

List of Attributes

Superior in Every Respect



Superior Functionality

- Ability to import existing portfolio data
- Fully IFRS 9 Compliant with no Overlays
- Basel III & IV Compliant
- APIable with other systems
- End-to-End Digital Processing
- AML and KYC friendly Obligor Database
- Cross Reference Obligor, Buyer, Seller, Affiliate data
- Integrated Financial Analysis module
- PIT and Cash Flow Centric



Superior Analytics

- Financial Modeling capabilities
- System Generated ORR, FRR, PRR, ECL, RORAC and RAROC
- Project Finance Assessment and Evaluation Capabilities
- Obligor Facilities and Collateral data Integration
- Fully Integrated Credit Application Module
- Multiple Reports covering all risk and management requirements



Superior Credit Admin

- Multiple Notification Capabilities across bank
- Full Credit Administration Capabilities
- Dual Maker Checker Capabilities
- Linked Documentation
- Full reporting capabilities and Data
 Dump for Central Bank reporting



Superior Exposure Mgt

- Automated CA fill-in
- · Automated Portfolio Limit Checking
- Credit Process mirrors bank's process and adds multiple dimensions
- Digital CA approval capable
- Complete and fully integrated Facilities and Collateral Management
- System accommodates drawdowns, repayments, extensions, collections, etc.
- SWIFT connection ready
- Automated ticklers
- Automated Client communication bank specific

PRR & Stress Testing

A fully user parametrized system:

Rationale

Portfolio Management is an integral part of the credit process that enables the Bank to manage concentrations, volatility, liquidity and achieve optimum earnings. It does so through portfolio strategies and planning, performance assessment and reporting functions into one comprehensive management process.

Core Features

Basel Guidelines on Managing Credit Risk (Principle 12): Banks to adopt systems to monitor composition & quality of portfolio

PRR Module designed to assess portfolio risk rating, measure ECL & develop strategies

Closer monitoring of Concentration by:

- Single Obligor
- Group of connected obligors
- Products
- Particular industry or economic sector
- Geographic region
- Individual foreign country or countries with related economies
- Credits with same maturities
- > ORR and FRR
- ➤ RAROC and RORAC both Authorized and Outstanding
- Concentration Authorized and Outstanding
- > Capital Adequacy (IRB and STD) and PRR measurement
- Breakdown by Industry, Facility, Collateral, Country etc.
- > Stress Test the results

PRR

Concentration Listing, IRB and Standardized CAR, PRR by Category

CF chrome	://bookmarks DiagnostiCS								Q Search	EN Language	RW Logout	8
		Dashboard	Obligors	Exposures	Projects	Applic	ations	Diagnostics	Valuations	Peers	Set	tings
IFRS 9	PRR Calculation	Analysis by Industry- Authorized										
PRR	Stress Testing	INDUSTRY	А	UTHORIZED E	EXP AT RISK	IRB CA	STD C	A RAROC	RORAC %	OBLIGOR	S PRR	
		Finance - Credit Intermediation & Related Activiti	2	117,109,969	417,109,969	465,410,800	41,710,9	997 (44,601,867)	(100%)	11	8.00	
PD Calc	Scenario Planning	Manufacturing - Miscellaneous		56,200,000	11,400,000	9,318,976	1,140,0	00 (1,229,891)	(141%)	2	7.97	
		Wholesale Trade - Durable Goods		238,703	238,703	184,499	23,870	0 (18,883)	(105%)	1	7.94	
	Import Log	Retail Trade - Motor Vehicles & Parts Dealers		100,000	50,000	29,768	5,000	(3,325)	(113%)	1	7.79	
		Manufacturing - Chemical		17,000,000	10,600,000	5,576,675	1,060,0	00 (514,884)	(94%)	2	7.75	
		Manufacturing - Food		6,485,000	6,445,000	2,725,414	551,35	8 (247,338)	(88%)	3	7.61	
		Transportation - Air		6,607,730	6,607,730	1,905,715	480,41	5 (139,640)	(65%)	4	7.40	
		Manufacturing - Primary Metals		36,520,092	36,520,092	6,688,025	3,651,0	00 (667,393)	(87%)	3	7.11	
		Construction - Heavy & Civil Engineering		1,000	1,000	179	100	(12)	(54%)	1	7.07	
		Agriculture - Crop Production		63,318,866	63,268,866	10,256,686	6,326,7	93 (810,342)	(66%)	8	7.04	
		Manufacturing - Machinery		3,623,507	3,623,507	591,322	328,25	7 (38,406)	(49%)	1	7.01	
		Finance - Securities, Commodity Contracts & Other		66,335	66,335	10,661	4,059	(685)	(48%)	1	7.00	
		Retail Trade - Food & Beverage		1,300,000	260,000	30,431	26,000	(3,996)	(111%)	1	6.78	
		Wholesale Trade - Nondurable Goods	1	150,000,000	150,000,000	13,080,885	15,000,0	000 (866,063)	(47%)	1	6.54	
		Manufacturing - Electrical Equipment, Appliances		5,446,623	1,089,325	83,572	93,717	7,270	97%	1	6.44	
		Manufacturing - Leather & Allied Products		10,220,000	3,820,000	279,669	380,66	(3,192)	4%	1	6.37	
		Utilities		7,390,818	7,390,818	236,931	667,51	0 (15,614)	(41%)	4	5.38	

