

NETWORK TRAFFIC FILTERING POLICY

Approval		
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About the document				
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O.U. Technology Systems and	resources of the University of Parma	amento- security-EN		
Infrastructure				

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1. Purpose of the document

The purpose of this document is to define a policy for filtering data, services and IT resources owned by the University of Parma, with the aim of increasing IT security and protecting privacy.

2. Scope of application

The policy described in this document applies to data exchanges that occur between the University of Parma networks, devices, applications, services towards the Internet and between them, on the internal network or in the cloud. Any data flow originating or arriving at University of Parma IT resources, whether internal or cloud, is potentially subject to the filtering policies described in this document.

3. Cloud network data flow filters

E-mails are filtered according to the probability of being SPAM. Automated analyses define the 'reputation' level of messages based on various elements; if the 'reputation' level is not appropriate, the message is considered SPAM and placed in the 'Junk Mail' folder instead the 'Inbox' within the user's mailbox.

E-mail messages and collaboration programmes made available by the University undergo rewriting of the web links contained within them. Thus, if the user clicks on a link that has been categorised as malicious, he is blocked from accessing the dangerous web resource.

Similarly, documents attached to e-mail messages, or shared through collaboration programmes, are scanned before they are made available to the user or after they are made available (provided they are in the cloud disk space). If the documents are deemed malicious, they are deleted or otherwise made inaccessible to the user.

The forwarding of University e-mails to personal (non-UNIPR) mailboxes is blocked, as messages forwarded to other mail handlers are not subjected to the IT security controls set up by the University (the forwarding block has been in place since 30 October 2022 following the 'Rector's note on e-mail security' sent to the University's structured personnel on 26 October 2022).

4. Filters on internal network data flows

Data traffic entering and leaving the University's internal network is filtered to prevent access to resources that may carry malware (e.g.: Ransomware, Botnets, DarkWeb, anonymous VPNs, SPAM URLs, etc.), illegal or inappropriate material (e.g.: illicit substances, pornography, extremism, abuse, etc.), copyrighted material. Traffic is filtered on the basis of pre-defined categories and databases of known malicious resources.

Filters are applied for traffic from both the physical (wired) and wireless (WiFi) network infrastructure.

Below is the table of filtered content categories and their perimeter actions.

Categories	Actions
Adult/mature Content	
Abortion	Allow
Advocacy Organisations	Allow



Alcohol	Allow	
Alternative Beliefs	Allow	
Dating Allow		
Gambling	Allow	
	Allow	
Lingerie and Swimsuit	Allow	
Marijuana		
Nudity and Risque	Allow	
Other Adult Materials	Allow	
Pornography	Block	
Sex Education	Allow	
Sports Hunting and War Games	Allow	
Tobacco	Allow	
Weapons (Sales)	Allow	
Bandwidth Consuming		
File Sharing and Storage	Allow	
Freeware and Software Downloads	ads Allow	
Internet Radio and TV	Allow	
Internet Telephony	Allow	
Peer-to-peer File Sharing	Block	
Streaming Media and Downloads	Allow	
Potentially Liable		
Child Abuse	Block	
Discrimination	Allow	
Drug Abuse	Allow	
Explicit Violence	Block	
Extremist Groups Bloc		
Hacking	Allow	
Illegal or Unethical	Allow	
Plagiarism	Allow	
Proxy Avoidance	Block	
Security Risk		
Dynamic DNS	Block	
Malicious Websites	Block	
Newly Observed Domain	Warning	
Newly Registered Domain	Warning	
Phishing	Block	
Spam URLs	Block	
Unrated	Warning	



Allow: action permitted Block: action denied

Warning: the user is warned, but may decide to continue

Document Revisions

Ver.	Description of changes	Author	Date modification
1.0	Initial version	U.O. Technological Systems and Infrastructure	01/09/2021
1.1	Added mail forwarding block	O.U. IT Security	25/01/2023
2.0	Filter division between cloud and internal networks	O.U. IT Security	25/08/2023