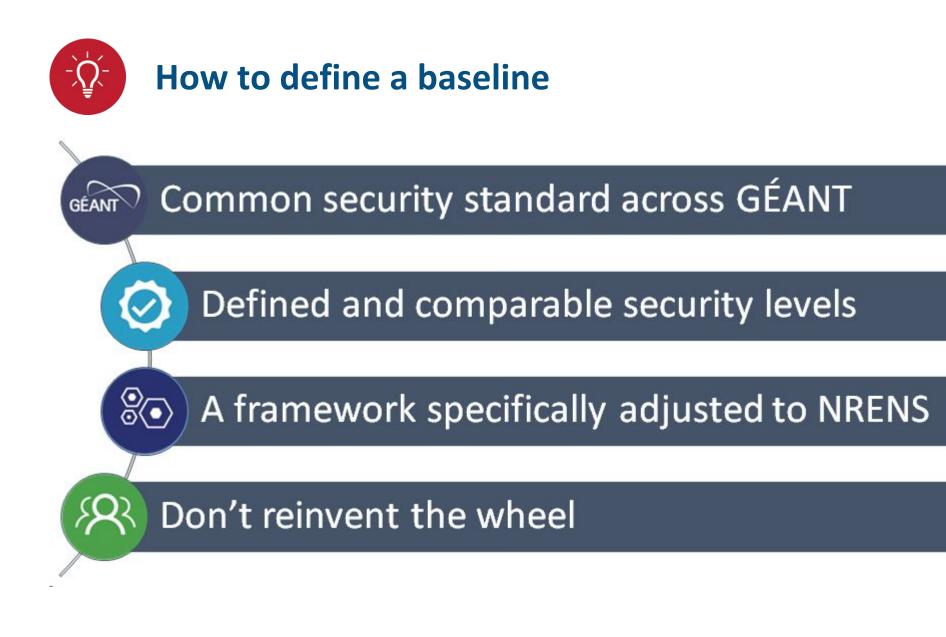


Security Baseline for NRENS

Michael Schmidt On behalf of GN4-3 WP8 T2

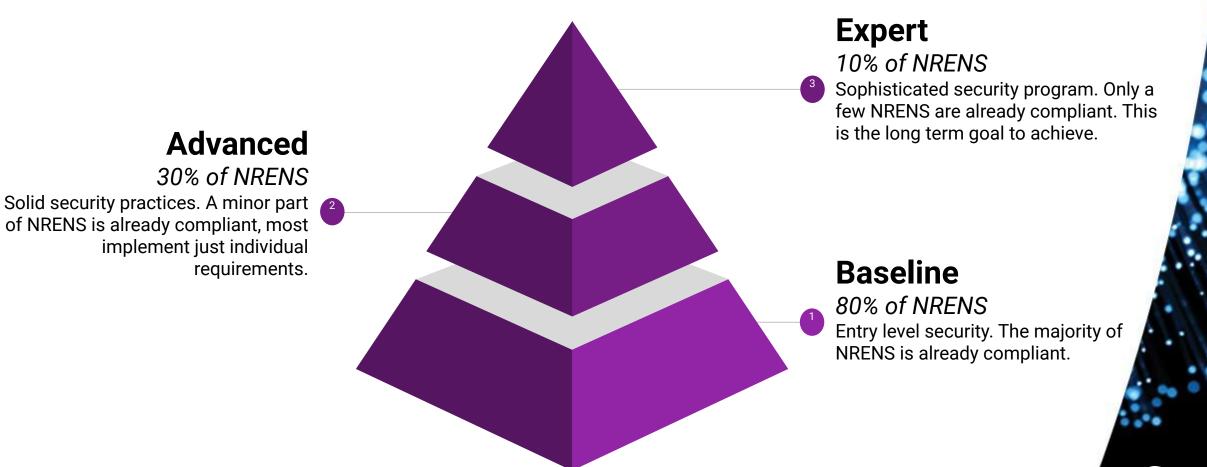
SIG-ISM Workshop, Online, 29.10.2020

Public











Security Module Example

NO3.1	Risk Manag	ement				Further Support	Risk Assessment Templates	
Requirements	N03.1	Requirements	1	2	3		AARC project template: https://docs.google.com/document/d/13eRJuI78ULXA87UucclavygAuhk41ck8	
	NO3.1.1	A risk management process is defined, documented and implemented	-	~			ukgJdZ25uiA/edit?usp=sharing WISE template: https://wiki.geant.org/download/attachments/53773456/WISE_Risk_Manage	
	NO3.1.2	A risk manager responsible for the risk management process is assigned.	-	~			ment_Template_v1.1.xlsx Risk Management Frameworks	
	NO3.1.3	Security measures are approved and implemented based on risk assessment.	-	~			Risk Management Overview ENISA provides a lightweight overview of risk management. This includes	
	NO3.1.4	A yearly risk assessment is performed for at least all GÉANT Top 10 Threats, including a review of existing risks and assets.					sample process and lots of supporting materials. It is a good starting point to ge familiar with the topic: <u>https://www.enisa.europa.eu/topics/threat-risk-management/risk-</u> management/current-risk/risk-management-inventory/introduction	
	NO3.1.5	Risks that might affect other NRENs or federated services are reported regularly.		~			NIST Special Publication 800-53r5-draft NIST SP 800-53 contains a set of security controls to protect the security an	
	NO3.1.6	The asset inventory includes organisation-specific and federated (information) assets.			-		privacy of an organisation. Section 3.17 focuses on risk assessment:	
	NO3.1.7	Organisation-specific threat modelling is performed.				ISO/IEC 27001 Mapping	A8 (Asset Management), Section 6 (Risk Management)	
		-	I	L		1		





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- Support organizations to conduct a (self) assessment
- Helps to better understand the requirements of the security baseline
- Makes the maturity level and requirements fulfillment of an organisation visible
- Enables us to create statistics to identify the security level of our community



	Threats			
	Risk Management	Answer	Interview Notes	Rating
	A risk management process is defined, documented and implemented.	Yes		
	Guidance: The organisation has selected a framework on which their RM is based.			1.00
	Guidance: There are written documents, which describe the policy, process and procedures of RM			1.00
	Guidance: The RM process is well known and people within the organisation are involved.			
				-
	A risk manager responsible for the risk management process is assigned.	Yes		
20120	Guidance: There is a (chief) risk manager or similar role in the organisation.			
RM1	Guidance: A person was appointed as risk manager by the top management.			
	Guidance: The risk manager is responsible for the RM process and drives implementation			
	Security measures are approved and implemented based on risk assessment.	Yes		
	Guidance: The organization maintains a list of planned and implemented security measures.	Yes		
	Guidance: All planned security measures are assigned to or derived from a risk.	105		
	Guidance: Security measures are only implemented if the associated risk has been evaluated and approved.	No		-
		Partly		
	A yearly risk assessment is performed for at least all GÉANT Top 10 Threats, including a review of existing risks and assets.	No		
