New-API-sheets 810-820

API Changes								
Method name	Old value (810)	New value (820)	Marked backward compatible in 810	Interface (810)	Interface (820)	Rationale for change	Impact	
Added Optional Arguments								
						Allow user to enable ESMF-aware		
ESMF_Initialize	N/A	globalResourceControl	Yes	16.4.1	16.4.1	resource control on the global VM.	No impact.	
						Allow user to access the config object created by ESMF Initialize()		
						when the configFilename		
ESMF_Initialize	N/A	config	Yes	16.4.1	16.4.1	argument was specified.	No impact.	
ESMF_Initialize	N/A	defaultDefaultLogFilename	Yes	16.4.1	16.4.1	Allow user to set the default filename of the default log object.	No impact.	
FOME LINE	N/A	1.5.11		40.4.4	10.1.1	Allow user to set the default log	N	
ESMF_Initialize	N/A	defaultLogAppendFlag	Yes	16.4.1	16.4.1	append behavior. Allow user to set the default	No impact.	
ESMF_Initialize	N/A	defaultLogKindFlag	Yes	16.4.1	16.4.1	LogKind.	No impact.	
ESMF_Initialize	N/A	defaultGlobalResourceControl	Yes	16.4.1	16.4.1	Allow user to set the default globalResourceControl value.	No impact.	
LOWII _IIIIIalize	IVA	deladifolobalivesourcecontrol	163	10.4.1	10.4.1	Allow user to specify whether child	140 Impact.	
						PETs run as independent		
ESMF_GridCompSetVMMaxPEs	N/A	forceChildPthreads	No	17.4.25	17.4.25	Pthreads, or use the parent PET directly.	No impact.	
						Allow user to specify whether child		
						PETs run as independent Pthreads, or use the parent PET		
ESMF_GridCompSetVMMaxThreads	N/A	forceChildPthreads	No	17.4.26	17.4.26	directly.	No impact.	
						Allow user to specify whether child PETs run as independent		
						Pthreads, or use the parent PET		
ESMF_GridCompSetVMMinThreads	N/A	forceChildPthreads	No	17.4.27	17.4.27	directly.	No impact.	
						Allow user to specify whether child PETs run as independent		
50M5 0 10 0 11 MM DE	N/A	(OL 1 IDII		40.4.05	10.1.05	Pthreads, or use the parent PET	No. 1	
ESMF_CplCompSetVMMaxPEs	N/A	forceChildPthreads	No	18.4.25	18.4.25	directly. Allow user to specify whether child	No impact.	
						PETs run as independent		
ESMF_CplCompSetVMMaxThreads	N/A	forceChildPthreads	No	18.4.26	18.4.26	Pthreads, or use the parent PET directly.	No impact.	
_opioompoetviviiviax riii eaas	14/7	lorocormar arreads	110	10.4.20	10.4.20	Allow user to specify whether child	THO IMPAGE.	
						PETs run as independent Pthreads, or use the parent PET		
ESMF_CplCompSetVMMinThreads	N/A	forceChildPthreads	No	18.4.27	18.4.27	directly.	No impact.	
						Allow user to retrieve the		
ESMF_XGridGet	N/A	coordSys	No	34.6.8	34.6.8	coordinate system that the XGrid is specified in.	No impact.	
		,				Allow user to set the maximum		
						number of outstanding communication calls between any		
ESMF_VMEpochEnter	N/A	throttle	No	49.6.14	49.6.14	two PETs within an VMEpoch.	No impact.	
						Provide access to the ESMF_COMM setting used by the		
ESMF_VMGet	N/A	esmfComm	Yes	49.6.18	49.6.18	ESMF installation.	No impact.	
Changed Arguments								
J								
						Argument was renamed in order to clarify that provided settings in the	Code that uses the old	
						Config file are not defaults, but	must be changed to use the new	
ESMF_Initialize	defaultConfigFilename	configFilename	Yes	16.4.1	16.4.1	final overrides.	configFilename argument.	
						Argument was renamed to clearly	Code that uses the old minStackSize argument must be	
50M5 0.10 0.10 MM. 55		W M. Ot 1 O		10.1.05	10.1.05	indicate that it refers to the	changed to use the new	
ESMF_CplCompSetVMMaxPEs	minStackSize	pthreadMinStackSize	No	18.4.25	18.4.25	Pthread stack size.	pthreadMinStackSize argument. Code that uses the old	
						Argument was renamed to clearly	minStackSize argument must be	
ESMF CplCompSetVMMaxThreads	minStackSize	pthreadMinStackSize	No	18.4.26	18.4.26	indicate that it refers to the Pthread stack size.	changed to use the new pthreadMinStackSize argument.	
		parrodulimotacholize	.40		10.4.20		Code that uses the old	
						Argument was renamed to clearly indicate that it refers to the	minStackSize argument must be changed to use the new	
ESMF_CplCompSetVMMinThreads	minStackSize	pthreadMinStackSize	No	18.4.27	18.4.27	Pthread stack size.	pthreadMinStackSize argument.	
							0	

New-API-sheets 810-820

API Changes								
Method name	Old value (810)	New value (820)	Marked backward compatible in 810	Interface (810)	Interface (820)	Rationale for change	Impact	
Added Methods								
ESMF MethodGet	N/A	N/A	N/A	N/A	22.4.17	Provide access to the list of labels of all the methods attached to a CplComp object.	No impact.	
ESMF MethodGet	N/A	N/A	N/A	N/A	22.4.19	Provide access to the list of labels of all the methods attached to a GridComp object.	No impact.	
ESMF_MethodGet	N/A	N/A	N/A	N/A	22.4.21	Provide access to the list of labels of all the methods attached to a State object.	No impact.	
Deprecated Classes								
ESMF_Attribute	N/A	N/A	No	55	55	The underlying implementation for metadata storage has changed and is available through the native ESMF_Info API.	derived type, methods, or named	