CHAPTER 4 COBIT GOVERNANCE AND MANAGEMENT OBJECTIVES—DETAILED GUIDANCE

Descri	gement Objective: DSS02 - Managed Service Requests and In option			Focus Area: COBIT Core Model
Provid reques	e timely and effective response to user requests and resolutio sts; and record, investigate, diagnose, escalate and resolve inc	n of all	types of	incidents. Restore normal service; record and fulfil user
Purpos	se .			
Achiev deal w	e increased productivity and minimize disruptions through qui ith service incidents. Resolve user requests and restore servic	ick reso e in res	lution of	user queries and incidents. Assess the impact of changes and
The ma	anagement objective supports the achievement of a set of pr	marv e	nterorise	and alignment goals:
Enterp	rise Goals		With the Control of the	ment Goals
• EG01 • EG08	A COMPANY OF COMPETITIVE PRODUCTS AND SELVICES		AG05	Delivery of I&T services in line with business requirements
Examp	le Metrics for Enterprise Goals		Examp	le Metrics for Alignment Goals
EG01	Percent of products and services that meet or exceed targets in revenues and/or market share Percent of products and services that meet or exceed customer satisfaction targets Percent of products and services that provide competitive advantage Time to market for new products and services		AG05	a. Percent of business stakeholders satisfied that I&T service delivery meets agreed service levels b. Number of business disruptions due to I&T service incidents c. Percent of users satisfied with the quality of I&T service delivery
G08	a. Satisfaction levels of board and executive management with business process capabilities b. Satisfaction levels of customers with service delivery capabilities c. Satisfaction levels of suppliers with supply chain capabilities			

Management Practice	Example Metrics		
DSS02.01 Define classification schemes for incidents and service requests. Define classification schemes and models for incidents and service requests.	a. Total number of service requests and incidents per prid b. Total number of incidents escalated	ority level	
Activities	1	er-religioner resources	
Define incident and service request classification and prioritization solinformation to ensure consistent approaches for handling and informit	hemes, and criteria for problem registration. Use this	Capability Level	
Define incident models for known errors to enable efficient and effective resolution.			
3. Define service request models according to service request type to enable self-help and efficient service for standard requests.			
4. Define incident escalation rules and procedures, especially for major incidents and security incidents.			
5. Define knowledge sources on incidents and requests and describe how	to use them		
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference		
CMMI Cybermaturity Platform, 2018	IA.IP Implement Incident Investigation Processes		
HITRUST CSF version 9, September 2017	11.01 Reporting Information Security Incidents and Wea	a	
SF, The Standard of Good Practice for Information Security 2016	TM2 Security Incident Management	Knesses	
SO/IEC 20000-1:2011(E)	8.1 Incident and service request management		
SO/IEC 27002:2013/Cor.2:2015(E)	16. Information security incident management		

