

Access Control

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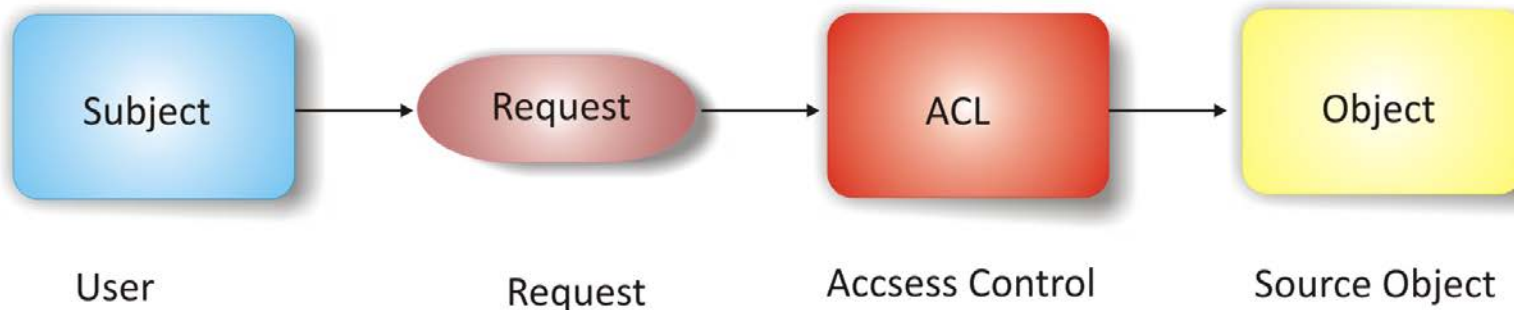
Basic Terms

Subject : User or program that want to accesses the system

Request : Request to accesses the system

Access Control : Conrolling of Request

Object : Object that user wans to access



ACL : Access Control List

Access Control List

User	Program-1	Program-2	Program-3	Program-5
Ali	O, R, X	O	R, W	
Eren	R	R,W	R	R,W,X
Elif		R		R
Bartu	R, X		R,W	R
Can		R		R,W,X
Team-1	R, X	R	R,W	R,W,X
Team-2	R, W, X	R	R	R,W

