

Δίκτυα Τμήματος Πληροφορικής IPv6 Address Plan

Very preliminary, everything still under considerations, **this is a working table.**

Notes:

(1) Since on IPv4 there was heavy sub-netting ex 10.16.20.0/27 and since IPv6 will be /64 for each network there will be no direct correspondence of previous addresses to new ones

(2) IPv6 general assignments

a) Infrastructure:

1. Point to Point 2001:1A18:1:0::
2. Static infra servers 2001:1a18:1:1::
3. Management Network 2001:1A18:1:2::
4. OTY members network 2001:1A18:1:3::
5. Faculty/Staff network 2001:1A18:1:10::
6. Teaching Labs 2001:1A18:1:2x::
7. Research Labs 2001:1A18:1:3x-4x::

No.	VLAN #	IPv4 194.42.16.0/24 194.42.17.0/24 194.42.18.0/24 194.42.27.0/24 10.16.0.0/16	Purpose	IPv6 2001:1A18:1::/48	Purpose
0				2001:1A18:1::/126	Point-to-Point networks
1	16	194.42.16.0/24	General access	2001:1A18:1:1::/64	Static machines, servers etc. This can be readjusted to offer more flexibility ex

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					based on service ex 2001:1A18:1:1:D:: for DNS servers
2	18	194.42.18.0/24	NAT/PAT pool	N/A	
3	101	194.42.17.1-30	255.255.255.224		
4	102	194.42.17.33-62	Room 004. Sazeidis Lab.	See below for research lab assignments	
5	103	194.42.17.65-94	Point-to-point	See IPv6 #0	
6	104	194.42.17.97-126/27	DMZ1	2001:1a18:1:2::/54	DMZ1 machines. Static assignments with DNS entries
7	105	194.42.17.129-158/27	DMZ2	2001:1a18:1:3::/64	DMZ2 machines. Static assignment with DNS entries
				2001:1a18:1:4::/64	DMZ3 machines (possible future assignment) . Static assignment with DNS entries
8	107	194.42.17.161-190/27	rDMZ		
9	108	194.42.17.193-222/27			
10	109	194.42.17.225-254			

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Research Labs					
11	201	10.16.20.0/27	Lab Room 216		
12	202	10.16.20.32/27	Lab Room 211		
13	203	10.16.20.64/27	Lab Room 209		
14	204	10.16.20.96/27	Lab Room 214		
15	205	10.16.20.128/27	Lab Room 128/206		
16	206	10.16.20.160/27	Lab Room 218		
17	207	10.16.20.192/27	Lab Room 127		
18	208	10.16.20.224/27	Lab Room 121		
19	211	10.16.21.0/27	255.255.255.224		
20	212	10.16.21.32/27	255.255.255.224		
21	213	10.16.21.64/27	255.255.255.224		
22	214	10.16.21.96/27	255.255.255.224		
23	215	10.16.21.128/27	255.255.255.224		
24	216	10.16.21.160/27	255.255.255.224		
25	217	10.16.21.192/27	255.255.255.224		
26	218	10.16.21.224/27	255.255.255.224		
27	271	194.42.27.1-127	Reserved		

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28	272	194.42.27.129-254	GRID- eScience - HPCL Lab		
29	500	10.16.0.0/24	Management Network		
30	501	10.16.1.0/24	File servers and other infrastructure servers	See IPv6 #1	
31	502	10.16.2.0/24	Virtualization network		
32	503	10.16.3.0/24	Pallis cloud computing		
33	504	10.16.4.0/24	Wireless Network Clients		
34	505	10.16.5.0/23	Wireless Network Devices		
35	506	10.16.6.0/24	Linux Lab I. Room B103		
36	507	10.16.7.0/24	Teaching Labs B121, B123		
37	508	10.16.8.0/24	Graduate Windows Lab. Room 201		
38	509	10.16.9.0/24	Digital Lab. Room 101		
39	510	10.16.10/24	Printers and other office devices		
40	511	10.16.11/24	General Purpose Internal network		
41	512	10.16.12.0/24	General Purpose servers. Room 004		
42	513	10.16.13.0/24	Linux Lab II. Room 103		

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43	514	10.16.14.0/24	NOT USED		
44	515	10.16.15.0/24	NOT USED		
45	516	10.16.16/24	General purpose internal		
46	517	10.16.17/24	Lab B101		
47	518	10.16.18/24	10.16.18.254		
48	519	10.16.19/24	VPN#1 (clients)		
49	522	10.16.22/24	VPN#2 (clients)		
50	523	10.16.23/24	Testing Net		
51	524	10.16.24/24	HPCL-Lab. Room 217 HPCL-Lab. Room 213 and Room 204		
		10.16.30			
52		10.16.50.0/30	New Point-to-point network connections	See IPv6 #0	