Consistency position of name   Consistency with other Field, Array, and Grid bounds   Reyvords are not used: for optional arguments, and keyword. For rangements and keyword for rough arguments, an	API Changes						
Clearly define behavior of ausginment and companion (Production of National Control	Old value (510)	New value (520)	Interfaces affected (510)	Interface (520)	Method name	Rationale for change	Impact
Classes (classes for the ac Create refered)  Classes (classes for the act Create refered)  All interfaces  Considerate quality with other Park Annual and Graph and anyments.  All interfaces are all anyments, interfaced	System-wide changes						
Classes (classes for the ac Create refered)  Classes (classes for the act Create refered)  All interfaces  Considerate quality with other Park Annual and Graph and anyments.  All interfaces are all anyments, interfaced	Document the behavior of assignment for deep	)	All dans slaves a success				
Gest desse, where assignment And policies equivalenced in Clarify Edition behavior of assignment and consistent. This will allow the addition and rearrangement of consistent. This will allow the addition and rearrangement of consistent. This will allow the addition and rearrangement of consistent. This will allow the addition and rearrangement of consistent of the left speaking.  Move "name" to lest optional properties of all interfaces of the left speaking.  Move "name" to lest optional properties to left seeking and the properties of the left speaking.  Move "name" to lest optional properties. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest if it is made with required arguments. No impact for codes the new rearest in the service of the codes that the service of the codes the new rearest in the service of the codes that the service of the new rearest in the service of the new rearest in the new rearest and replace.  If we work are not used. Yet optional arguments, add keyword. For rear argument, and the new rearrangement in the new rearest and replace.  If we work are not used. Yet optional arguments, add keyword. For rearrangements are a	classes (classes that have a Create method) and VM					Clearly define behavior of assignment and comparison	No impact
Require agument los indirectors and equipment aguments of indirectors and equipments and expert of the additional and rearrangement of indirectors are in interface calls while leadings.  All ESMF_XXXCerable, ESMF_XXXXcerable, ESMF_XXXXcerable, ESMF_XXXXcerable, ESMF_XXXXcerable, ESMF_XXXXcerable, ESMF_XXXXcerable, ESMF_XXXxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	deep classes, where assignment A=B					Clearly define behavior of assignment and comparison	N/A since it is a new interface
A ELEMIL CONCRETANT  A ELEMIL CONCRETANT  ESMF_XOXCettols, ESMF_ENDERGE EXPF_ENDERGE EXPF_END	Require argument keywords on all optional						Large impact if keywords are not currently used. No impact for codes that
All ESMF_XXXCerians, ESMF_XXXXcerians, ESMF_XXXXcerians, ESMF_XXXXcerians, ESMF_XXXXcerians, ESMF_XXXXcerians, ESMF_XXXXcerians, ESMF_XXXXcerians, Essented impacts for codes in serviced for optional arguments, leasened impacts for codes in serviced for optional arguments, essented impacts for codes in serviced for optional arguments, leasened impacts for codes in serviced for optional arguments, leasened impacts for codes in serviced for optional arguments, and serviced for optional argu			All interfaces			of optional arguments to all interface calls while keeping rc	
mark/alaXWidth (X=L,U)    Dotal   Dota	Move 'name' to last optional before 'rc'		ESMF_XXXGetInfo,				Need to move name if it is mixed with required arguments. No impact for codes that use keywords for all arguments, lessened impact for codes that use keyword for optional arguments.
