



DCP

PROFINET Discovery and basic Configuration Protocol (PN-DCP)

The Discovery and Basic Configuration Protocol DCP is a protocol definition within the PROFINET context. It is a Data Link Layer based protocol to configure station names and IP addresses. It is restricted to one subnet and mainly used in small and medium applications without an installed DHCP server.

History

XXX - add a brief description of PN-DCP history

Protocol dependencies

- [DCE/RPC](#): Typically, PN-DCP uses [DCE/RPC](#) as its transport protocol.

Example traffic

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	Vmware_ba:09:ea	Siemens_93:cf:32	PN-DCP	56	Ident Req, Xid:0x1000001, All
2	0.040945	Siemens_93:cf:32	Vmware_ba:09:ea	PN-DCP	120	Ident Ok, Xid:0x1000001, Dev-Options(13), TypeOfStation, NameOfStation:"X208-BORD", Dev-ID, Dev-Role, IP
3	1.422085	Vmware_ba:09:ea	Siemens_93:cf:32	PN-DCP	56	Set Req, Xid:0x1000001, IP
4	1.450029	Siemens_93:cf:32	Vmware_ba:09:ea	PN-DCP	60	Set ok, Xid:0x1000001, Response(ok)
5	1.470034	Siemens_93:cf:32	Broadcast	ARP	60	who has 192.168.0.10? Tell 192.168.0.6
6	1.834109	Siemens_93:cf:32	Broadcast	ARP	60	Gratuitous ARP for 192.168.0.10 (Reply)

Wireshark

The PN-DCP dissector is fully functional.

Preference Settings

There are no PN-DCP specific preference settings.

Example capture file

[ChangelPUsingDCP.pcap](#)

Display Filter

A complete list of PN-DCP display filter fields can be found in the [display filter reference](#)

Show only the PN-DCP based traffic:

Capture Filter

You cannot directly filter PN-DCP protocols while capturing.

External links

- [add link to PN-DCP specification and where to find additional info on the web about PN-DCP](#)

Discussion

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