



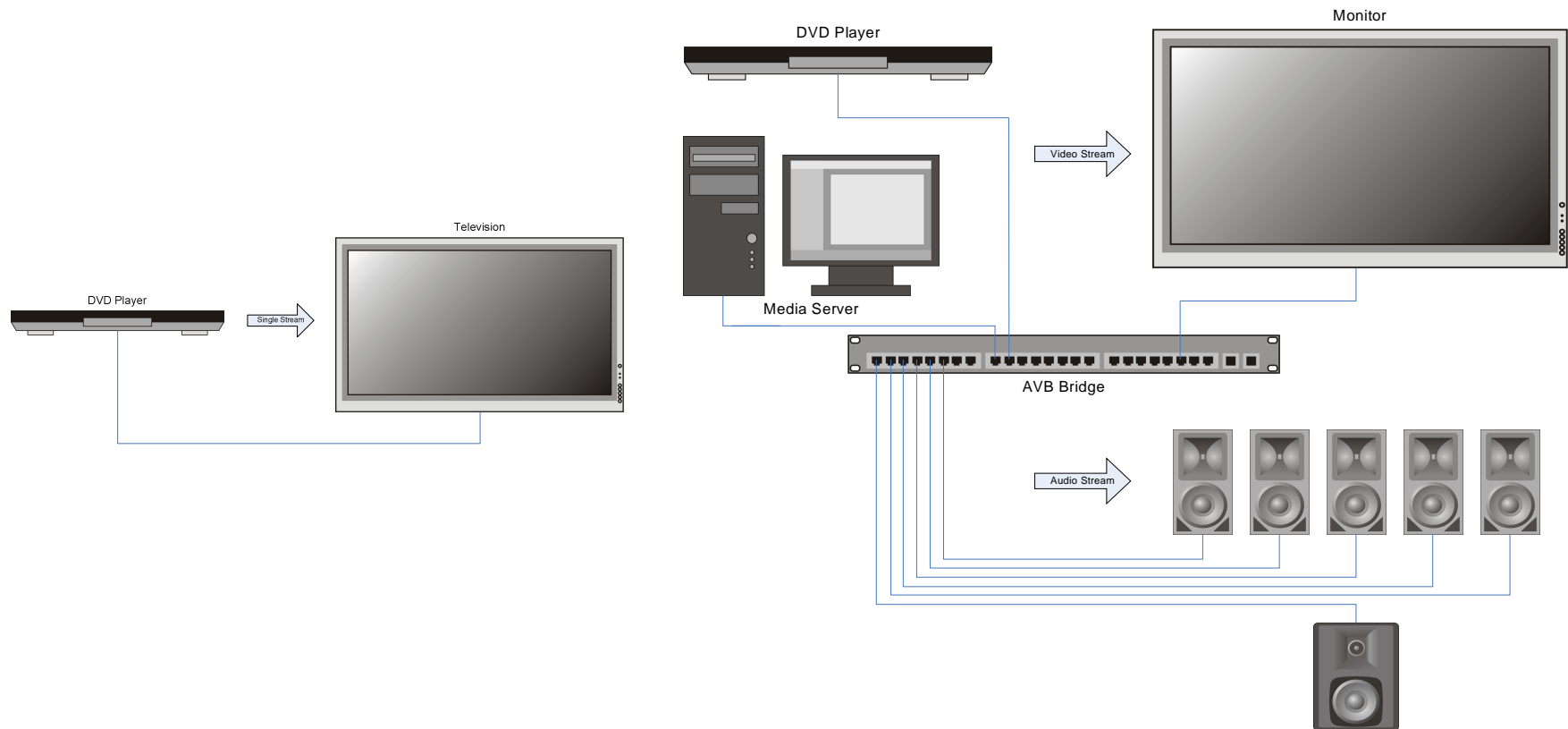
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