mark/alaXWidth (X=L,U)    Dotal   Dota	Argument name changes						
consistency with other Field, Array, and Grid bounds arguments, no impact. If keywords are used: search and replace. If keywords are rout set, for optional arguments, add keyword. For rea arguments, on impact. If keywords are used: search and replace. If keywords are not used: for optional arguments, add keyword. For rea arguments, and replace if keywords are not used: for optional arguments, add keyword. For rea arguments, and replace if keywords are not used: for optional arguments, add keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, and replace if keywords are not used: for optional arguments, and keyword. For rea arguments, nor impact. If keywo	raigument name changes						
20.6.5   20.6.8   ESMF_FieldCreate   Consistency with other Field, Array, and Grid bounds   Reywords are not used. For polanal arguments, and expendent of the year of the proposal arguments, and expendent of the year of th	maxHaloXWidth (X=L,U)	totalXWidth (X=L,U)	20.6.3	20.6.6	ESMF_FieldCreate	Consistency with other Field, Array, and Grid bounds	
20.6.6   ESMF_FieldCreate   Consistency with other Field, Array, and Grid bounds   Meywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are used: search and replace. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are used: search and replace. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, add keyworf. For req arguments, no impact. If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used. For optional arguments, and keyword. For req arguments, no impact. If keywords are not used. For optional arguments, and keyword. For req arguments, no impact. If keywords are not us			20.6.4	20.6.7	ESMF_FieldCreate	Consistency with other Field, Array, and Grid bounds	arguments, no impact. If keywords are used: search and replace.
20.6.7 20.6.10 ESMF_FieldCreate Consistency with other Field, Array, and Grid bounds arguments, no inpact. If keywords are used: search and replace. If keywords are not used: for optional arguments, not inpact. If keywords are used: search and replace. If keywords are not used: for optional arguments, not inpact. If keywords are used: search and replace. If keywords are not used: for optional arguments, not inpact. If keywords are used: search and replace. If keywords are not used: for optional arguments, not inpact. If keywords are used: search and replace. If keywords			20.6.5	20.6.8	ESMF_FieldCreate	Consistency with other Field, Array, and Grid bounds	arguments, no impact. If keywords are used: search and replace.
20.6.26 ESMF_FieldGet Consistency with other Field, Array, and Grid bounds arguments, no impact. If keywords are used: search and replace. If keywords are u			20.6.6	20.6.9	ESMF_FieldCreate	Consistency with other Field, Array, and Grid bounds	
20.6.26 20.6.29 ESMF_rieldGet Consistency with other Field, Array, and Grid bounds I Reywords are not used: for optional are used: search and replace. If Reywords are used: search and replace. If Reywords are used: search and replace. If Reywords are used: for optional replace. If Reywords are used: search and replace. If Reywords are used: search and replace. If Reywords are used: for optional replace. If Reywords are used: search and replace. If Reywords are used: for optional replace. If Reywords a			20.6.7	20.6.10	ESMF_FieldCreate	Consistency with other Field, Array, and Grid bounds	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
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20.6.33 20.6.36 ESMF_FieldSetCommit Consistency with other Field, Array, and Grid bounds If keywords are used: search and replace.  bundle fieldbundle 19.6.1 19.6.4 ESMF_fieldBundleAdd Consistency with other FieldBundle usage If keywords are used: search and replace.  19.6.2 19.6.5 ESMF_fieldBundleAdd Consistency with other FieldBundle usage If keywords are used: search and replace.  19.6.8 19.6.11 ESMF_fieldBundleDestroy Consistency with other FieldBundle usage If keywords are used: search and replace.  19.6.9 19.6.12 ESMF_fieldBundleGet Consistency with other FieldBundle usage If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  19.6.9 19.6.12 ESMF_fieldBundleGet Consistency with other FieldBundle usage If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  19.6.10 19.6.13 ESMF_fieldBundleGet Consistency with other FieldBundle usage If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  19.6.10 19.6.13 ESMF_fieldBundleGet Consistency with other FieldBundle usage If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  19.6.11 19.6.14 ESMF_fieldBundleGet Consistency with other FieldBundle usage If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  19.6.12 Removed ESMF_fieldBundleGet Consistency with other FieldBundle usage If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  19.6.12 Removed ESMF_fieldBundleGet Consistency with other FieldBundle usage If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  19.6.14 19.6.16 ESMF_fieldBundleGet Consistency			20.6.26	20.6.29	ESMF_FieldGet	Consistency with other Field, Array, and Grid bounds	arguments, no impact. If keywords are used: search and replace.
