BCBS 239 Alignment with DCAM 1.2.2

(Data Management Implications related to the Principles of Risk Data Aggregation)

July 2015

Principle 1: Governance							
Paragraph	Summary	Component	Capability/Sub- Capability	DCAM Summary			
27	Management should promote	Strategy	1.2	High level business requirements are captured, prioritized, an integrated into the data management strategy			
	identification, assessment and	Business Case	2.1.1	Business case is mapped to and aligned with the data management strategy			
	management of data	Governance	4.2	Content governance is defined			
	quality risks as part of		4.3	Policy and standards are written and approved			
	overall risk management framework	Control	8.2	Control environment supports the data management lifecycle			
28	Management should approve RDAR	Strategy	1.1.2	The data management strategy is aligned with the high-level organizational objectives			
	framework and ensure sufficient	DM Program	2.2	The data management funding model has been established, approved and adopted by the organization			
	resources	Governance	3.2.3	Program Office (PMO) is established and staffed with required skill sets			
29a	RDAR is independently validated	Strategy	1.1.4	The DMS has been evaluated as being enforceable by Audit (or the equivalent function)			
		DM Program	3.5.2	Issue identification, prioritization, escalation and conflict resolution are defined and operational			
		Governance	4.5.2	Policy and standards are enforceable and auditable			
		IT Analoiteatuur	6.1.1	Technology architecture strategy is defined and agreed to by			
		Architecture	7.3.4	relevant stakeholders			
		Data Quality Control	8.3.1	Data Quality processes are auditable Control Function policies and standards are aligned with Data			
		Control	0.3.1	Management policies and standards			
29b	RDAR applies to new initiatives including	Strategy	1.2.1	High level business requirements have been documented and used to create the DMS			
	acquisitions,	Governance	4.3.1	Policy and standards are written and complete			
	divestitures, new products	Data Quality	7.1.1	The data quality strategy and approach are defined and socialized			
			7.2	All relevant data have been identified and prioritized.			
			7.3	Quality of new data is monitored, analyzed and reported			
		Control	8.2.2	Critical end-to-end data flows and essential attributes for in- scope business processes are defined and mapped			
29c	RDAR cannot be hindered by group	Strategy	1.1.4	The DMS has been evaluated as being enforceable by Audit (or the equivalent function)			
	structure	Business Case	2.2.3	Implementation of the DM funding model is enforced			
		DM Program	3.1.2	The data management program has the authority to enforce adherence and compliance			
		Governance	4.5.1	Project review and approval processes are established			
			4.5.2	Policy and standards are enforceable and auditable			

