| API Changes | | | Marked | | | | |
|---|------------------------|------------------|----------------------------------|-----------------|-----------------|--|------------|
| Method name | Old value (860) | New value (870) | backward compatible in 860 | Interface (860) | Interface (870) | Rationale for change | Impact |
| Method hame | Oid value (000) | ivew value (0/U) | 000 | interface (860) | interface (070) | Rationale for change | Шрасс |
| Added Optional Arguments | | | | | | | |
| ESMF Initialize | N/A | hconfig | Yes | 16.4.1 | 16.4.1 | Supports direct access to the default HConfig object if such object was created during ESMF_Initialize(). | No impact. |
| ESMF GridCompCreate | N/A | hconfig | Yes | 17.4.4 | 17.4.4 | Allows the specifiation of a HConfig object. | No impact. |
| LOWI _Ondoomporeate | TW/A | ncomig | 103 | 17.4.4 | 17.4.4 | Supports access to the HConfig object kept | No impact. |
| ESMF_GridCompGet | N/A | hconfig | Yes | 17.4.7 | 17.4.7 | by the component. Supports query whether an HConfig object is | No impact. |
| ESMF_GridCompGet | N/A | hconfiglsPresent | Yes | 17.4.7 | 17.4.7 | kept by the component. | No impact. |
| ESMF_GridCompSet | N/A | hconfig | Yes | 17.4.16 | 17.4.16 | Allows the specifiation of a HConfig object. | No impact. |
| ESMF_CplCompCreate | N/A | hconfig | Yes | 18.4.4 | 18.4.4 | Allows the specifiation of a HConfig object. | No impact. |
| ESMF CplCompGet | N/A | hconfig | Yes | 18.4.7 | 18.4.7 | Supports access to the HConfig object kept by the component. | No impact. |
| ESWIF_CpiCollipGet | IN/A | ricornig | 162 | 10.4.7 | 10.4.7 | Supports query whether an HConfig object is | |
| ESMF CplCompGet | N/A | hconfigIsPresent | Yes | 18.4.7 | 18.4.7 | kept by the component. | No impact. |
| ESMF CplCompSet | N/A | hconfig | Yes | 18.4.16 | 18.4.16 | Allows the specifiation of a HConfig object. | No impact. |
| ESMF_GridCreateCubedSphere | N/A | coordCalcFlag | No | 31.6.27 | 31.6.27 | Allows user to select new calculation method for cubed sphere coordinates. The new method is less memory intensive. The old method is still the default. | |
| | | | | | | Allows user to select new calculation method for cubed sphere coordinates. The new method is less memory intensive. The old | |
| ESMF_GridCreateCubedSphere | N/A | coordCalcFlag | No | 31.6.28 | 31.6.28 | method is still the default. Make the clock a repeat clock that | No impact. |
| ESMF ClockCreate | N/A | repeatDuration | Yes | 45.5.5 | 45.5.5 | repeatedly goes through the same interval. | No impact. |
| ESMF ClockGet | N/A | repeatDuration | Yes | 45.5.8 | 45.5.8 | Get the repeatDuration from a clock. | No impact. |
| ESMF_ClockGet | N/A | repeatCount | Yes | 45.5.9 | 45.5.9 | Get the number of times a repeat clock has gone back to the beginning of its interval. | No impact. |
| Added Methods | | | | | | | |
| Tada Moniesa | | | | | | Supports writing information about State into | |
| ESMF_StateLog | N/A | N/A | No | N/A | 21.7.12 | the ESMF log. | No impact. |
| ESMF_FieldLog | N/A | N/A | No | N/A | 26.6.61 | Supports writing information about Field into the ESMF log. | No impact. |
| ESMF ArrayBundleLog | N/A | N/A | No | N/A | 27.5.15 | Supports writing information about ArrayBundle into the ESMF log. | No impact. |
| | | | | | | Supports writing information about Array into | · |
| ESMF_ArrayLog | N/A | N/A | No | N/A | 28.5.26 | the ESMF log. | No impact. |
| ESMF_DistGridLog | N/A | N/A | No | N/A | 36.6.19 | Supports writing information about DistGrid into the ESMF log. | No impact. |
| ESMF_TimeIntervalSet | N/A | N/A | No | N/A | 44.4.26 | Allow the user to set a time interval using an ISO 8601 time string. | No impact. |