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19.6.2 I SSMF_FieldBundleDestroy   SSMF_Fiel	bundle	fieldbundle	19.6.1	19.6.4	ESMF_FieldBundleAdd	Consistency with other FieldBundle usage	arguments, no impact. If keywords are used: search and replace.
19.6.1			19.6.2	19.6.5	ESMF_FieldBundleAdd	Consistency with other FieldBundle usage	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
arguments, no impact. If keywords are used: search and replace.  19.6.10  19.6.13  ESMF_FieldBundleGet  Consistency with other FieldBundle usage  19.6.11  19.6.14  ESMF_FieldBundleGet  Consistency with other FieldBundle usage  19.6.12  Removed  ESMF_FieldBundleGet  Consistency with other FieldBundle usage  19.6.12  Removed  ESMF_FieldBundleGet  Consistency with other FieldBundle usage  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, and keyword. For req arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no			19.6.8	19.6.11	ESMF_FieldBundleDestroy	Consistency with other FieldBundle usage	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
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19.6.12 Removed ESMF_FieldBundleGet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.12 Removed ESMF_FieldBundleGet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: for optional arguments, no impact. I			19.6.10	19.6.13	ESMF_FieldBundleGet	Consistency with other FieldBundle usage	
arguments, no impact. If keywords are used: search and replace.  19.6.13 19.6.15 ESMF_FieldBundlePrint Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.14 19.6.16 ESMF_FieldBundleRead Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.15 Removed ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.16 ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.16 ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are used: search and replace.  19.6.16 ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.16 ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.16 ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.16 ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.  19.6.16 ESMF_FieldBundleSet Consistency with other FieldBundle usage arguments, no impact. If keywords are used: search and replace.			19.6.11	19.6.14	ESMF_FieldBundleGet	Consistency with other FieldBundle usage	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
arguments, no impact. If keywords are used: search and replace.  19.6.14  19.6.16  ESMF_FieldBundleRead  Consistency with other FieldBundle usage  19.6.15  Removed  ESMF_FieldBundleSet  Consistency with other FieldBundle usage  ESMF_FieldBundleSet  Consistency with other FieldBundle usage  If keywords are not used: for optional arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywords are not used: for optional arguments, no impact. If keywo			19.6.12	Removed	ESMF_FieldBundleGet	Consistency with other FieldBundle usage	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
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19.6.16 Pergyard ESME FieldBundlaSat Consistency with other FieldBundla usage If keywords are not used: for optional arguments, add keyword. For req			19.6.15	Removed	ESMF_FieldBundleSet	Consistency with other FieldBundle usage	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
arguments, no impact. If keywords are used: search and replace.			19.6.16	Removed	ESMF_FieldBundleSet	Consistency with other FieldBundle usage	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
19.0.17 Removed Estim reliabilities at Consistency with other reliabilities usage arguments, no impact. If keywords are used: search and replace.			19.6.17	Removed	ESMF_FieldBundleSet	Consistency with other FieldBundle usage	
19.0.17 ESWIP_Fleidbulliule Valluate Consistency with other Fleidbulliule usage arguments, no impact. If keywords are used: search and replace.			19.6.18	19.6.17	ESMF_FieldBundleValidate	Consistency with other FieldBundle usage	
19.0.19 ESWIP_reliability with fuller reliabilities usage arguments, no impact. If keywords are used: search and replace.			19.6.19	19.6.18	ESMF_FieldBundleWrite	Consistency with other FieldBundle usage	
unifields 17.7.5 17.7.5 Edwir_StateCleate Consistency with other reliabilitied usage arguments, no impact. If keywords are used: search and replace.	bundleList	fieldbundleList	17.7.3	17.7.6	ESMF_StateCreate	Consistency with other FieldBundle usage	
state value 17.7.5 17.7.6 ESMIP_State Cleate Convention is that the halfne of the object is halfne arguments, no impact. If keywords are used: search and replace.	stateName	name	17.7.3	17.7.6	ESMF_StateCreate	,	
name itemName itemName itemName 17.7.7 17.9 ESMF_StateGet Convention is that items within containers are called 'If keywords are not used: for optional arguments, add keyword. For requirements, and keywords are used: search and replace.	name	itemName	17.7.7	17.7.9	ESMF_StateGet		If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
	fptr	farrayPtr	23.3.4	23.3.7	ESMF_LocalArrayCreate		If keywords are not used: for optional arguments, add keyword. For required
23.3.7 ESMF_LocalArrayGet Consistency with Fortran pointer types If keywords are not used: for optional arguments, add keyword. For requarguments, no impact. If keywords are used: search and replace.			23.3.7	23.3.10	ESMF_LocalArrayGet	Consistency with Fortran pointer types	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
memory representation arguments, no impact. If keywords are used: search and replace.	memDimCount	rank	20.6.23	20.6.26	ESMF_FieldGet	memory representation	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
25.6.13 25.6.18 ESMF_GridGet Consistency between Grid, Field, Array - rank refers to memory representation If keywords are not used: for optional arguments, add keyword. For requirements, no impact. If keywords are used: search and replace.			25.6.13	25.6.18	ESMF_GridGet		If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.

