API Changes

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
Added Optional Arguments							
ESMF_GridCompSetVMMaxPEs	N/A	minStackSize	No	17.4.25	17.4.25	Allow user to specify the minimum size of stack size for the created Pthread executing as PET.	No impact.
ESMF_GridCompSetVMMaxPEs	N/A	openMpHandling	No	17.4.25	17.4.25	Provide control over ESMF-aware OpenMP threading.	No impact.
ESMF_GridCompSetVMMaxPEs	N/A	openMpNumThreads	No	17.4.25	17.4.25	Allow user to set the number of OpenMP threads in the team running under each PET.	No impact.
ESMF_GridCompSetVMMaxThreads	N/A	minStackSize	No	17.4.26	17.4.26	Allow user to specify the minimum size of stack size for the created Pthread executing as PET.	No impact.
ESMF_GridCompSetVMMinThreads	N/A	minStackSize	No	17.4.27	17.4.27	Allow user to specify the minimum size of stack size for the created Pthread executing as PET.	No impact.
ESMF_CplCompSetVMMaxPEs	N/A	minStackSize	No	18.4.25	18.4.25	Allow user to specify the minimum size of stack size for the created Pthread executing as PET.	No impact.
ESMF_CplCompSetVMMaxThreads	N/A	minStackSize	No	18.4.26	18.4.26	Allow user to specify the minimum size of stack size for the created Pthread executing as PET.	No impact.
ESMF_CplCompSetVMMinThreads	N/A	minStackSize	No	18.4.27	18.4.27	Allow user to specify the minimum size of stack size for the created Pthread executing as PET.	No impact.
ESMF_StateCreate	N/A	vm	Yes	21.7.6	21.7.6	Support object creation on a different VM than that of the current context.	No impact.
ESMF_StateDestroy	N/A	noGarbage	Yes	21.7.7	21.7.7	Allow an object to be completely destroyed without leaving a remnant in the garbage collection.	No impact.
ESMF_RegridWeightGen	N/A	rhFile	No	24.3.1	24.3.1	Allow for writing an ESMF_RouteHandle to file.	No impact.
ESMF_FieldBundleRedistStore	N/A	ignoreUnmatchedIndicesFlag	Yes	25.5.22	25.5.22	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_FieldBundleRedistStore	N/A	ignoreUnmatchedIndicesFlag	Yes	25.5.23	25.5.23	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_FieldBundleSMM	N/A	zeroregionflag	Yes	25.5.33	25.5.33	Replacing the deprecated 'zeroregion' argument, providing greater flexibility in setting the zero region for individual bundle members.	No Impact
ESMF_FieldBundleSMMStore	N/A	ignoreUnmatchedIndicesFlag	Yes	25.5.35	25.5.35	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_FieldBundleSMMStore	N/A	ignoreUnmatchedIndicesFlag	Yes	25.5.36	25.5.36	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_FieldBundleSMMStore	N/A	ignoreUnmatchedIndicesFlag	No	25.5.37	25.5.37	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_FieldCreate	N/A	pinflag	Yes	26.6.5	26.6.5	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldCreate	N/A	pinflag	Yes	26.6.6	26.6.6	Support DE sharing between PETs on the same single system image (SSI).	No impact.

