API Changes							
7tt i Changes			Marked				
Method name	Old value (620)	New value (630r)	backward compatible in 620	Interface (620)	Interface (630r)	Rationale for change	Impact
Added Arguments	-						
Added Alguments						Introduced way to test	
						availability without causing	
ESMF_GridCompSetServices	N/A	userRoutineFound	Yes	15.4.19	16.4.19	error conditions.	No impact
						Introduced way to test	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
						availability without causing	
ESMF_CplCompSetServices	N/A	userRoutineFound	Yes	16.4.19	17.4.19	error conditions.	No impact
						Allows the component	
						service to contact the	If a keyword is not used for
						registrar when started under	the 'rc' argument, it must
ESMF_WebServicesLoop	N/A	registrarHost	No	21.4.1	22.4.1	a batch system.	now be introduced.
						Allows the component	
						service to contact the	If a keyword is not used for
						registrar when started under	the 'rc' argument, it must
ESMF_WebServicesCplCompLoop	N/A	registrarHost	No	21.4.2	22.4.2	a batch system.	now be introduced.
						Offer information about the	
FOME FieldCot	NI/A		Vac	24 6 44	25.6.44	VM on which the Field was	No impost
ESMF_FieldGet	N/A	vm	Yes	24.6.41	25.6.44	created.	No impact
						Allowing the user to control the path of the line between	
						two points on a sphere	
ESMF_FieldRegridStore	N/A	lineType	Yes	24.6.55	25.6.58	surface.	No impact
relative gride to re	14/7 (штетурс	100	24.0.00	20.0.00	Support object creation on a	140 Impact
						different VM than that of the	
ESMF ArrayCreate	N/A	vm	Yes	26.5.10	27.5.10	current context.	No impact
						Support object creation on a	
						different VM than that of the	
ESMF_ArrayCreate	N/A	vm	Yes	26.5.12	27.5.12	current context.	No impact
						Support object creation on a	If a keyword is not used for
						different VM than that of the	the 'rc' argument, it must
ESMF_GridCreate	N/A	vm	No	29.6.11	30.6.11	current context.	now be introduced.
						Allows user to set	If a keyword is not used for
						coordinates for element	the 'rc' argument, it must
ESMF_MeshAddElements	N/A	elementCoords	No	31.4.4	32.4.4	center.	now be introduced.
						Allows user to describe the	If a keyword is not used for
ESME MoobCroots	NI/A	acard Cua	No	21.4.6	22.4.6	type of coordinates in the	the 'rc' argument, it must
ESMF_MeshCreate	N/A	coordSys	No	31.4.6	32.4.6	Mesh. Allows user to describe the	now be introduced. If a keyword is not used for
						type of coordinates in the	the 'rc' argument, it must
ESMF_MeshCreate	N/A	coordSys	No	31.4.7	32.4.7	Mesh.	now be introduced.
	1 107 1	00014090	110	J 1. 1. 1	V2.1.1	Allows user to set	If a keyword is not used for
						coordinates for element	the 'rc' argument, it must
ESMF_MeshCreate	N/A	elementCoords	No	31.4.7	32.4.7	center.	now be introduced.
						Allows user to set	
						distribution of elements in	
ESMF_MeshCreate	N/A	elementDistgrid	No	31.4.8	32.4.8	created Mesh.	No impact

API Changes							
Method name	Old value (620)	New value (630r)	Marked backward compatible in 620	Interface (620)	Interface (630r)	Rationale for change	Impact
ESMF_MeshCreate	N/A	nodalDistgrid	No	31.4.8	32.4.8	Allows user to set distribution of nodes in created Mesh.	No impact
ESMF_MeshCreate	N/A	maskFlag	No	31.4.8	32.4.8	Allows user to specify which location in Mesh to apply mask.	No impact
ESMF_MeshGet	N/A	coordSys	No	31.4.12	32.4.12	Allow user to retrieve type of coordinates from Mesh.	No impact
ESMF_DistGridCreate	N/A	vm	Yes	33.6.4	34.6.4	Allows user to set distribution of elements in created Mesh.	No impact
ESMF_DistGridCreate	N/A	vm	Yes	33.6.5	34.6.5	Allows user to set distribution of elements in created Mesh. Allows a user to retrieve a	No impact If a keyword is not used for
ESMF_AttributeAdd	N/A	attpack	No	37.11.1	38.11.3	handle to an ESMF Attribute package.	the 'rc' argument, it must now be introduced.
ESMF_AttributeAdd	N/A	attpack	No	37.11.2	38.11.4	Allows a user to retrieve a handle to an ESMF Attribute package.	now be introduced.
ESMF_AttributeAdd	N/A	attpack	No	37.11.3	38.11.5	Allows a user to retrieve a handle to an ESMF Attribute package.	now be introduced.
ESMF_AttributeAdd	N/A	attpack	No	37.11.4	38.11.6	Allows a user to retrieve a handle to an ESMF Attribute package.	If a keyword is not used for the 'rc' argument, it must now be introduced.
ESMF_AttributeAdd	N/A	attpack	No	37.11.5	38.11.7	Allows a user to retrieve a handle to an ESMF Attribute package.	If a keyword is not used for the 'rc' argument, it must now be introduced.
Removed Arguments							
ESMF_MeshCreate	N/A	convert3D	No	31.4.8	32.4.8	The implementation has changed to no longer require this user input.	If argument is used, it must now be removed.
ESME MoshCroate	N/A	addMaak	No	21.4.9	32.4.8	Broadened functionality by replacing with maskFlag. Consistency with flag	If argument is used, it must now be changed to using
ESMF_MeshCreate	N/A	addMask	No	31.4.8	32.4.0	argument nomenclature.	maskFlag.
Argument Intent/Optional Changes						D	
ESMF_MeshCreate	N/A	nodalDistgrid	No	31.4.9 intent(in)	32.4.9 intent(in), optional	Remove requirement that user must supply this information.	No impact
ESMF_MeshCreate	N/A	elementDistgrid	No	31.4.9 intent(in)	32.4.9 intent(in), optional	Remove requirement that user must supply this information.	No impact

