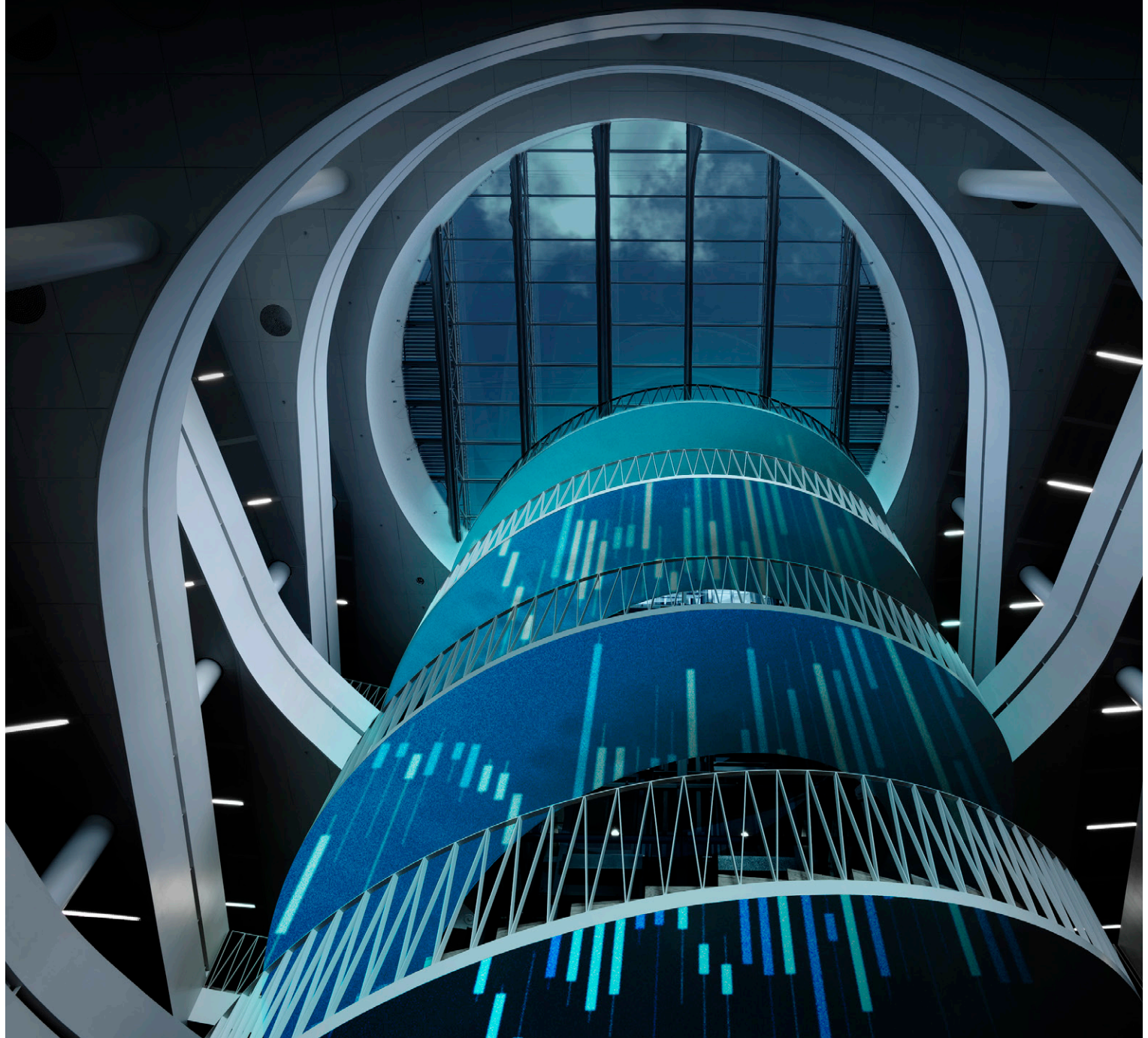




# Portfolio Management

A fully integrated portfolio management  
and reporting solution



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## Saxo Portfolio Manager

### An integrated portfolio management and trading solution for wealth managers.

Saxo Portfolio Manager (SPM) is an advanced portfolio management solution integrated with Saxo Markets' trading platform – allowing wealth managers to manage client portfolios and trade with greater efficiency.

The hosting, back up and maintenance is fully handled by Saxo Markets, which makes the solution highly cost-efficient for the asset manager and very fast to deploy.

SPM has a range of sophisticated features, allowing asset managers, wealth managers and family offices to manage portfolios effectively and provide reporting to end-clients via PDF reports and an online portal.

Rich and broad functionality supports the various needs of portfolio managers, wealth managers, relationship managers and compliance officers to service wealth management clients.

Saxo Markets offers:

- Direct access to create and manage multiple target model portfolios
- Ability to manage multi-asset portfolios
- Risk management and compliance rules across multiple portfolios
- Improved compliance management and audit trail via easy access to portfolio history
- Flexibility to adapt and comply with ever-changing regulatory requirements
- Easy generation of group analytics and management reporting
- Cutting-edge technology with hosting, backup and maintenance outsourced to Saxo Markets. No further investment required
- Online & PDF reports for end-clients and relationship managers

## Saxo Portfolio Manager Features

Saxo Markets' integrated portfolio management and trading solution's key features are outlined in the table below. Read more about the details on the following pages.