API Changes Old value (510)	New value (520)	Interfaces affected (510)	Interface (520)	Method name	Rationale for change	Impact
larray	localarray	22.5.4	22.5.7	ESMF_ArrayCreate	Consistency with other LocalArray usage	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
		22.5.5	22.5.8	ESMF_ArrayCreate	Consistency with other LocalArray usage	If keywords are not used: for optional arguments, add keyword. For required
		22.5.13	22.5.16	ESMF_ArrayGet	Consistency with other LocalArray usage	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		22.5.16	22.5.19	ESMF_ArrayGet	Consistency with other LocalArray usage	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		23.3.3	23.3.6	ESMF_LocalArrayCreate	Consistency with other LocalArray usage	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		23.3.5	23.3.8	ESMF_LocalArrayDestroy	Consistency with other LocalArray usage	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		23.3.6	23.3.9	ESMF_LocalArrayGet	Consistency with other LocalArray usage	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		23.3.7	23.3.10	ESMF_LocalArrayGet	Consistency with other LocalArray usage	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
patch	tile	20.7.1	20.7.1	ESMF_FieldGather	, , ,	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
pateri	uie			<del>-</del>	Consistency with Grid	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		20.7.13	20.7.13	ESMF_ArrayBundleSMM	Consistency with Grid	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		22.5.12	22.5.15	ESMF_ArrayGather	Consistency with Grid	arguments, no impact. If keywords are used: search and replace.  If keywords are used: search and keyword. For required
		22.5.26	22.5.29	ESMF_ArrayScatter	Consistency with Grid	arguments, no impact. If keywords are used: search and replace.
various patch	tile	29.5.8	29.5.12	ESMF_DistGridGet	Consistency with Grid	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
		22.5.13	22.5.16	ESMF_ArrayGet	Consistency with Grid	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
patchIndexX (X=A,B)	tileIndexX (X=A,B)	29.5.14	29.5.18	ESMF_DistGridConnection	Consistency with Grid	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
root	rootPet	45.5.7	44.5.10	ESMF_VMBroadcast	Consistency with Array and Field	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
		45.5.8	44.5.13	ESMF_VMGather	Consistency with Array and Field	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
		45.5.9	44.5.14	ESMF_VMGatherV	Consistency with Array and Field	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
		45.5.16	44.5.21	ESMF_VMReduce	Consistency with Array and Field	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
		45.5.17	44.5.22	ESMF_VMScatter	Consistency with Array and Field	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
		45.5.18	44.5.23	ESMF_VMScatterV	Consistency with Array and Field	If keywords are not used: for optional arguments, add keyword. For required
src	srcPet	45.5.15	44.5.20	ESMF_VMRecv	Consistency with Array and Field	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
		45.5.20	44.5.25	ESMF_VMSendRecv	Consistency with Array and Field	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
dst	dstPet	45.5.19	44.5.24	ESMF_VMSend	Consistency with Array and Field	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
uot	usu ct	45.5.20	44.5.25			arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
-tDistoid	4:4:4			ESMF_VMSendRecv	Consistency with Array and Field	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
staggerDistgrid	distgrid	25.6.16	25.6.21	ESMF_GridGet	Consistency with DistGrid, Array, and Field	arguments, no impact. If keywords are used: search and replace.  If keywords are not used: for optional arguments, add keyword. For required
staggerlocsCount	staggerlocCount	25.6.13	25.6.13	ESMF_GridGet	Consistency with DistGrid, Array, and Field	arguments, no impact. If keywords are used: search and replace.  If keywords are used: search and keyword. For required
staggerMemLBound	staggerLBound	25.6.2	25.6.5	ESMF_GridAddItem	Consistency with DistGrid, Array, and Field	arguments, no impact. If keywords are used: search and replace.
