

API Changes							
Method name	Old value (850)	New value (860)	Marked backward compatible in 850	Interface (850)	Interface (860)	Rationale for change	Impact
Added Optional Arguments							
ESMF_Initialize	N/A	defaultDefaultCalkind	Yes	16.4.1	16.4.1	Allows the specification of a default for defaultCalkind used by ESMF.	No impact.
ESMF_GridCompCreate	N/A	devList	Yes	17.4.4	17.4.4	Supports the management of accelerator devices.	No impact.
ESMF_CplCompCreate	N/A	devList	Yes	18.4.4	18.4.4	Supports the management of accelerator devices.	No impact.
ESMF_FieldGet	N/A	geom	Yes	26.6.52	26.6.54	Supports user query of Geom object.	No impact.
ESMF_FieldGet	N/A	geomDimCount	Yes	26.6.52	26.6.54	Supports access to dimension of underlying Geom object.	No impact.
ESMF_FieldGet	N/A	ungriddedDimCount	Yes	26.6.52	26.6.54	Supports access to the number of ungridded dimensions in the Field object.	No impact.
ESMF_FieldGet	N/A	replicatedDimCount	Yes	26.6.52	26.6.54	Supports access to the number of dimensions across which the Field object is replicated.	No impact.
ESMF_FieldRegridStore	N/A	vectorRegrid	Yes	26.6.67	26.6.69	Allows the user to enable the vector regridding feature, treating the undistributed dimension in the source and destination Fields as the components of a vector.	No impact.
ESMF_ArrayCreate	N/A	trailingUndistSlice	Yes	28.5.15	28.5.15	Supports creation of an Array from a slice of an existing Array object.	No impact.
ESMF_ArrayCreate	N/A	name	Yes	28.5.15	28.5.15	Allows specification of the Array name during creation.	No impact.
ESMF_ArrayGet	N/A	undistDimCount	Yes	28.5.18	28.5.18	Supports access to the number of undistributed dimensions in the Array object.	No impact.
ESMF_ArrayGet	N/A	replicatedDimCount	Yes	28.5.18	28.5.18	Supports access to the number of dimensions across which the Array object is replicated.	No impact.
ESMF_ConfigCreate	N/A	hconfig	Yes	47.3.4	47.3.4	Supports creation of Config from HConfig object.	No impact.
ESMF_VMGet	N/A	ssiLocalPet	Yes	51.6.18	51.6.18	Supports user query of the id of the calling PET on the local SSI.	No impact.
ESMF_VMGet	N/A	ssiLocalDevCount	Yes	51.6.18	51.6.18	Provides the number of accelerator devices associated with the VM on the local SSI.	No impact.
ESMF_VMGet	N/A	ssiLocalDevList	Yes	51.6.18	51.6.18	Provides a list of accelerator devices associated with the VM on the local SSI.	No impact.
Added Methods							
ESMF_FieldCreate	N/A	N/A	N/A	N/A	26.6.7	Allows Field creation from Geom and Array.	No impact.
ESMF_FieldCreate	N/A	N/A	N/A	N/A	26.6.30	Allows Field creation from an existing Field object.	No impact.
Deprecated Classes, Methods, Arguments							
To be removed in 9.0.0							
Deprecated Classes							
<i>deprecated since 8.1.0:</i>							
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.
Deprecated Methods							

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<i>deprecated since 5.3.1:</i>							
ESMF_StateRemove	N/A	N/A	yes	21.7.15	21.7.15	A different overload of the method exists that is more consistent with the overall API.	Code that uses the scalar version of ESMF_StateRemove() should change to the list version.
Deprecated Arguments							
<i>deprecated since 8.6.0:</i>							
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.
<i>deprecated since 8.5.0:</i>							
ESMF_ConfigLoadFile	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.
<i>deprecated since 8.1.0:</i>							
ESMF_FieldBundleSMM	zeroregion	zeroregion	yes	25.5.33	25.5.33	Replaced with zeroregionflag for consistency.	Code that uses the "zeroregion" 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 "indices" 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.
<i>deprecated since 5.2.0rp1:</i>							
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.