

ClockSync

LOCATION - B3/COLOCATION - SP/BRASIL
Endereço: R. Ricardo Prudente de Aquino, 85 - Res.
Tres (Tambore), Santana de Parnaíba - SP.

OVERVIEW

GPS

PTP

Client PTP / Mgmt



GPS

Each Connection for our GNSS Splitters:

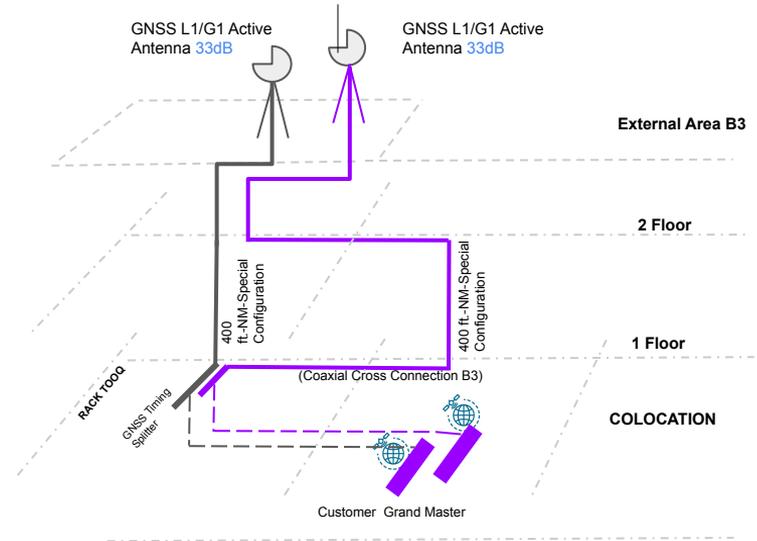
- GPS sync good
 - Jamming/noise: ~ 14%,
 - Satellites in use: 7 - 13
 - Max signal strength: ~ 45 dB Hz
 - Source Accuracy : -0.000000050 seconds

Type 1

Single coaxial cable connecting the customer's grand master to one of the antennas through the splitter.

Type 2

Two coaxial cables connecting one or two customer grandmasters to two antennas through different splitters."



Type 1



Type 2



PTP

Type 1

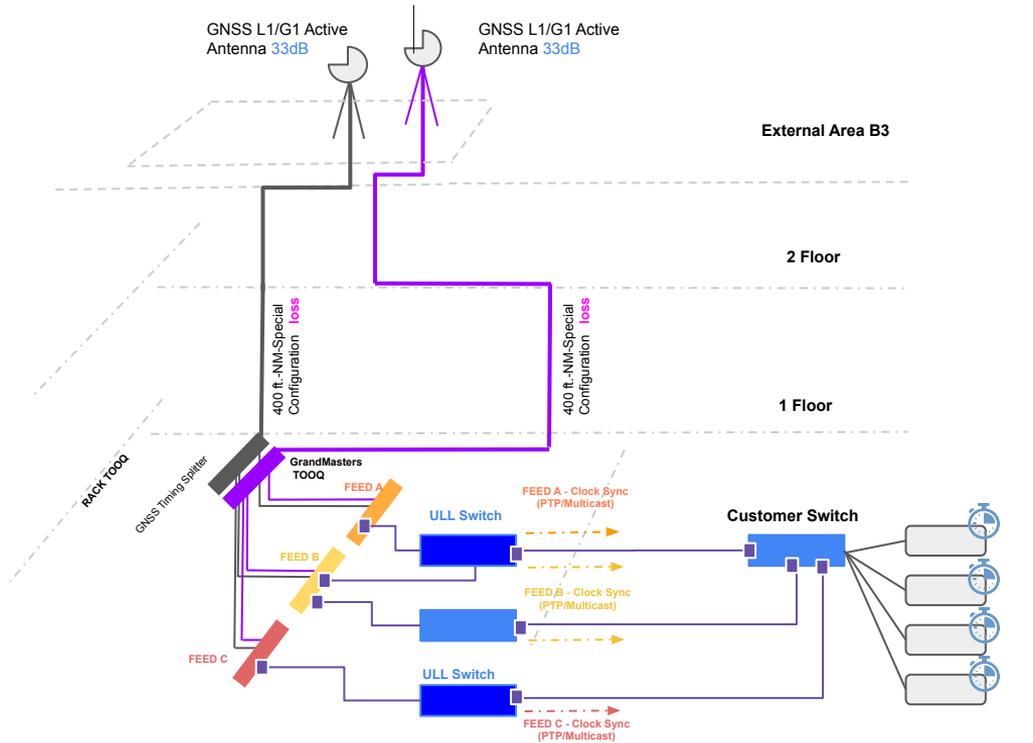
"Feed A/C & B going through single cross connection - Offset around 80ns"

