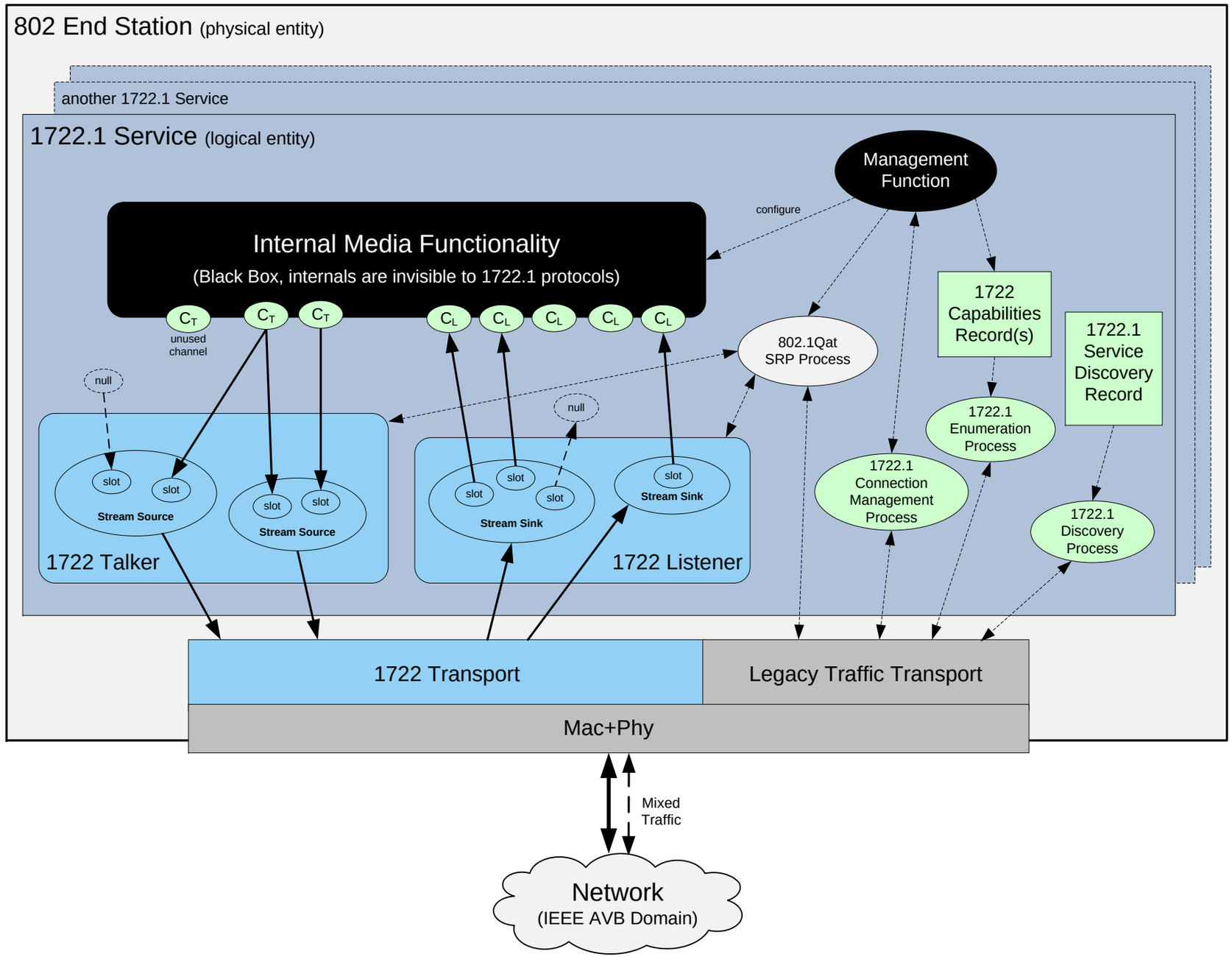


IEEE P1722.1 Taxonomy Diagram

Author: Rob Silfvast, Avid

22-Feb-2010 v2

Legend

- Media Path
- Control Path
- Defined by 1722.1
- Defined by 1722
- C_T Talker Channel
- C_L Listener Channel

Notes

1) The 1722.1 Discovery protocol is not necessarily confined to 1722 based devices and services (e.g. it might also be used for 1733 based services)

2) The 1722.1 Enumeration and Connection Management Protocols are used to identify and connect Talker Channels and Listener Channels between 1722 Services. Note that 1722 Streams are the carriers for Channels, but ultimately this protocol is designed to support Channel-to-Channel connections.

