

# Funds-Axis UCITS- Core (all jurisdictions) <u>Rule UCITS09 Review and Testing</u>



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## **Testing Approach**

- 1. Activate Dummy Sandbox Schemes in FundWare for testing purposes; SB0 SB7
- 2. Upload test data to these schemes
- 3. Funds-Axis to apply UCITS regulatory rules to these test schemes;
  - a. Generate a minimum of 1 breach and 1 pass result per UCITS rule
  - b. To validate a minimum of 1 breach and 1 pass result per UCITS rule
- 4. Funds Axis will provide documentation providing explanation of regulatory rule results



## UCITS09: OTC Derivatives must be Capable of Reliable valuation

Rule Setup Details

Rule Summary						
Rule Category	Rule Category	UCITS – CORE (ALL Jurisdictions)				
Rule Sub-Category1. Eligible Assets						
Asset Selection	Asset Category	All Assets				
Asset Selection	Asset Type Group	Spot FX Share Class Hedges Derivatives – Other Derivatives Forward FX				
Asset Selection	Asset Type	N/A				

Rule Custom Attributes				
RCA. Conditions	Yes			
RCA. Conditions	Derivative has reliable valuation	No		

Rule Conditions						
Rule Conditions	Holding Level	All Holdings				
Rule Conditions	Rule Level	In Scheme				
Rule Conditions	Aggregator (Base Value in FW Rules Wizard)	Market Value*				
Rule Conditions	Breach Condition	> 0				
Rule Conditions	Pass Condition	<= 0				
Rule Conditions	Denominator	No. of Securities in Scheme				
Where Conditions	Pass Condition	N/A				
Where Conditions	Breach Condition	N/A				
Where Conditions	Denominator	N/A				

\*The selection of denominator of "No. of Securities in Scheme" has the impact of causing the aggregator to be a "Count" of the instruments in the scheme, notwithstanding that the "Market Value" is in fact selected in the rules wizard.



## UCITS09: Rule Results

**Results:** 

7 of 8 sandbox schemes are passing UCITS09

## Cause:

This rule considers the eligibility of OTC derivatives, and if they are capable of a reliable valuation. The maximum amount allowable in OTC derivative which are not considered as being reliably priced is 10% in aggregate. If this threshold is breached, UCITS09 will fail.

The rule is using the RCA "Derivative has reliable valuation" = "No"

This RCA is set up only to classify those derivatives where "derivative has reliable valuation" = "No", not those where it is yes. This RCA is set-up to be "No" for certain derivative assets types and unless they have been manually overridden as "Derivative has reliable valuation" = Yes; they will be classified as not reliable. The RCA set-up is fully documented and needs to be fully tested.

## Testing

## Example 1: Breach Result

Test Example 1:	Scheme: SB2 – Sandbox CDS Fund
<u>Rule Result:</u>	Failed

Success

<u>Test Result:</u>

Date: 01 June 2018

## FundWare Investment Compliance Result:

## SB2 - Sandbox CDS Fund

## Scheme NAV in Base Currency: 34,087,657.79

	Breach ID	Rule	Status	Breach Days	Exposure
		UCITS - Core (All Jurisdictions): 1. Eligible Assets			
- 1	10047-C <b>†</b>	UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Failed	1	4.0000
		9F9ASRU00 - CDS CS_GP_FIN 1.000000% 20-JUN-2022			1 Securities
		9F9ASWU01 - CDS CSGAG 1,000000% 20-JUN-2022			1 Securities
		9FX479U01 - CDS CSGAG 1.000000% 20-JUN-2022			1 Securities
		9FX485U00 - CDS CS_GP_FIN 1.000000% 20-JUN-2022			1 Securities

## FundWare Holding Export Report:

The Rule Result shown above matches the below extract taken from FundWare:

The below derivatives have applicable UCITS Asset Types for the purpose of UCITS09 and are marked as not being capable of having a reliable valuation; therefore they are meeting all breach criteria.

Valuation Date: -



Instrument Security Code	Asset Type Group Name	Underlying Asset Type	UnderLying Equity (security name)	RCA.Is OTC	RCA.Derivative has reliable Valuation	Derivative Exchange Name
9FX485U00	Derivatives - Other	Euro Non-Dollar	CRED SUISSE GP FIN (GRN)529/07/2019	Yes	No	отс
9FX479U01	Derivatives - Other	Euro Non-Dollar	CRED SUISSE GP FIN (US)710/05/2020	Yes	No	ОТС
9F9ASWU01	Derivatives - Other	Euro Non-Dollar	CRED SUISSE GP FIN (US)710/05/2020	Yes	No	ОТС
9F9ASRU00	Derivatives - Other	Euro Non-Dollar	CRED SUISSE GP FIN (GRN)529/07/2019	Yes	No	отс
17409609G8JD2U	Derivatives - Other	U.S. TREASURY BILLS	US 10YR NOTE (CBT)Jun18	(blank)	No	Chicago Mercantile Exchange

<u>Note</u>: The 'US 10YR Note..' is also marked as having an unreliable valuation but is not breaching for rule UCITS09 due to it being traded on an exchange.