Portfolio Management & analysis		Risk & Compliance Management	Client Reporting
Create & manage a variety of target model portfolios		Manage risk effectively on multiple portfolio structures	Out-of-the-box PDF reports easily produced in bulk for all your clients - either ad hoc or according to predefined schedule
Trade seamlessly from order entry to settlement		Alert flags highlight changes in portfolios vs. models	Online portal access for end-clients and relationship managers
Rebalance across multiple clients and portfolios		View Risk Ratios	
Pre-trade allocations and algo orders supported		Manage pre- and post-trade compliance rules	
Simulation model for what-if scenarios		Gain/Loss and performance analysis	
Portfolio consolidation to create an aggregated view		Customised, blended or index benchmarks available	
Easy access to client information			

# Portfolio Management and Analysis

## Manage portfolio characteristics, strategies and model comparisons.

SPM provides an intuitive portfolio management platform. It offers customisable and accurate portfolio analysis, block trading and bulk/ individual re-balancing capabilities.

Account aggregation allows the portfolio managers to group client accounts into consolidated views, for example, for families or multi-manager relationships.

SPM allows investments to be grouped by asset class, geography, sector, currency and instrument type.

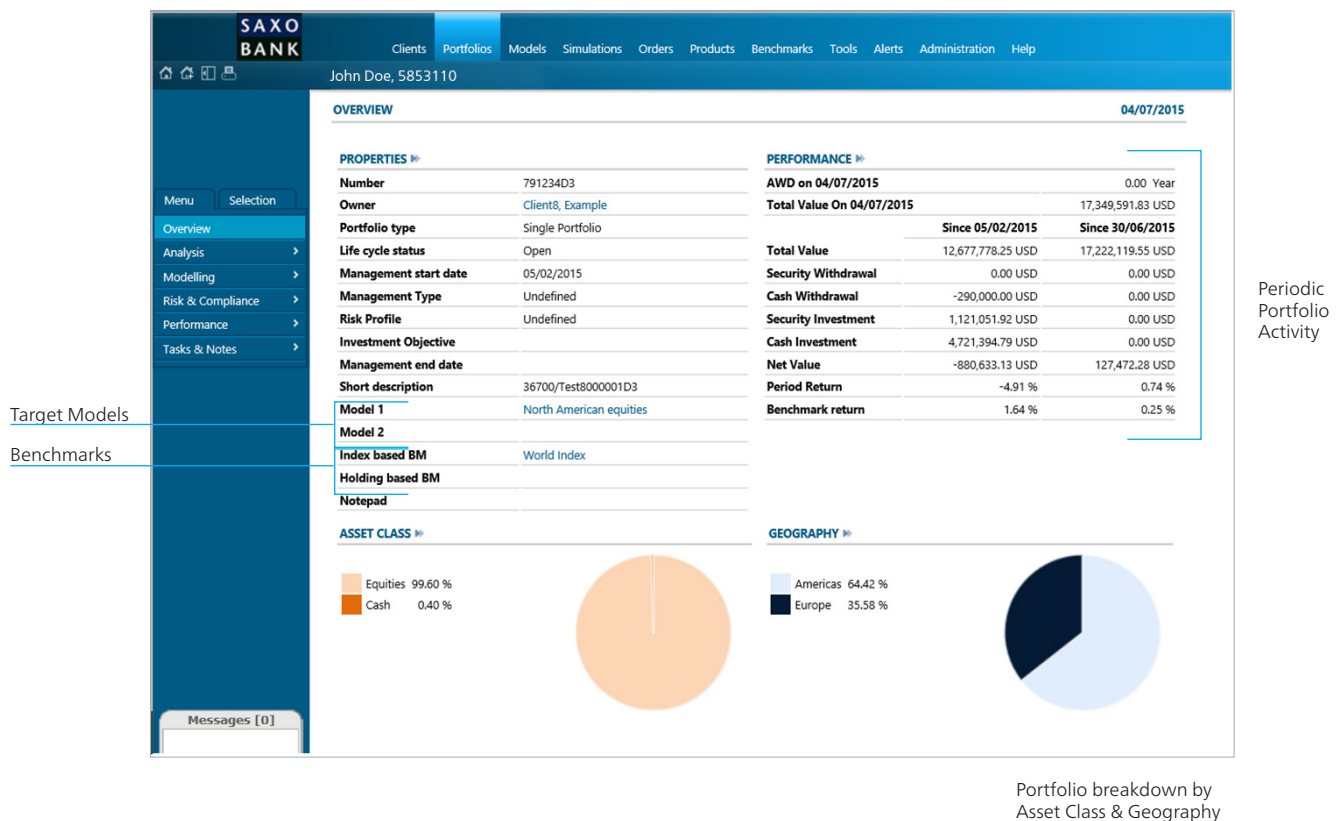
Portfolio managers can access portfolio valuations anytime. Managers can view past transactions, market values, portfolio returns and realised/unrealised gain/ losses.