		25.6.1	25.6.4	ESMf_GridAddCoord	Consistency with DistGrid, Array, and Field	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
name	fieldname	19.6.10	19.6.13	ESMF_FieldBundleGet	Convention is that items within containers are called 'XXXName' where XXX=item,field,array, etc.	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
stateitemtypeList	itemtypeList	17.7.5	17.7.8	ESMF_StateGet	Convention is to not label argument with the class name	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
name	alarmname	40.5.8	39.5.9	ESMF_ClockGetAlarm	Convention is that items within containers are called 'XXXName' where XXX=item,field,array, etc.	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
Arguments added						
N/A	msg	43.7.3	42.7.3	ESMF_LogFoundAllocError	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Add keyword
N/A		43.7.4	42.7.4	ESMF_LogFoundDeallocError	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Add keyword
N/A		43.7.5	42.7.5	ESMF_LogFoundError	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Add keyword
N/A				ESMF_LogSetError	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Add keyword

API Changes Old value (510)	New value (520)	Interfaces affected (510)	Interface (520)	Method name	Rationale for change	Impact
	fieldNameList	19.6.9	19.6.12	ESMF_FieldBundleGet	Argument added as a result of the removal of another ESMF FieldBundleGet() method.	The arguments added came from another ESMF_FieldBundleGet() interface and were changed from required to optional, so keywords may need to be
V/A	srcMaskValues,					added if the old interface was used with positional arguments
	dstMaskValues, regridPoleType, regridNPnts,	19.7.10	19.7.10	ESMF_FieldBundleRegridStore	Arguments added to increase capabilities to match ESMF FieldRegridStore	Add keywords
N/A	unmappedDstAction				Zom _ role rogridotaro	
Arguments removed						
iospec	N/A	19.6.3	19.6.6	ESMF_FieldBundleCreate	Never implemented	No impact
	N/A N/A	19.6.4 19.6.5	19.6.7 19.6.8	ESMF_FieldBundleCreate ESMF_FieldBundleCreate	Never implemented Never implemented	No impact
	N/A	19.6.6	19.6.9	ESMF_FieldBundleCreate	Never implemented  Never implemented	No impact No impact
	N/A	19.6.7	19.6.10	ESMF FieldBundleCreate	Never implemented  Never implemented	No impact
	N/A	20.6.1	20.6.4	ESMF FieldCreateEmpty	Never implemented	No impact
	N/A	20.6.3	20.6.6	ESMF FieldCreate	Never implemented	No impact
	N/A	20.6.4	20.6.7	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.5	20.6.8	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.6	20.6.9	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.7	20.6.10	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.8	20.6.11	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.9	20.6.12	ESMF_FieldCreate	Never implemented	No impact
	N/A N/A	20.6.10 20.6.11	20.6.13 20.6.14	ESMF_FieldCreate ESMF_FieldCreate	Never implemented	No impact
	N/A N/A			ESMF_FieldCreate	Never implemented	No impact
	N/A N/A	20.6.12 20.6.13	20.6.15 20.6.16	ESMF_FieldCreate	Never implemented Never implemented	No impact No impact
	N/A	20.6.14	20.6.17	ESMF_FieldCreate	Never implemented  Never implemented	No impact
	N/A	20.6.15	20.6.18	ESMF FieldCreate	Never implemented	No impact
