

## **Redfish Protocol**

## CRUD Operations from REST

- POST = Create (plus actions)
- GET = Read
- PUT & PATCH = Update
- DELETE = Delete
- HEAD = Get lite

### Discovery

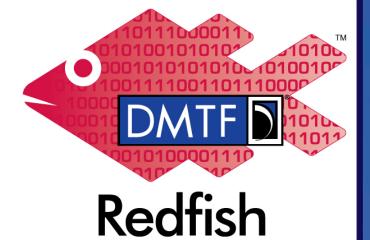
• SSDP used for discovery of endpoint

### Security

 Root can be read unauthenticated. Can POST to Sessions Collection unauthenticated (that's how a session is established).

#### Schema

CSDL & JSON Schema can be located via the Redfish Service



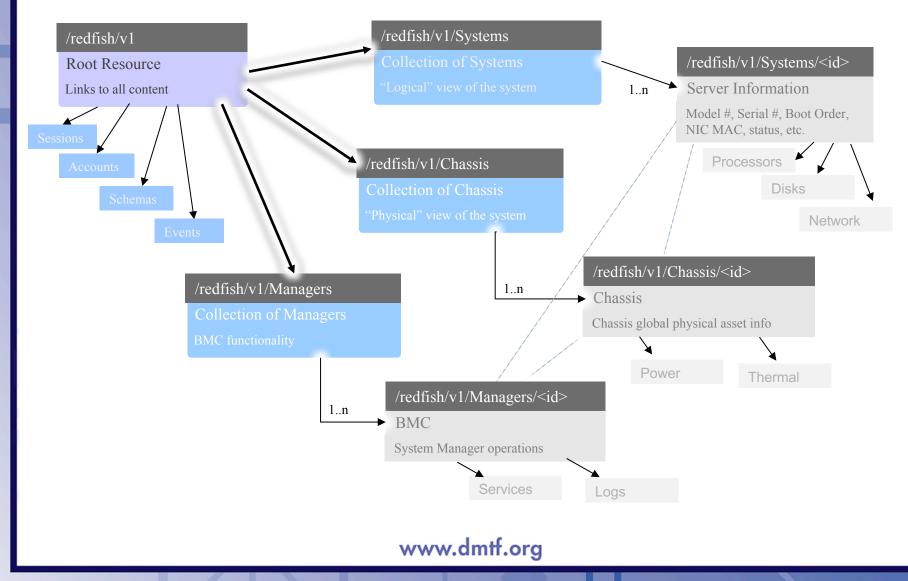
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## Introduction to the Redfish data model

- All resources linked from a Service Entry point (root) Hypermedia API
  - Always located at URL: /redfish/v1
  - Can do a GET on /redfish to find versions (only v1 right now)
  - Each Resource has it's schema version as a property.
- Major resource types structured in "collections" to allow for standalone, multinode, or aggregated rack-level systems
  - Additional related resources fan out from members within these collections
- **ComputerSystem**: properties expected from an OS console
  - Items needed to run the "computer"
  - Roughly a logical view of a computer system as seen from the OS
- **Chassis**: properties needed to locate the unit with your hands
  - Items needed to identify, install or service the "computer"
  - Roughly a physical view of a computer system as seen by a human
- Managers: properties needed to perform administrative functions
  - aka: the systems management subsystem (BMC)

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#### **Resource map (highlights)**



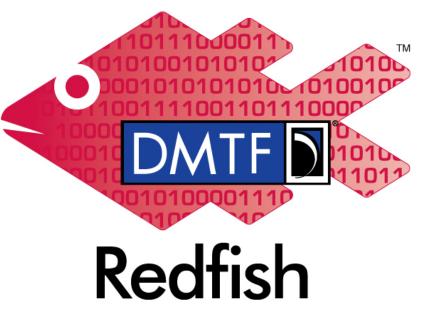
## **Thank you for watching!**

#### • Redfish Developer Portal

- Redfish Interactive Explorer, Hosted Schema at Namespace & other links
- <u>http://redfish.dmtf.org</u>
- Redfish Standards
  - Schemas, Specs, Mockups, White Papers, FAQ, Educational Material & more
  - <u>http://www.dmtf.org/standards/redfish</u>

#### SPMF (WG that defines Redfish)

- Companies involved, Upcoming Schedules & Future work, Charter, Information on joining.
- <u>http://www.dmtf.org/standards/spmf</u>



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