



Redfish Extensions for Operating Configurations

August 2019



- The information in this presentation represents a snapshot of work in progress within the DMTF.
- This information is subject to change without notice. The standard specifications remain the normative reference for all information.
- For additional information, see the Distributed Management Task Force (DMTF) website.





April 2019

- The operating configuration model presented
 - For processor
 - Concepts for using for other platform components and the system, itself (general model)

July 2019 (At APTS)

- Issue
 - A processor product will deliver operating config functionality, which would be managed with the proposed operating configurations model
 - The desire is for this model to be in the standard Redfish model
- Redfish Forum Guidance
 - Release processor operating configurations model as WIP (mockup, schema, slideset), making it public. Merge into subsequent Redfish schema release.
 - Create separate slideset regarding a general model - see if there is interest
 - Depending on interest, merge operating configuration model for processor or await general model



The Redfish service allows a client to select from a set of configurations which a resource can have during operations (configs could be based on perf optimization, validated configs, operational envelop, etc.)

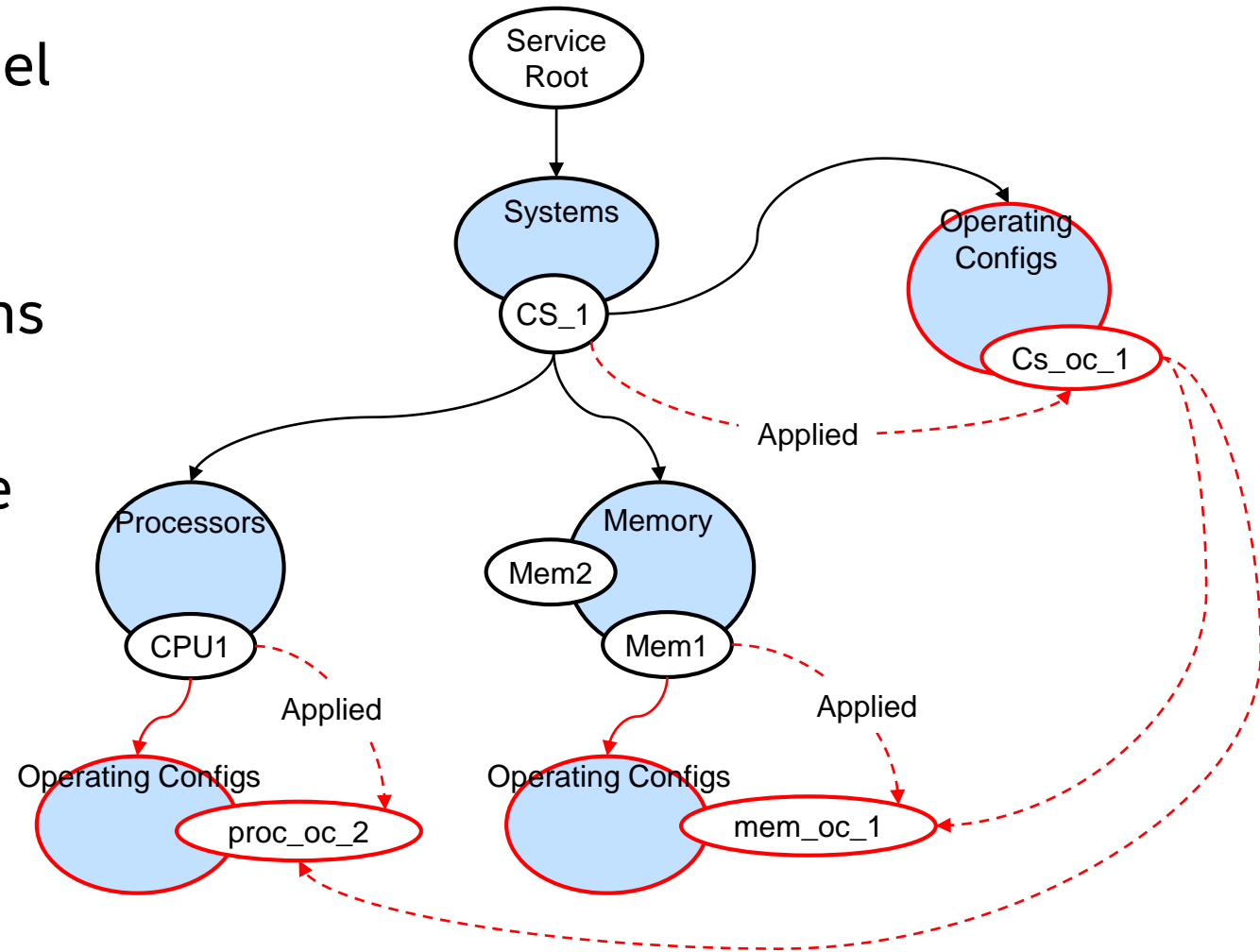
Generic Example

- A resource (processor, memory, CS) can be configured with one of many operating configurations
- The operating configurations are predefined by the vendor/OEM
- The user may select an operating configuration to apply (upon reboot or at runtime)