Type 2

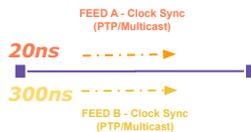
"Feed A going through one cross connection and Feed B going to another"

Type 3

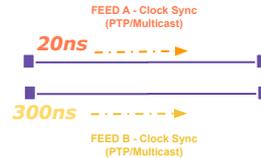
"Feed A & C going through two cross connections - Offset around 80ns each one"



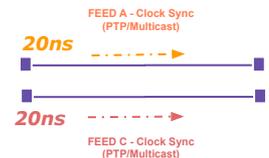
Type 1



Type 2



Type 3



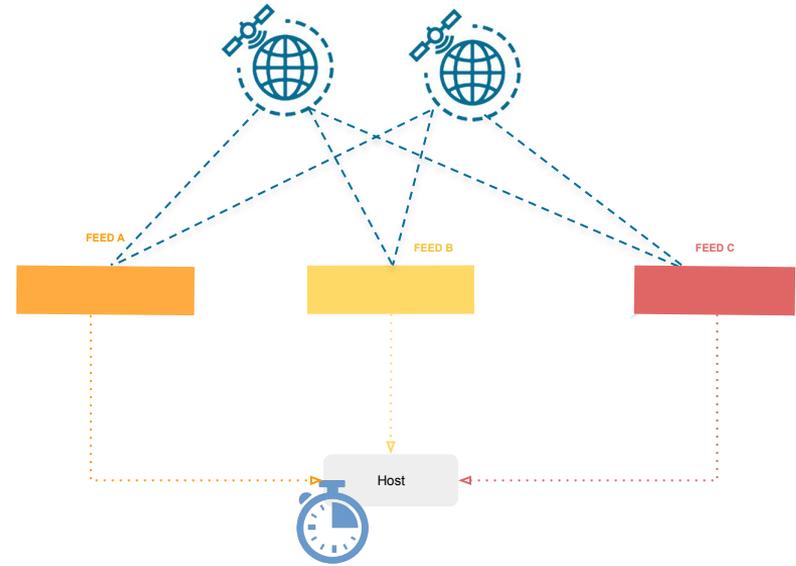
Client PTP & Management

The PTP client clock is a device that synchronizes its time with the grandmaster source 0 clock in a PTP network. With the important fallback feature for the client clock, as it allows the clock to switch to a different grandmaster clock if the primary one fails. This ensures that the client clock maintains accurate time synchronization on any disruptions in network operations.

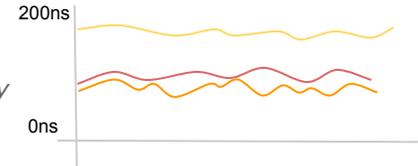
A platform for managing PTP clients provides visibility into the offset of all hosts relative to their respective grandmasters. It also allows for performance analysis of the clock delivery to applications within the host. This is important for troubleshooting and optimizing system performance. The platform also provides a centralized view of all PTP clients and their respective configurations. This can help administrators with deploying and managing PTP clients across a network.

Check demo:

<https://qrco.de/bdsNCj>



Offset from source:
Nanoseconds accuracy



Clock performance:
Microsecond Accuracy

