

# Service Discovery

Brian Batchelder

Hewlett-Packard

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# What are service directories?

- List of all advertised services supported by the device on the selected unit or across the current login (as appropriate).
- Device may choose to “hide” services.
- Services may appear or disappear at any time. The service directory shows the services available at the time it is retrieved.

# How long is the service directory?

- There is no maximum length of a service directory.
- *Note: The service directory will be transmitted as one message using the EOM bit.*

# How is the service directory encoded?

- The service directory is encoded as a list of service IDs.
- Each service ID is a parameter (0x82) followed by the name of the service, which is limited to 40 bytes.
- *Issue: Can parameters be split across buffers?*

# How is the service directory retrieved?

## ■ Query

- Service directory is transmitted in response to a SERVICE DIRECTORY request.

## ■ Autonomous

- Service directory can be transmitted autonomously upon change.

## ■ Config ROM

- Can optionally be encoded as a Service ID leaf under the Feature Directory.
- Potentially useful for plug 'n play.

# How do I query the service directory?

- Use SERVICE DIRECTORY request
  - $rq = 1$
  - $ctrl\_function = 0x05$  (SERVICE DIRECTORY)

# How do I return a service directory?

- Use SERVICE DIRECTORY response
  - $rq = 0$
  - $ctrl\_function = 0x05$  (SERVICE DIRECTORY)
  - parameters = Service Ids (one per service)
- set m bit (end of message) appropriately
  - 0 in all but last ORB of service directory
  - 1 in last ORB (or only ORB) of service directory
- issue responses until entire service directory has been transferred.