## Single client portfolio overview

SPM provides a simple and comprehensive overview of portfolio attributes and valuations.

allocation ranges, restrictions on sectors, currencies and leverage ratios.

SPM's flexibility allows portfolio managers to accommodate client-specific requirements e.g. asset class







## PORTFOLIO MANAGEMENT

Manage multiple clients with ease.

SAXO BANK

Clients

Portfolios

Models

Simulations

Orders

Products

Benchmarks

Tools

Alerts

Administration

Help

Home

Navigation

Tools

Help

Menu

Selection

Overview

Analysis

Modelling

Allocation

Allocation History

Rebalancing

Risk & Compliance

Performance

Tasks & Notes

Messages [0]

Messages

REBALANCING

31/05/2016

FILTER SETTINGS

Transaction Type	Portfolio	Target	Pos. Dev.	Neg. Dev.	Difference Value	Adjusted Buy/Sell	Last Transaction Date
▼ Cash							
	4.60 %	0.00 %	0.00 %	0.00 %	5,375.67 USD	-5,375.67 USD	03/05/2016 23:59:00
	0.34 %	0.00 %	0.00 %	0.00 %	30.37 USD	-30.37 USD	03/05/2016 10:55:52
	8.98 %	0.00 %	0.00 %	0.00 %	7,129.04 USD	-7,129.04 USD	04/05/2016 13:40:00
▼ Buy "Delisted 20160212 (BG Group Plc) (London Stock Exchange, Per Unit)							
<input checked="" type="checkbox"/> Buy	0.00 %	3.85 %	1.00 %	1.00 %	-4,499.82 USD	308.00	
<input checked="" type="checkbox"/> Buy	0.00 %	3.85 %	1.00 %	1.00 %	-339.12 USD	23.00	
<input checked="" type="checkbox"/> Buy	0.00 %	3.85 %	1.00 %	1.00 %	-3,056.77 USD	209.00	
▼ Buy Alphabet Inc. - A Shares (NASDAQ, Per Unit)							
<input checked="" type="checkbox"/> Buy	0.00 %	6.25 %	1.00 %	1.00 %	-550.29 USD	0.00	
<input checked="" type="checkbox"/> Buy	0.00 %	6.25 %	1.00 %	1.00 %	-4,960.15 USD	6.00	
▼ Buy Anheuser Busch InBev (Euronext Brussels, Per Unit)							
<input checked="" type="checkbox"/> Buy	5.47 %	5.88 %	1.00 %	1.00 %	-480.53 USD	3.00	03/05/2016 00:00:00
<input checked="" type="checkbox"/> Buy	0.00 %	5.88 %	1.00 %	1.00 %	-517.89 USD	4.00	
▼ Buy Bank of America (New York Stock Exchange, Per Unit)							
<input checked="" type="checkbox"/> Buy	0.00 %	3.42 %	1.00 %	1.00 %	-301.28 USD	21.00	
<input checked="" type="checkbox"/> Buy	0.00 %	3.42 %	1.00 %	1.00 %	-2,715.65 USD	194.00	
▼ Buy Bayer AG NA (Deutsche Börse (XETRA), Per Unit)							
<input checked="" type="checkbox"/> Buy	3.54 %	3.72 %	1.00 %	1.00 %	-216.94 USD	1.00	02/05/2016 00:00:00
<input checked="" type="checkbox"/> Buy	0.00 %	3.72 %	1.00 %	1.00 %	-328.04 USD	3.00	
<input checked="" type="checkbox"/> Buy	3.70 %	3.72 %	1.00 %	1.00 %	-18.26 USD	0.00	02/05/2016 00:00:00
▼ Buy Citigroup Inc. (New York Stock Exchange, Per Unit)							
<input checked="" type="checkbox"/> Buy	0.00 %	3.73 %	1.00 %	1.00 %	-328.70 USD	7.00	
<input checked="" type="checkbox"/> Buy	3.64 %	3.73 %	1.00 %	1.00 %	-71.72 USD	1.00	25/02/2016 00:00:00
▼ Buy CVS Health Corp. (New York Stock Exchange, Per Unit)							
<input checked="" type="checkbox"/> Buy	0.00 %	5.67 %	1.00 %	1.00 %	-499.76 USD	4.00	
<input checked="" type="checkbox"/> Buy	5.66 %	5.67 %	1.00 %	1.00 %	-9.02 USD	0.00	02/05/2016 00:00:00
▼ Buy Diageo Plc (London Stock Exchange, Per Unit)							
<input checked="" type="checkbox"/> Buy	0.00 %	3.88 %	1.00 %	1.00 %	-342.07 USD	12.00	
▼ Buy General Electric (New York Stock Exchange, Per Unit)							
<input checked="" type="checkbox"/> Buy	4.66 %	6.56 %	1.00 %	1.00 %	-2,213.86 USD	73.00	25/04/2016 00:00:00

The "reverse lookup" function allows the portfolio manager to quickly find the relevant portfolios.

