

API Change	Interfaces affected (510)	Interface (520)	Method name (520)	Rationale for change	Impact
System-wide changes					
Document the behavior of assignment for deep classes (classes that have a Create method) and VM	All deep classes - except DELayout			Clearly define behavior of assignment and comparison	No impact
Implement equality operators (A==B) for all deep classes, where assignment A=B produces equivalence	All deep classes - except DELayout			Clearly define behavior of assignment and comparison	N/A since it is a new interface
Require argument keywords on all optional arguments	All interfaces			Ensure that framework methods are both extensible and consistent. This will allow the addition and rearrangement of optional arguments to all interface calls while keeping rc in the last position.	Large impact if keywords are not currently used. No impact for codes that currently use keywords for all or optional arguments
Move 'name' to last optional before 'rc'	All ESMF_XXXCreate, ESMF_XXXGetInfo, ESMF_XXXSet routines			Consistent position of 'name'	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.
Argument name changes					
maxHaloXWidth -> totalXWidth (X=L,U)	20.6.3	20.6.6	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.
	20.6.4	20.6.7	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.
	20.6.5	20.6.8	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.
	20.6.6	20.6.9	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.
	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.
	20.6.23	20.6.26	ESMF_FieldGet	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.
	20.6.26	20.6.29	ESMF_FieldGet	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.
	20.6.32	20.6.35	ESMF_FieldSetCommit	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.
	20.6.33	20.6.36	ESMF_FieldSetCommit	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.
bundle -> fieldbundle	19.6.1	19.6.4	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.
	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.
	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.
	19.6.9	19.6.12	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.
	19.6.10	19.6.13	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.
	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.
	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.
	19.6.13	19.6.15	ESMF_FieldBundlePrint	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.
	19.6.14	19.6.16	ESMF_FieldBundleRead	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.
	19.6.15	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.
	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.
	19.6.17	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.
	19.6.18	19.6.17	ESMF_FieldBundleValidate	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.
	19.6.19	19.6.18	ESMF_FieldBundleWrite	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.
bundleList -> fieldbundleList	17.7.3	17.7.6	ESMF_StateCreate	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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stateName -> name	17.7.3	17.7.6	ESMF_StateCreate	Convention is that the name of the object is 'name'	If keywords are not used: for optional arguments, add keyword. For required arguments, no impact. If keywords are used: search and replace.
name -> itemName	17.7.7	17.7.9	ESMF_StateGet	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.
fptr -> farrayPtr	23.3.4	23.3.7	ESMF_LocalArrayCreate	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.
	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.
memDimCount -> rank	20.6.23	20.6.26	ESMF_FieldGet	Consistency between Grid, Field, Array - rank refers to 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 required arguments, no impact. If keywords are used: search and replace.
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 arguments, no impact. If keywords are used: search and replace.
	22.5.13	22.5.16	ESMF_ArrayGet	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.
	22.5.16	22.5.19	ESMF_ArrayGet	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.
	23.3.3	23.3.6	ESMF_LocalArrayCreate	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.
	23.3.5	23.3.8	ESMF_LocalArrayDestroy	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.
	23.3.6	23.3.9	ESMF_LocalArrayGet	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.
	23.3.7	23.3.10	ESMF_LocalArrayGet	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.
patch -> tile	20.7.1	20.7.1	ESMF_FieldGather	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.
	20.7.13	20.7.13	ESMF_ArrayBundleSMM	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.
	22.5.12	22.5.15	ESMF_ArrayGather	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.
	22.5.26	22.5.29	ESMF_ArrayScatter	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.
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 -> 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 arguments, no impact. If keywords are used: search and replace.
src -> srcPet	45.5.15	44.5.20	ESMF_VMRecv	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.
	45.5.20	44.5.25	ESMF_VMSendRecv	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.
dst -> dstPet	45.5.19	44.5.24	ESMF_VMSend	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.
	45.5.20	44.5.25	ESMF_VMSendRecv	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.
staggerDistgrid -> distgrid	25.6.16	25.6.21	ESMF_GridGet	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.