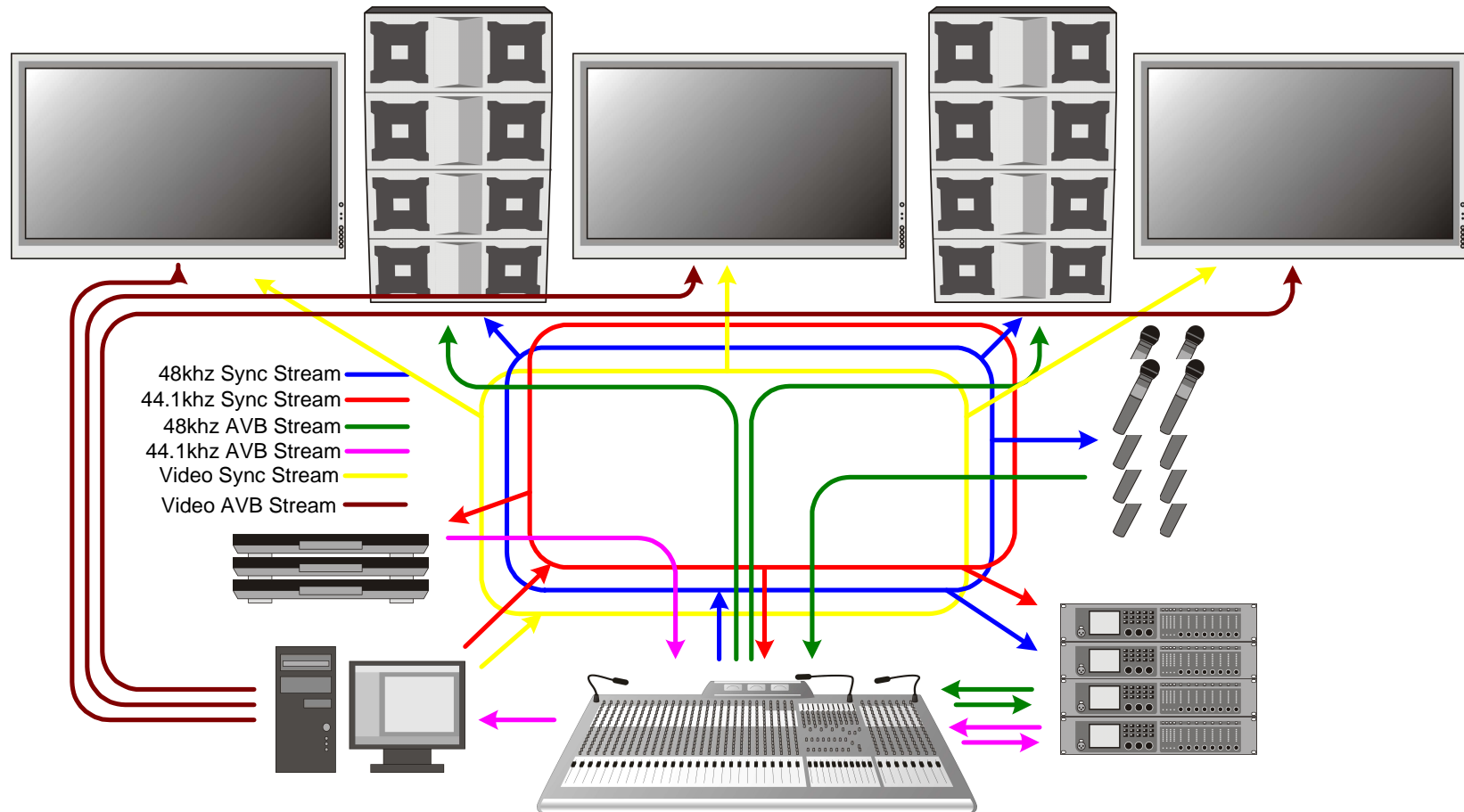
MAAP Overview

