

Technical Bulletin

This document provides best-practice recommendations for using your X-System. If you have any questions after reviewing this document, please call Customer Support at 1.800.749.2761 or consult the additional product documentation available at <http://www.coachcomm.com/x-system-support>.

CoachComm New Radio Transceiver Deployment for Coach-to-Player

In an effort to maximize RF performance and convenience when deploying the CoachComm X-System (X-Cart and ATA) with Coach-to-Player (C2P) communications, we have made a change to our recommendations on Radio Transceiver (RT) deployment. A recent firmware (FW) update (v1.21.0.34) now allows for the High Density-Mode RT to be mounted on the same main mast as the other Normal-Mode enabled RTs and now no longer requires a separate High Density-Mode RT to be mounted on a tri-pod and be placed at least 25 yards from the main mast. This change is made possible due to the creation of a co-location mode (now the default mode) added to the settings of High Density-Mode RT. Please note that this mode has changed the ability of “Coaches” packs to log into this co-located RT. In this new mode, only two XRP-13 coaches packs can be talkers at the same time, as opposed to four when co-location mode is disabled. This means that it is recommended that you keep as many listen-only devices as possible on the High Density-Mode RT since there are limitations as to how many coaches can talk simultaneously.

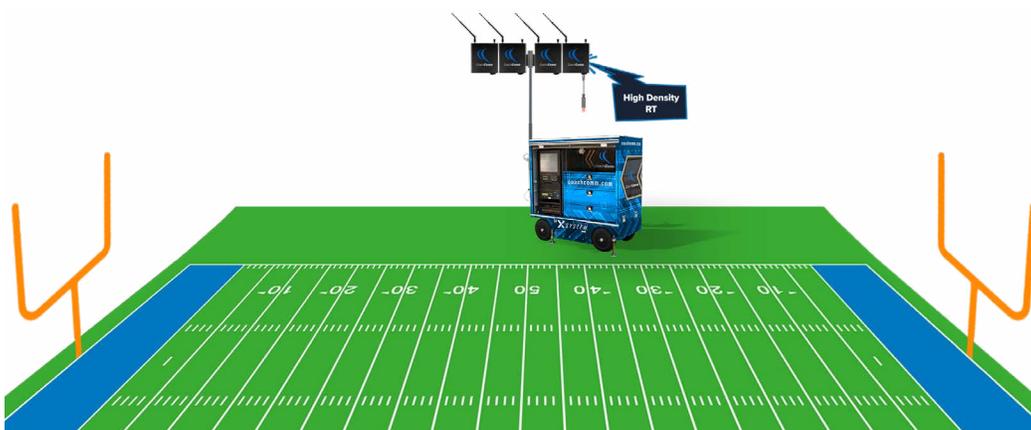
Note: This change in deployment *ONLY* applies to systems running FW of v1.21.0.34 or higher with an RT set to High Density (Co-location Mode On) and specifically used for C2P communications. Also, this change has no effect on 2.4 GHz antennas used with the wireless press box for coaches upstairs; this is *ONLY* for 900MHz field RTs.

As a reminder, CoachComm also recommends that all RTs now be mounted on the same side of the mast with all antennas deployed at a 45-degree angle. This orientation maximizes spacing between antennas and minimizes interaction between them as well.

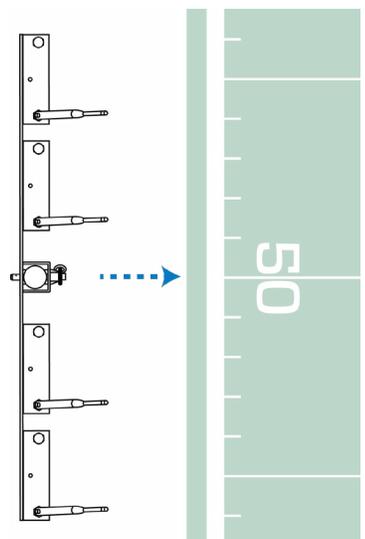
See figures for examples of recommended High-Density Co-location C2P RT setup.



*Recommended Setup
RTs and Antennas on Mast*



*Recommended Setup
Up to 3 Normal-Mode RTs and 1 High Density-Mode RT*



*Recommended Setup
RTs (CoachComm Logo) Pointed
Towards Opposing Team and Antennas
at a 45-degree Angle*

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