

# Load Balancing & Beacon Customization

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# Load Balancing

- Load balancing is important:
  - Spreading stations enhances performance.
- Currently no provisions for load balancing.
  - This leads to proprietary solutions.
  - Proprietary solutions prevent interoperability.
    - Bad for the industry and standard.

# Proposed solution

- Add load balancing information to the Beacon:
  - Load of the Access Point,
  - Load of neighbor Access Points.

## In a broader sense...

- Vendors will invent new (proprietary) features that require extensions to the Beacon.
  - Violates conformance rules.

# Beacon Customization

- The structure of the Beacon (based on elements) allows for extensions.
- Reserve an element that vendors can use to accommodate their extension.
  - Structure:
    - Element ID (1 octet)
    - Size (1 octet)
    - Vendor ID (2 octets)
    - Element Data (x octets)