SAXO  
BANK

ClientsPortfoliosModelsSimulationsOrdersProductsBenchmarksToolsAlertsAdministrationHelp

Global Leaders

REVERSE PORTFOLIO [7/7]

31/05/2016

FILTER SETTINGS

Selection Mode

Single Portfolio

Management Type

Risk Profile

Investment Objective

Role

Party

Model

Portfolio

Short Description

Owner

Model

720212

76500/6255384USD

D7030DF1AF40DA019A, 16856D

1

720314

76500/6252175USD

14F35D14AB305A4028ABE5CA5BBE, 1ED93AC4

1

780401

76500/6251433USD

5B7DF5E3A369CA4B3, 202CAC

1

807098

76500/132530GBP

7B57C3A5A85E1A484DAA26C, FA6E

1

807102

76500/131953GBP

3EF5C3E3A714FA4B0EA81D, 28563C

1

807520

76500/132795GBP

9CA1F2CDA2247A4C62A9C, 7A157

1

826259

76500/140608USD

112EB3BE, 5E673F

1

## Easy Access To Client Information

### Contact information

- Personal details
- Addresses
- Telephone numbers
- Roles/relations for clients belonging to the same family
- Details of meetings

**SAXO BANK** Clients Portfolios Models Simulations Orders Products Benchmarks Tools Alerts Administration Help

John Doe, 01/05/1979, 5853110

**OVERVIEW**

**IDENTITY**

Last Name	Example	Gender	Unknown
First Name	Client	Marital Status	
Birthdate	01/01/1900	Deceased	
Comments			

**ADDRESSES**

Address	Examplestreet 1	<b>TELEPHONES - ELECTRONIC ADDRESSES</b>
Country	Denmark	Telephone Number +45-123456789
		E-Mail test@saxobank.com

**PORTFOLIOS**

Number	Profile	Date	Value
<b>Single Portfolio</b>			
654226	Aggressive	22/09/2016	6,363.26 EUR

### Meeting Notes

- Keep track of client meetings and follow-up requirements.

**Notes** 23/09/2016

Date	Creator	Description	Public
23/09/2016 07:30:39	ADI, Anders stengard Jensen	Quarterly performance review meeting at client's office	Yes
11/08/2016 09:25:05	ADI, Anders stengard Jensen	Phone meeting about future Growth opportunities	Yes

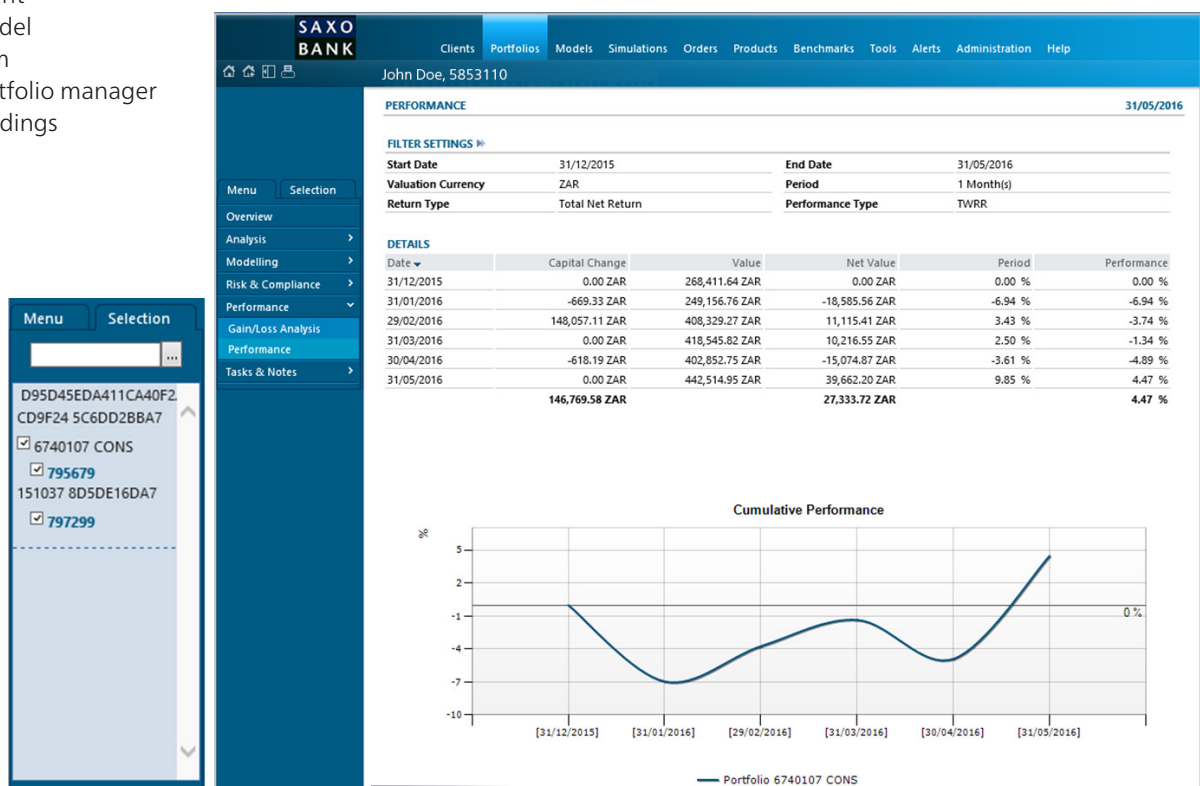
## Consolidation of Portfolios

Consolidation of portfolios can be used to integrate holdings held in custody away from Saxo's account structure (e.g. mutual funds, alternative funds, bespoke valued items such as art, property, etc.) with the holdings held with Saxo. This allows the client to view full valuations, performance analytics and allocation splits at the consolidated portfolio level either in the online portal or the PDF reports.