API Changes

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_FieldCreate	N/A	pinflag	No	26.6.10	26.6.10	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldCreate	N/A	pinflag	No	26.6.11	26.6.11	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldCreate	N/A	pinflag	No	26.6.15	26.6.15	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldCreate	N/A	indexflag	No	26.6.15	26.6.15	To be consistent with the other FieldCreate APIs that take indexflag as an argument.	No impact
ESMF_FieldCreate	N/A	pinflag	No	26.6.16	26.6.16	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldCreate	N/A	indexflag	No	26.6.16	26.6.16	To be consistent with the other FieldCreate APIs that take indexflag as an argument.	No impact.
ESMF_FieldCreate	N/A	pinflag	No	26.6.20	26.6.20	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldCreate	N/A	pinflag	No	26.6.21	26.6.21	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldEmptySet	N/A	indexflag	No	26.6.40	26.6.40	To be consistent with the other FieldCreate APIs that take indexflag as an argument.	No impact.
ESMF_FieldGet	N/A	localarrayList	Yes	26.6.45	26.6.45	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldGet	N/A	ssiLocalDeCount	Yes	26.6.45	26.6.45	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldGet	N/A	localDEToDeMap	Yes	26.6.45	26.6.45	Support DE sharing between PETs on the same single system image (SSI).	No impact.
ESMF_FieldGet	N/A	minIndex	Yes	26.6.45	26.6.45	Allow users to query global and PET local bound information such as their usage with HDF5 IO and in other situation where the bounds information will be useful.	No impact.
ESMF_FieldGet	N/A	maxIndex	Yes	26.6.45	26.6.45	Allow users to query global and PET local bound information such as their usage with HDF5 IO and in other situation where the bounds information will be useful.	No impact.
ESMF_FieldGet	N/A	elementCount	Yes	26.6.45	26.6.45	Allow users to query global and PET local bound information such as their usage with HDF5 IO and in other situation where the bounds information will be useful.	No impact.
ESMF_FieldGet	N/A	localMinIndex	Yes	26.6.45	26.6.45	Allow users to query global and PET local bound information such as their usage with HDF5 IO and in other situation where the bounds information will be useful.	No impact.
ESMF_FieldGet	N/A	localMaxIndex	Yes	26.6.45	26.6.45	Allow users to query global and PET local bound information such as their usage with HDF5 IO and in other situation where the bounds information will be useful.	No impact.

API Changes

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_FieldGet	N/A	localElementCount	Yes	26.6.45	26.6.45	Allow users to query global and PET local bound information such as their usage with HDF5 IO and in other situation where the bounds information will be useful.	No impact.
ESMF_FieldRegridStore	N/A	checkflag	Yes	26.6.60	26.6.60	Allow users to optionally turn on more expensive error checking.	No Impact
ESMF_ArrayBundleRedistStore	N/A	ignoreUnmatchedIndicesFlag	Yes	27.5.19	27.5.19	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_ArrayBundleRedistStore	N/A	ignoreUnmatchedIndicesFlag	Yes	27.5.20	27.5.20	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_ArrayBundleSMM	N/A	zeroregionflag	Yes	27.5.23	27.5.23	Replacing the deprecated 'zeroregion' argument, providing greater flexibility in setting the zero region for individual bundle members.	No Impact
ESMF_ArrayBundleSMMStore	N/A	ignoreUnmatchedIndicesFlag	Yes	27.5.25	27.5.25	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_ArrayBundleSMMStore	N/A	ignoreUnmatchedIndicesFlag	Yes	27.5.26	27.5.26	Support cases where source and destination side do not cover the exact same index space.	No Impact
ESMF_ArrayCreate	N/A	datacopyflag	Yes	28.5.15	28.5.15	Allow to select between different copy options.	No Impact
ESMF_ArrayCreate	N/A	delayout	Yes	28.5.15	28.5.15	Provide a way to easily change the underlying DE -> PET mapping when creating a new Array from an existing Array.	No Impact
ESMF_LocStreamDestroy	N/A	noGarbage	Yes	32.4.15	32.4.15	Allow an object to be completely destroyed without leaving a remnant in the garbage collection.	No impact.
ESMF_MeshCreate	N/A	name	No	33.4.6	33.4.6	Allow a name to specified for a Mesh.	No impact.
ESMF_MeshCreate	N/A	name	No	33.4.7	33.4.7	Allow a name to specified for a Mesh.	No impact.
ESMF_MeshCreate	N/A	name	No	33.4.8	33.4.8	Allow a name to specified for a Mesh.	No impact.
ESMF_MeshCreate	N/A	name	No	33.4.9	33.4.9	Allow a name to specified for a Mesh.	No impact.
ESMF_MeshCreate	N/A	name	No	33.4.10	33.4.10	Allow a name to specified for a Mesh.	No impact.
ESMF_MeshCreate	N/A	name	No	33.4.13	33.4.13	Allow a name to specified for a Mesh.	No impact.
ESMF_MeshDestroy	N/A	noGarbage	Yes	33.4.14	33.4.14	Allow an object to be completely destroyed without leaving a remnant in the garbage collection.	No impact.
ESMF_MeshEmptyCreate	N/A	name	No	33.4.15	33.4.15	Allow a name to specified for a Mesh.	No impact.
ESMF_XGridDestroy	N/A	noGarbage	Yes	34.6.7	34.6.7	Allow an object to be completely destroyed without leaving a remnant in the garbage collection.	No impact.
ESMF_DistGridCreate	N/A	indexTK	Yes	35.6.6	35.6.6	Support explicit selection between 32-bit and 64-bit sequence indices.	No impact.
ESMF_DistGridCreate	N/A	indexTK	Yes	35.6.7	35.6.7	Support explicit selection between 32-bit and 64-bit sequence indices.	No impact.
ESMF_DistGridGet	N/A	elementCountPTileI8	Yes	35.6.15	35.6.15	Provide access to 64-bit information.	No impact.
ESMF_DistGridGet	N/A	elementCountPDeI8	Yes	35.6.15	35.6.15	Provide access to 64-bit information.	No impact.