R : Can read

X : Can execute

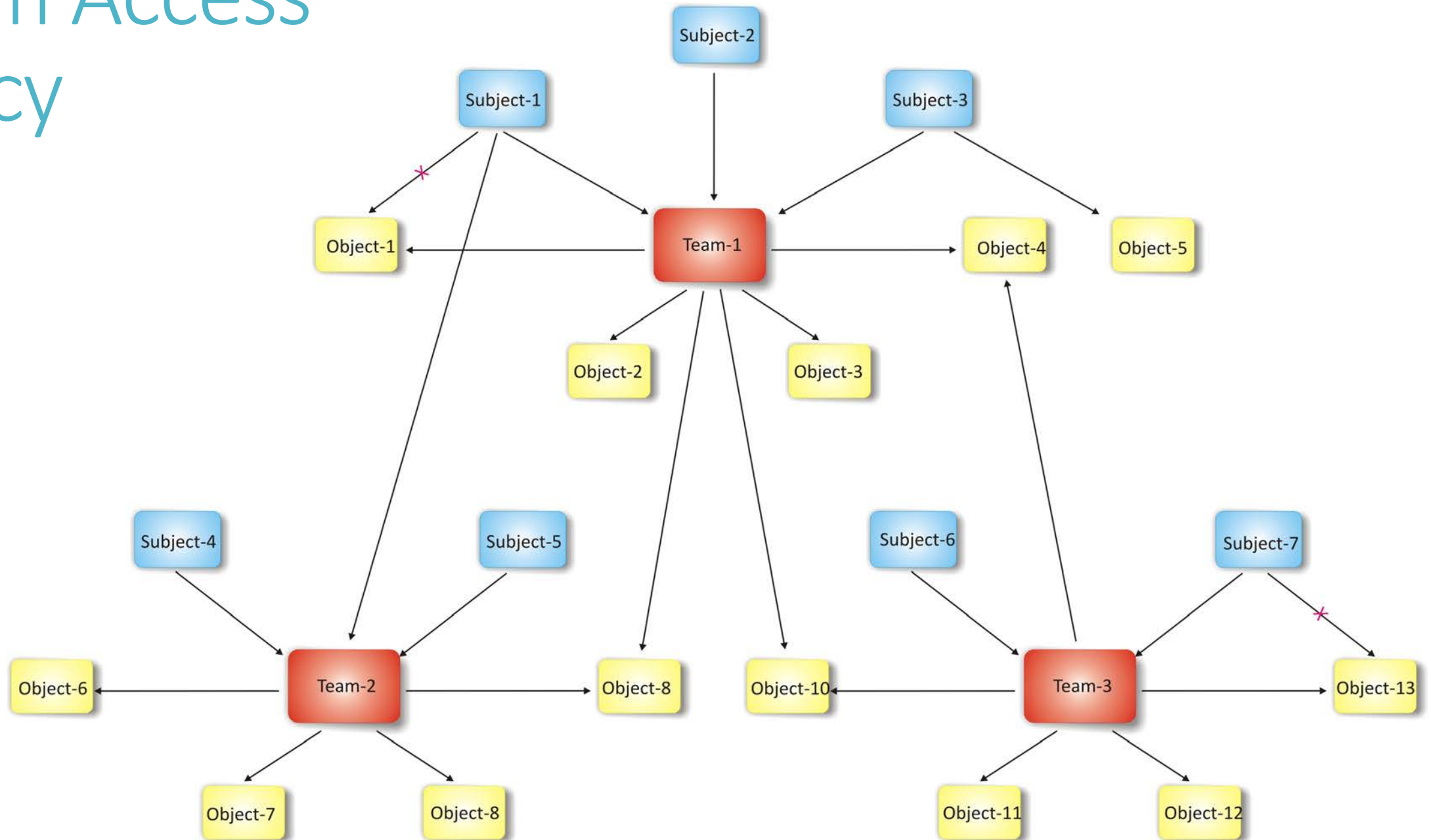
W : Can write

O : owner

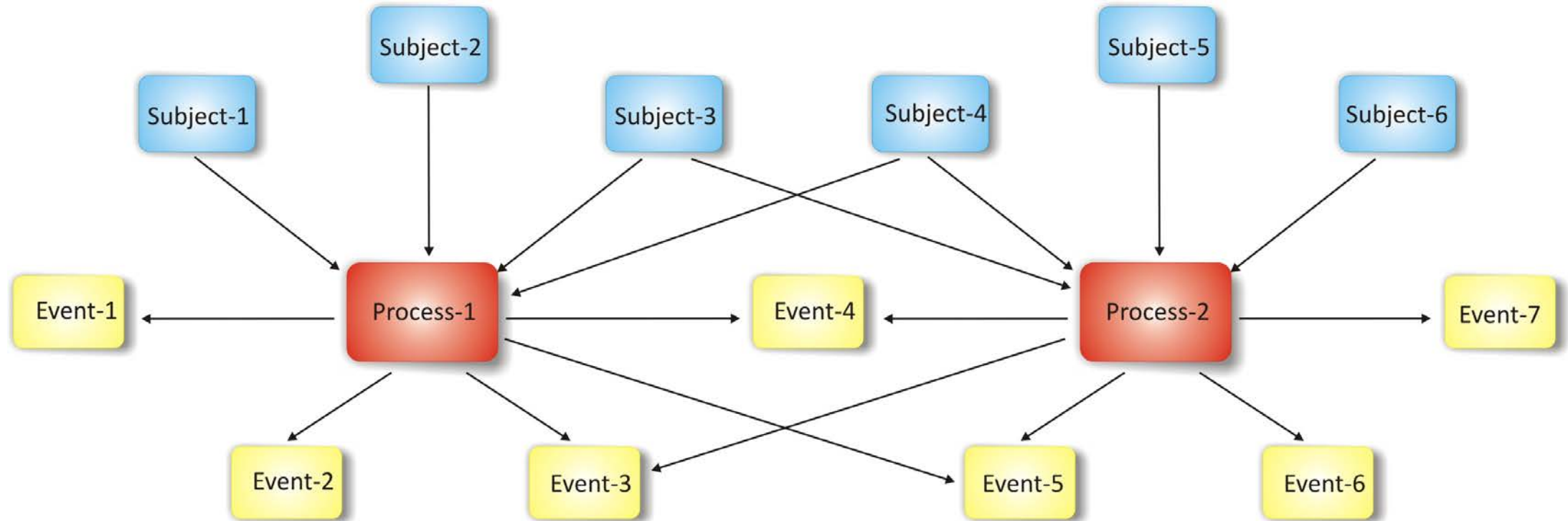
UNIX

Owner			Team			Others		
r	w	x	r	w	x	r	W	X
r	w	x	r	-	x	r	-	-

Team Access Policy



Role Base Access Policy



Multi Level Access Policy

In general is used in military

Top Secret

Secret

Confidential

Unclassified

NATO Access Policy

D : Lowest level

C : Arbitrary

B : Mandatory

A : Highest level

C 1: Data and user are separated

C 2: Data and user are separated , log file

B 1: Use Access Control List

B 2: Block unauthorized access, log file

B 3: Protect malicious software and powerful
Access control

A: Full protection

Bell-LaPadula Access Model

