Charles River)	Please clarify the scope of the current trading platform. How do you foresee the target system integrating with the Trading platform ? In terms of Orders management, execution fills etc. ...
Support for a seamless and efficient trading workflow	Is this question in relation to a replacement of Charles River ? Please explain flows exchanged between the target Listed Investment solution and the Charles River
Support for settlements and cash reconciliations	Please provide the current architecture around Reconciliations support and the format of files used for this task.
Automatic alerts every time there is a violation	Please provide the list of violations required: market price off market, compliance rule breached, others ?
Handle extensive data processing needed to support investment management processes	Please provide full list of data to be supported in this question
Support for various regulatory and accounting standards	Please provide the regulations and standards you would like the future solution to compy with
Handle price derivatives	Please elaborate on the question. Which kind of derivatives would you look at managing in the target solution ? Please provide a list and number of daily trades
Solution must provide capability to capture and link codes at a geographic level(country, region) for South Africa and International	Please clarify the question with an example to understand the link type.
Provide P&L capabilities must be linked to bank accounts and related instruments	Please elaborate on the question.
Cater for corporate actions	Could you please explain the current proces you have with regards to Corporate Actions ? (data feed, communication with Custodians, manual vs. automated process, etc. ...)

Show the terms and conditions per instrument	We understand "terms and conditions" as the static definition of an instrument (including currency, calendars, date convention, flows schedule...). Is our understanding correct? If not please elaborate
Handle tangible collateral types, market and book values	Please elaborate on the question.
Store debt impaired amounts per instrument	Please elaborate on the impairement process you have in place? Please describe what type of impairements you have (incurred vs. expected)?
Automatically flag when a TRP(Take Over Regulatory Panel) report is required	Could you confirm if you are receiving such information automatically and under which format ?
Calculate the 1 Month, 3 Month, 6 Month, 9 Month and 12 Month rates	Please clarify which rates this question is referring to ? Is it at the level of the rate curve itself (calibration, interpolation) or at the level of the trade (automatically compute the rate based on the trade details such as maturity, currency...)?
Comply with various stock exchange formulas such as the JSE Gilt Clearing House Bond Valuation formula	Besides the BESA bond pricing, can you list other stock exchange formulas that need to be complied with ?
Provide capability to define and maintain sector maturity ranges	Please clarify what you mean by "sector maturity ranges"
Automatic interest table update functionality	Please clarify the scope of the question. Which interest table ? Is it linked to bond cash flow schedule e.g. or is the question for a different purpose ?
Provide capability to show, in a valuation report, which client a portfolio forms part of through the use of using a portfolio groups	This question is not clear to us ; do you currently have a constraint between the notions of client and portfolio ? Could you precise the meaning of client in your business context ?
Provide capability to move maturity brackets of securities	Please clarify what is a "maturity bracket of security"
Provide functionality to automatically create instruments	Please precise what type of instrument should be automatically created. Does this also include bond static data import from external referentials ?
Automatically create money markets	Please clarify what you mean here by "create money markets" and purpose (hedging purposes...)?
Enable the PIC to capability to perfomr tracde confirmation, mtaching and settlements	Please detail the confirmation types in scope. Also, which matching platforms would you connect to ? Is Omgeo CTM connectivity in scope for instance ?

Offer streamlined, realtime and intergrated General Ledger(G/L)	Could you please provide the name of the GL you have today in place ? Since the target solution will be covering a portion of your investment activities (for instance excluding Private Equity, Real Estate among others), can you please elaborate on the reasons for looking at a new GL with the target solution and if this GL would be your sole GL and thus, cater for Accounting for all activities PIC invests in ?

1	Please indicate total number of backoffice users required to access the CA backoffice processing system.
2	Please indicate, the number of markets (countries) other than South Africa for which Corporate actions announcements will need to be processed?
3	Total number of securities for which Corporate Action event would be processed(SOI)
4	**Please choose the types of event that you would like to process from t**
	P&I Events - Events on fixed income securities e.g. INTR, REDM, PCAL, PRED, MCAL
	Distributions (Mandatory & Choice) -e.g. Dividends
	Corporate Actions (Mandatory Events) - e.g. Stock splits
	Corporate Actions (Voluntary & Choice Events) - e.g. Tender, Merger
	Proxy or Meeting events
5	**Please provide the Announcement Volumes information**
	Average number of incoming announcements to be processed in a year
	Peak number of announcements to be processed in a day
	Average number of events created each year
	Peak number of events created in a day
6	Average number of accounts that are impacted by a single event
	Peak number of accounts that can be impacted by a single event
	Approximately what % of your total yearly events volume can be impacted by peak load (i.e. peak number of accouts or peak number of trades)
	In case of voluntary events please state average number of client elections per year
	In case of voluntary events please state peak number of client elections per day
	What would be the %age growth trend with respect to business volumes?