API Changes

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_DistGridGet	N/A	indexflag	Yes	35.6.15	35.6.15	Allow the user to query the indexing scheme used by the object.	No impact.
ESMF_DistGridGet	N/A	indexTK	Yes	35.6.15	35.6.15	Support explicit selection between 32-bit and 64-bit sequence indices.	No impact.
ESMF_DistGridGet	N/A	seqIndexListI8	Yes	35.6.16	35.6.16	Provide access to 64-bit information.	No impact.
ESMF_DistGridGet	N/A	elementCountI8	Yes	35.6.16	35.6.16	Provide access to 64-bit information.	No impact.
ESMF_VMGet	N/A	currentSsiPe	Yes	49.5.16	49.6.18	Provide convenient access to the SSI-local PE number on which the current PET is executing.	No impact.
ESMF_VMGet	N/A	ssiMap	Yes	49.5.16	49.6.18	Provide PET->SSI mapping information.	No impact.
							No impact.
ESMF_AttributeAdd	N/A	attrList	No	39.11.1	55.0.5	Streamline Attribute interface to work efficiently with Info back end.	No impact.
ESMF_AttributeAdd	N/A	nestConvention	No	39.11.2	55.0.6	Streamline Attribute interface to work efficiently with Info back end.	No impact.
ESMF_AttributeAdd	N/A	nestPurpose	No	39.11.3	55.0.7	Streamline Attribute interface to work efficiently with Info back end.	No impact.
ESMF_AttributeRemove	N/A	attnestflag	No	39.11.35	55.0.17	Streamline Attribute interface to work efficiently with Info back end.	No impact.
ESMF_AttributeRemove	N/A	attnestflag	No	39.11.36	55.0.18	Streamline Attribute interface to work efficiently with Info back end.	No impact.
ESMF_AttributeSet	N/A	itemcount	No	39.11.37	55.0.19	Streamline Attribute interface to work efficiently with Info back end, this argument is a noop.	No impact.
ESMF_AttributeSet	N/A	attnestflag	No	39.11.37	55.0.19	Streamline Attribute interface to work efficiently with Info back end, this argument is a noop.	No impact.
ESMF_AttributeSet	N/A	attnestflag	No	39.11.39	55.0.20	Streamline Attribute interface to work efficiently with Info back end, this argument is a noop.	No impact.
ESMF_AttributeSet	N/A	itemcount	No	39.11.40	55.0.21	Streamline Attribute interface to work efficiently with Info back end, this argument is a noop.	No impact.
ESMF_AttributeSet	N/A	attnestflag	No	39.11.40	55.0.21	Streamline Attribute interface to work efficiently with Info back end, this argument is a noop.	No impact.
ESMF_AttributeSet	N/A	itemcount	No	39.11.42	55.0.22	Streamline Attribute interface to work efficiently with Info back end, this argument is a noop.	No impact.
ESMF_AttributeSet	N/A	attnestflag	No	39.11.42	55.0.22	Streamline Attribute interface to work efficiently with Info back end, this argument is a noop.	No impact.
Changed Arguments							
weightFile	not optional	optional	No	24.3.1 ESMF_RegridWeightGen	24.3.1	Allow the option of running the method without writing weights to a file.	No Impact.
termorderflag	no target	target	Yes	27.5.23 ESMF_ArrayBundleSMM	27.5.23	The internal implementation requires a dummy argument with 'target' attribute.	No Impact.
vm	not optional	optional	Yes	49.5.10 ESMF_VMBarrier	49.6.10	Support easier use when calling on the current VM.	No Impact.
Removed Arguments							

API Changes

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_StateReconcile	attreconflag	N/A	No	21.7.14	21.7.14	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.
ESMF_AttributeGet	attPackInstanceName	N/A	No	39.11.11	55.0.9	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.
ESMF_AttributeGet	attPackInstanceName	N/A	No	39.11.13	55.0.10	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.
ESMF_AttributeGetAttPack	attPackInstanceName	N/A	No	39.11.23	55.0.16	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.
ESMF_AttributeRemove	attPackInstanceName	N/A	No	39.11.36	55.0.18	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.
ESMF_AttributeSet	attPackInstanceName	N/A	No	39.11.40	55.0.21	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.
ESMF_AttributeSet	attPackInstanceName	N/A	No	39.11.42	55.0.22	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.
ESMF_AttributeUpdate	reconcile	N/A	No	39.11.43	55.0.23	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	If this flag was specified it should be removed.

