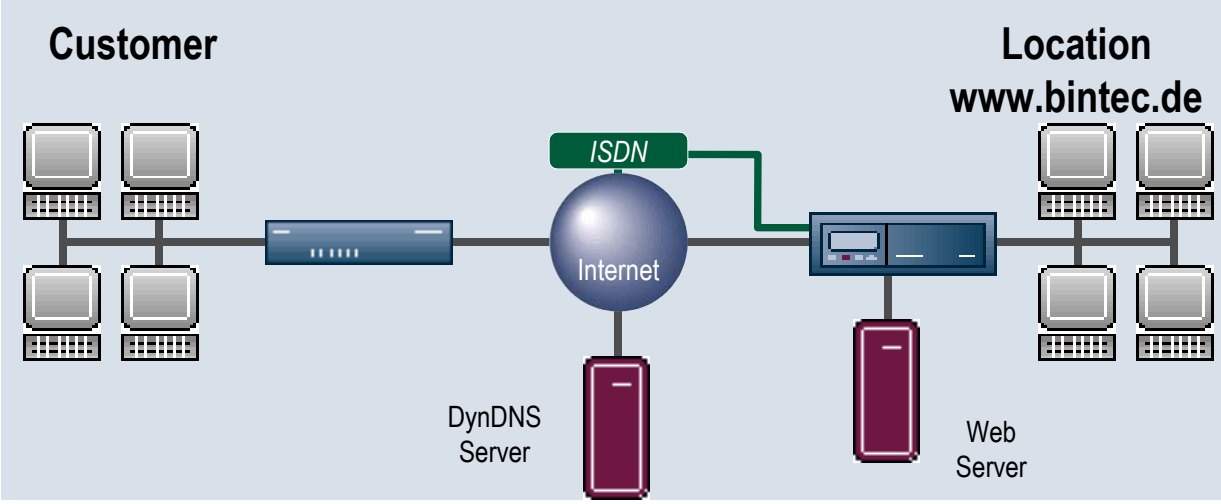
Bintec Solution – DynDNS 4:

High availability for Web servers thanks to DynDNS

Web servers are the Internet. To make them accessible, they are usually operated behind connections with static IP addresses. Although static addresses are expensive, they offer high availability. To increase this availability, it is possible to have the static IP address converted by a DynDNS provider. This does not mean that the www.bintec.de Internet address is changed on the root servers on the Internet, into which the static IP address has been “burned”. Updates, such as a change in the IP address, can take up to 24 hours here. Should the connection to the Internet not be available with the static IP address, then the Web server is not available. This cannot only be very expensive, it can also be very annoying for customers.



DynDNS servers can help. Although technically not necessary, the static IP address is converted by the DynDNS provider. Before this is possible, an account must be opened with a DynDNS provider (free of charge, e.g. bintec@dynDNS.org or at an additional cost as www.bintec.de). At regular intervals, which can be freely configured, the router communicates the fixed IP address to the DynDNS server. Customers who want to access the Web server simply type www.bintec.de into their browser. The Web server then requests the current IP address and receives it from the DynDNS provider.

Should Internet access via DSL not be available because there is no connection, the Bintec device will automatically activate the connection to the Internet via the integrated ISDN modem. As a result, the device receives a different dynamic IP address, which it then communicates to the DynDNS server. If someone wants to access www.bintec.de, the current dynamic IP address is supplied by the DynDNS server. This makes the Web server available, even when the main connection is not. As soon as DSL speed is once again available, the Bintec gateway terminates the ISDN backup connection and communicates the new IP address to the DynDNS server.

This solution increases the availability of Web servers considerably and can be realized with all Bintec products. The X4000 family routers and the products in the new VPN Access line also allow three Ethernet interfaces.