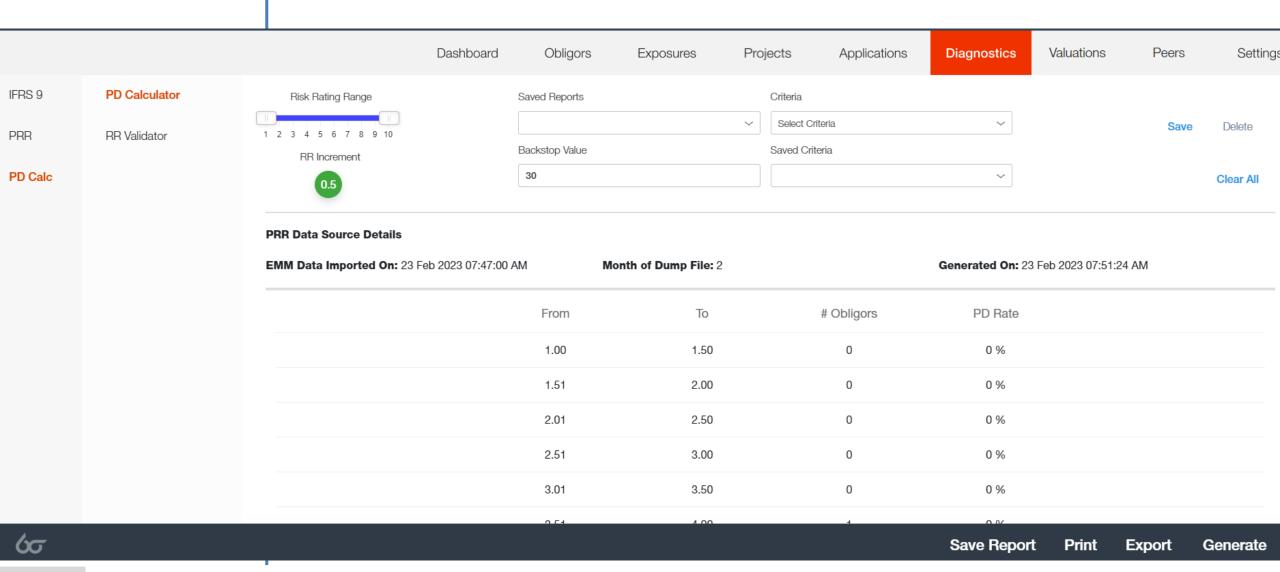
Stress Testing

The Before and After Data

			Dashboard	Obligors	Exposures	Projects	Applications	Diagnostics	Valuations	Peers	Settings		
IFRS 9	PRR Calculation	Portfolio Capital Adequacy											
PRR	Stress Testing					AUTHORIZED			OUTSTANDING				
PD Calc Scenario Planning		PORTFOLIO CAPITAL ADEQUACY			BEFORE STRE	SS TESTING	AFTER STRESS TESTING	BEFORE STRESS TESTING		AFTER STRESS TESTING			
. 5 64.6		Capital Adequacy Expected Loss	Capital Adequacy Expected Loss			7,880	322,962,621	1,804,319		1,048,558			
	Import Log Capital Adequacy Unexpected Loss			262,38	262,380,924 247,588,314		2,496,178 102,293,175		1,185,413 102,293,175				
		Exposure & Outstanding at Risk To	sk Totals 814,429,668 814,429,668		814,429,668								
		PRR Expected Loss			7.8	4	8.00	6.0	1	7.21			
		Unexpected Loss % EAR & OAR			329	6	42%	2%	б	10%			
		Standardized Approach Capital Ch	harge		81,043,569 58,945,156 10,100,724 1,090,81		12						
		Historical Risk Adjusted Return on Capital											
						AUTHORIZED OUTSTANDII		NDING					
		HIS	STORICAL RAOC		BEFORE STRE	SS TESTING	AFTER STRESS TESTING	BEFORE STRE	SS TESTING	AFTER STRESS	TESTING		
		Total Revenue			1,693	745	392,990	647,1	141	57,402	2		
		Cost of Funding			(1,319	550)	(121,683)	(410,9	971)	(78,613	3)		
		Total Net Revenue			374,	196	271,307	236,1	170	(21,21	1)		
		Gross Margin %			229	6	69%	369	%	(37%)			
		Operating Expenses	Operating Expenses			(187,098) (135,653)		(118,085)		10,605			
60									Print	Export	Generate		