Deprecated Arguments

Method name	Old value (800)	New value (810)		Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_FieldBundleSMM	zeroregion			25.5.33	25.5.33	The new argument 'zeroregionflag', providing greater flexibility was introduced	No immediate impact. However, user code that uses the 'zeroregion' argument should be migrated to using the 'zeroregionflag' argument instead.
ESMF_ArrayBundleSMM	zeroregion			27.5.23	27.5.23	The new argument 'zeroregionflag', providing greater flexibility was introduced	No immediate impact. However, user code that uses the 'zeroregion' argument should be migrated to using the 'zeroregionflag' argument instead.

Argument Intent Changes

Method name	Old value (800)	New value (810)		Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_AttributeAdd	intent(inout) attpack	intent(out) attpack	No	39.11.1	55.0.5	Accidental change of the intent(). This change will be reverted in the next release.	No impact.
ESMF_AttributeAdd	intent(out) rc	intent(inout) rc	No	39.11.1	55.0.5	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.

API Changes							
Method name	**Old value (800)**	**New value (810)**	**Marked backward compatible in 800**	**Interface (800)**	**Interface (810)**	**Rationale for change**	**Impact**
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.7	55.0.7	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.9	55.0.8	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.11	55.0.9	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.13	55.0.10	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.15	55.0.11	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeGet	intent(out) count	intent(inout) count	No	39.11.16	55.0.12	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.

API Changes							
Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.16	55.0.13	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.18	55.0.14	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeGet	intent(out) rc	intent(inout) rc	No	39.11.20	55.0.15	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeRemove	intent(out) rc	intent(inout) rc	No	39.11.35	55.0.17	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeRemove	intent(out) rc	intent(inout) rc	No	39.11.36	55.0.18	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeSet	intent(out) rc	intent(inout) rc	No	39.11.37	55.0.19	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeSet	intent(in) attpack	intent(inout) attpack	No	39.11.39	55.0.20	Accidental change of the intent(). This change will be reverted in the next release.	No impact.

API Changes

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_AttributeSet	intent(out) rc	intent(inout) rc	No	39.11.39	55.0.20	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeSet	intent(out) rc	intent(inout) rc	No	39.11.40	55.0.21	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.
ESMF_AttributeSet	intent(out) rc	intent(inout) rc	No	39.11.42	55.0.22	Accidental change of the intent(). This change will be reverted in the next release.	If the actual argument provided by the caller is a dummy argument with intent(out), the compiler might flag an intent() incompatibility. One way to fix this situation is to introduce a local variable to pass in as the actual argument, and after the call copy it back into the intent(out) dummy variable.

Added Methods

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_InitializePreMPI	N/A	N/A	N/A	N/A	16.4.2	Only needed for cases where MPI is initialized explicitly by user code, and the code is using ESMF-aware resource managment (e.g. for OpenMP threading).	No Impact.
ESMF_StateSet	N/A	N/A	N/A	N/A	21.7.18	All characteristics (e.g. stateIntent) to be modified in an existing State object.	No Impact.
ESMF_MethodAddReplace	N/A	N/A	N/A	N/A	22.4.7	Replacing potential previous attached method under the same label and index.	No Impact.
ESMF_MethodAddReplace	N/A	N/A	N/A	N/A	22.4.8	Replacing potential previous attached method under the same label and index.	No Impact.
ESMF_MethodAddReplace	N/A	N/A	N/A	N/A	22.4.9	Replacing potential previous attached method under the same label and index.	No Impact.
ESMF_MethodAddReplace	N/A	N/A	N/A	N/A	22.4.10	Replacing potential previous attached method under the same label and index.	No Impact.
ESMF_MethodAddReplace	N/A	N/A	N/A	N/A	22.4.11	Replacing potential previous attached method under the same label and index.	No Impact.
ESMF_MethodAddReplace	N/A	N/A	N/A	N/A	22.4.12	Replacing potential previous attached method under the same label and index.	No Impact.

