



NC7000

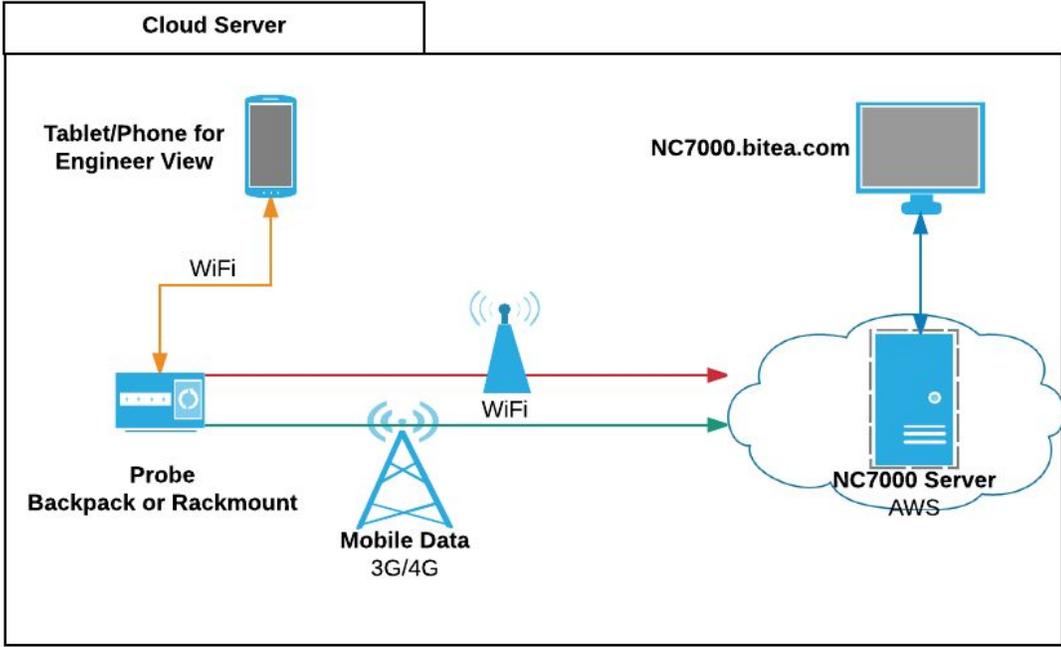
# Deployment Scenarios

October 2017

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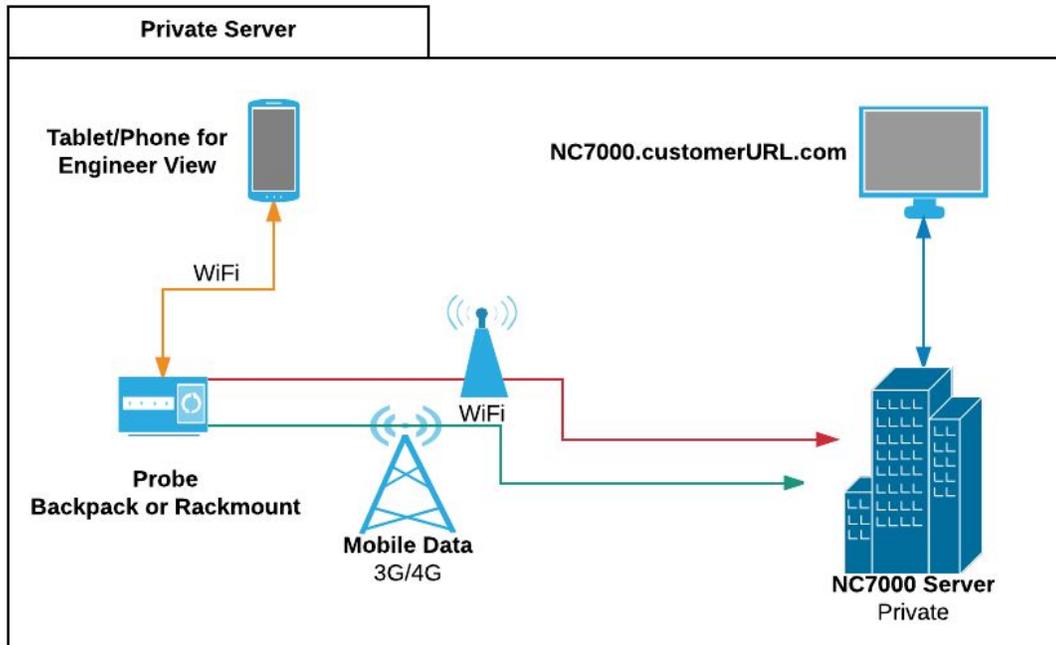
# Cloud Server Deployment



In cloud server based deployments BiTEA operate and maintain the NC7000 server on behalf of the customer. All cloud server deployments are single tenant dedicated deployments for each customer to ensure data from separate deployments is never stored on the same database. In addition, customers can also request server instances in their geographic regions to meet compliance regulations and ensure the best possible performance.