	Guidance: There is an inventory of important assets of the organisation, which is continually maintained and reviewed.			
	Guidance: A risk assessment is carried out regularly for ALL assets of the organisation			
	Guidance: The risk assessment considers at least https://connect.geant.org/2019/11/19/top-ten-risks-for-nrens			<u></u>
RM2				
1	Risks that might affect other NRENs or federated services are reported regularly.	No		
	Guidance: The RM process considers risks that may have an impact on other (federated) organisations.			
	Guidance: The organization has appropriate communication channels defined to inform other organizations about potential risks.			
	Guidance: The organization notifies parties that have a reasonable interest in identified risks of critical risks.			
	The asset inventory includes organisation specific and federated (information) assets.	No		
	Guidance: The asset inventories categories and assets are specifically tailored to the organization.			
	Guidance: In addition to internal assets, external and federated assets that are consumed by the organization are also considered.			
	Guidance: The RM considers reported risks from other organisations, which may affect shared or federated assets.			<u></u>
RM3	One set a stress of the stress of a little stress of a most	M		
	Organisation specific threat modelling is performed.	No		
	Guidance: There is a list of threats that are relevant to the organization. Guidance: Threats are selected based on their relevance to R&E, organization-specific business cases and geographical factors.			
	Guidance: All threats are assessed and prioritized based on the relevant parameters of the organisation.			
				6

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1	Organization:	Organization: SIG-ISM		8							
	Project: Presentation			Maturity	•						
	Interview Date:	Interview Date: 23.05.2020					2				
	Interviewer:	r: Michael Schmidt				Level	-				
	Persons Interviewed:	ris, Vlad	lo Pribols	san							
Current Maturity Score								Current Maturity Score			
				Maturity	1						
Business	Security Practices	Current	1	2	3	Business	Current				
Policy and Leadership	Management Commitment and	3.00	1.00	1.00	0.00	Policy and Leadership	2.00				
Policy and Leadership	Internal Security Policy	3.00	1.00	1.00	1.00	People	3.00	Management Commitment and Mandata			
Policy and Leadership	Acceptable Use Policy	3.00	1.00	1.00	1.00	Threats	3.00	Management Commitment and Mandate Vulnerability Management Internal Security Policy			
Policy and Leadership	Regulatory and Privacy	3.00	1.00	1.00	1.00	Operations	3.00	Patch Management 3.00 Acceptable Use Policy			
People	Training and Awareness	3.00	1.00	1.00	1.00			2.00			
People	Personnel Management	3.00	1.00	1.00	1.00			Access Management Regulatory and Privacy			
People	Supplier Management	3.00	1.00	1.00	1.00			1.00 Regulatory and r invacy			
Threats	Risk Management	3.00	1.00	1.00	1.00			0.00			
Threats	Incident Management	3.00	1.00	1.00	1.00			Cryptography Training and Awareness			
Threats	Business Continuity Management	3.00	1.00	1.00	1.00						
Operations	Tools	3.00	1.00	1.00	1.00			Tools Personnel Management			
Operations	Cryptography	3.00	1.00	1.00	1.00						
Operations	Access Management	3.00	1.00	1.00	1.00			Business Continuity Management Supplier Management			
Operations	Patch Management	3.00	1.00	1.00	1.00			Incident ManageRiskoManagement Maturity by Area			
Operations	Vulnerability Management	3.00	1.00	1.00	1.00						