It can also be used to view multiple portfolios' aggregate performance.

### Aggregate views by:

- Client
- Model
- Firm
- Portfolio manager
- Holdings



## Management Reporting

All data in SPM can be accessed through a set of pre-configured dashboards linked to the different roles that are defined in the system. The data can also be exported as an Excel file for further analysis.



## Risk and Compliance

### Manage Compliance & Risk

Effective risk management is dependent on knowing a portfolio's structure and its breakdown across different categories.

SPM can support management of pension money, which typically requires configuration of a multitude of compliance and reporting rules.

SPM enables portfolio managers to analyse the exposure at different levels and provide historical risk/return analysis and risk-adjusted performance.

#### Multiple compliance rules

- Hard and soft compliance warnings
- Client-level restrictions supported
- Post-trade compliance reports
- Support of Reg 28 rules for the South African market
- Daily alerts on portfolio manager dashboards

John Doe, 01/05/1979, 5853110			
COMPLIANCE			04/07/2015
Restriction	Comments	Warning Type	Status
Allocation Range [ 1 ]	Validates if the order will not bring the portfolio in breach with a portfolio specific allocation range that has been specified, for example: not more than 15% cash.	Soft	Failed
Allocation Restriction [ 10 ]	Validates if the order will not bring the portfolio in breach with a portfolio specific allocation restriction that has been specified, for example: no 'tobacco' stocks.	Soft	Failed
Product Exclude	Validates if the order is not in an asset that has been 'excluded' from the portfolio, for example: no 'IBM'.	Soft	Passed
REG28: 01.1/p - Cash		Soft	Passed
REG28: 01.1a - Cash		Soft	Passed
REG28: 01.1b - Money Market Instruments		Soft	Passed
REG28: 01.2 - Cash		Soft	Passed
REG28: 01.2 - Money Market Instruments		Soft	Passed
REG28: 02 - Debt instr. incl. islamic debt instr.		Soft	Passed
REG28: 02.1a - DBT - Inside Rep & Foreign Asset		Soft	Passed

#### Risk Ratios

- Turnover Indicators
- Cost Ratios

John Doe, 5853110

RISK RATIOS

FILTER SETTINGS ▶▶

Turnover - Start Date	01/01/2016
Turnover - End Date	04/06/2016
Cost Ratio - End Date	04/06/2016

AWD & AWY 04/06/2016		
Portfolio	AWD	AWY
612700	6.22 Years	9.19 %
Core Equity	0.00 Years	0.00 %
Difference	-6.22 Years	9.19 %

TURNOVER INDICATORS 01/01/2016 - 04/06/2016	
Ratio	Value
Turnover Ratio	0.0202
Annualized Turnover Ratio	0.0475
Break-Even Ratio	0.2508 %
Annualized Break-Even Ratio	0.5906 %

COST RATIOS 04/06/2015 - 04/06/2016	
Ratio	Value
Direct Cost %	0.8458 %
• Portfolio Cost %	0.7756 %
• Taxes %	0.0702 %
Indirect Cost %	0.0000 %
Total Cost %	0.8458 %
Average Market Value in VC	114,643.51 ZAR

## Risk vs Return

- VAR at the 95% and 99% level of confidence
- Performance vs. Risk-Free return
- Performance vs. the Benchmark

John Doe, 5853110

RISK VS. RETURN

FILTER SETTINGS

Start Date	23/01/2013	End Date	31/05/2016
Benchmark	Linked Benchmark		

BENCHMARK HISTORY

Benchmark	Linked Date	End Date
Default Benchmark for Risk Free Return	23/01/2013	

HISTORICAL VAR & EXPECTED SHORTFALL

VaR Period	95 %	99 %
1 Month	2,465.23 ZAR	3,481.20 ZAR
1 Year	8,539.80 ZAR	12,059.24 ZAR
Expected Shortfall	95 %	99 %
ES %	-4.04 %	-5.48 %
ES Amount	-4,500.10 ZAR	-6,103.19 ZAR

PERFORMANCE VS. RISK FREE

Since	Ptf	BM	Risk Free BM
Return			
1 Month	-0.66 %	0.00 %	0.00 %
1 Year	-0.95 %	1.04 %	1.04 %
Start	18.33 %	0.54 %	0.59 %
Variance			
1 Year	0.22 %	0.01 %	0.01 %
Start	6.18 %	0.01 %	0.00 %
Return Volatility			
1 Year	4.65 %	1.03 %	1.03 %
Start	24.85 %	0.76 %	0.62 %
Sharpe Ratio			
1 Year	-0.43	0.00	
Start	0.71	-0.07	