7	Who are your current events data sources ? Please include data vendors, Custodians, Market sources (e.g. DTCC, CREST) etc and their format.
8	What are the asset classes in scope for the solution ; Equity, Fixed Income, Derivatives- Stock Options & Futures , Currency Options & Future, any other ?
9	Please indicate the respective weight of the client in scope for the solution per profile: (% of number if possible)
10	How many uniform platform instances (single instance servicing multiple countries) are in scope for the solution
	Are there regulatory requirements on data maintenance within country for any of the entities in scope
11	Please indicate the different legacy Investment Accounting/back-office platforms which will need to be converted from for each business area
	Please mention the areas (e.g. Client On boarding, Security Master) for which data cannot be provided in TCS BaNCS standard templates
	Please specify the size of the DB for the legacy system to be migrated
12	Please confirm the retention Period for Archival.
	Please confirm total number of - clients - securities accounts - Securities (breakdown by asset classes wise) (with breakdown by type retail, institutional) for each legal entity
	Please indicate total number of securities (with breakdown by asset class e.g. Equities, Fixed Income, etc.) currently in the Securities and Prices Master Data system.
	Please indicate the peak and average transaction volumes for **each business area in scope (listed against 'Active Users' in row above) in terms of** • Transactions (e.g. Trade executions, orders, Fund/CIS subscriptions) • Payments • Sweep-In • Daily files • Daily messages

	Please specify average retention period of production system (for data archival)
	Please share percentage growth rate with respect to user and transaction volumes
14	How the data expected to be recorded in system ? Will there be any data provider for such information, where STP is required with or will it be handled manually ?
15	Kindly provide a brief scope overview.How does the terms & conditions at instrument level effect the trade & processing of the same?
16	Is the collaterlas processing related to securities lending or Loans against securities?
17	Kindly provide a brief scope overview. Is the expectation of mass update ?
18	Kindly provide a brief scope overview. Is the expectation of mass update ?
19	Please elaborate the business requirements and expectations from the solution
20	Derivatives -Are these Exchange Traded or OTC? Please elaborate the processing requirements
21	Collaterized loans - Are these Repo/Reverse repo transactions? Please provide more details of the requirement
22	In Price scrubbing, are you expecting Algo Trading ?
23	Please elaborate the business requirements and expectations from the solution

24	1. What are the volumes of such funds of funds structures for which NAV pricing has to be done ? 2. Are all these funds of funds daily priced by PIC or some are weekly /monthly dealing as well ? 3. What are the settlement cycle for these funds of funds. 4. How are the subscriptions/redemptions being received in these fund of funds- Via a file or manual orders at back office. 5. Do these funds of funds allow switch transactions as well. 6. What are the various fee types applied on these funds like Management fee, performance fee any other ? 7. Are the funds forward priced or backward priced. 8. Is it master and feeder structure (fund of funds case),pls provide an example. 9. Are the funds of the organisations distributed into a portfolio structure established for them by PIC. 10. Does PIC computes NAV for the portfolio structure established or it is done only for the collective schemes. 11. What is the daily max volume of Subscription/Redemption and expected growth in next 10 years ?
25	Kindly provide a brief scope overview of Corporate actions activities by PIC.
26	What sources for sending Announcements feeds are in scope? Which are the typical data formats used/will be used by the vendors/ sources to send CA Announcement feed to PIC?
27	Is the Swift based communication (e.g. ISO 15022/ISO20022 based messages) incoming and outgoing in scope
28	Are Tax reporting arising out of Corporate Actions in scope? If yes, which are these reports?
29	Is a channel in scope for Clients response on elective Events?
30	What is the cloud deployment option and preference of cloud provider? What is the preferred Private/Public ?
31	What are the PIC cloud computing policies? Please share the detailed document covering PIC cloud computing policy.