Customers of NC7000 cloud server deployments are typically smaller scale private operations that have a requirement to survey their own TETRA network infrastructure. A cloud based deployment allows the customer to get up and running quickly, probes arrive pre-configured and ready to survey, all the customer has to do is start surveying and log in to their dedicated website to start viewing data.

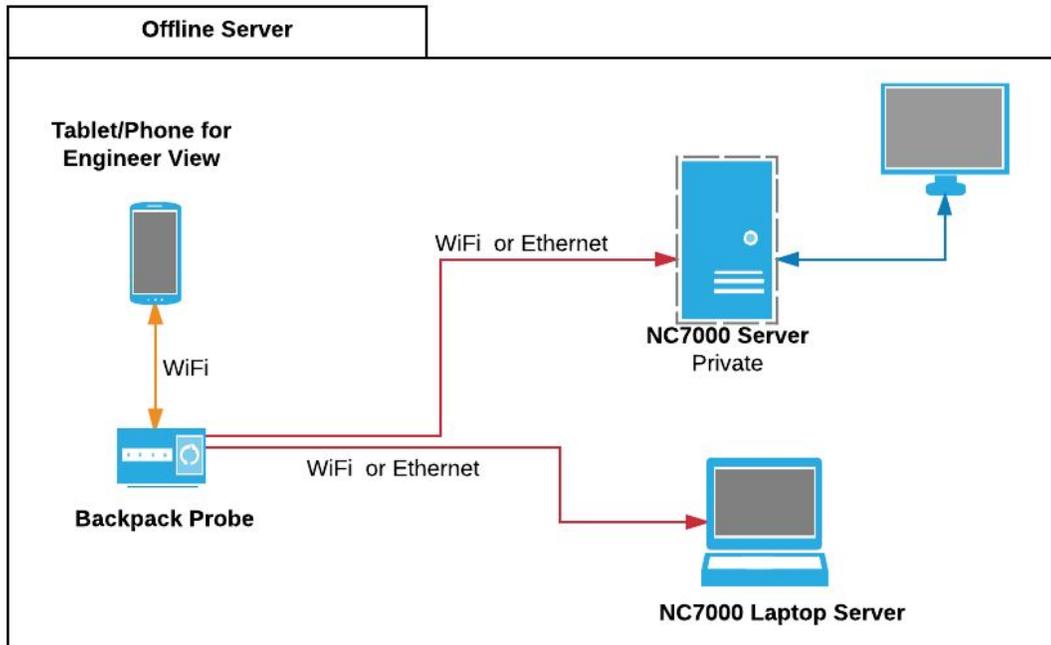
# Private Server Deployment



For large scale deployments and deployments with critical radio infrastructure where survey data storage must adhere to strict guidelines it can often be necessary for customers to be able to operate and maintain their own private NC7000 server. BiTEA fully support this model; whether the desired server is on premises or in a private cloud, the BiTEA team can work with IT departments to deploy and configure the NC7000 server in locations under the complete control of the customer.

Regardless of whether the server is privately located or cloud managed the resulting system that users get to work with is the same. In both cases the users still get all of the functionality and flexibility to do indoor and outdoor testing (driving or walking) including voice quality measurements, with data uploaded in realtime from the field to the centralised NC7000 server, the only difference is where that data is physically stored. Also, with both private server and cloud server deployments all data is encrypted when it is transmitted to and from the NC7000 server.

# Offline Server Deployment



The NC7000 offline server deployment model is designed to support scenarios where no internet connectivity can be acquired in the field, for example underground mining operations, deployments in very remote regions or high security deployments where transmitting data via the internet is not permitted. In these scenarios NC7000 is operated in exactly the same way except rather than uploading data in realtime via the internet, the probes instead upload their survey data when returned to base. This data upload can be performed wired (via Ethernet) or wirelessly (over WiFi).

For offline deployments the NC7000 server can run on a private server on customer premises or the server can be configured to run on a standard laptop. Using a laptop as the server provides the customer with a standalone system that requires no additional infrastructure to operate, data is captured by the probes, transmitted directly to the laptop and then viewed on the same laptop using the NC7000 web interface.

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