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| Use Case Description | * RM creates logical memory region
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| Actors | * Memory Resource Manager (FAM Mgr), Composability Manager (CM), OFMF & providers
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| Description | * CM requests logical memory region from FAM Mgr
* FAM Mgr collects proper inventory, creates the logical memory region from physical resources, and returns the URI of the
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| Comments |  |
| Input Data | * Size of memory region
* Type of memory
* Attributes
	+ Access Types, addressing granularity
	+ Read and Write Permission capabilities
	+ Sharing / isolation requirements
	+ Self-encryption requirements
	+ QoS, HA, RAS requirements
* Affinity requirements?
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| Preconditions | * FAM Mgr is in-service, has sufficient free pool of physical FAM resources
* Fabric is up and OFMF is actively managing it
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| Postconditions | * OFMF Redfish tree contains the description of the logical memory region, any connections and zones, and any other objects required to implement the logical memory region
* Fabric Managers’ (providers) fabric models contain the appropriate subset of resources
* Actual fabric hardware state matches the OFMF Redfish description and desired fabric functionality is enabled
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| Trigger | * FAM Mgr is passed a request to create a logical memory region
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| Normal Flow (single chunk allocated from free list) | FAM Mgr Allocates the requested logical memory region* Parse logical memory requirements
* Requested memory region requires single memory chunk from a multi-chunk, multi-tenant endpoint already modeled as multiple memory chunks
	+ Multi-ported memory device treated as multi-ported endpoint?
* POST relevant objects to OFMF
	+ POST logical memory region to OFMF
		- Linked to appropriate memory chunk
		- Linked to appropriate FAM Mgr event collection / management agents
	+ POST new zone containing memory chunk endpoint(s) and management endpoints
	+ Create Connection policies required for error and monitoring flows
	+ Create Connections required for error and monitoring flows
	+ OFMF returns all objects created and any errors or other changes
* POST/PATCH resulting logical memory region to FAM Mgr Redfish data base, if appropriate
* Return success and URI of allocated logical memory region to caller (CM)
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| Alternate flow 1 (FAM Mgr composes a multi-chunk memory region) | FAM Mgr Allocates the requested logical memory region* Parse logical memory requirements
* Requested memory region requires multiple memory chunks from multiple endpoints.
* FAM Mgr determines sizes of required memory chunks and number of required different endpoints
* POST required memory chunk objects to OFMF
	+ Multiple POSTs to each memory object endpoint
* POST logical memory region to OFMF
	+ - Linked to appropriate memory chunks
		- Linked to appropriate FAM Mgr event collection / management agents
	+ POST new zone containing memory chunk endpoint(s) and management endpoints
	+ Create Connection policies required for error and monitoring flows
	+ Create Connections required for error and monitoring flows
	+ OFMF returns all objects created and any errors or other changes
* POST/PATCH resulting logical memory region to FAM Mgr Redfish data base, if appropriate
* Return success and URI of allocated logical memory region to caller (CM)
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