API Changes							
Method name	Old value (620)	New value (630r)	Marked backward compatible in 620	Interface (620)	Interface (630r)	Rationale for change	Impact
keywordEnforcer Added							
ESMF_FieldCreate	N/A	N/A	No	24.6.14	25.6.17	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced. If keywords are not used
ESMF_FieldCreate	N/A	N/A	No	24.6.15	25.6.18	Working towards backward compatibility	for the optional arguments, they must now be introduced. If keywords are not used
ESMF_FieldCreate	N/A	N/A	No	24.6.16	25.6.19	Working towards backward compatibility	for the optional arguments, they must now be introduced.
ESMF_FieldCreate	N/A	N/A	No	24.6.17	25.6.20	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced.
ESMF_FieldCreate	N/A	N/A	No	24.6.18	25.6.21	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced.
ESMF_FieldCreate	N/A	N/A	No	24.6.19	25.6.22	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced.
ESMF FieldCreate	N/A	N/A	No	24.6.20	25.6.23	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced.
ESMF_FieldCreate	N/A	N/A	No	24.6.21	25.6.24	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced.
ESMF_MeshCreate	N/A	N/A	No	31.4.8	32.4.8	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced.
ESMF_MeshCreate	N/A	N/A	No	31.4.8	32.4.9	Working towards backward compatibility	If keywords are not used for the optional arguments, they must now be introduced.
Added Methods							

API Changes							
Method name	Old value (620)	New value (630r)	Marked backward compatible in 620	Interface (620)	Interface (630r)	Rationale for change	Impact
ESMF_RegridWeightGen	N/A	N/A	N/A	N/A	23.3.2	Allows user to specify distribution of source and destination Meshes.	No impact
ESMF_GridCreate	N/A	N/A	N/A	N/A	30.6.13	Allows user to specify distribution of created Grid.	No impact
ESMF_AttributeAdd	N/A	N/A	N/A	N/A	38.11.1	Allows a user to create Attribute packages using a specification list.	No impact
ESMF_AttributeAdd	N/A	N/A	N/A	N/A	38.11.2	Allows a user to create Attribute packages using a specification list.	No impact
ESMF_AttributeGet	N/A	N/A	N/A	N/A	38.11.9	Allows a user to retrieve Attribute information using an ESMF_AttPack.	No impact
ESMF_AttributeGet	N/A	N/A	N/A	N/A	38.11.10	Allows a user to retrieve Attribute information using an ESMF_AttPack.	No impact
ESMF_AttributeGet	N/A	N/A	N/A	N/A	38.11.11	Allows a user to retrieve Attribute information using an ESMF_AttPack.	No impact
ESMF_AttributeGet	N/A	N/A	N/A	N/A	38.11.12	Allows a user to retrieve Attribute information using an ESMF_AttPack. Allows a user to retrieve	No impact
ESMF_AttributeGet	N/A	N/A	N/A	N/A	38.11.18	Allows a user to retrieve Attribute information using an ESMF_AttPack. Allows a user to retrieve	No impact
ESMF_AttributeGet	N/A	N/A	N/A	N/A	38.11.21	Attribute information using an ESMF_AttPack.	No impact
ESMF_AttributeGetAttPack	N/A	N/A	N/A	N/A	38.11.23	Allows a user to retrieve an ESMF_AttPack. Allows a user to retrieve an	No impact
ESMF_AttributeGetAttPack	N/A	N/A	N/A	N/A	38.11.24	ESMF_AttPack. Allows a user to remove	No impact
ESMF_AttributeRemove	N/A	N/A	N/A	N/A	38.11.36	Attributes using an ESMF_AttPack.	No impact
ESMF_AttributeSet	N/A	N/A	N/A	N/A	38.11.38	Allows a user to set Attribute information using an ESMF_AttPack.	No impact
ESMF_AttributeSet	N/A	N/A	N/A	N/A	38.11.39	Allows a user to set Attribute information using an ESMF_AttPack.	No impact
ESMF_AttributeSet	N/A	N/A	N/A	N/A	38.11.40	Allows a user to set Attribute information using an ESMF_AttPack.	No impact
ESMF_UtillOGetCWD	N/A	N/A	N/A	N/A	49.4.4	Allows user to retrieve the current working directory	No impact