30	Management needs to be	Strategy	1.3.1	The DMS calls out the need to identify and prioritize authorized data domains					
	fully aware of limitations that		1.3.2		iculates the importance of establishing policy to enforce use of authorized data domains				
	prevent full		1.4	The DMS is a	The DMS is aligned with and mapped to architectural, IT and operational capabilities				
	ND/	Governance	4.2.1		data domains have been identified and inventoried				
		Data Quality	5.1	Identify the					
		Buta Quanty	5.2	Define the d					
			5.3	Govern the					
		Control	8.3.1		ction policies and standards re aligned with Data				
					it policies and standards				
31	Board is	Strategy	1.1.2	The DMS is a	aligned with the high-level organizational objectives				
	responsible for	DM Program	3.3.1	Identified sta	akeholders commit and are held accountable to the data				
	determining its				t program deliverables				
	risk reporting	Governance	4.3.3	-	andards have been reviewed and approved by senior				
	requirements				verning bodies				
	and limitations		4.4.4	Escalation Procedures are developed and documented					
			4.5.3	Metrics are in place to track program adherence, progress and					
		Data Ovality	722	outcomes	. Making any continued represented and model to drive date				
		Data Quality	7.3.2	Data Quality Metrics are captured, reported and used to d					
		1	_	remediation					
		Prir	nciple 2: Data Arch	itecture and IT	Infrastructure				
32	RDAR is part of B	СР	Strategy	1.4.3	Operational concepts have been incorporated into				
32					the DMS				
32			IT Architecture	6.4	Operational risk planning is in place				
33	Bank needs integ	grated data	IT Architecture Strategy	6.4 1.3					
	Bank needs integ				Operational risk planning is in place				
	_	chitecture		1.3	Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains				
	taxonomy and ar	chitecture			Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of				
	taxonomy and ar (includes identified	chitecture		1.3	Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains Data architecture concepts have been incorporated				
	taxonomy and ar (includes identified	chitecture	Strategy	1.4.1	Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains Data architecture concepts have been incorporated into the DMS				
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	taxonomy and ar (includes identified	chitecture	Strategy Governance Data	1.3 1.4.1 4.2 4.3.1 5.1 5.2 5.3 7.2.1	Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains Data architecture concepts have been incorporated into the DMS Content governance is defined Policy and standards are written and complete Identify the data Define the data Govern the data All relevant data have been identified and prioritized				
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	taxonomy and ar (includes identified	chitecture	Governance Data Architecture	1.3 1.4.1 4.2 4.3.1 5.1 5.2 5.3 7.2.1	Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains Data architecture concepts have been incorporated into the DMS Content governance is defined Policy and standards are written and complete Identify the data Define the data Govern the data All relevant data have been identified and prioritized Data is profiled, analyzed and graded Critical end-to-end data flows and essential attributed				
	taxonomy and ar (includes identified	chitecture	Governance Data Architecture Data Quality	1.3 1.4.1 4.2 4.3.1 5.1 5.2 5.3 7.2.1 7.2.2	Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains Data architecture concepts have been incorporated into the DMS Content governance is defined Policy and standards are written and complete Identify the data Define the data Govern the data All relevant data have been identified and prioritized Data is profiled, analyzed and graded Critical end-to-end data flows and essential attribute for in-scope business processes are defined and				
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33	Roles and respondata ownership a across the data if for all dimension	nsibilities for are in place ifecycle and	Governance Data Architecture Data Quality Control Strategy DM Program	1.3 1.4.1 4.2 4.3.1 5.1 5.2 5.3 7.2.1 7.2.2 8.2.2 8.2.3 1.5.3 3.2 4.1 4.4.1	Operational risk planning is in place The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains Data architecture concepts have been incorporated into the DMS Content governance is defined Policy and standards are written and complete Identify the data Define the data Govern the data All relevant data have been identified and prioritized Data is profiled, analyzed and graded Critical end-to-end data flows and essential attribute for in-scope business processes are defined and mapped The compounding processes and calculations for derived and transformed data are identified, documented and mapped The DMS describes the governance structure, roles and responsibilities The data management organizational structure is created and implemented Data governance structure is created Funding Model is Operational Project review and approval processes are				

		Data Quality	7.1	Data quality program is established
		Control	8.2	Control environment supports the data management lifecycle
		Principle 3: A	accuracy & Inte	grity
36a	Must be able to generate accurate and reliable risk data. Controls should be robust	Governance	4.2	Content governance is defined
		Data	5.1	Identify the data
		Architecture	5.2	Define the data
			5.3	Govern the data
		Data Quality	7.1	Data quality program is established
			7.2	Quality of existing stores of data are identified and assessed
			7.3	Quality of new data is monitored, analyzed and reported
		Control	8.2	Control environment supports the data management lifecycle
			8.3	Control environment ensures that the discipline of data management is operating collaboratively with cross-organizational control functions
36b	Policies and procedures are needed to ensure control over	DM Program	3.1.2	The data management program has the authority to enforce adherence and compliance
	existing manual processes	Governance	4.3	Policy and standards are written and approved
		Control	8.2.2	Critical end-to-end data flows and essential attributes for in-scope business processes are defined and mapped
			8.2.3	The compounding processes and calculations for derived and transformed data are identified, documented and mapped
36c	Risk data should be reconciled with source data	Governance	4.2.2	Critical data elements (CDEs) have been identified and inventoried
			4.3	Policy and standards are written and approved
		Data Quality	7.2	Quality of existing stores of data are identified and assessed
			7.3	Quality of new data is monitored, analyzed and reported
		Control	8.2.2	Critical end-to-end data flows and essential attributes for in-scope business processes are defined and mapped
			8.2.3	The compounding processes and calculations for derived and transformed data are identified, documented and mapped
36d	Bank should strive to have a single authoritative source for	Strategy	1.2	High level business requirements have been documented and used to create the DMS
	risk data for each type of risk		1.3	The DMS defines the importance of identifying, prioritizing and assuring the appropriate use of authorized data domains
		Governance	4.2.1	Authorized data domains have been identified and inventoried
			4.2.2	Critical data elements (CDEs) have been identified and inventoried
			4.3	Policy and standards are written and approved
		Data	5.1	Identify the data (logically and physically)
		Architecture	5.3	Govern the data (establish sustainable data architecture governance)