32	In case if preferred cloud provider isn't available in SA then what should be the target region to provide services?
33	Please specify what are the other PIC services its referring to ?
34	As a sovereign Fund, we understood that PIC manages different customer assets. How they create customer portfolios? It looks most of the investments are under discretionary of PIC. In such case, whether PIC will launch schemes for different risk profile and investment strategy to offer their clients to subscribe or Is it one to one customer portfolio?
35	Looks like PIC have Performance engine which will take care of the computation and requires to connect for intraday valuation. In such case, do PIC require a performance engine as part of the scope of this RFP or only need to feed the data to the existing system? Is startPro is being already used for Performance and Attribution? Is it already integrated with HiPort systems?
36	Need to understand what is the expected data processing under Investment management?
37	Understanding is to notify the unrealized gain /loss based on intraday MtM valuation in currency terms. Pl confirm.
38	Need certain examples for better understanding of the requirement and is it expected to interface directly with data provider?
39	Does it relates to instrument level return on investment or Fair price valuation / MTM valuation, XIRR and MM valuation for a chosen period?
40	How this is different from BR 1.4 above?.
41	Requires clarification on expected portfolio levels?
42	Requires more information on this item for better understanding.
43	Requires more information on this item for better understanding.
44	Is there a separate system for Investment Strategy, Investment Objective, Fund Manager ?
45	Is there a need to send the alerts via email / SMS / WhatsApp?
46	Is there any Licensed BI Tools being used?
47	Is there a need for Front end DB Audit reports?
48	1. What are the type of Tangible Collateral type being used?. 2. Is there any collateral Management system being used? 3. What is the current valuation methodology for the tangible collateral, PIC follows?
49	Is there a existing application landscape for better understanding?

50	1. Is there any ETL tool License being used? 2. Is there any Data lake / DW Platform being used?
51	What is expected from Data Quality Management? Any data cleansing or Data Governance to be considered?
52	1.What are the distinct feed formats which need to load to recon system (csv, txt etc) 2.Any auto recon solution currently in place 3.What are the pain areas with respect to reconciliation (manual / automated)?
53	1. How are the pension funds corpus is invested? Do we create institutional portfolios for each of the pension funds , or for each member portfolios are established and invested? 2. How are the investment mandates received by PIC for investments? Are the investment mandates provided at each pension fund level or at member level? 3. The investment mandates received by PIC (from pension funds) are at asset class or asset category level or defined at asset (to be invested)level ?

Responses
Yes it does.
Yes it does.
Yes
Ideally one inclusive
Transaction file, Cash file, Holdings file, total assets file,securities file, risk file, and static data file
Basic set of accounts (TB, Financial position, Cashflow, etc.)
Combination of these
Per instrument
We would like automatic creation of listed securities
Currently its manual. Automation of the process is required.
Both
Yields curves and price
Weighted average
MTM and Amortised cost
CGT
Historic - Segregatted funds. Forward - Unitised portfolios
Mainly segregatted with underlying funds propogation. Fund Of Funds structure capability.
Yes they do.
It varies between funds. Two cliet portfolio holds positions accross the developed and emerging markets.
See above
All
Standard market fees
The platfrom can be deployed anywhere, as long as it meets the requirements of the PIC; especially Legal and Information Security aspects.

No. Kindly provide a specific question in this regard. Overall the PIC has a hybrid and multi-cloud technology landscape.
Very big
Transaction flows are spread throughout the month, as and when actioned but usually peaks around month/quarter end (portfolio rebalanced).
Yes it does.
Listed in requirements
Transaction flows are spread throughout the month, as and when actioned but usually peaks around month/quarter end (portfolio rebalanced).
Performance and attribution will be performed by StatPro using data coming from the Investment Management system.
No, the scope is to feed Statpro with data direct from the Investment management system with no or minimal interfacing
The software should support SWIFT based communication.
No swift yet
Multiple Custodians (What is the relevence of this question?).
1.Yes
Custodian feed/file
Should be included in solution
IRESS, Bloomberg
Yes
Yes

