New-API-sheets 870-880

API Changes							
Method name	Old value (870)	New value (880)	Marked backward compatible in 870	Interface (870)	Interface (880)	Rationale for change	Impact
Added Optional Arguments							
ESMF StateGet	N/A	vm	Yes	21.7.8	21.7.8	Supports access to the VM on which the object was created.	No impact
ESWF_StateGet	IN/A	VIII	res	21.7.0	21.7.0	object was created.	Because of addition of the
ESMF_StateReconcile	N/A	keywordEnforcer, checkflag	No	21.7.15	21.7.14	Supports consistency checking of the reconciled State. This check requires communication and should only be used for debugging purposes.	keywordEnforcer, code that was using optional arguments without keywords needs to be changed to specify keywords to compile.
						Supports access to the VM on which the	
ESMF_ArrayBundleGet	N/A	vm	Yes	27.5.8	27.5.8	object was created.	No impact
						Allows the user to get the transpose of the regrid routeHandle. This can be useful for	
ESMF_FieldRegridStore	N/A	transposeRoutehandle	Yes	26.6.70	26.6.71	data assimilation.	No impact
ESMF RouteHandleGet	N/A	vm	No	37.5.4	37.5.4	Supports access to the VM on which the object was created.	No impact
LOWI _NOUTE TATIONEGET	IN/A	VIII	NO	37.3.4	37.3.4	object was created.	No impact (as long the Fortran
NUOPC_AdvertiseFields	N/A	vm	No	3.9.4	3.9.4	Allows the user to advertise fields on a specific VM.	standard will always rearrange arguments based on type)
Added Methods							
ESMF FieldEmptyReset	N/A	N/A	No	N/A	26.6.47	Add the capability for the user to reset a Field to a less complete status.	No impact
<u> </u>						Supports writing information about Info	
ESMF_InfoLog	N/A	N/A	No	N/A	40.4.21	object into the ESMF log. Supports assignment operation between	No impact
ESMF_GeomAssignment(=)	N/A	N/A	No	N/A	35.2.1	Geom objects.	No impact
ESMF_GeomOperator (==)	N/A	N/A	No	N/A	35.2.2	Supports equality operation between Geom objects.	No impact
	N/A	N/A		NI/A	35.2.3	Supports not-equal operation between	
ESMF_GeomOperator(/=)	IN/A	IN/A	No	N/A	35.2.3	Geom objects.  Add the capability to detect different levels of	No impact
ESMF_GeomMatch	N/A	N/A	No	N/A	35.2.10	equality between Geom objects.	No impact
Removed Methods from Public							
ESMF_StateRead	ESMF_StateRead	N/A	No	21.7.14	N/A	Broken experimental interface. This is removed until better implementation is included.	If users uses this method, it will not compile. Please contact ESMF support if you have any questions.
ESMF_StateWrite	ESMF_StateWrite	N/A	No	21.7.21	N/A	Broken experimental interface. This is removed until better implementation is included.	If users uses this method, it will not compile. Please contact ESMF support if you have any questions.
5045 D						Non-public debugging interface was accidentally made public. This is removed	If users uses this method, it will not compile. Please contact ESMF support if you have any
ESMF_RouteHandlePrint	ESMF_RouteHandlePrint	N/A	No	37.5.6	N/A	for correction.	questions.
Deprecated Classes, Methods, Arguments	To be removed in 9.0.0						
Deprecated Classes							
deprecated since 8.1.0:							Code that were the leave
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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Deprecated Methods							
deprecated since 5.3.1:							
ESMF_StateRemove	N/A	N/A	yes	21.7.15	21.7.15	A different overload of the method exists that is more consisent with the overall API.	Code that uses the scalar version of ESMF_StateRemove() should change to the list version.
Deprecated Arguments							
deprecated since 8.6.0:							
ESMF_VMGet	accDeviceCount	accDeviceCount	yes	51.6.19	51.6.19	Arguments that reflect ESMF's accelerator support strategy better have become available in the general ESMF_VMGet() method (51.6.18).	Code that uses the "accDeviceCount" argument should be changed to using the alternative arguments from 51.6.18.
deprecated since 8.5.0:							
ESMF_ConfigLoadFile deprecated since 8.1.0:	delayout	delayout	yes	46.3.15	47.3.16	This argument was never used internally, and it is unclear what the original intention was.	Code that currently passes the "delayout" argument into ESMF_ConfigLoadFile should be changed to not pass this argument.
deprecated since o. r.o.							Code that uses the "zeroregion"
ESMF_FieldBundleSMM	zeroregion	zeroregion	yes	25.5.33	25.5.33	Replaced with zeroregionflag for consistency.	argument should be changed to using the "zeroregionflag" argument.
ESMF_FieldRegridStore	weights, indices	weights, indices	yes	26.6.60	26.6.67	Replaced with factorList and factorIndexList for consistency.	Code that uses the "weights" argument should be changed to using the "factorList" argument. Code that uses the "idices" argument should be changed to using the "factorIndexList" argument.
ESMF_ArrayBundleSMM	zeroregion	zeroregion	yes	27.5.23	27.5.23	Replaced with zeroregionflag for consistency.	Code that uses the "zeroregion" argument should be changed to using the "zeroregionflag" argument.
deprecated since 5.2.0rp1:							0 1 11 1 11 15 11 11
ESMF_ArrayGet	localDeList	localDeList	yes	28.5.18	28.5.18	Replaced with localDeToDeMap for consistency.	Code that uses the "localDeList" argument should be changed to using the "localDeToDeMap" argument.