

What is NTRIP?

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"Networked Transport of RTCM via Internet Protocol," or NTRIP, is a protocol developed by the Federal Agency for Cartography and Geodesy of Germany ([BKG](#)) that enables streaming of DGPS or RTK correction data via the internet.

There are three major parts to the NTRIP system: The NtripClient, the NtripServer, and the NtripCaster (Figure 1):

- The NtripServer is a PC or on-board computer running NtripServer software communicating directly with a GNSS reference station. The NtripServer serves as the intermediary between the GNSS receiver (NtripSource) streaming RTCM data and the NtripCaster.
- The NtripCaster is a HTTP server which receives streaming RTCM data from one or more NtripServers and in turn streams the RTCM data to one or more NtripClients via the internet.
- The NtripClient receives streaming RTMC data from the NtripCaster to apply as real-time corrections to a roving GNSS receiver.

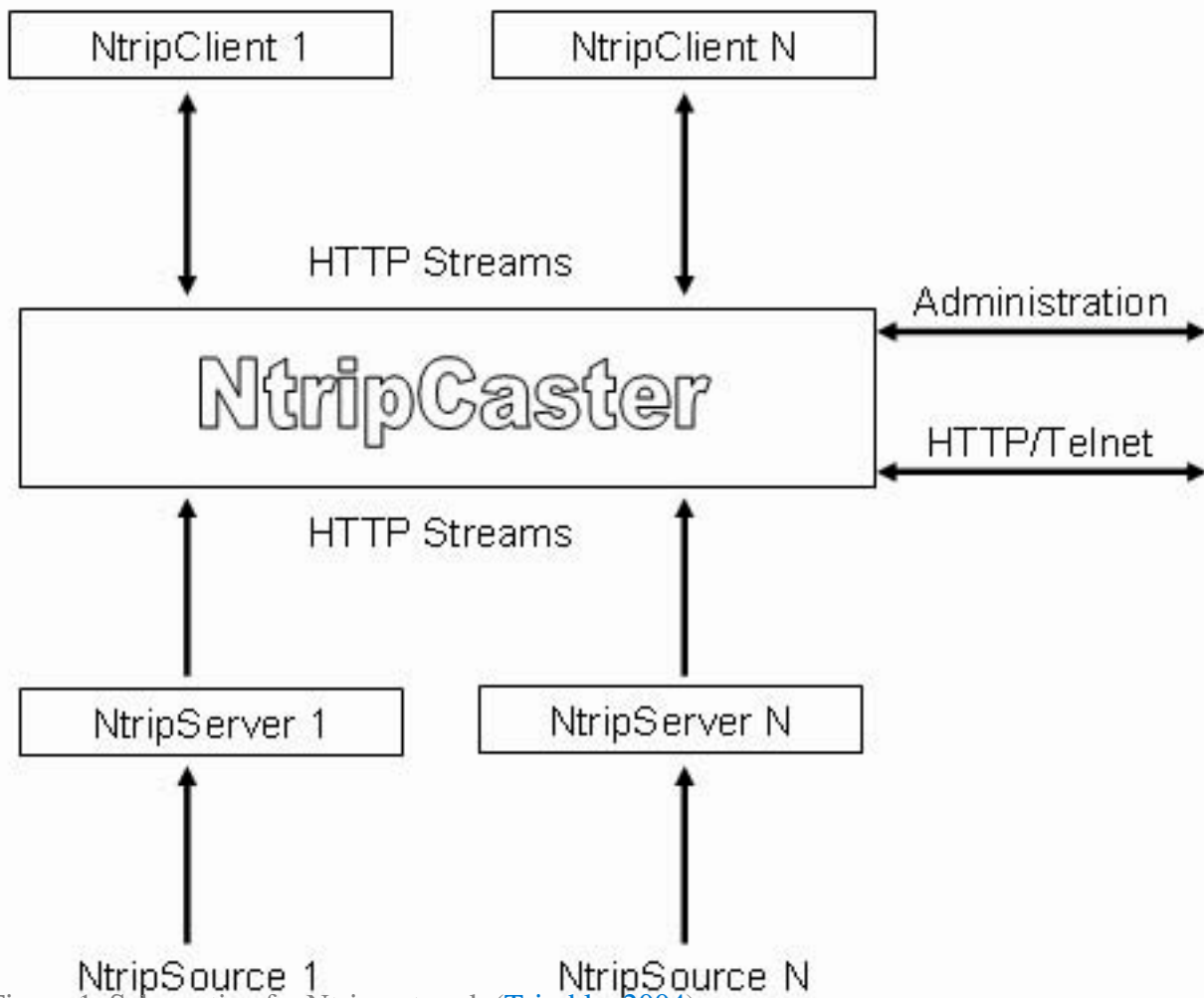


Figure 1: Schematic of a Ntrip network (Trimble, 2004).

Check out the BKG [NTRIP Homepage](#) for more information and for downloads.

For a more detailed summary of how NTRIP works, check out Trimble's "[Networked Transport of RTCM via Internet Protocol \(NTRIP\) - Application and Benefit in Modern Surveying Systems](#)" (2004).

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