- IEEE 1722 needs a mechanism to dynamically allocate Talker Addresses
- No suitable industry standard mechanism currently exists
- Must be suitable for very small networks (2 nodes)
- Must be flexible enough to support large engineered networks
- Need a mechanism to allocate consecutive (MSRP optimized) addresses

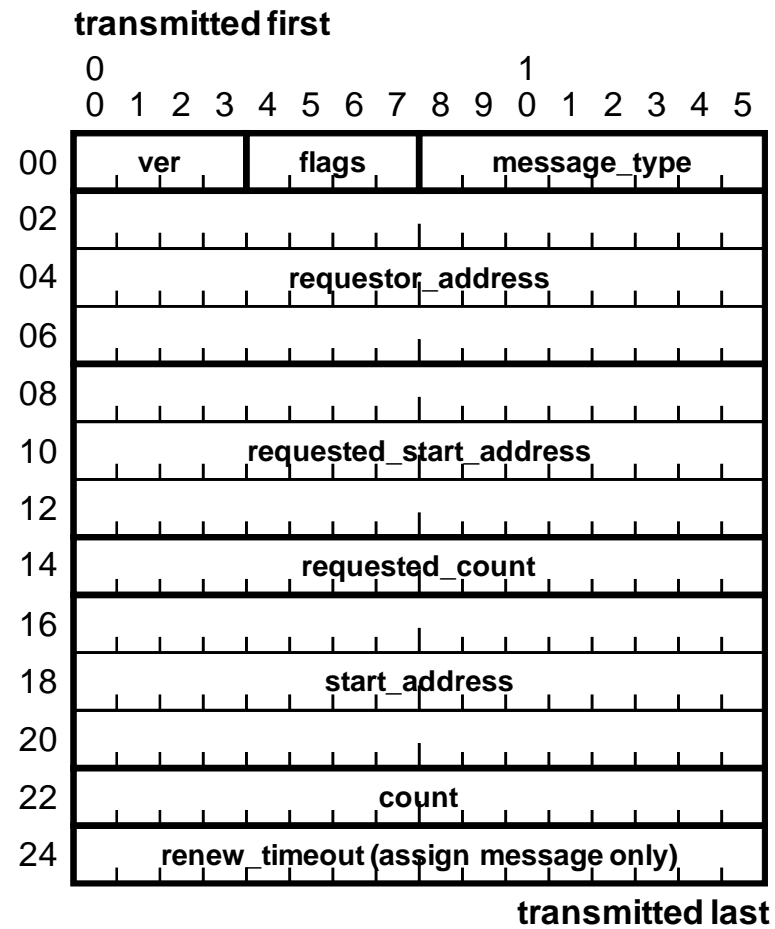
Peer to Peer Mode



Server Mode



