

Paper	Proposed issue	Title	MISRA C++ ref	Note
OO	6.xx	Redispatching	In effect banned by 10-3-1 "There shall be no more than one definition of each virtual function on each path through the inheritance hierarchy". The only exceptions are for destructors and functions that are declared pure and provided with a definition in the same class (as they have to be called explicitly as C::F()) Its also addressed by 7-5-4 "Functions	This rule is very unpopular and possibly over restrictive - so it is quite likely to be dropped in the next edition If 10-3-1 is removed, then a note could be added to 7-5-4 to point out a 'hidden' way of creating recursion
OO	6.yy	Deep vs. Shallow Copying	In effect banned by 18-4-1 "Dynamic heap memory allocation shall not be used"	This rule is also a candidate to be removed - if so the issue of deep and shallow copying may need to be
OO	6.zz	Polymorphic variables	Partially addressed by 5-2-2 "A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast" Also, 5-2-4 "C-style casts (other than void cast) and function notation casts (other than explicit constructor calls) shall not be used" and 5-2-7 "An object with pointer	
Liskov v	6.xx	Violations of the Liskov Principle	None of the existing rules aim to enforce the 'is-a' relationship on derived classes	Does MISRA need such a rule? And if so, how can it