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A. Component: Process (cant.)		
Management Practice	Example Metrics	
DSS02.02 Record, classify and prioritize requests and incidents. Identify, record and classify service requests and incidents and assign a	a. Number of types and categories defined for recording and incidents	g service requests
priority according to business criticality and service agreements.	b. Number of service requests and incidents that are no	t categorized
Activities		Capability Level
Log all service requests and incidents, recording all relevant information record can be maintained.	n, so they can be handled effectively and a full historical	2
2. To enable trend analysis, classify service requests and incidents by ider	ntifying type and category.	
3. Prioritize service requests and incidents based on the SLA service defin	ition of business impact and urgency.	
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference	
No related guidance for this management practice		
Management Practice	Example Metrics	
DSS02.03 Verify, approve and fulfill service requests. Select the appropriate request procedures and verify that the service requests fulfill defined request criteria. Obtain approval, if required, and fulfill the requests.	a. Mean elapsed time for handling each type of service b. Percent of service requests that fulfill defined reques	
Activities		Capability Level
1. Verify entitlement for service requests using, where possible, a predefin	ed process flow and standard changes.	2
2. Obtain financial and functional approval or sign-off, if required, or prede	fined approvals for agreed standard changes.	
Fulfill the requests by performing the selected request procedure. Where predefined request models for frequently requested items.	possible, use self-help automated menus and	3
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference	
ITIL V3, 2011	Service Operation, 4.3 Request Fulfilment	
Management Practice	Example Metrics	
DSS02.04 Investigate, diagnose and allocate incidents. Identify and record incident symptoms, determine possible causes, and allocate for resolution.	a. Number of identified and recorded incident symptom b. Number of correctly determined symptom causes c. Number of duplicate problems in the reference log	5
Activities		Capability Level
 Identify and describe relevant symptoms to establish the most probable knowledge resources (including known errors and problems) to identify and/or permanent solutions). 	causes of the incidents. Reference available possible incident resolutions (temporary workarounds	2
If a related problem or known error does not already exist and if the inciding a new problem.	dent satisfies agreed criteria for problem registration,	
3. Assign incidents to specialist functions if deeper expertise is needed. En if needed.	ngage the appropriate level of management, where and	
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference	
Related Guidance (Standards, Frameworks, Compliance Requirements) No related guidance for this management practice	Detailed Reference	
	Detailed Reference Example Metrics	
No related guidance for this management practice		d recovery
No related guidance for this management practice Management Practice DSS02.05 Resolve and recover from incidents. Document, apply and test the identified solutions or workarounds.	Example Metrics a. Percent of incidents resolved within agreed SLA b. Percent of stakeholder satisfaction with resolution an	d recovery Capability Level
No related guidance for this management practice Management Practice DSS02.05 Resolve and recover from incidents. Document, apply and test the identified solutions or workarounds. Perform recovery actions to restore the I&T-related service.	Example Metrics a. Percent of incidents resolved within agreed SLA b. Percent of stakeholder satisfaction with resolution an from incident	
No related guidance for this management practice Management Practice DSS02.05 Resolve and recover from incidents. Document, apply and test the identified solutions or workarounds. Perform recovery actions to restore the I&T-related service. Activities	Example Metrics a. Percent of incidents resolved within agreed SLA b. Percent of stakeholder satisfaction with resolution an from incident	Capability Level
No related guidance for this management practice Management Practice DSS02.05 Resolve and recover from incidents. Document, apply and test the identified solutions or workarounds. Perform recovery actions to restore the I&T-related service. Activities 1. Select and apply the most appropriate incident resolutions (temporary was appropriate incident resolutions).	Example Metrics a. Percent of incidents resolved within agreed SLA b. Percent of stakeholder satisfaction with resolution an from incident	Capability Level

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A. Component: Process (cont.)		
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference	
ITIL V3, 2011	Service Operation, 4.2 Incident Management	
National Institute of Standards and Technology Framework for Improving Critical Infrastructure Cybersecurity v1.1, April 2018	RC.RP Recovery Planning	
National Institute of Standards and Technology Special Publication 800-53, Revision 5 (Draft), August 2017	3.9 Incident response (IR-4, IR-5, IR-6)	
The CIS Critical Security Controls for Effective Cyber Defense Version 6.1, August 201	CSC 19: Incident Response and Management	**************************************
Management Practice	Example Metrics	
DSS02.06 Close service requests and incidents. Verify satisfactory incident resolution and/or fulfilment of requests, and close.	a. Level of user satisfaction with service request fulfilm b. Percent of incidents resolved within an agreed/acce of time	nent ptable period
Activities		Capability Level
Verify with the affected users that the service request has been fulfilled satisfactorily and within an agreed/acceptable period of time.	satisfactorily or the incident has been resolved	2
2. Close service requests and incidents.		1
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference	
No related guidance for this management practice		
Management Practice	Example Metrics	
DSS02.07 Track status and produce reports. Regularly track, analyze and report incidents and fulfilment of requests. Examine trends to provide information for continual improvement.	a. Mean time between incidents for the I&T-enabled ser b. Number and percent of incidents causing disruption business-critical processes	
Activities		Capability Level
Monitor and track incident escalations and resolutions and request han completion.	dling procedures to progress toward resolution or	2
2 Identify information stakeholders and their needs for data or reports. Ide	entify reporting frequency and medium.	3
3. Produce and distribute timely reports or provide controlled access to or	line data.	4
 Analyze incidents and service requests by category and type. Establish breaches or inefficiencies. 	trends and identify patterns of recurring issues, SLA	
5. Use the information as input to continual improvement planning.		5
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference	
CMMI Cybermaturity Platform, 2018	Mi.IM Ensure Incident Mitigation; IR.IR Incident Reporti	ng
National Institute of Standards and Technology Special Publication 800-53, Revision 5 (Draft), August 2017	3.9 Incident response (IR-7, IR-8)	