		Control	8.2	Control environment supports the data managemen lifecycle	
			8.3.1	Control Function policies and standards are aligned with Data Management policies and standards	
36e	Risk personnel should have sufficient access to risk data	Strategy	1.3.2	The DMS articulates the importance of establishing policy to enforce appropriate use of authorized data domains	
		Governance	4.3	Policy and standards are written and approved	
		GO TO THE HOLD OF	4.5.1	Project review and approval processes are established	
		Technology Architecture	5.3.1	Data architecture governance procedures are established to ensure authorized as well as controlled use of data	
		Control	8.1	A data control environment is established and operational	
37	Bank should have a dictionary	Data Quality	4.2	Content governance is defined	
	of the concepts used to ensure	Data	5.1	Identify the data	
	that data is consistently defined	Architecture	5.2	Define the data	
38	There should be an appropriate balance between automated and manual systems	Strategy	1.1.2	The DMS is aligned with the high-level organization objectives	
39	Document and explain RDA	Governance	4.2	Content governance is defined	
	processes including		4.3	Policy and standards are written and approved	
	appropriateness of manual workarounds		4.4.3	Data Requirements are captured and prioritized	
			4.4.4	Escalation Procedures are developed and documented	
		Data	5.1	Identify the data	
		Architecture	5.2	Define the data	
		Data Quality	7.1	Data quality program is established	
			7.2	Quality of existing stores of data are identified and assessed	
		Control	8.2.2	Critical end-to-end data flows and essential attributes for in-scope business processes are defined and mapped	
			8.2.3	The compounding processes and calculations for derived and transformed data are identified, documented and mapped	
40	Bank needs to measure and monitor the accuracy of data	Strategy	1.6	The DMS defines how the data management program will be measured and evaluated	
	and develop escalation plans	Governance	4.3	Policy and standards are written and approved	
	to remediate		4.4.4	Escalation Procedures are developed and documented	
			4.5.2	Policy and standards are enforceable and auditable	
			4.5.3	Metrics are in place to track program adherence, progress and outcomes	
		Data Quality	7.1	Data quality program is established	
			7.2	Quality of existing stores of data are identified and assessed	
			7.3	Quality of new data is monitored, analyzed and reported	

		Principle 4	: Completenes	s
41	RDA capabilities should include all material risk exposures	Strategy	1.2	High level business requirements are captured, prioritized, and integrated into the DMS
	(including off balance sheet)	Governance	4.2	Content governance is defined
	, , , , , , , , , , , , , , , , , , , ,		4.3	Policy and standards are written and approved
		Data	5.1	Identify the data
		Architecture	5.2	Define the data
		7 ii dinicecture	5.3	Govern the data
		Data Quality	7.1	Data quality program is established
		Data Quality	7.1	Quality of existing stores of data are identified and
				assessed
			7.3	Quality of new data is monitored, analyzed and reported
		Control	8.2.2	Critical end-to-end data flows and essential attributes for in-scope business processes are defined and mapped
			8.2.3	The compounding processes and calculations for derived and transformed data are identified, documented and mapped
42	Make approach used to aggregate risk exposure	Strategy	1.2	High level business requirements are captured, prioritized, and integrated into the DMS
	transparent	Governance	4.2	Content governance is defined
			4.3	Policy and standards are written and approved
		Data	5.1	Identify the data
		Architecture	5.2	Define the data
			5.3	Govern the data
		Data Quality	7.1	Data quality program is established
		,	7.2	Quality of existing stores of data are identified and assessed
			7.3	Quality of new data is monitored, analyzed and reported
		Control	8.2.2	Critical end-to-end data flows and essential attributes for in-scope business processes are defined and mapped
			8.2.3	The compounding processes and calculations for derived and transformed data are identified, documented and mapped
43	Aggregated risk data needs to be complete (exceptions need	Strategy	1.2	High level business requirements are captured, prioritized, and integrated into the DMS
	to be identified and explained)	Governance	4.2	Content governance is defined
			4.3	Policy and standards are written and approved
		Data	5.1	Identify the data
		Architecture	5.2	Define the data
			5.3	Govern the data
		Data Quality	7.1	Data quality program is established
		,	7.2	Quality of existing stores of data are identified and assessed
			7.3	Quality of new data is monitored, analyzed and reported
		Control	8.2.2	Critical end-to-end data flows and essential attributes for in-scope business processes are defined and mapped
			8.2.3	The compounding processes and calculations for derived and transformed data are identified, documented and mapped