## High Level Holdings Overview:

The fund is made up of:

Asset Type Group Name	RCA.Is OTC	RCA.Derivative has reliable Valuation	% Of Assets
Cash			19.7068
Deposits			0.6501
Derivatives - Forward FX	Yes	(blank)	-0.8199
Derivatives - Other	Yes	No	-0.005
Derivatives - Other	Yes	(blank)	10.2999
Derivatives - Other	(blank)	No	-0.0015
Derivatives - Other	(blank)	(blank)	0.0288
Derivatives - Standard Contracts			0.2825
Fixed Income			13.7535
Fixed Income			59.1613
Payables Receivables			-0.2522
Grand Total			102.8043



Example 2: Pass Result	
Test Example 2:	Scheme: SB1 – Sandbox Equity Long Short Fund
<u>Rule Result:</u>	Pass
Test Result:	Success

## FundWare Investment Compliance Result:

## SB1 - Sandbox Equity Long Short Fund

Valuation Date: -

### Scheme NAV in Base Currency: 207,842,337.06

Date: 01 June 2018

	Breach ID	Rule	Status	Breach Days	Exposure
		UCITS - Core (All Jurisdictions): 1. Eligible Assets			
-		UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed		0.0000

## FundWare Holding Export Report:

The Rule Result shown above does not show any assets as the fund does not contain any assets that would cause the rule to breach.

The snapshot below shows the setup of derivatives in this fund. As shown none of the derivatives have been classified as not having a reliable valuation. The below derivative setup is consistent throughout the fund.

Instrument Security Code	Asset Type Group Name	Underlying Asset Type	Underlying Equity	RCA.Is OTC	RCA.Derivative has reliable Valuation	Derivative Exchange Name
JP393295000C	Derivatives - Other	Common Stock	KATITAS CO LTD	Yes	(blank)	ОТС
JP391066000C	Derivatives - Other	Common Stock	TOKIO MARINE HOLDINGS INC	Yes	(blank)	отс
JP390290000C	Derivatives - Other	Common Stock	MITSUBISHI UFJ FINANCIAL GRO	Yes	(blank)	отс
JP389035000C	Derivatives - Other	Common Stock	SUMITOMO MITSUI FINANCIAL GR	Yes	(blank)	ОТС
JP387000000C	Derivatives - Other	Common Stock	MABUCHI MOTOR CO LTD	Yes	(blank)	ОТС
JP385590000C	Derivatives - Other	Common Stock	POLA ORBIS HOLDINGS INC	Yes	(blank)	отс
JP383080000C	Derivatives - Other	Common Stock	BRIDGESTONE CORP	Yes	(blank)	ОТС
JP381480000C	Derivatives - Other	Common Stock	SUBARU CORP	Yes	(blank)	ОТС
JP378342000C	Derivatives - Other	Common Stock	HIKARI TSUSHIN INC	Yes	(blank)	отс
JP378010000C	Derivatives - Other	Common Stock	PARK24 CO LTD	Yes	(blank)	отс
JP376240000C	Derivatives - Other	Common Stock	NOMURA CO LTD	Yes	(blank)	ОТС
JP376045000C	Derivatives - Other	Common Stock	NOEVIR HOLDING CO	Yes	(blank)	ОТС
JP373540000C	Derivatives - Other	Common Stock	NIPPON TELEGRAPH & TELEPHONE	Yes	(blank)	ОТС
JP372800000C	Derivatives - Other	Common Stock	NIPPON PARKING DEVELOPMENT C	Yes	(blank)	ОТС
JP372680000C	Derivatives - Other	Common Stock	JAPAN TOBACCO INC	Yes	(blank)	ОТС
JP371120000C	Derivatives - Other	Common Stock	AOZORA BANK LTD	Yes	(blank)	ОТС
JP367240000C	Derivatives - Other	Common Stock	NISSAN MOTOR CO LTD	Yes	(blank)	отс

## **High Level Holdings Overview:**

The fund is made up of:

Asset Type Group Name	RCA.Is OTC	RCA.Derivative has reliable Valuation	% Of Assets
Cash	Yes	(blank)	1.0273



Commodities	Yes	(blank)	0.4811
Derivatives - Other	Yes	(blank)	5.1756
Equities	(blank)	(blank)	71.78
Funds	(blank)	(blank)	6.8045
Physical Property	Yes	(blank)	14.7314
Grand Total			99.9999



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Date: 01 June 2018

Date: 01 June 2018

Date: 01 June 2018

Date: 01 June 2018

## UCITS09: Overview of Rule Results

		SB0 - Sandbox Equity Mutli Income Fund		
Date: 01 June 2018				Valuation Date: -
Scheme NA	/ in Base Currency: 82,	368,872.99		
Click on rule	o view rule details			
Breach I	D Rule	Status	reach Days	Exposure
	HCTTS - Core (All Jurist	dictions) : 1 Eligible Assets		

#### Click on rule to Breach ID

UCITS - Core (All Jurisdictions): 1. Eligible Assets		
UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed	

