

IP assignment and management made simple

DHCP Server



Product overview

INTRODUCTION

Contemporary networks – regardless of their purpose – only keep gaining in complexity. And while IP address assignment is at the core of all network operations, many still rely on manual or otherwise inefficient solutions that don't scale. This leads to a waste of time and resources, but more importantly, it results in errors and downtimes that affect not just the users but the network itself.

DHCP SERVER

AVSystem's DHCP server is your solution to **effectively assign and manage IP addresses in any network**. From enterprise to telecom, it ensures **efficient and mess-free network management** that saves you time and trouble.

This mission-critical platform is **a dependable tool that meets the reliability and scalability requirements of telco environments**, offering active-active scalability and high-availability configuration. On top of that, it has mechanisms to restore operations quickly if anything happens to your network.

Thanks to an accessible GUI and simple, inheritable configuration processes, the platform is **easy to use, regardless of the network complexity**. At the same time, it offers flexibility for those who need it, allowing for custom queries and expressions.

Finally, AVSystem's DHCP server comes with **a built-in IP address management module** so that you don't need to buy and integrate any external IPAM systems. IP assignment, de-assignment, request matching, and configuration are core functionalities of the product.

Scope	Discovers	Offers (Nacks)	Declines	Releases	Requests Init (All/Ack/Nack)	Requests Renew (All/Ack/Nack)	Requests Select (All/Ack/Nack)	Total Addresses	In Active Pools	Assignable	Assigned	Reserved	Conflicting
Global	8856043	8829299 (21626)	113	221655	451854/418951/19414	5935753/5920463/15006	2312470/2268314/1264	128552	125740	127865	687	0	0
Network: network1	693870	693880 (0)	0	1826	0/0/0	39925/39925/0	430540/430540/0	3837	3837	3829	8	0	0
Network: network2	1130132	1100140 (0)	0	10	0/0/0	13476/13476/0	322443/322443/0	4094	4094	4387	7	0	0
Network: network3	320257	320099 (14)	0	3407	120100/21	276684/276611/0	248020/24745/0	3839	3839	3807	32	0	0
Network: network4	305492	306268 (5)	0	121	93753/92708/532	69626/69619/7	84591/80037/68	7935	7935	7898	37	0	0
Network: network5	628150	628464 (1822)	0	306	243586/226287/4929	155146/154859/23	120004/118817/0	57343	57343	57296	47	0	0
Network: network6	230429	230205 (0)	0	208401	1225/1223/0	23/23/0	117035/112524/0	33789	32767	33734	55	0	0
Network: network7	329345	330522 (1645)	0	535	28456/27939/343	1514611/1514602/3	75599/69121/0	7134	7134	7042	92	0	0
Network: network8	1114478	1114837 (0)	0	4677	1773/1662/30	2679244/2668164/11079	903997/897304/6	2041	1274	1720	321	0	0
Network: network9	0	0 (0)	0	0	0/0/0	0/0/0	0/0/0	47	47	43	4	0	0
Network: network10	0	0 (0)	0	0	0/0/0	0/0/0	0/0/0	2047	2047	2047	0	0	0
Network: network11	0	0 (0)	0	0	0/0/0	0/0/0	0/0/0	0	0	0	0	0	0
Network: network12	56011	56385 (0)	0	1021	485/453/20	81339/81338/0	2111/1986/0	4862	3839	4808	54	0	0
Network: network13	16	726 (0)	0	244	1/1/0	1882/1881/1	262/262/0	49	49	49	0	0	0
Network: network14	3684211	3683696 (98)	0	823	8366/8208/108	802761/799000/3760	217122/197394/320	1023	1023	999	24	0	0
Network: network15	62	71 (0)	0	75	0/0/0	533/533/0	71/71/0	512	512	506	6	0	0
Network: network16	0	0 (0)	0	0	0/0/0	0/0/0	0/0/0	0	0	0	0	0	0

FEATURES

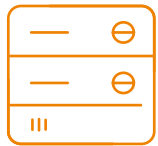
- **Multi-node, active-active, high availability architecture**, which secures network stability and scalability.
- **Built-in IP address management module** to reduce the number of tools you need.
- **Support for segmented and heterogeneous infrastructures**, as well as a variety of device types.
- **Peak load handling** that prevents the “snowball effect” after outages and ensures efficient restoration of services.
- **User-friendly web-based GUI** for easy configuration and maintenance that reduces workload and number of errors.
- **DHCP-specific monitoring views with historical data** (errors, available addresses, etc.) for easier network management.
- **Integration with external systems via REST** for smooth, end-to-end data flow within the network.

