Load Balancing
&
Beacon Customization

Maarten Hoeben
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)