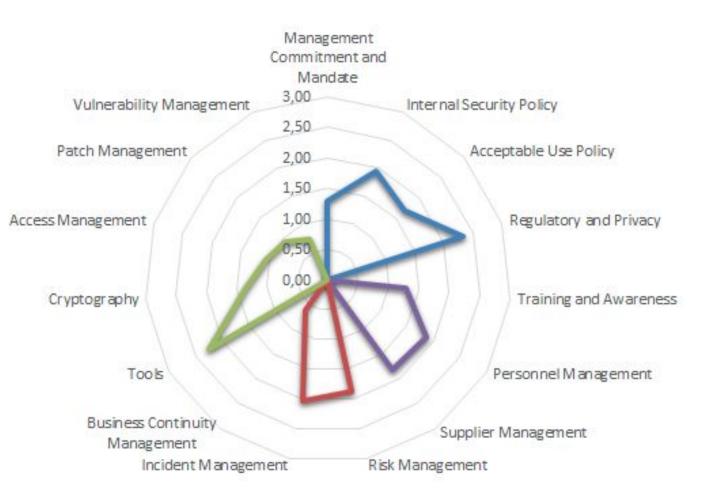


Lessons Lea	arned	-
Publications	 Security Baseline Security Assessment Sheet 	 Received almost no feedback Feedback we did receive was positive
Presentations	 GÉANT Symposium February SIG-ISM April Cloud Security Workshop June 	 Many of the planned presentations could not be held Little follow-up from these meetings
Assessment	 Self Assessment Pilot 3 Organisations 	 Requirements are more difficult than expected Questions updated



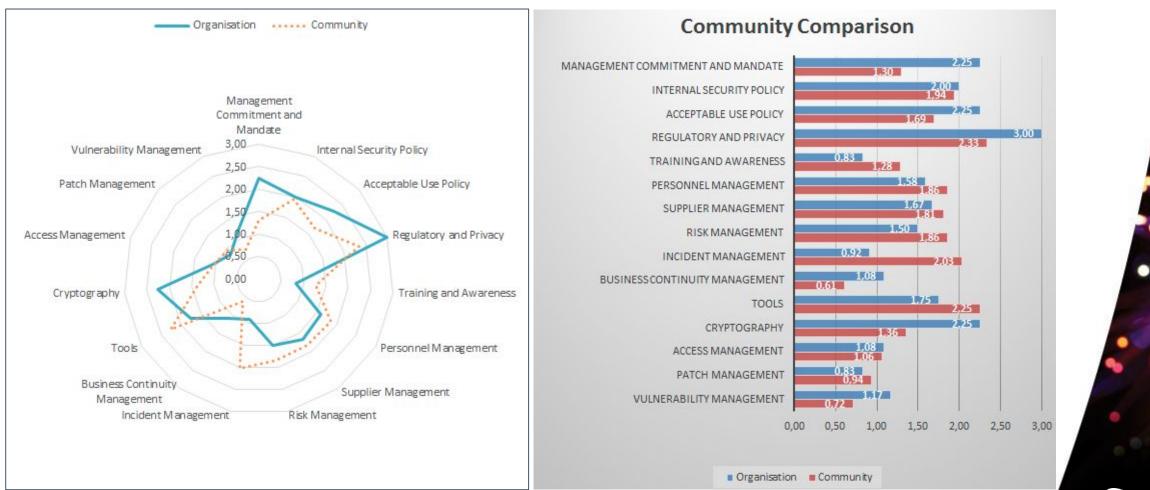
Community Average

Business Functions	Current
Policy and Leadership	1,82
People	1,65
Threats	1,50
Operations	1,27



GÉANT

Compare your Organisation







Have you heard of the Security Baseline before?





Did you use the Baseline or Assessment Sheet already?





Are you interested in being a pilot partner?





Which additional resources (guidelines, templates, examples) do you need to implement the Baseline?





Are there any other areas to be covered in the baseline?





Thank you

Any questions?

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Resources & References

- GÉANT Security Baseline <u>https://wiki.geant.org/x/iDH5Bw</u>
- Baseline Assessment Sheet
 <u>https://wiki.geant.org/x/bwGMC</u>

