

Risk and Criticality for Service Management in Service-Now

Risk = Threat * Vulnerability * Criticality

V 1.0 October 2012

Service Management Team CERN

All lazy functional managers need to know

All lazy functional manage	rs need	to know		
		Services CERN Service Portal -	2	CERN
RN Users' pages ×	⊕ ☆ ∜	CERN Service Desk: x77	-777	
URL Encoding		CERN Search -		
cern.ch/service-portal at CERN cerr	74444 .ch/emergencies	Find your function from the	service portal	
alogue Contacts My Profile Site Guide Service Sta	itus	1. Click link on cern homepa	age and search f	for your function(s)
		2. Option 2: Search portal fr	om CERN home	page
Stores Urgency Counter (GS-IS-SO) Edit		3. Click Edit on your functio	n's page in the j	portal
Delivery of urgent orders and manage material return.				
Keywords (?): urgent orders, demandes urgentes, 54.50.40.900.1, c urgences, Central store Magasin central, material return, materials return orklog:	ounter, guichet des irned,retour de	4. Scroll to the bottom of the	e page and seled	ct the Risks tab
		5. Click a 'risk name' vou wa	ant to edit	
elated Items: 🔶 📰 🔚 🔲 Show 4 💌 Levels				
ownstream relationships	Upstream rela	6. Change the vulnerability (optionally add [Description)
🖗 Stores Urgency Counter	🖃 👰 Stores U	,	(• p • • • • • • • • • • • •	
odate Save Delete CI	Mater	7. Save or Update \rightarrow That's	ALL!!!!! (thanks	for your attention)
nks (2) Activities (2) Provided goods and products Functional Element Categories Functional	I Element Parameters Qu	estionnaires (3) Knowledg Functional Element Risks	s (8)	
unctional Element Risks 💌 New Go to Risk name 💌 Q			(1 to 8 of 8)	» E
Q Risk name	Threat	💿 Vulnerability 🕥 Risk	Risk Class	
Material Failure / Loss of Tool / Function / Data for Stores Urgency Counter	Materia Externa			
Confidentiality / Legal / Reputation for Stores Urgency Counter	Confide Risk ID:	RISK0007284	Risk name: Mat	erial Failure / Loss of Tool / Function / Da
Disaster for Stores Urgency Counter	Disaste Applies to:	Functional Element: Stores Urgency Counter	🔍 🐻 Risk:	192
Terrorist Attack for Stores Urgency Counter	Terroris Business critical	ity: 4 - Limited	Risk Class:	4
Inside Attack (Intentional Malicious Acts / Fraud / Hacking) for Stores Urgency Counter	Inside /	Material Failure / Loss of 🔽 👩		
5 Single point of failure / No plan B / Strike for Stores Urgency Counter	Single			