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B. Component: Organizational Structures Key Management Practice		Chief Technology Officer	Business Process Owners	Head Development	Head IT Operations	Service Manager	Information Security Manager
DSS02.01 Define classification schemes for incidents and service requests	S.	A	Π	R	R	R	П
DSS02.02 Record, classify and prioritize requests and incidents.		Α		 	R	R	П
DSS02.03 Verify, approve and fulfil service requests.		Α	R	R	R	R	П
DSS02.04 Investigate, diagnose and allocate incidents.		Α	R	Γ	R	R	П
DSS02.05 Resolve and recover from incidents.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A		R	R	R	R
DSS02.06 Close service requests and incidents.		Α	T	Ħ	R	R	R
DSS02.07 Track status and produce reports.		A	T	Г	R	R	
Related Guidance (Standards, Frameworks, Compliance Requirements)	Detailed Reference						
ISO/IEC 27002:2013/Cor.2:2015(E)	16.1.1 Responsibilities and procedures						

C. Component: Information Flows and Items (see also Se	ction 3.6)			
Management Practice		Inputs	Outputs	
DSS02.01 Define classification schemes for incidents	From	Description	Description	То
and service requests.	AP009,03	SLAs	Criteria for problem registration	DSS03.01
	BAI10.02	Configuration repository	Rules for incident escalation	Internal
	BAI10.03	Updated repository with configuration items	Incident and service request classification	Internal
	BA110.04	Configuration status reports	schemes and models	
	DSS01.03	Asset monitoring rules and event conditions		ĺ
	DSS03.01	Problem classification scheme		
	DSS04.03	Incident response actions and communications		
DSS02.02 Record, classify and prioritize requests and incidents.	AP009.03	SLAs	Classified and prioritized incidents and service requests	AP008.03; AP009.04; AP013.03; DSS03.05
	BAI04.05	Emergency escalation procedure	Incident and service request log	Internal; MEA04.07
	DS\$01.03	Asset monitoring rules and event conditions Incident tickets		
	DS\$05.07	Security-related incident tickets]	

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Management Practice		Inputs	Outputs		
DSS02.03 Verify, approve and fulfil service requests.	From	Description	Description	То	
•	AP012.06	Risk-related root causes	Approved service requests	BAI06.01	
			Fulfilled service requests	Internal	
DSS02.04 Investigate, diagnose and allocate incidents.	BA107.07	Supplemental support	Problem log	DSS03.01	
		plan	Incident symptoms	internal	
DSS02.05 Resolve and recover from incidents.	AP012.06	Risk-related incident response plans	Incident resolutions	DSS03.03; DSS03.04;	
	DSS03.03	Known error records		DSS03.05	
	DSS03.04	Communication of knowledge learned		MEA04.07	
OSS02.06 Close service requests and incidents.	DSS03.04	Closed problem records	User confirmation of satisfactory fulfilment or resolution	AP008.03	
			Closed service requests and incidents	AP008.03, AP009.04, DSS03.04	
ISS02.07 Track status and produce reports.	AP009.03	OLAs	Incident status and trends report	AP008.03; AP009.04; AP011.04; AP012.01; MEA01.03	
	DSS03.01	Problem status reports	Request fulfilment status	AP008.03:	
	DSS03.02	Problem resolution reports	and trends report	AP009.04; AP011.04;	
	DSS03.05	Problem resolution monitoring reports		MEA01.03	

Skill	Related Guidance (Standards, Frameworks, Compliance Requirements)	
Application support	Skills Framework for the Information Age V6, 2015	Detailed Reference
Customer service support	Skills Framework for the Information Age V6, 2015	ASUP
Incident management	Skills Framework for the Information Age V6, 2015	USUP
Network support	Skills Framework for the Information Age V6, 2015	NTAS
User support	e-Competence Framework (e-CF)—A common European Framework for ICT Professionals in all Industry sectors—Part 1: Framework, 2016	C. Run-C.1. User Support

E. Component: Policies and Procedo Relevant Policy	Policy Description	51/2/6/2	
Service request policy	A	Related Guidance ITIL V3, 2011	Detailed Reference Service Operation, 3. Service operation principles

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F. Component: Culture, Ethics and Behavior		
Key Culture Elements	Related Guidance	Detailed Reference
Enable employees to identify incidents on a correct and timely basis and implement appropriate escalation paths. Encourage prevention. Respond to and resolve incidents immediately. Avoid a hero culture.		Pedito receive

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G. Companyord: Complex Left - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
G. Component: Services, Infrastructure and Applications	
Incident tracking tools and system	