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| Use Case Description | * Create a zone to host a K8s cluster within a composable DC fabric
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| Actors | * Fabric Manager, Resource Manager, Composer, Administrator
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| Description | * Use Redfish Composition to allocate a zone object to define a virtual, private network within a larger fabric
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| Comments | * Ethernet network available for TCP, UDP, SCTP
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| Input Data | * Current Redfish Composition Resource Zones
* list of cluster members defined
* list of free non-associated members
* members that are able to be in multi-zone membership
* cluster members security restrictions
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| Preconditions | * Ethernet fabric interfaces state up
* Ethernet fabric enabled
* Interface MAC addresses
* DHCP IP range
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| Postconditions | * Resource zone complete with sane membership connections
* List of Zone membership
* Zone creation success
* MAC address list available for DHCP server
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| Trigger | * Fabric Manager request to create a zone with a certain quantity of members
* OFMF parse a Create Zone HTTP request
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| Normal Flow | * Parse the list of cluster members
* Query list of non-associated members
* Query list of multi-zone capable members
* DHCP range of valid addresses
* Query list of member’s security-level membership
* Using Redfish Composer, create a fabric zone object
* Fill in the resources to be contained in the zone
* Make symmetric connections?
* Read member interfaces
* Calculate a new route table
* Using Redfish Composer, update the Zone membership
* Report Composer Zone success
* Update list of associated members
* Update list of non-associated members
* Post the Redfish zone object to the OFMF’s resource tree
* Respond to client with success
* Respond to client with Zone Object members
* MAC address list available for DHCP server
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| Alternate Flow 1 |  |
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