All lazy service-owners need to know

	77777	Safety at CERN	7	ิ कि ☆ 74444	•	Criticality determ outage for THE B The higher the cu necessary to mit	ines the in BUSINESS ((riticality, th igate risks.	npact of a CERN as a e more e	a service a whole). ffort is	N_
Home > Sear	rch: <i>stores</i> > Stor	age Service for	Proiects & Ex	periments		Reinoud Marter	ns Admin [Log out]	Page time: 489 ms	Name, Address an	na wore
CE	ERN News Nav	Seas	rvi sy acces logue 0	CC ss to s Contacts	P servi	Ortal aces at CERN y Profile Site Guide	Search: stores Service Status	Q	CERN Service Po CERN Service De Search in CEF CERN Search - Document Servel Technical Docum Site Alphabetical	ortal - esk: x77777 RN (CDS) - nents (EDMS) I Index
				_			. C	3		
Catalog Customer Service: Pe Customer Group: Service Owner Group: Lifecycle phase:	navigation ersonnel Support Se Personnel Contrac Personnel Contrac Retired	rvice t Lifecycle Servic t Lifecycle Servic	Stora	age Se © ^{es} Q © Q ©	ervice es activi eration	e for Projects & Exp ities and systems required to s of storage services for all aspe Find your service(eriment pupport and ensure t ects of physics data (s) from the s	Edit 3 at CERN	rtal	
Catalog Customer Service: Pe Customer Group: Service Owner Group: Lifecycle phase: Visibility: Service hours: Support hours:	navigation ersonnel Support Se Personnel Contrac Personnel Contrac Retired CERN	t Lifecycle Servic	Stora	age Se © es © co © co © co	ervice es activi eration	e for Projects & Exp ities and systems required to s of storage services for all aspe Find your service(1. Click link on ce	beriment aupport and ensure t ects of physics data (s) from the s rn homepage	Edit 3 at CERN service por e and sear	rtal ch for your s	ervice(s)
Catalog Customer Service: Pe Customer Group: Service Owner Group: Lifecycle phase: Visibility: Service hours: Support hours: Operational hours: Portal URL Alias: SLA notifications:	navigation ersonnel Support Se Personnel Contrac Retired CERN personnel-contract	t Lifecycle Servic t Lifecycle Servic T	S Stora	age Se	ervice es activi eration	e for Projects & Exp ities and systems required to s of storage services for all aspe Find your service(1. Click link on ce 2. Option 2: Searc	beriment aupport and ensure t ects of physics data (s) from the s rn homepage th portal from	Edit 3 at CERN service por e and sear n CERN ho	rtal ch for your so omepage	ervice(s)
Catalog Customer Service: Per Customer Group: Service Owner Group: Lifecycle phase: Visibility: Service hours: Support hours: Operational hours: Portal URL Alias: SLA notifications: Business criticality:	Personnel Support Se Personnel Contrac Personnel Contrac Retired CERN personnel-contract	rvice t Lifecycle Servic t Lifecycle Servic	S Stora	age Se	ervice es activi eration	e for Projects & Exp ities and systems required to s of storage services for all aspe Find your service(1. Click link on ce 2. Option 2: Searc 3. Click Edit on yo	beriment aupport and ensure t ects of physics data (s) from the s rn homepage th portal from our service's	Edit 3 at CERN service por e and sear n CERN ho page in th	rtal ch for your so omepage e portal	ervice(s)
Catalog Customer Service: Pe Customer Group: Service Owner Group: Lifecycle phase: Visibility: Service hours: Support hours: Operational hours: Portal URL Alias: SLA notifications: Business criticality: General description: This service provides st terminating contracts.	A constraints of the second se	t Lifecycle Servic	S Stora	related mat	ervice	e for Projects & Exp ities and systems required to s of storage services for all aspe Find your service(1. Click link on cel 2. Option 2: Searc 3. Click Edit on yo 4. Select appropria	eriment apport and ensure to ects of physics data (s) from the s rn homepage th portal from our service's ate criticality	Edit 3 at CERN service por e and sear n CERN ho page in th y in Busine	rtal ch for your so omepage e portal ess Criticality	ervice(s) drop down



For the ones that want to know more:

Risk = Threat * Vulnerability * Criticality

Criticality	Criticality (impact if we 'loose' the service)								
		Factor	DG scale	Criteria to help in the classification of criticality	Safety Risk				
	Nil	1	1	very few people affected; people can work on 'other' activities; workaround exists; cost < 1KCHF; safety is not affected; only visible in small contained area; no reputation issue					
Minor	Hardly visible	2	1	several people affected; cost <5KCHF; safety is not affected; not visible outside CERN; no reputation issue	Nil / Very Limited				
	Very limited	3	1	small group of people affected; cost <10KCHF; safety is not affected; not visible outside CERN; no reputation issue					
	Limited 4 Visible 5		1	considerable number of people affected (>20); cost <20KCHF; possibly affecting people outside central services; no reputation issue					
Average			1	considerable number of people affected (>50); cost <50KCHF; possibly affecting people outside CERN; CERN reputation possibly slightly affected	Limited				
	Significant	6	1	considerable number of people affected (>100); cost <100KCHF; seriously affecting considerable population inside and outside CERN; CERN reputation possibly affected					
Major	Very significant	7	2	considerable number of people affected (>500); cost <400KCHF; seriously affecting very significant population inside and outside CERN; CERN reputation most likely affected	Significant				
Majoi	Important	8	2	large number of people affected (>1000); cost <1MCHF; very seriously affecting large population inside and outside CERN; significant risk to CERN reputation	Significant				
Critical	Disastrous	9	3	large number of people affected (>1000); cost <10MCHF; affecting very large population inside and outside CERN; putting survival of CERN at risk; possible serious injuries	Major				
Childen	Catastrophic	10	5	large number of people affected (>1000); cost >10MCHF; affecting large population inside and outside CERN; putting survival of CERN at big risk; possible loss of life	110,01				

Criticality in Service-Now (Service Element)

Lutopean organization for nuclear nesearch

Malana Balanda Madana Adata 🤗				
Welcome: Reinoud Martens Admin			*	
elemen 💿 A A 🕫 🔻	G - Service Element	= Required field		
Business Services	This Service Element	nt contains 4 relationship with impact A.	Please consider changing any of them to have a proper configuration with only one relationship with the	
CERN Service Catalog	Name: Personnel Cor	ntract Lifecycle Service		
Service Elements	Customer Service: Pe	ersonnel Support Service	Q 6	
My Assignments	Customer Group:	Personnel Contract Lifecycle Service C	Customers Q. 6	
My Service Elements	Service Owner Group:	Personnel Contract Lifecycle Service O	Dwners Q. G	
My Functional Elements	Lifecycle phase:	Retired		
Configuration	Visibility:	CERN		
Functional Element Parameter	Service hours:			
Reports 🌣	Support hours:			
	Operational hours:			
Service Element colors	Portal URL Alias:	personnel-contract-lifecyc		
Suctem Import Sets	SLA notifications:			
= Import Set Tables	Business criticality:	4 - Limited		
JDBC ORACLE CSC Service Eleme	General description:	1 - Nil 2 - Hardly visible		
JDBC ORACLE Element Links Relat	i This service provides s	u 3 - Very limited Ilows on a	all contract-related matters from contract preparation to signing, updating, modifying, extending and	
JDBC ORACLE Elements Links Rela	terminating contracts.	5 - Visible		
		7 - Very significant		
		8 - Important 9 - Disastrous		
	Capacities:	10 - Catastrophic	Defined on Service Element level maintained h	v service-owner
LA notifications:				y convice owner
usiness criticality: 4 - Limite	ed 💌		4. Colort the comice from the Why Comice Flow	a mén l
eneral description: 2 - Hard	y visible		1. Select the service from the fwy Service Elem	ents
is service provides su 3 - Very 4 - Limite	limited llow	s on all contract-related matters from		
minating contracts. 5 - Visibl	e		2. Select appropriate criticality from drop down	menu
6 - Signi 7 - Ven	significant			
8 - Im C	onsiderable number of p	people affected (>100); cost	3. Hovering over menu options shows hints	
apacities: 10 - C p	opulation inside and ou	tside CERN; CERN reputation		
P	ossibly affected		A Coverse was a been not (Cover on the data buttons	n bottom of correct)
ther quality parameters:			4. Save your changes (Save or Update button o	n bottom of screen).