Specific Example (processor)

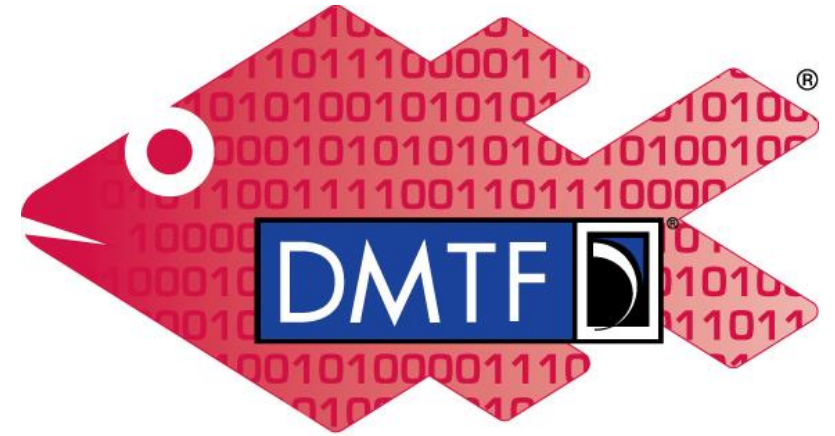
- The operating configurations for a processor may encapsulate trade-offs between
 - # of active cores
 - Base frequency of each core
 - Turbo frequency
 - Power consumption & TDP (thermal design point)

- Processor Operating Configs model released as Work-In-Progress
- Other resources may have selectable operating configurations (e.g. for memory, entire system)
- Is there interest in creating a more general model?

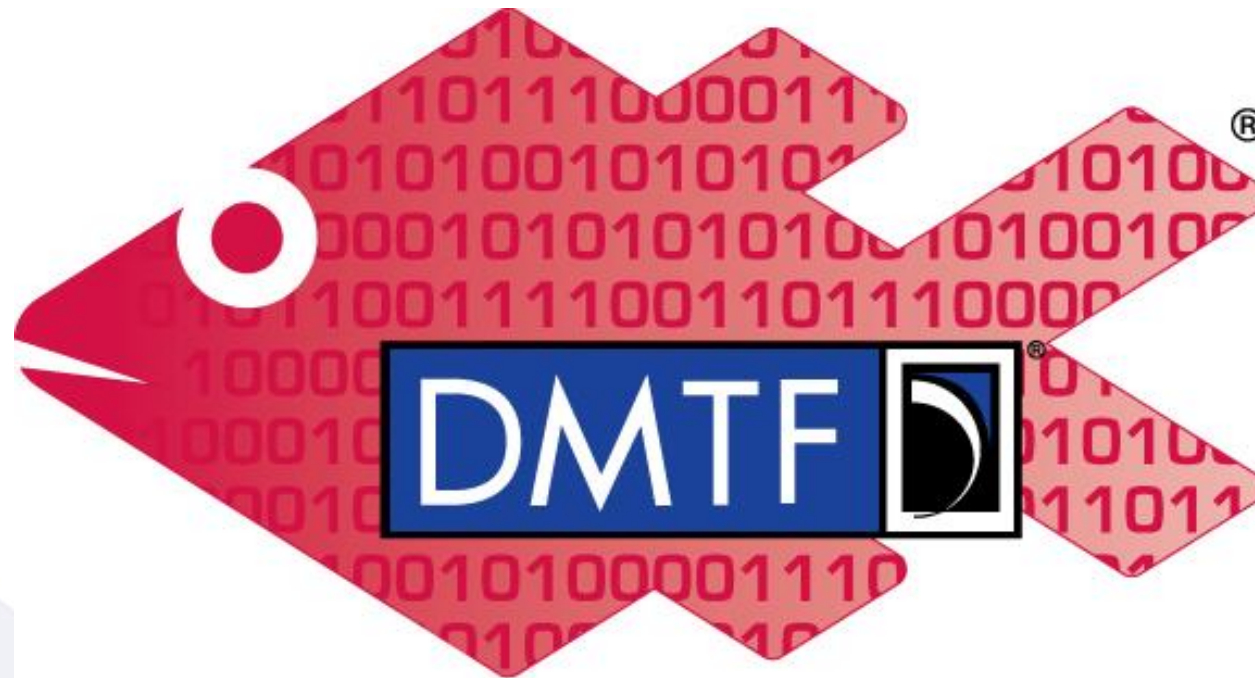




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Redfish



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