Yes
Yes
Yes
Small initially with capability to upscale
Small initially with capability to upscale
What is the expected number of mandate driven limits? - The total number is not available. It is dependent on Fund specific mandates. Does this also include limits with regards to Regulation 28 and CISCA? - Yes
The JSE is the primary source of the Static data master file
Charles River, Standard Bank SA, Standard Chartered and BNY Mellon,JSE, SMP & Moodies, Bllomberg, Barra and FactSet, Inet.
Initially passive with scope for active
No
There are probably around 10,000 instruments (including Offshore exposures).
The PIC's system landscape will be provided to the winning bidder. Bidders are however expected to provide solutions that are able to intergrate with various solutions in the investment management space.
Currently we manage about 18 Gunds which have sub portfolios. Those funds including their sub portfolios are in multiples of hundreds
Approximately 50 users. Apply a 1% annual growth
<10 GMSLA
Cash securitization would be ideal for StatPro data feed

We required STP from CRIMS to the proposed system for all relevant hand-shakes in relevant business processes.

Orders, trades, pricing and other static data, etc.

MS Excel spreadsheet. CSV, XLS

Given that the PIC is the largent investor on the JSE, it holds significant shareholding in most of the listed securities. The are sensitive industry securities which we hold and which we need monitor closesly as we need to obtain regulatory approvals. Example Banks, we need obtain approval from the Authority if we cross the 15% threshold.

All data that will be supported by the system to be proposed. A list cannot be provided; key to this requirement is the capacity for the system to handle processing volumes.

It is dependent on the jurisdiction where the security we hold is listed.

Equities:
• Forward Contracts
• Futures
• Options, and
• Exotic Options limited to Asian Options

Fixed Income
• Interest Rate Futures
• Forward Rate Agreements
• Swaps
• Money Market Futures; and
• Options.

Traded on an adhoc basis.

Enable MIS reporting, ability to slice and dice info by region, cuntry.
Example - Whats my equity or overall exposure to West-Africa?

Standard portfolio valuations including notional cash positions (many portfolios traade out of one physical bank account).

Custody feed (auto and manual). Ideally solution will have CA scrubbing capabilities included.

This refers to 1.type of instruments, e.g Bond, Equity, Money Market 2. Maturity date 3. Interest rates. 4 Payment dates 5. Inception date etc.

Thses includes collaterals processing related to securities lending or Loans against securities

Both. Impairement, reversal thereof and archive history of impairments for MIS reporting purposes.

The TRP report would be produced out of the system and woould be dependent on the results/alerts produced from the system

This refers to the interpolation of the money market yield curve.

The solution should be primarily able to price bonds using the BESA bond pricing formulas, the solution should have the ability to incorporate other stock exchange formulas

Money market and Bonds securites are clasidied in maturity ranges. e.g (9 to 12) range. After 3 months those securities need to reclasified to (6 to 9) range. We would like that process of reclassifying to be automated.

This is more for the floating rate notes. Their interest rates are revised/changed ussualy after 3 months. When these securities are created, their interest is linked to a table which is currently maintained manually.

Client refers to funds on whose behalf the PIC invests.
The requirement is that the solution must be able abe to produce valuation reports linking portfolio's to the correct clients and vice versa.

Maturity brackets are the same thing to Maturity ranges om BR2.72 above

This refers to mostly the listed instruments and yes this should include bond static data.

Currenly the money markets are initiated on Charles River and replicated manually on Hiport. Automation part would be for these maoney markets to automaticaly flow through to the accounting system/solution.

Yes

	One intergrated/streamlined GL required. Ability to consolidate solutions own numbers with those of other solution to become the Accounting Book Of Record.
	All data pertaining to our clients, PIC listed investments and all related transactions.
	Minimum of 50 users
	Rest of Africa, Emerging and Developed Markets
	The Finance team manages the corporate actions within the various portfolios. These corporate actions are governed by the exchange.
he solution	
	The solution should cover all these
	Low volumes initially but wil increase as more functions broght In-house (Global trading, etc.)
	1%

