

TECHN RAMA

Ready, Set....Broadcast



Outside Broadcasting

Types Of OBs



- **Live Sports**
 - Local Football/Basketball/Cricket



- **Public-facing OB**
 - Live coverage from public events, sponsor activations



- **Contributors**
 - Hosts/Journalists reporting live from Public Events as quick five min segments via Phone-APP type software
- **Remote Hosts**
 - Talent presenting from home



Transport

How do you connect back to the Studio?



- **LAN – Wired Internet Connection**
 - The most reliable form of transport

- **Cellular – Wireless connection using Mobile Network**
 - 4G/5G – Reliability dependent on the mobile phone network **at the time**



- **Satellite**
 - Starlink – Set up anywhere, not reliant on Mobile Network
 - Potential for higher latency (signal delay) due to distance between you and the satellites
 - Could have switching breaks, IP addressing challenges, unpredictable loads



How to Execute your OB

- **Panel Op at Studio**
 - - Audio Assets played from Studio – Hosts Mics mixed from the OB and sent back to the Studio via codec
- **Using Remote Control to Fire Audio Assets**
 - - Hosts use Remote software to access Playout system, Eliminating Studio Panel OP

- **All Playout from OB**

- - Audio Assets played from OB

High Quality Stereo link required back too the studio

Risk of OFF AIR if link is lost



Equipment

- **Codecs – What's the best?**
- **Tieline, Comrex, AEQ – which one do I choose...?**



- **Microphones vs Headsets**
- **Dynamic microphones have the best sound**
- **Headsets allow for more free Movement**

- **Using PA Speakers**
- **Best placement – speakers on stands**
- **How loud should they be?**
What can happen if they're too loud



The Mix-Minus

What is a Mix Minus???

- Studio Output Mix – Minus the OB Feed
 - Eliminates Feedback/Loopback

How to Create a PA Mix

- Using a Stereo Connection – Left Return is Mix Minus plus Talk Back
 - Right Return is Mix Minus NO Talk Back – This feeds your P.A



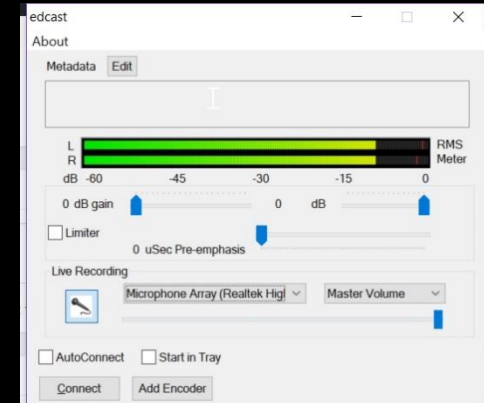
OB Connections on the Cheap

(“...we have no money for hardware codecs...”)

- Using a Private Web-stream, you can still conduct a successful OB.
- All audio assets must be played from Outside Broadcast location
 - Would not have return line from studio

Equipment Required

- Audio interface
- Laptop with Internet Connection and
- Web Stream Encoding Software



Preparation

- **Pre event site visits**
- **Plan to do Site Inspections, even on locations you have been to before.**
- **Power Source**
 - **Determine where your mains power is coming from**
 - **Consider a backup generator**
 - **Ensure power runs are compliant with WHS regulations**



Presentation

- **Look the part**
 - Ensure your setup looks Professional
- Run all cabling in a professional and WHS-focused manner
 - Don't look like a backyard setup
- **Promotional Material**
 - Banners and backdrops with **station branding**
 - Tablecloths with **station branding**
- Paper promotional material promoting programs and the station's standing in the community



Staying Legal and Compliant in Public

Test-n-Tag of Electrical Equipment

- **What needs to be Test-n-Tagged?**

Insurance

- **Ensure your station's Public Liability covers you at Public Events
(Regardless of size)**

Cable Management

- **Hide any excess cabling, run cables neatly together in one line**
 - **If running cabling through Public Spaces:**
 - **use cable trays, or**
 - **consider flying (running overhead)**



How to get OB skills?

- Available through CMTO: “Pathways Class”
 - Typically two full days of training
 - On-station
- Best in conjunction with an OB (third day)!
- Talk to Mikaela Ford and John Maizels



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Questions?



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