New-API-sheets 820-830

API Changes							
			Marked backward compatible in				
Method name	Old value (820)	New value (830)	820	Interface (820)	Interface (830)	Rationale for change	Impact
Added Optional Arguments							
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ESMF RegridWeightGen	N/A	checkFlag	No	24.3.1	24.3.1	Allow users to optionally turn on more expensive error checking.	No impact.
	N/A	routehandle	Yes	31.6.6	31.6.6	Allow user to access the RouteHandle object needed to redistribute the source grid coordinates to the destination grid. To be used in conjunction with the new method ESMF_GridRedist(), section 31.6.53.	No impact.
ESMF_GridCreate	N/A	routenandie	res	31.0.0	31.0.0	Option to reduce the memory	No impact.
						pressure on the sending side PETs by deallocating internal buffers as soon as the contents	
ESMF_VMEpochEnter	N/A	keepAlloc	No	49.6.14	49.6.14	has been transferred.	No impact.
Changed Arguments							
ESMF_MeshAddNodes	nodeOwners	optional nodeOwners	No	33.4.5	33.4.5	Remove the requirement that the user provide node owners. If the user doesn't specify which PETs own the nodes, then ESMF generates a consistent set of owners.	No impact.
ESMF_MeshCreate	nodeOwners	optional nodeOwners	No	33.4.7	33.4.7	Remove the requirement that the user provide node owners. If the user doesn't specify which PETs own the nodes, then ESMF generates a consistent set of owners.	No impact.
Added Methods							
ESMF_GridRedist	N/A	N/A	N/A	N/A	31.6.53	Provide an efficient method to redistribute the coordinates from one grid to another. Typically used in conjunction with ESMF_GridCreate(), section 31.6.6.	No impact.
Deprecated Classes	(to be removed in Version 9	9)					
ESMF Attribute	N/A	N/A	No	55	55	The underlying implementation for metadata storage has changed and is available through the native ESMF Info API.	Code that uses the legacy ESMF_Attribute API through derived type, methods, or named constants should migrate to use the ESMF Info class API.
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