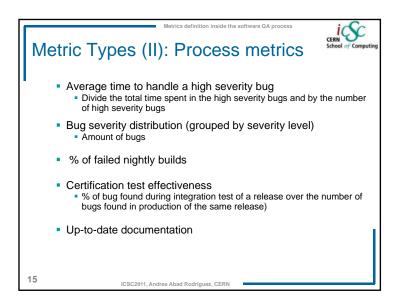
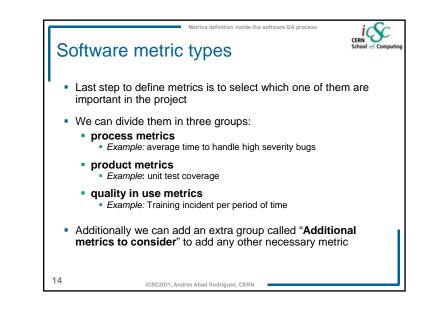


Indicators (II)	Metrics definition inside the softwar	re Q.A. process CERN School of Computin
IT Services	choose another view:	17 Feb 2011 Thu 01:24:05
Administrative applications	Services for physics 💥	For developers and engineers {} ??
Windows Services Image: Comparison of the services 81% available (more) Mail and Web Services Image: Comparison of the services 100% available (more) Documents and colaborative services 97% available (more)	Infrastructure services 99% available (more) Worldwide LHC Computing Grid 98% available (more) EU-funded projects 100% available (more)	Databases J 100% available (nore) Networking Z 100% available (nore)
LS by CERN IT/CF	11. Andres Abad Rodriquez, CERN	SLS.Support@cern.



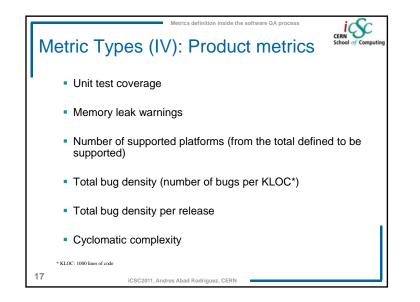


Metric Types (III): Process metric tools

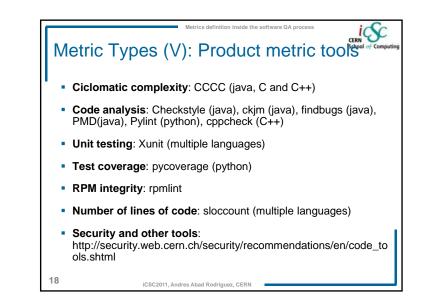
Metrics definition inside the software QA process

- Most of the information should be obtained from the different bug trackers used in the project
- Another information such us the result of the nightly builds can be obtained from the continuos integration tool (ex: Maven)

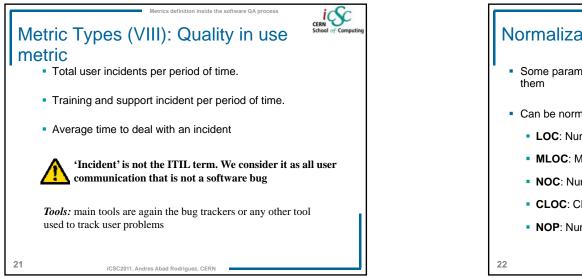
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Project Components into Available if there is a single proposit actualed)			•		data spelevent ic going sometimes not in the same order of execution	mangent	Jala Wang	٠	* *****		-	111-0105
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M	etric Types (Findbugs example	(VI): Product metric tools						
	Summary							
	Warning Type	Number						
	Bad practice Warnings	33						
	CORRECTNESS Warnings	87						
	Internationalization Warnings	22						
	Malicious code vulnerability Warnings	4						
	PERFORMANCE Warnings	121						
	STYLE Warnings	120						
	Total	387						
	Warnings Click on a warning row to see full context inf Bad practice Warnings	formation.						
	CodeWarning							
		RemoveCommand.doWork(String) might ignore java.lang.Exception						
		lper.platform.PlatformGroup defines compareTo(PlatformGroup) and uses Object.equals() lper.SystemPropertyDefinition defines compareTo(SystemPropertyDefinition) and uses Object.equals()						
	org.etics.buildsystem.ui.datamodel.Pla	atform defines compareTo(Platform) and uses Object.equals()						
	Eq org.etics.buildsystem.ui.wsclient.build Object.equals()	org.etics.buildsystem.ui.wsclient.buildsystem.patched.history.AbstractHistoryEntry defines compareTo(AbstractHistoryEntry) and uses						
		org.etics.buildsystem.ui.datamodel.Configuration defines equals and uses Object.hashCode()						
10	J2EE Store of non serializable org.etics.buil org.etics.buildsystem.ui.authn.AuthnFi	ldsystem.ui.datamodel.User into HttpSession in ilter.doFilter(ServletRequest, ServletResponse, FilterChain)						
19		11. Andres Abad Rodriguez, CERN						



Actric T	CERN School	of Com
	ypes (VII): Product metric school	
ools		
JUIS		
Checkstyl	e example	
Coding Style Check Re	suits	
Summary		
Total files checked 21		
Files with errors 21		
Total errors 781		
Errors per file 37		
	ins of the Sun Coding-Style Standards:	
the following are violation	ins of the Sun Coding-Sityle Standards.	
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File: /home/condor/exec		
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Hite://bottmic/condor/source Line Number 0 6 21 23 24 27 28 31 32 33 34 35 36 37	utedir 210404serdirieng atics submission vmloader/nrc/pregetics/submission/vmloader/hootstrapper/Main java Error Message File does not end with a newline. Missing a import control file. Utility classes should not have a public or default constructor. Utility classes should not have a public or default constructor. Missing a javadoc comment. Missing a javadoc comment. Missing a javadoc comment. ** should be on a new line.	



	rmai	defini	tion	
Metric Id	TotalUserin			
Name	Total user incidents per month			
Description	This metric covers incidents not only in the software but also in the documentation, training and user support processes, per month.			
Input(s) & Units	This metric	will be collected thro	ugh GGUS	
Output(s) & Units	GGUS tick	ets per per month		
Scope	GGUS 3"	evel support unit. Pro	duct Team	
Thresholds/Target Value	It is difficult to state a threshold valid for all the product teams, in general a decreasing trend would show positive results.			
Tools	a decreasing trend would show positive results. CGUS			
Availability	ARC	dCache	gLite	UNICORE
	It should be	possible to collect t	tis matric for all t	he middlewares.
Quality factor	Usability			
Goals	Keep at minimum the amount of user incidents by providing tested and documented software.			
Risks	or the num	ber of users actually	using it.	mplexity of the softwa
	The use of maining lists such as log-rollout is damaging for tracking incidents related metrics. All incidents reports from users should be reported through GOL5.			
		of type of problem		er product team a clear emponents and produ-
Special Notes	None			