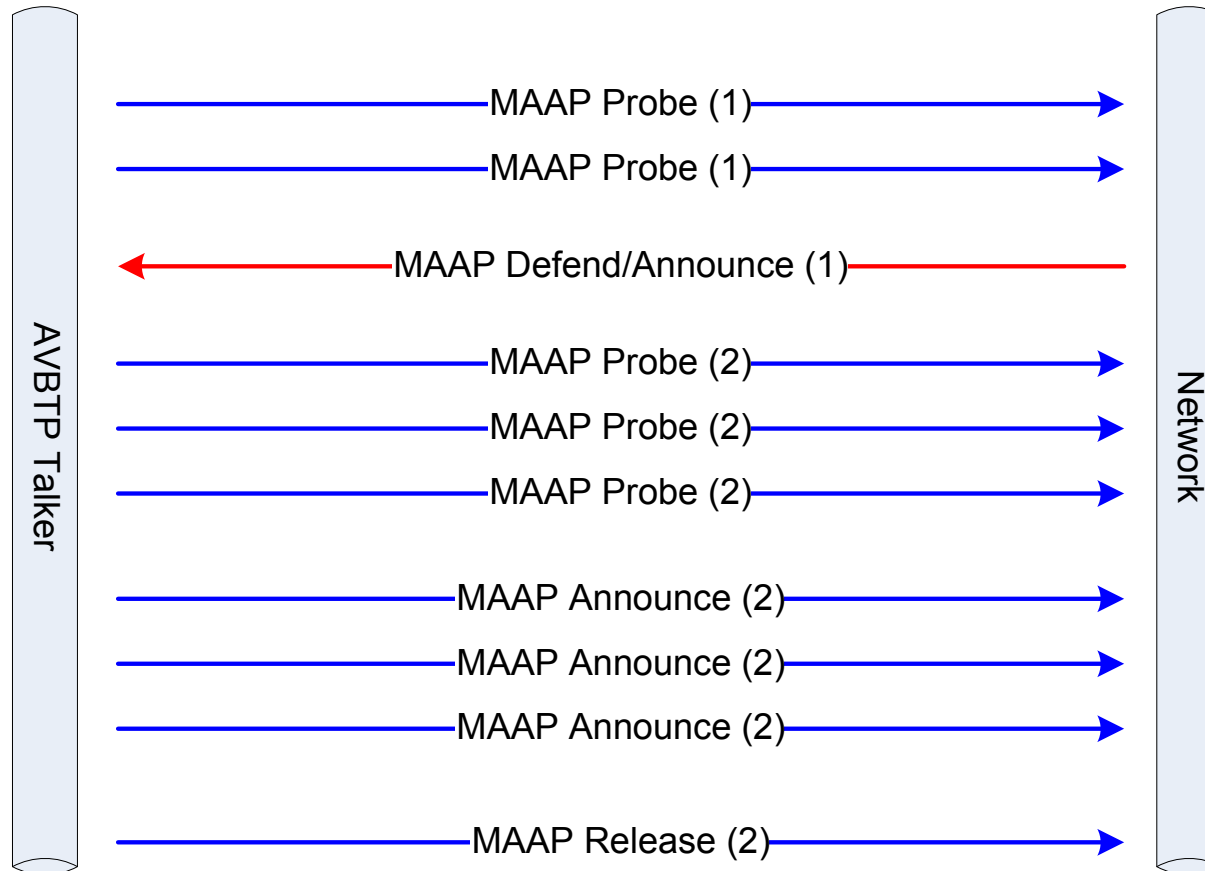
Packet Format



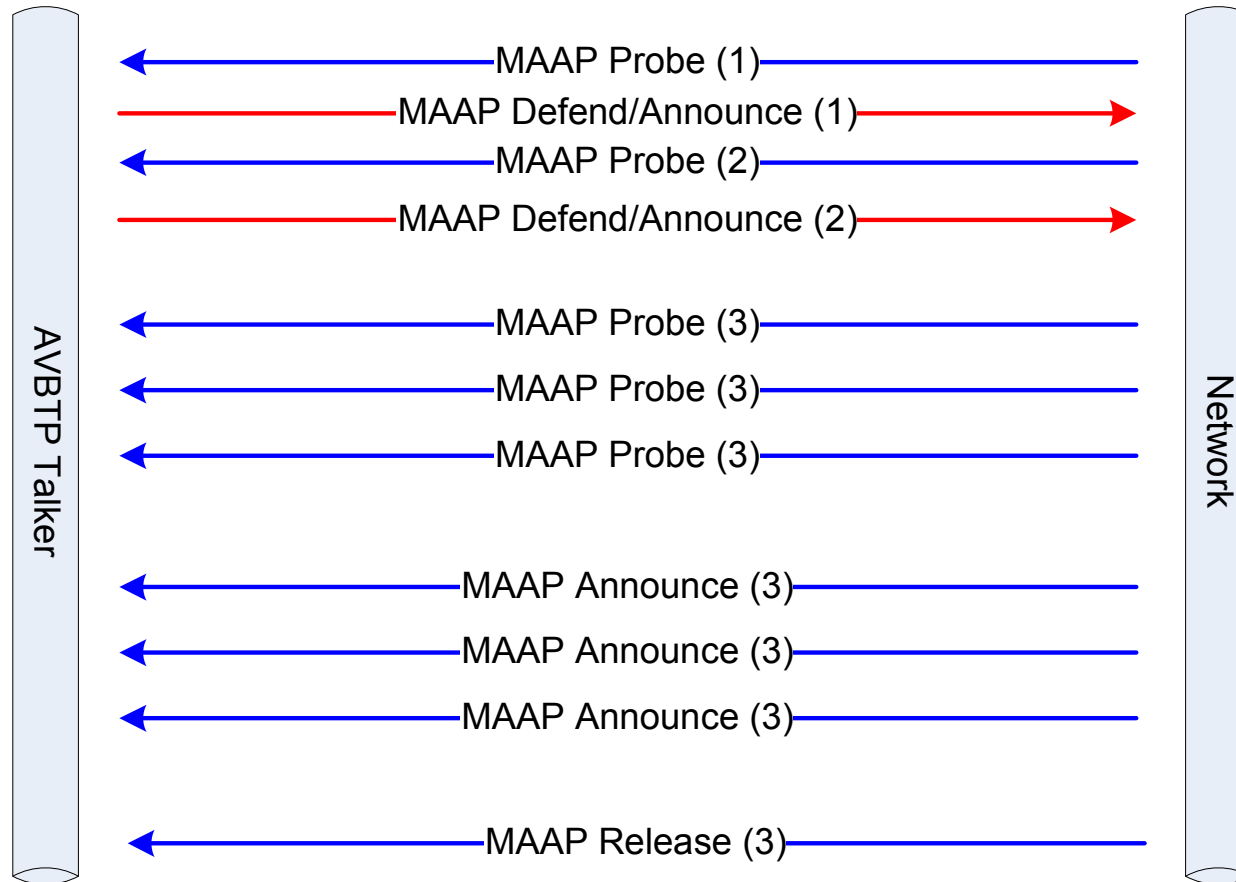
Message Types

1	MAAP_PROBE	Probe MAC address(es) frame
2	MAAP_DEFEND	Defend address(es) response frame
3	MAAP_ANNOUNCE	Announce MAC address(es) acquired frame
4	MAAP_RELEASE	Release MAC acquired address(es)
5	MAAP_ASSIGN	Assign MAC address(es) command
6	MAAP_UNASSIGN	Unassign MAC address(es) command