PD Calculator

Validations



6

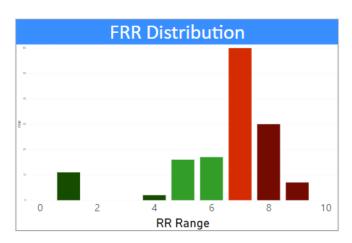
Risk Management - CAR

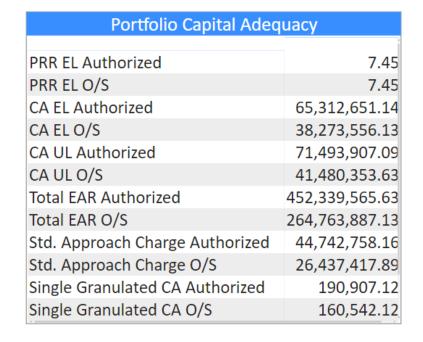
Portfolio Capital Adequacy Authorized Concentration Calculation

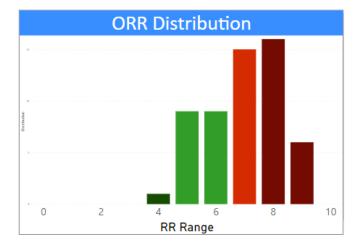
Excess Utilization Information

Analysis By Industry

Stress Testing







Implementation

Roll-out

14 days Fully Loaded

Systematic roll-out with full support.

- Fully managed environments on cloud
- Regular releases and upgrades
- Cloud infrastructure and tools; underlying infrastructure (database, operating system, app servers)
- IT Operations and BAU services, including WAF monitoring

Development, Test and Production Environments

- Provision environment for integrations and development
- Provision environment for 6 Sigma testing and sign off
- Environment to support incident management & analysis...

Release, Upgrades

- Frequent Updates
- Frequent hotfixes
- Monthly / Quarterly service packs and patches

Includes:

- Azure Run Costs as an option
- Underlying technology: SQL, Microsoft licenses, WAF
- Cloud tools: Azure Backup, Azure Site Recovery, DB

Implementation

- Installation 14 days premise or cloud
- Fully loaded with default settings plus Loss Norm table
- UAT process to include training and Configurations
- Sign off and shift to Production within 5 business days
- Ongoing 6 Sigma Account
 Management support

Structure

On Premise or Cloud

Western Europe, Asia Pacific, USA Cloud Load Balancers for users > 500



Applications Windows IAS

On Premise



Database Layer Microsoft SQL

Technology Stack							
#	Category	Details					
1	Client	Standard Web Browsers (MS Edge and Google Chrome)					
2	Hardware	Intel X86-64					
3	Application Server OS	Windows 2019					
4	Database Server OS	Windows 2019					
5	Database	SQL					
6	Reporting	ActiveReports					
7	Developer Login	Bastion					
8	Monitoring	Site 24x7 / Azure Monitoring Tools					
9	Backup	Azure Backup / Veeam					
10	DR	Azure Site Recovery / Veeam Replica					
11	WAF	Sucuri					

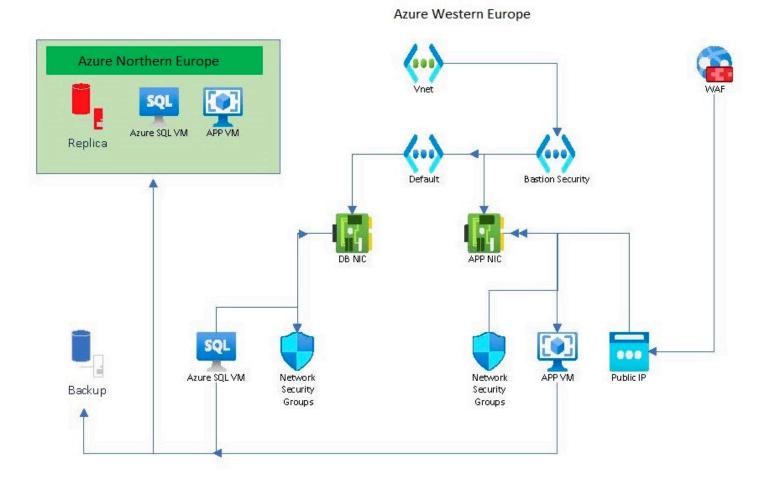
Schematic

Systematic roll-out with full support.

6σ 6 Sigma® | Group

CRMS Network Diagram

Fully Flexible



BU and DR

Backup and Disaster Recovery

Backup

Leverage Cloud Native tools:

- Azure Backup Service
- Azure Recovery Vault



Disaster Recovery

Azure Site Recovery for VMs SQL



for Database

Leverage Cloud Native tools (ASR)

- 15 minutes Recovery Point Objective (RPO)
- All changes replicated to another region
- PaaS deployed active across two regions

The Rules: Virtual Machine (Web and DB)

- Daily: Full backups are done daily and are retained for a minimum of 30 days.
- Weekly: Weekly backups are retained for a minimum of 5 weeks.
- Monthly: Monthly backups, which include the last and first day of the month, are retained for a minimum of 13 months.
- Yearly: Yearly backups, which include the last and first day of the year, are retained for a minimum of 7 years (GDPR)

Best Practice