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staggerlocsCount -> staggerlocCount	25.6.13	25.6.13	ESMF_GridGet	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.
staggerMemLBound -> staggerLBound	25.6.2	25.6.5	ESMF_GridAddItem	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.
	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					
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
	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
	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
			ESMF_LogSetError	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments	Add keyword
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 added if the old interface was used with positional arguments
srcMaskValues, dstMaskValues, regridPoleType, regridNPnts, unmappedDstAction	19.7.10	19.7.10	ESMF_FieldBundleRegridStore	Arguments added to increase capabilities to match ESMF_FieldRegridStore	Add keywords
Arguments removed					
iospec	19.6.3	19.6.6	ESMF_FieldBundleCreate	Never implemented	No impact
	19.6.4	19.6.7	ESMF_FieldBundleCreate	Never implemented	No impact
	19.6.5	19.6.8	ESMF_FieldBundleCreate	Never implemented	No impact
	19.6.6	19.6.9	ESMF_FieldBundleCreate	Never implemented	No impact
	19.6.7	19.6.10	ESMF_FieldBundleCreate	Never implemented	No impact
	20.6.1	20.6.4	ESMF_FieldCreateEmpty	Never implemented	No impact
	20.6.3	20.6.6	ESMF_FieldCreate	Never implemented	No impact
	20.6.4	20.6.7	ESMF_FieldCreate	Never implemented	No impact
	20.6.5	20.6.8	ESMF_FieldCreate	Never implemented	No impact
	20.6.6	20.6.9	ESMF_FieldCreate	Never implemented	No impact
	20.6.7	20.6.10	ESMF_FieldCreate	Never implemented	No impact
	20.6.8	20.6.11	ESMF_FieldCreate	Never implemented	No impact
	20.6.9	20.6.12	ESMF_FieldCreate	Never implemented	No impact
	20.6.10	20.6.13	ESMF_FieldCreate	Never implemented	No impact
	20.6.11	20.6.14	ESMF_FieldCreate	Never implemented	No impact
	20.6.12	20.6.15	ESMF_FieldCreate	Never implemented	No impact
	20.6.13	20.6.16	ESMF_FieldCreate	Never implemented	No impact
	20.6.14	20.6.17	ESMF_FieldCreate	Never implemented	No impact
	20.6.15	20.6.18	ESMF_FieldCreate	Never implemented	No impact
	20.6.16	20.6.19	ESMF_FieldCreate	Never implemented	No impact
	20.6.17	20.6.20	ESMF_FieldCreate	Never implemented	No impact
	20.6.18	20.6.21	ESMF_FieldCreate	Never implemented	No impact
	20.6.19	20.6.22	ESMF_FieldCreate	Never implemented	No impact
	20.6.20	20.6.23	ESMF_FieldCreate	Never implemented	No impact
	20.6.21	20.6.24	ESMF_FieldCreate	Never implemented	No impact
	20.6.22	20.6.25	ESMF_FieldCreate	Never implemented	No impact
	20.6.23	20.6.26	ESMF_FieldGet	Never implemented	No impact

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rank	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
options	15.5.21	15.5.24	ESMF_GridCompValidate	Never implemented	No impact
	15.5.8	15.5.11	ESMF_GridCompPrint	Never implemented	No impact
	16.4.21	16.4.24	ESMF_CplCompValidate	Never implemented	No impact
	16.4.8	16.4.11	ESMF_CplCompPrint	Never implemented	No impact
	19.6.13	19.6.15	ESMF_FieldBundlePrint	Never implemented	No impact
	19.6.18	19.6.17	ESMF_FieldBundleValidate	Never implemented	No impact
	21.5.7	21.5.10	ESMF_ArrayBundlePrint	Never implemented	No impact
	22.5.20	22.5.23	ESMF_ArrayPrint	Never implemented	No impact
	37.5.21	36.5.20	ESMF_CalendarValidate	Never implemented	No impact
	39.4.26	38.4.26	ESMF_TimeIntervalValidate	Never implemented	No impact
	40.5.20	39.5.21	ESMF_ClockValidate	Never implemented	No impact
	41.6.18	40.6.19	ESMF_AlarmValidate	Never implemented	No impact
	43.6.6	43.6.5	ESMF_DELayoutPrint	Never implemented	No impact