		Principle	5 - Timeliness	
44	Must be able to produce risk information on timely basis (to	Strategy	1.2	High level business requirements are captured, prioritized, and integrated into the DMS
	meet all reporting	Control	8.2.2	Critical end-to-end data flows and essential
	requirements)			attributes for in-scope business processes are
	,			defined and mapped
			8.2.3	The compounding processes and calculations for
				derived and transformed data are identified,
				documented and mapped
45	Banks must be able to produce	Governance	4.2	Content governance is defined
	aggregated risk data rapidly	Data	5.1	Identify the data
	during times of stress	Architecture	5.2	Defined the data
	3 • • • • • • • • • • • • • • • • • • •		5.3.	Govern the data
		Technology	6.1	Technology architecture is defined and governed
		Architecture	6.2	Data technology tool stack is identified and
		Architecture	0.2	
			6.3	governed Data storage management strategy defined and
			0.5	governed
			6.4	Operational risk planning is in place
46	DDAD source the full score of	Ctrotogu	1.2	
46	RDAR covers the full scope of	Strategy	1.2	High level business requirements are captured,
	critical risks (i.e. aggregate		1.2	prioritized, and integrated into the DMS
	exposure, counterparty risk,		1.3	The DMS defines the importance of identifying,
	transitive exposure. Trading			prioritizing and assuring the appropriate use of
	exposure, positions, operating limits, market concentration,			authorized data domains
		Data Architecture	5.1	Identify the data
	liquidity risk, state contingent		5.2	Define the data
	cash flow, operational risk)		5.3	Govern the data
		Control	8.2	A d control environment supports the data
				management lifecycle
47	Supervisors will review the	Strategy	1.6.2	The DMS defines the importance of developing
	bank frequency requirements			metrics to determine and track data quality
	(both normal and stress		1.6.3	The DMS defines the importance of developing
	situations) to generate			outcome metrics to determine the effectiveness o
	aggregate and up-to-date risk			the data management program
	reporting in a timely manner	Governance	4.5.3	Metrics are in place to track program adherence,
				progress and outcomes
		Principle	6 - Adaptability	
48	RDA capabilities must be	Strategy	1.1.2	The DMS is aligned with the high-level organization
	flexible and able to adapt to			objectives
	meet on-demand, ad hoc		1.4	The DMS is aligned with and mapped to
	requests (including during			architectural, IT and operational capabilities
	crisis situations)	DM Program	3.2	The roadmaps for the data management program
				are developed, socialized and approved
			3.3.	Stakeholder engagement established and confirme
			3.5.2	Issue identification, prioritization, escalation and
				conflict resolution are defined and operational
			3.5.3	Metrics (i.e.: KPIs, KRIs) are defined and used to
				track Program progress
		Governance	4.2	Content governance is defined
			4.6.2	Data storage governance is established
		1	4.6.3	Data distribution governance is established
			4.6.4	Data tool governance is established

		Data	5.2	Define the data
		Architecture	5.3	Govern the data (establish sustainable data
				architecture governance)
		Technology Architecture	6.1.1	Technology architecture strategy is defined and agreed to by relevant stakeholders
			6.1.2	An actionable roadmap is developed and adopted for implementation of the technology architecture
			6.4.1	Data infrastructure contingency planning is defined and in place
		Data Ovality	7.1	•
		Data Quality	7.1	Data quality program is established Quality of existing stores of data are identified and
				assessed
			7.3	Quality of new data is monitored, analyzed and reported
		Control	8.2.2	Critical end-to-end data flows and essential
				attributes for in-scope business processes are defined and mapped
			8.2.3	The compounding processes and calculations for
				derived and transformed data are identified,
				documented and mapped
49a	Flexible data aggregation processes		:	See Paragraph 48 above
49b	Capabilities for data customization to drill down as	Strategy	1.1.2	The DMS is aligned with the high-level organizationa objectives
	needed		1.4	The DMS is aligned with and mapped to
				architectural, IT and operational capabilities
		Governance	4.2	Content governance is defined
		Data	5.1	Identify the data
		Architecture	5.2	Define the data
			5.3	Govern the data
		Technology Architecture	6.1	Technology architecture is defined and governed
			6.2	Data technology tool stack is identified and governed
		Control	8.2	Control environment supports the data managemen lifecycle
49c	Capability to incorporate new de	evelopments on the	organization of	the business (and external factors) that influence the risl
49d	Capability to incorporate changes in the regulatory	Strategy	1.2	High level business requirements are captured, prioritized, and integrated into the DMS
	framework		1.4	he DMS is aligned with and mapped to architectural, IT and operational capabilities
		DM Program	3.5.2	Communication plans with external regulatory bodies are created and approved
		Governance	4.2	Content governance is defined
		Data	5.1	Identify the data
		Architecture	5.2	Define the data
			5.3	Govern the data
		Technology	6.1	Technology architecture is defined and governed
		Architecture	6.2	Data technology tool stack is identified and governed
			6.3	Data storage management strategy defined and governed
			6.4	Operational risk planning is in place
		Control	8.2	Control environment supports the data managemen
				lifecycle