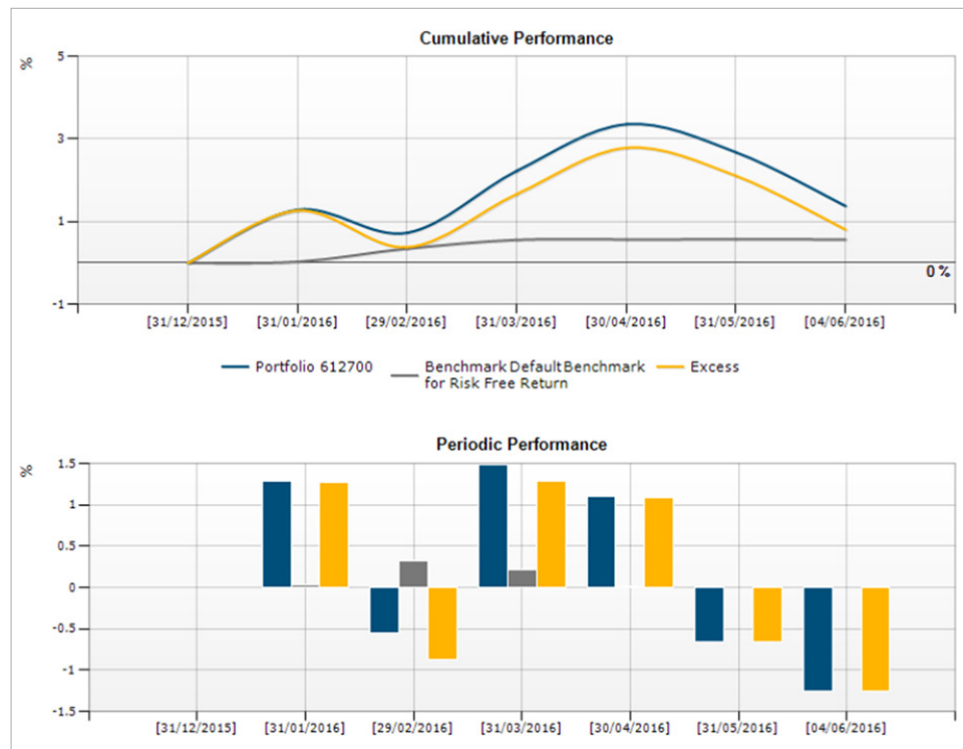
PERFORMANCE VS. BM: RISK ANALYSIS

	Value
Regression vs. Benchmark (Since Start Date)	
Beta	4.70
Alpha	1.39
Epsilon	7.28
R-Squared	14.31 %
Tracking Error	
1 Year	4.73 %
Start	25.34 %
Up-Market Capture Ratio	
1 Year	-1.42 %
Start	28.31 %
Down-Market Capture Ratio	
1 Year	0.00 %
Start	-8.84 %
Treyner Ratio	
1 Year	-0.07 %
Start	0.04 %
Information Ratio	
1 Year	-0.42
Start	0.70

## Performance & Gain/Loss Analysis

### Performance

- Cumulative performance of portfolio vs. benchmark and excess return
- Periodic performance of portfolio vs. benchmark and periodic excess return



### Gain/Loss analysis and performance

- Gain and loss across different components
- Create blended benchmarks using different indices
- GIPS-compliant TWRR performance analysis
- Performance analysis against benchmarks

John Doe, 5853110			
GAIN/LOSS ANALYSIS		04/07/2015	
	Unrealised	Realised	Total
▼ HIST P/L VC			
Price	2,190,756.84 USD	43,713.71 USD	2,234,470.55 USD
Exchange Rate	0.00 USD	-72.84 USD	-72.84 USD
Income	1,125,458.33 USD	6,430,000.00 USD	7,555,458.33 USD
Total	3,316,215.17 USD	6,473,640.87 USD	9,789,856.04 USD
▼ YTD P/L VC			
Price	941,200.00 USD	0.00 USD	941,200.00 USD
Exchange Rate	0.00 USD	0.00 USD	0.00 USD
Income	1,125,458.33 USD	508,833.33 USD	1,634,291.67 USD
Total	2,066,658.33 USD	508,833.33 USD	2,575,491.67 USD

## Client Reporting

### Professional out-of-the-box client reporting tools

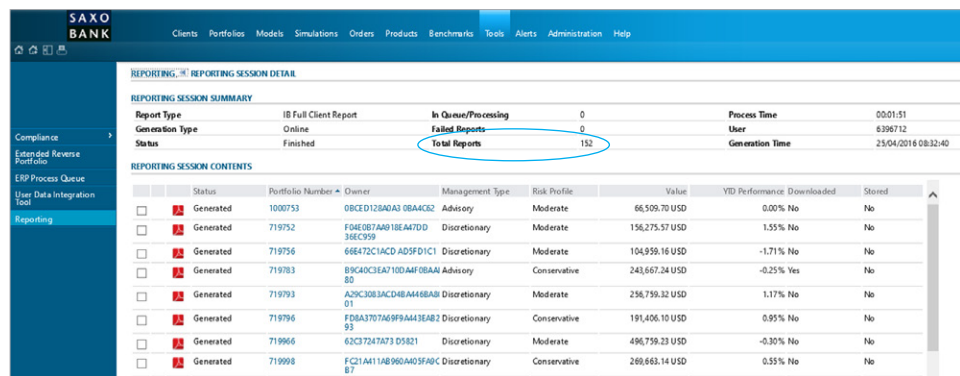
SPM offers out-of-the-box client reports allowing the portfolio and relationship managers to easily provide transparency on portfolio performance to clients.