	44.6.5	43.6.4	ESMF_DELayoutGet	Never implemented	No impact
commCapacity, compCapacity docopy	25.6.19	25.6.25	ESMF_GridGetCoord	Never implemented	No impact
	25.6.24	25.6.30	ESMF_GridGetItem	Never implemented	No impact
base	23.3.6	23.3.9	ESMF_LocalArrayGet	Similar argument offered in another ESMF_LocalArrayGet method()	Use farrayPtr instead of the base argument
factorList, factorIndexList	19.7.14	19.7.14	ESMF_FieldBundleSMMStore	Erroneous argument, present only in documentation	No impact
GridCompType	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
	15.5.4	15.5.7	ESMF_GridCompGet	More appropriately stored as an Attribute	Little impact if removed in all ESMF versions that must be supported
	15.5.11	15.5.14	ESMF_GridCompSet	More appropriately stored as an Attribute	Little impact if removed in all ESMF versions that must be supported
neededflag, readyflag, validflag, reqforrestartflag	17.7.3	17.7.6	ESMF_StateCreate	Does not reflect current class definitions and recommended usage	Use ESMF_StateSetNeeded()
Interfaces added					
ESMF_StateRemove	N/A	17.7.15	ESMF_StateRemove	N/A	N/A since it is a new interface
ESMF_StateReplace	N/A	17.7.16	ESMF_StateReplace	N/A	N/A since it is a new interface
ESMF_GridGet	N/A	25.6.22	ESMF_GridGet	N/A	N/A since it is a new interface
ESMF_DistGridCreate	N/A	29.5.4	ESMF_DistGridCreate	N/A	N/A since it is a new interface
ESMF_AttributeGet	N/A	33.9.12	ESMF_AttributeGet	N/A	N/A since it is a new interface
ESMF_AttributeAdd	N/A	33.9.2	ESMF_AttributeAdd	N/A	N/A since it is a new interface
ESMF_UtilGetArgC	N/A	45.4.3	ESMF_UtilGetArgC	N/A	N/A since it is a new interface
ESMF_UtilGetArg	N/A	45.4.4	ESMF_UtilGetArg	N/A	N/A since it is a new interface
ESMF_UtilGetArgIndex	N/A	45.4.5	ESMF_UtilGetArgIndex	N/A	N/A since it is a new interface
Interfaces removed					
ESMF_FieldBundleGet	19.6.12	N/A	N/A	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	19.6.15	N/A	N/A	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	19.6.16	N/A	N/A	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	19.6.17	N/A	N/A	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	31.2.1	N/A	N/A	Class not implemented and removed	Since IOSpec was not implemented there should be no impact
ESMF_IOSpecSet	31.2.2	N/A	N/A	IOSpec class was removed	Since IOSpec was not implemented there should be no impact
ESMF_LogMsgFoundAllocError	43.7.6	N/A	N/A	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_LogMsgFoundDeallocError	43.7.7	N/A	N/A	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	43.7.8	N/A	N/A	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()

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ESMF_DELayoutCreate	44.6.3	N/A	N/A	Convention is to minimize the number of interfaces to the extent possible via overloading or adding optional arguments.	No impact
Interfaces name changes					
ESMF_GridGetCoord -> 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 to change the name to ESMF_GridGetCoordBounds
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()
ESMF_VMCommQueueWait -> ESMF_VMCommWaitAll	45.5.23	44.5.12	ESMF_VMCommWaitAll	Consistency with MPI naming conventions	Search and replace
ESMF_IOUnitFlush -> ESMF_UtilIOUnitFlush	46.4.1	45.4.1	ESMF_UtilIOUnitFlush	Prevent confusion with future IO class namespace, also associates with other Util class methods more appropriately	Search and replace
ESMF_IOUnitGet -> ESMF_UtilIOUnitGet	46.4.2	45.4.2	ESMF_UtilIOUnitGet	Prevent confusion with future IO class namespace, also associates with other Util class methods more appropriately	Search and replace