	Standard Bank SA, Standard Chartered and BNY Mellon, Barra,DW,Cognos,MDA,Statpro,Willshire,Factset,Charles River
	Equity, Fixed Income, Derivatives- Stock Options & Futures , Currency Options & Future, Loans and Private equities
	Client 1: 88.41% Client 2: 5.69% Client 3: 2.03% Client 4: 1.41% Client 5: 0.78% Other Clients 1.67%
	Single instance servicing the South African company (single site).
	EU and RSA was to ensure alignment to POPIA and GDPR . POPIA is closely related to GDPR . Bidders should be able to demonstrate how they align with POPIA and/ or GDPR standards. Bidder will be expected to commit to PIC during contracting regarding protection of personal information safeguards.
	Primarily HiPortfolio plus the middleware solution (i.e. LINX).
	All data is expected to be loaded in the resultent solution. The formating of the data must be done by the bidder as part of the migration process the bidder is responsible for. The templates will be discussed with the PIC during project implementation to ensure that no data is left out.
	Minimum as 30 GB system/application and 1TB storage
	Permanent
	- Clients - +-25
	There are probably around 10,000 instruments (including Offshore exposures).
	Transaction flows are spread throughout the month, as and when actioned but usually peaks around month/quarter end (portfolio rebalanced).

	Permanent
	Apply a 1% annual growth
	Market data must be automatically loaded in to the solution from market data providers.Hence the need for the system to be able to intergrate with internal and external solutions. Service provider can provider further clarity on the data refered to in question
	Yes
	Yes
	Yes
	Static setup of instrument through external data feed
	Previously answered
	In the listed space, we believe we need to have the security type captured on the system (Government Guaranteed, senior secured, etc.). We might need more context for this question.
	Scrub primary price source data to secondary price source data and report breaks/exceptions
	Multiple portfolios are managed through one physical bank account while the solution/system should report one account postion per portfolio which collectively add up to the single physical bank account. Also require auto sweeping of these these multiple portfolio "bank accounts" into one at end of day.

	1. Low 2. Daily mainly, also monthly 3. Equities, bonds & Balanced (T+3) and Money Markets (T+0) 4. Mostly manual 5. Solution should allow ability 6. Standard fees 7. Cater for both (Forward prices mainly) 8. Multiple (Standard FOF structures) 9. Yes 10. Only for pooled 11. Low intially
	The Finance team manages the corporate actions within the various portfolios. These corporate actions are governed by the exchange. Examples of possible corporate actions - https://www.jse.co.za/content/JSESpecificationsItems/JSE%20Corporate%20Actions%20Definitions.pdf
	Currently its CSV, any other formats are required provided
	Yes
	Yes. SA market coverage initially with capacity for (1) Major markets in rest of Africa (2) Developed markets and (3) Emerging markets (easy switch on of functionality))
	Yes
	Private
	PIC policies will be shared with wining bidder. The bidder must ensure that they use cloud computing best practices at a minimum.

	The solution will be used in South Africa, as such the business langauage is expected to be English
	Refer to section 15 of the RFP indicating how the pricing proposal should be structured. The other PIC services indicate any other services that the bidder will provide the PIC with that would need incur costs from the PIC.
	Varies. One-to-one and generic product offering.
	The PIC currently has Statpro but we require a fully intergrated solution.
	The solution must be able to handle Large data volumes.
	?? Answer required not available on the previous questions
	The solution should be able to generate reports that have time series data (e.g. daily cash holdings for the prior month within a specific portfolio).
	These instruments are MTM
	The PIC currently has Statpro but we require a fully intergrated solution.
	The solution should be able to cluster portfolios into a tree structure for reporting purposes.
	The TRP report would be produced out of the system and woould be dependent on the results/alerts produced from the system
	This will be conducted outside of the solution. However, portfolio data shall be sourced from the solution.
	Yes
	No
	Yes
	1 These includes collaterals processing related to securities lending or Loans against securities 2. PIC currently outsources the Collateral management function to Custodian banks but would like to have this functionality include for future usage
	PIC application landscape will be shared at a later stage

	1. No 2. No
	Yes.
	1. XML abd CSV 2. No 3. Manual - The process needs to be automated
	1. Multi-layered/leveled structures as in Fund-of-funds structures. 2. They are provided at client/fund level 3. Asset to be invested in

Performance team

Regulatory Compliance

Regulatory Compliance

Market Risk

Regulatory Compliance

Market Risk

Market Risk

Static Data

Risk teams

Risk teams

Risk teams

Risk teams

Risk teams