Discovery of Service consumption by STAs
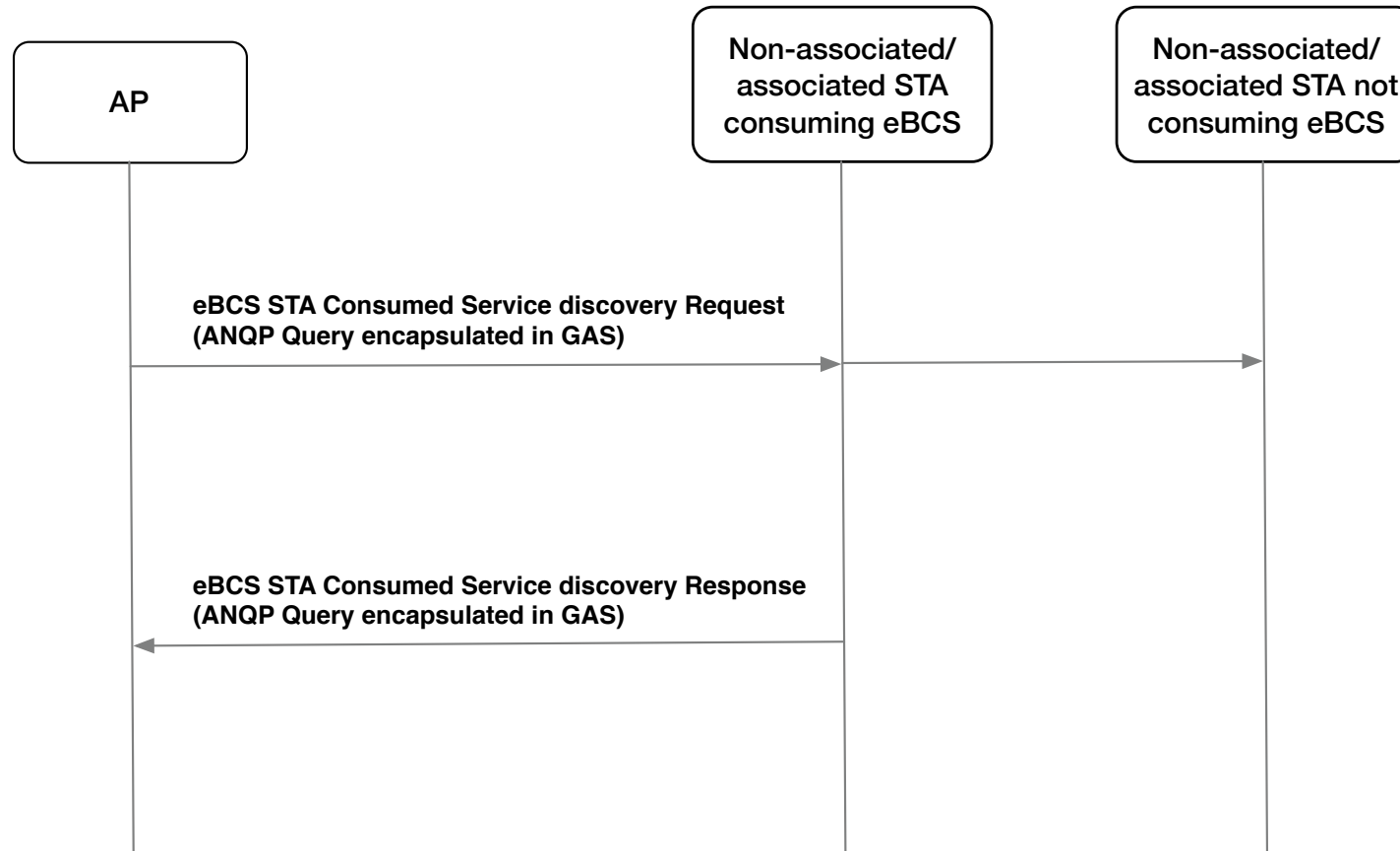
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Service discovery requirements

- Within the requirements document there is the explicit need for service discovery:

  - **R3.5.2:**   802.11bc amendment shall have a mechanism to facilitate the discovery of STAs consuming a particular broadcast service.

- This must be done for associated/un-associated STAs

- **Proposal is to use ANQP Request/Response originated from AP**

Operation

Considerations

- GAS in broadcast will require all STAs (associated/non-associated) to process the message.
    - Suggestion-> Reserve a groupcast address for STA service discovery
- Discussion during January meeting on how to synchronize elements for service discovery
    - Once this discussion is completed, creating ANQP elements for STA service consumption should be straight forward

Possible parameters

- **Request:**
  - Service list
- **Response:**
  - Service list per BSSID

```
┌──────┐                          ┌──────────────┐   ┌──────────────┐
│      │                          │ Non-associated/│   │ Non-associated/│
│  AP  │                          │ associated STA │   │ associated STA │
│      │                          │   consuming    │   │  NOT consuming │
└──────┘                          │    eBCS-ID     │   │    eBCS-ID     │
                                  └──────────────┘   └──────────────┘
```

eBCS STA Consumed Service discovery Request [eBCS ID]
(ANQP Query encapsulated in GAS)

eBCS STA Consumed Service discovery Response [BSSID, eBCS ID]
(ANQP Query encapsulated in GAS)

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