CERN

Criticality: alternative route to your Service Element



Home > Search: stores > Material Request Service

Reinoud Martens Admin [Log out] Françai

	CERN Se	ervice P asy access to servi	ortal	Search: stores C
	Home News Navigate Ca	talogue Contacts My	y Profile Site Guide	Service Status
	Contacts Central Stores and Stores Urgency window	Material Reque This service is responsible f	or handling material request.	Including materials supply.
Service Element = Require Name: Material Request Service Customer Service: Material and Storage Servic Customer Group: Material Request Servic Service Owner Group: Material Request Servic Lifecycle phase: Operation Visibility: CERN	Phone: + 41 22 767 3902 Location: 73/R-002 Working days from 7:50 to 11:50 and from 10:00 to 16:15 Special clothes & shoes stores Phone: + 41 22 767 3902 Location: 73/R-002 Working days from 13:30 to 15:30 Stores: chemical products Phone: +41 22 767 3109	Features provided include in standard items as well as o Keywords (?) : logistics, m standard items, SCEM, CER provisions, fournitures, mat Window, Urgency counter, s Retour de matériel Bossard magasin central stores Stor mask	narket surveys and price enquinarket surveys and price enquinaterials provision, materials son catalog, stores catalog, material standard, CERN catalog Stores Urgency window, gas, Distrelec, Farnell, Lyreco, Rates Urgency, Stores urgency w	uiries, handling of contracts for including. supplies, standard items, non- aterial request, logistique, ue, requête matériel, Urgency gaz, aftersales, apres-vente, adiospares, SFS, store, stores, window Safety masks, Safety
Service hours:		You can also get to vo	our service via the ser	vice portal.
Support hours: Working Days From 07: Operational hours: Alltime Portal URL Alias: material-request	30 To 11:50 And From 13:00 To 16:15	1. Service-Owners hav	ve an Edit option on tl	heir service pages.
SLA - Weither Hereit Business criticality: 4 - Limited		2. This opens the serv	vice element maintena	ince page
General description. This service is responsible for handling material is contracts for standard items as well as orders for	requests including materials supply. Features prov non-standard items including.	3. From where the Cri	ticality field can be ch	anged.

Capacities:

Criticality in Service-Now (Functional Element)

		•		-	
Name:	Stores Urgency Counter		Functional Manager Group:	Stores Urgency Counter Functional Man	ager 🔍 🐻
Organic Unit:	GS-IS-SO	Q 🗖	1st Line Support Group:	Service Desk	Q, 🐻
Organic Group:	GS-IS		2nd Line Support Group:	Stores Urgency Counter 2nd Line Suppo	ort 🔍 🐻
Delivered by Organic Unit:	:	Q	3rd Line Support Group:	Stores Urgency Counter 3rd Line Suppo	rt 🔍 🐻
Lifecycle phase:	Operation		4th Line Support Group:	Stores Urgency Counter 4th Line Support	t 🔍 🐻
Visibility:	CERN	•	OWH Support Line:	Stores Urgency Counter OWH	Q, 🐻
Portal URL Alias:	stores-urgency-counter]	Ticket visibility:	Restricted	
SLA notifications:			Business criticality:	4 - Limited 🔽 🚺	
General description:		= +	Keywords:	-	E
			store Magasin central, material ret commander, commande, ma Return, manage material ret	urn, materials returned,retour de matériel, tériel sous garantie, téléphones, telephon urn.proforma invoice, guichet d'urgences	reprise de matériel , es sous garantie, Material
Worklog:					E
Related Items: 🔶 📔 👔	📰 🛛 🗛 🛛 🔲 Show 4 💌	Levels			
Downstream relationship	ps		Upstream relationships		
Update Save Delet	unter te Cl		Stores Urgency Courses (Stores Courses) Stores (Stores Courses) Stores (Stores Courses) Stores (Stores Courses) (Stores Co	service 2	
Update Save Delet	unter te Cl	1. Calculated from	Stores Urgency Cour Material Request	service 2	
Update Save Dele	unter te Cl	1. Calculated from Read only, can n	Stores Urgency Cour Material Request	service 2	