	N/A	20.6.16	20.6.19	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.17	20.6.20	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.18	20.6.21	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.19	20.6.22	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.20	20.6.23	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.21	20.6.24	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.22	20.6.25	ESMF_FieldCreate	Never implemented	No impact
	N/A	20.6.23	20.6.26	ESMF_FieldGet	Never implemented	No impact
rank	N/A	20.6.3	20.6.6	ESMF_FieldCreate	Redundant argument: the rank must be the sum of the dimensions of the grid plus the dimensions of the ungridded bounds	Remove rank argument if present - this will impact previous ESMF versions since it was required previously
	N/A	15.5.21	15.5.24	ESMF_GridCompValidate	Never implemented	No impact
options	N/A	15.5.8	15.5.11	ESMF_GridCompPrint	Never implemented	No impact
	N/A	16.4.21	16.4.24	ESMF_CplCompValidate	Never implemented	No impact
	N/A	16.4.8	16.4.11	ESMF_CplCompPrint	Never implemented	No impact
	N/A	19.6.13	19.6.15	ESMF_FieldBundlePrint	Never implemented	No impact
	N/A	19.6.18	19.6.17	ESMF_FieldBundleValidate	Never implemented	No impact
	N/A	21.5.7	21.5.10	ESMF_ArrayBundlePrint	Never implemented	No impact
	N/A N/A	22.5.20	22.5.23	ESMF_ArrayPrint	Never implemented	No impact
	N/A	37.5.21 39.4.26	36.5.20 38.4.26	ESMF_CalendarValidate ESMF_TimeIntervalValidate	Never implemented Never implemented	No impact No impact
	N/A	40.5.20	39.5.21	ESMF ClockValidate	Never implemented  Never implemented	No impact
	N/A	41.6.18	40.6.19	ESMF_AlarmValidate	Never implemented	No impact
	N/A	43.6.6	43.6.5	ESMF_DELayoutPrint	Never implemented	No impact
commCapacity, compCapacity	N/A	44.6.5	43.6.4	ESMF_DELayoutGet	Never implemented	No impact
docopy	N/A	25.6.19	25.6.25	ESMF_GridGetCoord	Never implemented	No impact
·	N/A	25.6.24	25.6.30	ESMF_GridGetItem	Never implemented	No impact
base	N/A	23.3.6	23.3.9	ESMF_LocalArrayGet	Similar argument offered in another ESMF_LocalArrayGet	Use farrayPtr instead of the base argument
					method()	-
factorList, factorIndexList	N/A	19.7.14	19.7.14		Erroneous argument, present only in documentation	No impact
GridCompType	N/A	15.5.1	15.5.4	ESMF_GridCompCreate	More appropriately stored as an Attribute	Little impact if removed in all ESMF versions that must be supported
	N/A N/A	15.5.4 15.5.11	15.5.7 15.5.14	ESMF_GridCompGet ESMF_GridCompSet	More appropriately stored as an Attribute  More appropriately stored as an Attribute	Little impact if removed in all ESMF versions that must be supported  Little impact if removed in all ESMF versions that must be supported
neededflag, readyflag, validflag, reqforrestartflag	N/A N/A	17.7.3	17.7.6	ESMF_StateCreate	Does not reflect current class definitions and recommended usage	Use ESMF_StateSetNeeded()
minIndex	N/A	25.6.16	26.6.21	ESMF_GridGet	moved argument to a new ESMF_GridGet() interface	Little impact if removed in all ESMF versions that must be supported
maxIndex	N/A	25.6.16	26.6.21	ESMF_GridGet	moved argument to a new ESMF_GridGet() interface	Little impact if removed in all ESMF versions that must be supported
Interfaces name changes						
	ESMF GridGetCoordBounds	25.6.18	25.6.27	ESMF_GridGetCoordBounds	Consistency with Field and Array class	Anywhere that you call ESMF_GridGetCoord() without a pointer, you need t change the name to ESMF_GridGetCoordBounds
ESMF_GridGetCoord						
ESMF_LogMsgSetError	ESMF_LogSetError	43.7.9	42.7.8	ESMF_LogSetError	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Use the optional 'msg' argument in ESMF_LogSetError()

