

Title:	UPnP vs Port Forwarding				
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Product:	All HikVision IP related Products				
Action Required:	Information only				

**Universal Plug and Play (UPnP)** is a set of networking protocols that permits networked devices, such as personal computers, printers, DVRs, internet gateways and mobile devices to seamlessly discover each other's presence on the network and establish functional network services for data sharing, communications, and entertainment. UPnP is intended primarily for residential networks without enterprise-class devices.

**UPnP** is functional only if the gateway (router) supports **UPnP**, and it is enabled.

**UPnP** creates port forwarding (port mapping) only when the device is connected to the network, and it is powered on. As soon as the unit is powered off, or disconnected from the network, the port forwarding rules will be deleted automatically.

Unlike **UPnP**, **Manual Port Forwarding (Port Mapping)** rules remain intact regardless of the unit being connected to the network or being powered on.

If **UPnP** is enabled in **the HikVision DVR or IP Camera**, and **Manual Port Forwarding** rules have been created- **these settings will conflict with each other**. Due to this conflict, the forwarded ports will appear to be closed, and there will be no communication to the DVR from a public network, and the DDNS will fail to register.

**To avoid this conflict- disable the UPnP on the DVR/Camera.**