| ESMF TimeIntervalSet | N/A | N/A | No | N/A | 44.4.27 | Allow the user to set a time interval using an ISO 8601 time string and a calendar. | No impact. |
| | | | | | | Allow the user to set a time interval using an | · |
| ESMF_TimeIntervalSet | N/A | N/A | No | N/A | 44.4.28 | ISO 8601 time string and a calendar kind. Allow the user to set a time interval using an | No impact. |
| ESMF_TimeIntervalSet | N/A | N/A | No | N/A | 44.4.29 | ISO 8601 time string and a start time. | No impact. |
| ESMF_HConfigOperator(=) | N/A | N/A | No | N/A | 48.6.1 | Allows assignment of HConfig objects. | No impact. |
| 5045 110 5 1 | | | | | 40.0 :: | Supports writing information about HConfig | |
| ESMF_HConfigLog | N/A | N/A | No | N/A | 48.6.43 | into the ESMF log. Supports more complex comparison | No impact. |
| ESMF_HConfigMatch | N/A | N/A | No | N/A | 48.6.44 | between two HConfig objects than provided by the (==) operator. | No impact. |
| Dangageted Classes Matheda | | | | | | | |
| Deprecated Classes, Methods, Arguments | To be removed in 9.0.0 | | | | | | |
| Deprecated Classes | | | | | | | |
| PAPPELLI NATKYHYHHH | | | | | | | |

| 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. | Code that uses the legacy ESMF_Attribute API through derived type, methods, or named constants should migrate to use the ESMF_Info class API. |
|----------------------------|------------------|------------------|-----|---------|---------|---|---|
| Deprecated Methods | | | | | | | |
| deprecated since 5.3.1: | | | | | | | |
| ESMF_StateRemove | N/A | N/A | yes | 21.7.15 | 21.7.15 | A different overload of the method exists that is more consisent with the overall API. | Code that uses the scalar version of ESMF_StateRemove() should change to the list version. |
| Deprecated Arguments | | | | | | | |
| deprecated since 8.6.0: | | | | | | | |
| ESMF_VMGet | accDeviceCount | accDeviceCount | yes | 51.6.19 | 51.6.19 | Arguments that reflect ESMF's accelerator support strategy better have become available in the general ESMF_VMGet() method (51.6.18). | Code that uses the "accDeviceCount" argument should be changed to using the alternative arguments from 51.6.18. |
| deprecated since 8.5.0: | | | | | | | Code that currently passes the |
| ESMF_ConfigLoadFile | delayout | delayout | yes | 46.3.15 | 47.3.16 | This argument was never used internally, and it is unclear what the original intention was. | "delayout" argument into ESMF_ConfigLoadFile should be changed to not pass this argument. |
| deprecated since 8.1.0: | | | | | | | 0-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4 |
| ESMF_FieldBundleSMM | zeroregion | zeroregion | yes | 25.5.33 | 25.5.33 | Replaced with zeroregionflag for consistency. | Code that uses the "zeroregion" argument should be changed to using the "zeroregionflag" argument. |
| ESMF_FieldRegridStore | weights, indices | weights, indices | yes | 26.6.60 | 26.6.67 | Replaced with factorList and factorIndexList for consistency. | Code that uses the "weights" argument should be changed to using the "factorList" argument. Code that uses the "idices" argument should be changed to using the "factorIndexList" argument. |
| | | | | 07.500 | 07.500 | Replaced with zeroregionflag for | Code that uses the "zeroregion" argument should be changed to using the "zeroregionflag" |
| ESMF_ArrayBundleSMM | zeroregion | zeroregion | yes | 27.5.23 | 27.5.23 | consistency. | argument. |
| deprecated since 5.2.0rp1: | | | | | | | Code that uses the "localDeList" |
| ESMF_ArrayGet | localDeList | localDeList | yes | 28.5.18 | 28.5.18 | Replaced with localDeToDeMap for consistency. | argument should be changed to using the "localDeToDeMap" argument. |