CFR

Threats, Vulnerabilities and Risks in Service-Now

Out of the box "Governance, Risk and Compliance" (or GRC) module

IV

Negligible risk

Downstream relationships		Upstream relationships					
Stores Urgency Counter Risk = Threat * Vulnerability * Criticality Risk = Threat * Vulnerability * Criticality							
Links (2) Activities (2) Provided goods and products Functional Element Categories Functional Element Parameters Questionnaires (3) Knowledge Functional Element Risks (7)							
Functional Element Risks Vew Go to Risk name	 Q 			≪ 4 1 to 7 of 7 ▶ ≫ =			
Risks		Threat	Vulnerability	Risk Class 4			
Material Failure / Loss of Tool / Function / Data for	Stores Urgency Counter	Material Failure / Loss of Tool / Functi	Likely	192 4			
Disaster for Stores Urgency Counter		<u>Disaster</u>	Unlikely	48 4			
Single point of failure / No plan B / Strike for Stores	Urgency Counter	Single point of failure / No plan B / St	With difficulty	96 4			
Confidentiality / Legal / Reputation for Stores Urge	ncy Counter	Confidentiality / Legal / Reputation	Improbable	48 4			
🔲 🐻 Inside Attack (Intentional Malicious Acts / Fraud / H	lacking) for Stores Urgency Counter	Inside Attack (Intentional Malicious Act	With difficulty	80 4			
External Attack (Hacking, Computer Virusses) for S	Stores Urgency Counter	External Attack (Hacking, Computer Virus	With difficulty	96 4			
 Control Attack for Stores Urgency Counter Actions on selected rows Actions on selected rows Construction of the stores Urgency Counter Construction of the store Urgency Counter <li< th=""></li<>							
sk Class Threshold 4							
I 300 Intolerable risk II 200 Undesirable risk, and tolerable III 100 Tolerable risk if the cost of risk	le only if risk reduction is imp	practicable or if the costs are grossl	y disproportionate	to the improvement gained			

CÈRN

Editing a Risk



A risk record will be pre created for all combinations of function and threat (for existing functions); Functional managers can correct or delete these records (if irrelevant), and also add risk records when appropriate.





Entering a new Risk



Lin	nks (2)	Activities (2) Pr goods and products Functional Element Categori	es F	Functional Element Parameters Questionnaires	(3) Knowledge	Functional Element	Risks (7)
F	unctio	nal Element Risks Vew Go to Risk name V					1 to 7 of 7 🕨 🕅 🖃
-	Risks						
	۱ 🕸	🗿 Risk name		🌀 Threat	Vulnerability	🍈 Risk	🍈 Risk Class
🧲 🕶 Risk						Submit	ave 📋 🔒
Risk ID:		RISK00079		Risk name: for			
Applies to:		(empty)	Q	Risk: 0 (2)			4
Business crit	iticality:	1 - Nil		Risk Class: 4			4
Threat:		None 3 -					
Vulnerability	/:	None 🔽 5					
Description:							
							, / or / »»»
Rueinaes crit	iticality:	1 NR 1-1 (A)		1 Click 'Now' Button			

Business criticality: 1 - Nil		4		1
Threat: Inside A	Attack (Intentional I 💌 📿			
Vulnerability: None	💌	Risk Criteria		
Description: 6		Display value:	Inside Attack (Intentional	Malicious Ac
		Descrtiption:	1	- +
Submit Save		Disgruntled Em data/files/setting necessary to pr from 'inside'.	ployee intentionally alters gs/etc Or steals resource ovide a service. An attack	es

CHUR NEW

- 2. Don't bother with read only fields, they will be completed automatically
- 3. Select Threat from the pull down list
- 4. Hovering over the 'l' icon will give additional info on the threat (threats and vulnerabilities are 'risk criteria' in service-now out of the box terminology)
- 5. Select a Vulnerability level level from the menu
- 6. Document in description 'optionally'
- 7. Click Save (or Submit to return to Functional Element Screen)

Reporting and reference data





● 4 = 817 ◎ 3 = 266 ● 2 = 93 ● 1 = 1

COURAGE ⁽²⁾