API Changes

Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_MethodGet	N/A	N/A	N/A	N/A	22.4.16	Provide access information about attached method.	No Impact.
ESMF_MethodGet	N/A	N/A	N/A	N/A	22.4.17	Provide access information about attached method.	No Impact.
ESMF_MethodGet	N/A	N/A	N/A	N/A	22.4.18	Provide access information about attached method.	No Impact.
ESMF_FieldSync	N/A	N/A	N/A	N/A	26.6.65	Synchronization method across PETs required for safe access to shared DEs.	No impact.
ESMF_MeshSet	N/A	N/A	N/A	N/A	33.4.19	Provide the capability to change some information in an existing Mesh.	No Impact.
ESMF_MeshGetMOAB	N/A	N/A	N/A	N/A	33.4.20	Enable the user to check if MOAB is being used for internal mesh representation.	No Impact.
ESMF_DistGridSet	N/A	N/A	N/A	N/A	35.6.21	Provide a way to set DE specific values, such as sequence indices.	No Impact.
ESMF_TimeSet	N/A	N/A	N/A	N/A	42.4.16	Support ISO format string to set Time object.	No Impact.
ESMF_VMEpochEnter	N/A	N/A	N/A	N/A	49.6.14	This call is part of the VM epoch user interface, offering advanced communication optimizations.	No Impact.
ESMF_VMEpochExit	N/A	N/A	N/A	N/A	49.6.15	This call is part of the VM epoch user interface, offering advanced communication optimizations.	No Impact.
ESMF_AttributeAdd	N/A	N/A	N/A	N/A	55.0.4	The new Info back end to Attribute requires this interface for full compatibility.	No Impact.

Removed Methods

ESMF_AttributeAdd	N/A	N/A	No	39.11.2	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeAdd() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeAdd	N/A	N/A	No	39.11.3	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeAdd() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeAdd	N/A	N/A	No	39.11.4	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeAdd() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeAdd	N/A	N/A	No	39.11.5	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeAdd() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeGet	N/A	N/A	No	39.11.8	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeGet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeGet	N/A	N/A	No	39.11.10	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeGet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeGet	N/A	N/A	No	39.11.12	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeGet() must be changed to use the corresponding ESMF_Info method.

API Changes							
Method name	Old value (800)	New value (810)	Marked backward compatible in 800	Interface (800)	Interface (810)	Rationale for change	Impact
ESMF_AttributeGet	N/A	N/A	No	39.11.14	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeGet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeGet	N/A	N/A	No	39.11.19	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeGet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeGet	N/A	N/A	No	39.11.21	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeGet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeGet	N/A	N/A	No	39.11.22	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeGet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeLink	N/A	N/A	No	39.11.24	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLink	N/A	N/A	No	39.11.25	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLink	N/A	N/A	No	39.11.26	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLink	N/A	N/A	No	39.11.27	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLink	N/A	N/A	No	39.11.28	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLinkRemove	N/A	N/A	No	39.11.29	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLinkRemove	N/A	N/A	No	39.11.30	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLinkRemove	N/A	N/A	No	39.11.31	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLinkRemove	N/A	N/A	No	39.11.32	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeLinkRemove	N/A	N/A	No	39.11.33	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute linking is no longer supported with the new Info interface. Code that uses this feature will need to be modified.
ESMF_AttributeRead	N/A	N/A	No	39.11.34	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute Read/Write is no longer supported. Code that uses the feature will need to be modified to use the new Info Read/Write JSON features.

API Changes							
Method name	**Old value (800)**	**New value (810)**	**Marked backward compatible in 800**	**Interface (800)**	**Interface (810)**	**Rationale for change**	**Impact**
ESMF_AttributeSet	N/A	N/A	No	39.11.38	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeSet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeSet	N/A	N/A	No	39.11.41	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Code that uses this entry point of ESMF_AttributeSet() must be changed to use the corresponding ESMF_Info method.
ESMF_AttributeWrite	N/A	N/A	No	39.11.44	N/A	The ESMF_Attribute class was replaced with ESMF_Info, and this is no longer needed.	Attribute Read/Write is no longer supported. Code that uses the feature will need to be modified to use the new Info Read/Write JSON features.