## SB1 - Sandbox Equity Long Short Fund

Valuation Date: -

0.0000

#### Scheme NAV in Base Currency: 207,842,337.06

	Breach ID	Rule	Status	Breach Days	Exposure
		UCITS - Core (All Jurisdictions) : 1. Eligible Assets			
-		UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed		0.0000

### SB2 - Sandbox CDS Fund

Valuation Date: -

## Scheme NAV in Base Currency: 34,087,657.79

	Breach ID	Rule	Status	Breach Days	Exposure	
		UCITS - Core (All Jurisdictions): 1. Eligible Assets				
	10047-C T	UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Failed	1	4.0000	
		9F9ASRU00 - CDS CS_GP_FIN 1.000000% 20-JUN-2022			1 Securities	
		9F9ASWU01 - CDS CSGAG 1.000000% 20-JUN-2022				
		9FX479U01 - CDS CSGAG 1.000000% 20-JUN-2022				
		9FX485U00 - CDS CS_GP_FIN 1.000000% 20-JUN-2022				

## SB3 - Sandbox Fund of Fund

Valuation Date: -

### Scheme NAV in Base Currency: 74,086,960.18

	Breach ID	Rule	Status	Breach Days	Exposure
		UCITS - Core (All Jurisdictions): 1. Eligible Assets			
÷		UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed		0.0000

### SB4 - Sandbox Futures and Options fund

### Date: 01 June 2018 Scheme NAV in Base Currency: 22,216,808.24

	Breach ID	Rule	Status	Breach Days	Exposure
	UCITS - Core (All Jurisdictions): 1. Eligible Assets				
+		UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed		0.000

### SB5 - Sandbox MMI Fund

Valuation Date: -

Valuation Date: -

Valuation Date: -

#### Scheme NAV in Base Currency: 11,137,506,461.12 Click on rule to view rule details

Breach ID	Rule	Status	Breach Days	Exposure
	UCITS - Core (All Jurisdictions): 1. Eligible Assets			
9	UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed		0.0000

## SB6 - Sandbox Fixed Income Fund

#### Date: 01 June 2018 Scheme NAV in Base Currency: 232,189,721.95

	Breach ID	Rule	Status	Breach Days	Exposure
		UCITS - Core (All Jurisdictions) : 1. Eligible Assets			
+		UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed		0.0000

## SB7 - Sandbox Feeder Fund

### Valuation Date: -

Date: 01 June 2018 Scheme NAV in Base Currency: 140,560,227.95

Bre	each ID	Rule	Status	Breach Days	Exposure
		UCITS - Core (All Jurisdictions): 1. Eligible Assets			
1		UCITS09: OTC Derivatives must be Capable of Reliable Valuation	Passed		0.0000



## Appendix A: Rule Construction in FundWare

Rule Name * (Max 100 Chars)	UCITS09: OTC Derivatives must be Capable of Reliable Valua		Rule	e Category	UCITS - Core (All Jur	isdictions)				
Rule Reference No * (Max 50 Chars)	UCITS09		R	Rule Type *	1. Eligible Assets					
Rule Short Name * (Max 100 Chars)	UCITS09: OTC Derivatives must be Capable of Reliable Valua		Rule Act	tion Type *	Others					
Ruie Commentary * (Max 5000 Chars)	UCITS09: OTC Derivatives must be Capable of Reliable	Valuation								
Resolution / Tips * (Max 255 Chars)			h.							
Resource (Max 1000 Chars)										
Rule Validation Level *		<ul> <li>Instrument Location</li> <li>UL Instrument / Security</li> </ul>								
Asset Category	Derivatives Derivatives with Counterparties Securities Warrants		All Assets				*			
Asset Type Group	Asset Backed Securities Borrowing Cash Commodities CPProxyHoldingOffset Currency Currency Contody of Depository Receipt	Î	Spot FX Share Class Hedges Derivatives - Other Derivatives - Forwa				^ 			
Asset Type	AIFMD Trade Type Derivatives Bond Future Bond Deritors - CALL CALL WARRANT/OPTION CALL; COVERED WARRANT TRADITIONAL OR OTC OPTI- COS THESES TRADSWARP CONTRACT FOR DIFFERENCE CONTRACT FOR DIFFERENCE CREDIT DEFAULT SWAP	ON	) )) ((				*			
LIST OF RULE CONDITIONS								Create New R	ule Conditi	on
RULE CONDITION								ACTIVE	and address	ï
If holding for "All Holdings" in "Scheme" (considering "M THEN Breach.	arket Value" ) ( Derivative has reliable Valuation includes 'N	lo' AND Is OTC includes 'Yes') is > 0	.0000 of "No. of Securities in Sche	me"				-	đ	1
	arket Value" ) ( Derivative has reliable Valuation includes 'N	lo' AND Is OTC includes 'Yes') is <=	0.0000 of "No. of Securities in Sch	neme"				9	ľ	

## UCITS09 OTC Derivatives must be Capable of Reliable Valuation

<u>END</u>