The PDF reports are predefined full-colour graphic presentations that communicate clearly and accurately. The portfolio managers can produce them ad hoc for a single or multiple clients, or automatically in bulk according to a predefined schedule.

Online access to portfolio information is also possible via a client portal where the client can generate their own PDF reports and free up the portfolio manager to focus on their core business.

### Bulk Reporting

SPM lets you pull reports for multiple clients



REPORTING SESSION SUMMARY									
Report Type	IB Full Client Report			In Queue/Processing	0	Process Time	00:01:51		
Generation Type	Online			Failed Reports	0	User	8396712		
Status	Finished			Total Reports	152	Generation Time	23/04/2016 09:32:40		

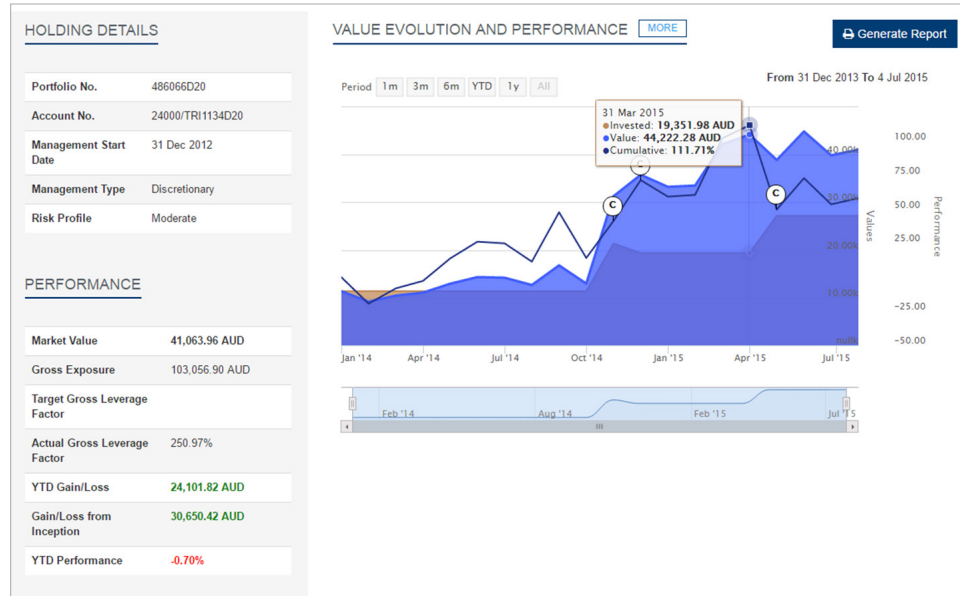
REPORTING SESSION CONTENTS									
	Status	Portfolio Number	Owner	Management Type	Risk Profile	Value	YTD Performance	Downloaded	Stored
<input type="checkbox"/>	Generated	1000753	0BCED128AD3 0BA4C32	Advisory	Moderate	66,509.70 USD	0.00% No	No	No
<input type="checkbox"/>	Generated	719752	F36E87A49 18E4A7D0	Discretionary	Moderate	156,275.57 USD	1.55% No	No	No
<input type="checkbox"/>	Generated	719756	668472C1ACD AD5FD1C1	Discretionary	Moderate	104,959.16 USD	-1.71% No	No	No
<input type="checkbox"/>	Generated	719783	89C4DC3EA710DAF0BA4	Advisory	Conservative	243,667.24 USD	-0.25% Yes	No	No
<input type="checkbox"/>	Generated	719793	A29C3083ACD4B4A46BA8	Discretionary	Moderate	236,759.32 USD	1.17% No	No	No
<input type="checkbox"/>	Generated	719796	FD8A3707A69F9A43EAB2	Discretionary	Conservative	191,406.10 USD	0.95% No	No	No
<input type="checkbox"/>	Generated	719966	62C37247A73 05821	Discretionary	Moderate	496,759.23 USD	-0.30% No	No	No
<input type="checkbox"/>	Generated	719998	FC21A111AB060A03FAB C	Discretionary	Conservative	289,663.14 USD	0.55% No	No	No

## PORTFOLIO MANAGEMENT

### Client Portal

End-clients or relationship managers log on to the client portal from the web or a tablet to view reports:

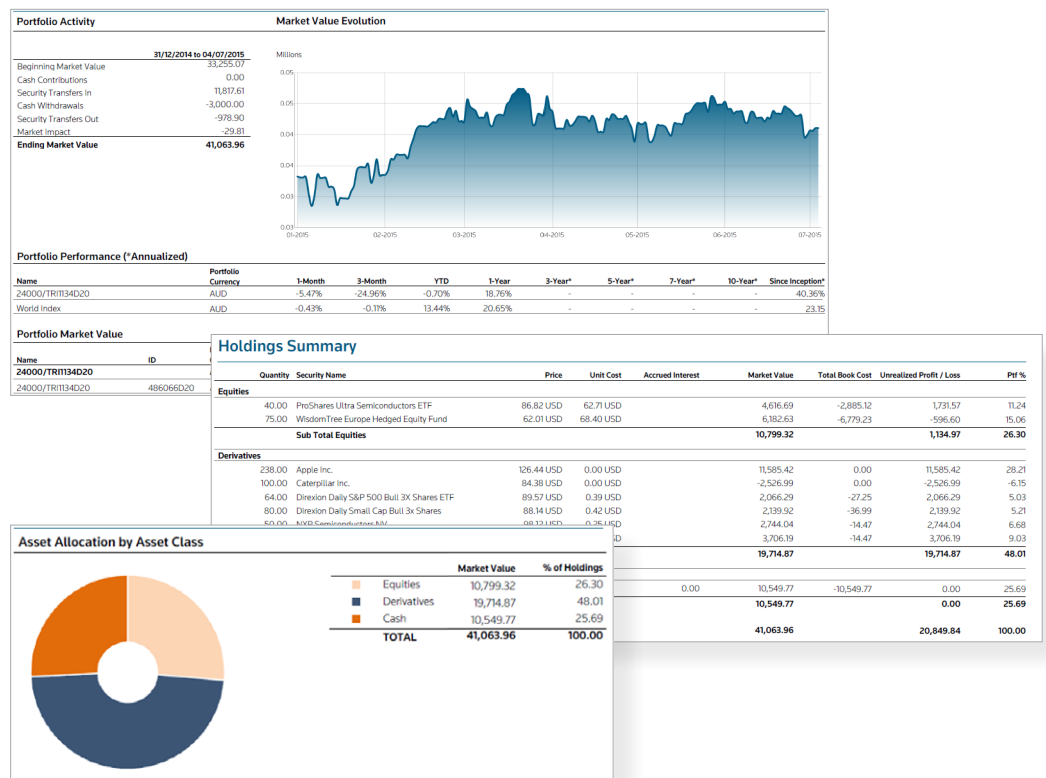
- View performance over any period
- View asset distribution from any perspective
- Drill down in holdings



### PDF Reports

Standard out-of-the-box PDF reports summarising:

- Performance
- Asset Allocation
- Holdings Summary
- Transactions
- Cash movements





## Why Saxo Market

- Cloud-based award-winning portfolio trading and risk management technology
- Financial strength \$680m in equity capital, \$12.4bn in customer deposits
- Global presence - offices in 26 countries
- Reg 28 support for institutional clients in South Africa



## Leverage integration of portfolio management system and trading engine

### A holistic approach

Saxo Markets' solution for wealth managers is based on a holistic approach that supports clients' needs across the entire value chain of a business.

The award-winning platform forms the foundation of the offering and is supplemented by a wide range of asset classes, value-adding tools and services.

Multiple integration points allow Saxo Markets' clients easy integration with their own systems and processes to present a single face and seamless experience to their end-clients.

### Branding and customization

SPM allows client-specific branding on reporting and client portals, along with the option to extend ad hoc booking fees and the ability to add languages.

### Integrated portfolio management and trading

#### – ready from day one

Saxo Markets has already integrated the trading and back-office platforms seamlessly into our portfolio management offering.

Wealth Managers can benefit from Saxo Market's cash management, end of day reporting, trading infrastructure and back office systems to automatically deduct agreed fees from the end clients' accounts.

### Fully supported IT solution

The solution allows wealth managers to manage client portfolios and trade seamlessly at minimal cost. No IT implementation or investment is required. The solution is fully hosted, supported and maintained by Saxo Markets.

## Continue working with a licensed European bank

Saxo Markets is the institutional division of Saxo Bank Group. Saxo Markets serves institutional clients through four main hubs in the UK, Denmark, Switzerland and Singapore where most institutional clients are also on-boarded.

Each of the licensed entities in the Saxo Bank Group are subject to the supervision of their local regulator.

Saxo Bank A/S is a fully licensed Danish bank under the supervision of Finanstilsynet (the Danish FSA). Saxo Capital Markets UK Limited is regulated by the UK Financial Conduct Authority ("FCA"). Saxo Bank (Switzerland) Ltd. is regulated by the Swiss Financial Market Supervisory Authority ("FINMA") as a bank and securities dealer.

Saxo Capital Markets Pte Limited is regulated by the Monetary Authority of Singapore ("MAS") as a capital markets services license holder. Saxo Capital Markets (HK) Limited is licensed and regulated by Securities & Futures Commission of Hong Kong.

Saxo Capital Markets (Australia) Pty Ltd holds an Australian Financial Services License and is regulated by ASIC.

Saxo Capital Markets South Africa (PTY) Ltd is regulated by the South Africa Financial Services Board.

See all regulatory details at <http://www.markets.saxo/about/>.

Our clients benefit from working with a counterparty operating under strong regulatory framework.

- Founded 1992
- 1450 employees in 26 offices
- \$680m equity capital
- \$12.4bn customer deposits



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