3) Any device that uses these protocols must identify itself on the network as a 1722.1 Service (a controller that does not perform streaming cannot hide its presence on the network)

4) A 1722.1 Service may have zero or one 1722 Talkers, and zero or one 1722 Listeners. (is this correct? Or do we need to support multiple talkers or multiple listeners within a given service?)

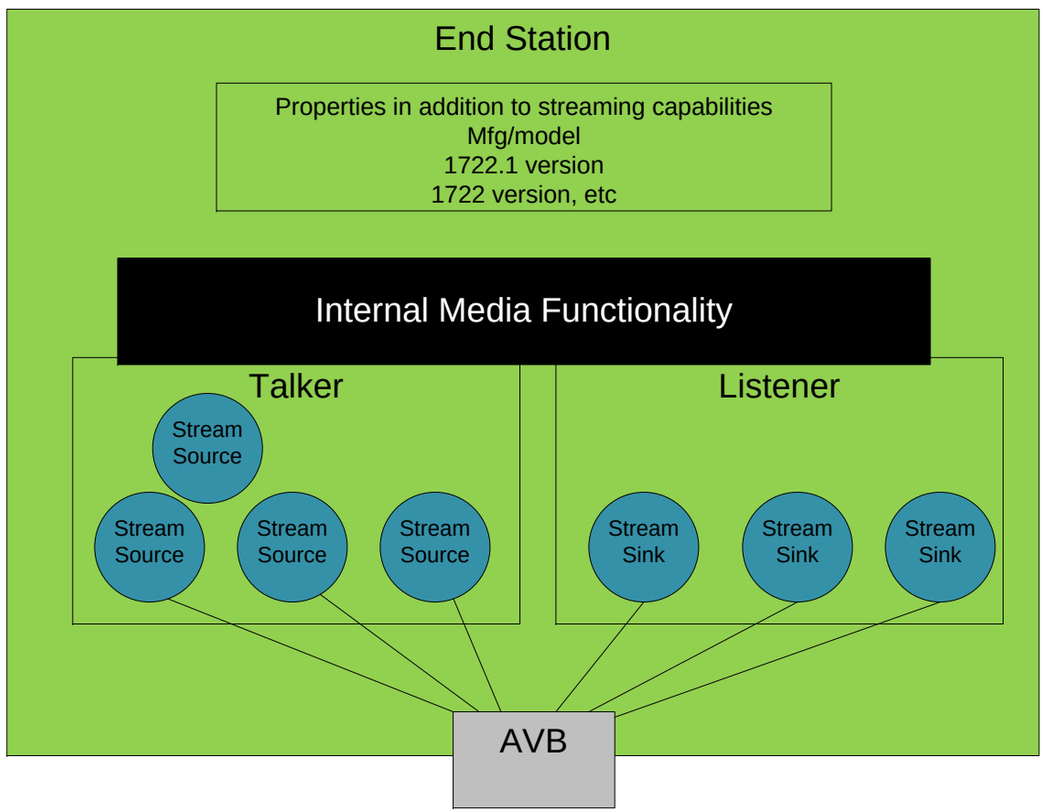
5) The mapping of Talker Channels into Streams is the responsibility of the specific 1722 service, and is not under the control of 1722.1 protocols.

6) The 1722.1 protocols should NOT hide the relationships between Talker Channels and specific Streams. Therefore, the 1722.1 Enumeration protocol must convey both the Channel and Stream information in such a way that a Connection Management UI can (at the implementer's discretion) convey this info to a user .

7) In general, the 1722.1 Service Discovery Record for a given service is constant throughout the life (on the network) of that service. Minor exceptions to this are allowed, such as the changing of a service's nickname.

8) The 1722 Capabilities Record(s) of a given service may change over the life of that service on the network. The 1722.1 protocols should be designed to support configuration changes (such as number of channels, sample rates, etc)

9) A 1722.1 Service that does not perform 1722 Streaming (Talk or Listen) can communicate with other 1722.1 Services over legacy (non-AVB) links. An example of this is to perform remote connection management or local connection management with a non-AVB-compliant computer.


End Station
Properties in addition to streaming capabilities
Mfg/model
1722.1 version
1722 version, etc
Internal Media Functionality
Talker
Listener
Stream Source
Stream Source
Stream Source
Stream Source
Stream Sink
Stream Sink
Stream Sink
AVB