API Changes						
Old value (510)	New value (520)	Interfaces affected (510)	Interface (520)	Method name	Rationale for change	Impact
ESMF_IOUnitFlush	ESMF_UtillOUnitFlush	46.4.1	45.4.1	ESMF_UtillOUnitFlush	Prevent confusion with future IO class namespace, also associates with other Util class methods more appropriately	Search and replace
ESMF_IOUnitGet	ESMF_UtillOUnitGet	46.4.2	45.4.2	ESMF_UtillOUnitGet	Prevent confusion with future IO class namespace, also associates with other Util class methods more appropriately	Search and replace
Interfaces added						
N/A	ESMF_StateRemove	N/A	17.7.15	ESMF_StateRemove	N/A	N/A since it is a new interface
N/A	ESMF_StateReplace	N/A	17.7.16	ESMF_StateReplace	N/A	N/A since it is a new interface
N/A	ESMF_GridGet	N/A	25.6.22	ESMF_GridGet	N/A	N/A since it is a new interface
N/A	ESMF_DistGridCreate	N/A	29.5.4	ESMF_DistGridCreate	N/A	N/A since it is a new interface
N/A	ESMF_AttributeGet	N/A	33.9.12	ESMF_AttributeGet	N/A	N/A since it is a new interface
N/A	ESMF_AttributeAdd	N/A	33.9.2	ESMF_AttributeAdd	N/A	N/A since it is a new interface
N/A	ESMF_UtilGetArgC	N/A	45.4.3	ESMF_UtilGetArgC	N/A	N/A since it is a new interface
N/A	ESMF UtilGetArg	N/A	45.4.4	ESMF UtilGetArg	N/A	N/A since it is a new interface
N/A	ESMF_UtilGetArgIndex	N/A	45.4.5	ESMF_UtilGetArgIndex	N/A	N/A since it is a new interface
Interfaces removed						
ESMF_FieldBundleGet	N/A	19.6.12	N/A	ESMF_FieldBundleGet	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments.	Arguments from the original method were added to another ESMF_FieldBundleGet() interface and made optional, so keywords may need to be added if the old interface was used with positional arguments
ESMF_FieldBundleSet	N/A	19.6.15	N/A	ESMF_FieldBundleSet	Interface does not reflect current class definitions and recommended usage	If using the FieldBundle as the carrier for a Grid, LocStream, etc., may need to restructure code
ESMF_FieldBundleSet	N/A	19.6.16	N/A	ESMF_FieldBundleSet	Interface does not reflect current class definitions and recommended usage	If using the FieldBundle as the carrier for a Grid, LocStream, etc., may need to restructure code
ESMF_FieldBundleSet	N/A	19.6.17	N/A	ESMF_FieldBundleSet	Interface does not reflect current class definitions and recommended usage	If using the FieldBundle as the carrier for a Grid, LocStream, etc., may need to restructure code
ESMF_IOSpecGet	N/A	31.2.1	N/A	ESMF_IOSpecGet	Class not implemented and removed	Since IOSpec was not implemented there should be no impact
ESMF_IOSpecSet	N/A	31.2.2	N/A	ESMF_IOSpecSet	IOSpec class was removed	Since IOSpec was not implemented there should be no impact
ESMF_LogMsgFoundAllocError	N/A	43.7.6	N/A	ESMF_LogMsgFoundAllocError	Convention is to minimize the number of interfaces to the r extent possible via overloading or adding optional arguments	Use the optional 'msg' argument in ESMF_LogSetError()
ESMF_LogMsgFoundDeallocError	N/A	43.7.7	N/A	ESMF_LogMsgFoundDeallocEr	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Use the optional 'msg' argument in ESMF_LogSetError()
ESMF_LogMsgFoundError	N/A	43.7.8	N/A	ESMF_LogMsgFoundError	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Use the optional 'msg' argument in ESMF_LogSetError()
ESMF_DELayoutCreate	N/A	44.6.3	N/A	ESMF_DELayoutCreate	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments.	No impact