		T	1				
50	Capability to generate subsets of data based on requested	Strategy	1.1.2	The DMS is aligonalised objectives	ned with the high-level organizational		
	economic scenarios		1.4	The DMS is aligned with and mapped to			
			2		T and operational capabilities		
		Governance	4.2		nance is defined		
		Data	5.1	Identify the da			
		Architecture	5.2	Define the data			
			5.3	Govern the dat			
		Technology	6.1		chitecture is defined and governed		
		Architecture	6.2		gy tool stack is identified and		
		7.11.01.11.00.00.01.0	0.2	governed	sy toor stack is facilitined and		
			6.3		nanagement strategy defined and		
			0.5	governed	idiagement strategy defined and		
			6.4		k planning is in place		
		Control	8.2		environment supports the data		
		Control	0.2	management l			
					The DCAM capabilities required to support		
		Risk Reporting –	Principle 7: Acc	uracy	Principle 3 (accuracy and integrity) are the same as those needed to enable Principle 7		
52	Risk reports must be accurate a	nd give stakeholders	confidence to m	nake decisions abo	ut risk		
53a	Defined requirements and proce	esses to reconcile re	oorts to risk data	1			
53b	Reasonableness checks for accu	racy including an inv	entory of busine	ss rules and conve	ntions used		
53c	Procedures for identifying, repo	rting and explaining	data errors or w	eaknesses in data	integrity		
54	Justification of approximations						
55	Requirements for accuracy and precision in risk reporting in all circumstances						
56	Accuracy of risk reporting the analogous to accounting materiality						
		Principle 8 - C	omprehensiven	ess	The DCAM capabilities required to support Principle 4 (completeness) are needed to enable Principle 8		
57	Risk reports should include exposure and position information for all significant risk areas and all significant components of risk						
58	Risk reports should identify emerging risk concentrations, limits, risk tolerances and propose actions for remediation						
59	Risk reporting requirements should reflect banks business models and risk profiles						
60	Risk reporting should provide a			p			
			arity and Usefuli	ness	The DCAM capabilities required to support Principle 6 (adaptability) are the same as those needed to enable Principle 9		
61	Risk reports need to be meaning	ful to stakeholders	and contribute to	o sound decision m			
62	Risk reports need to be meaningful to stakeholders and contribute to sound decision making Risk reports should include a balance between risk data, analysis and interpretation						
63	Reporting policies and procedur						
64	The BOD should ensure that it is receiving reports that align with internal risk reporting and compliance obligations						
65	BOD should alert senior management when risk reports are not providing the right level of information needed for risk						
66	monitoring Senior management should ensure that it is receiving relevant information						
67	Bank should develop an inventory and classification of risk data items						
68	Risk reports should be clear and useful with an appropriate balance between data, analysis and conclusions						
69	Bank should confirm with recipients that the information aggregated and reported is relevant and appropriate						
09	Bank should commit with recipi		10 - Frequency		sievant and appropriate		
70	Bank should assess the frequency				roduce in all circumstances		
70	Bank should assess the frequency requirements for each report and test its ability to produce in all circumstances Some reports on credit, market and liquidity position and exposure reports are needed intraday						
, 1	1 Some reports on credit, market		11 - Distributior		niciaaay		
72	Procedures should be in place to						
	Procedures should be in place to allow for rapid collection and analysis of risk data Bank needs to periodically confirm that relevant recipients receive timely reports						
73	I Rank needs to periodically conti	rm that rainvant rac	DIANTE PACANIA TI	maly rancets			