Peer to Peer Request



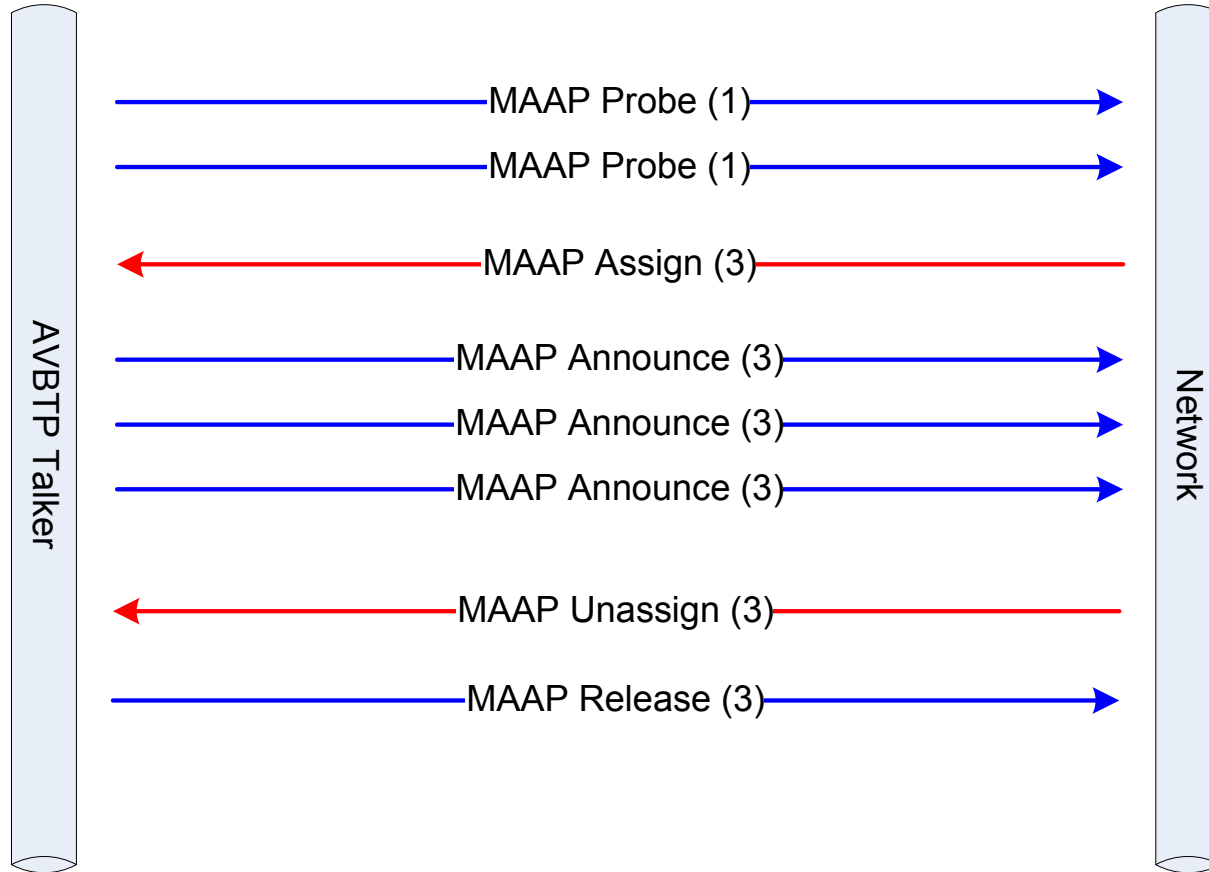
Peer to Peer Defend



Peer to Peer Mode

- Requested addresses are from a unique address set for MAAP use only
- Blocks of consecutive addresses can be requested (MSRP friendly)
- Talkers remember addresses that have previously been assigned to them
- Selection of new addresses is random
- Probe Interval is randomized

Server Request



Server Mode

- Talkers must accept assigned address
- Server may assign requested address
- Addresses can be assigned for a limited time
- Talkers must release unassigned address

References

- <http://grouper.ieee.org/groups/1722/>
- <http://grouper.ieee.org/groups/1722/contributions/avbtp-bartky-p1722-v1-1-2008-08-25.pdf>