BENEFITS



Network stability guaranteed

Regardless of how extensive and complex your network is, **you can be sure AVSystem's DHCP server can handle it.** High availability and scalability are integral to its design. So are safety mechanisms, thanks to which it can manage peak load effectively and quickly restore services after outages.



Everything you need in one place

IP address management is just as important to network operations as address assignment. **But you don't need a separate tool for that.** AVSystem's DHCP server comes with a built-in IP address management module so that you can have everything you need in one place.



Faster and easier navigation

Thanks to the simple graphical user interface, **network administrators can conveniently view and easily change all settings and parameters in a single web-based interface.** This makes their work faster and easier, all the while leading to a reduced number of configuration errors.

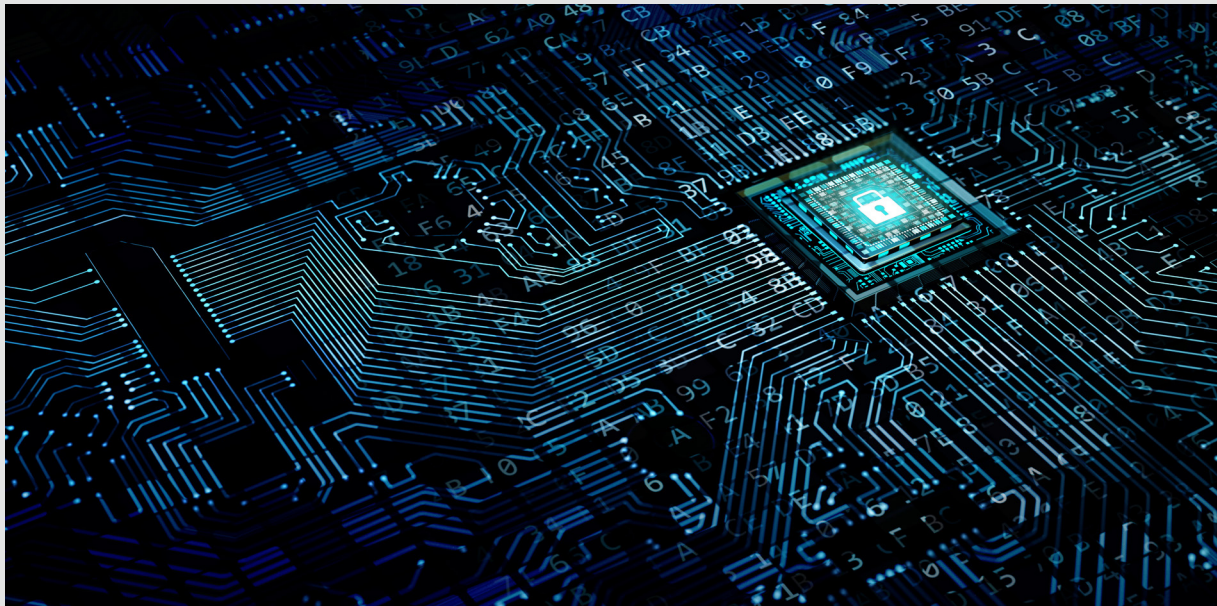


Transparent subscription model

AVSystem's DHCP server is available in the OPEX model and has several transparent service plans. That way, **you know what you pay for and only pay for what you need.** To make the purchasing decision easier for you, we also offer a free 30 day trial.

COMPLEMENTARY SOLUTIONS

- **Cloud ACS** – cloud-based device management via TR-069
- **Unified Management Platform** – multiprotocol device management for telecoms
- **Broadband Service Assurance Platform** – access network issue monitoring and prevention



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ABOUT AVSYSTEM

AVSystem is a vendor of Internet of Things and device management software present on the market since 2006. Our mission is to develop solutions that help enterprises create and manage ecosystems of connected devices. We offer platforms for device and network management, IoT application enablement, WiFi marketing and indoor location, as well as embedded tools.

As market leaders in IoT device management, we manage millions of devices worldwide. We focus on scalable solutions based on standards such as LwM2M to help companies speed up the time to market of their IoT projects.





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