```
type, public :: QcMat
  private
  type(C_PTR) :: c_mat = C_NULL_PTR
end type QcMat
```

QcMatrix API (Fortran part)

```
function QcMatWrite(A, ...) result(ierr)
  integer :: ierr
  type(QcMat), intent(in) :: A
  ... ...
  ierr = f03_api_QcMatWrite(A%c_mat, ...)
end function QcMatWrite
```

QcMatrix API (C part)

```
QErrorCode f03_api_QcMatWrite(QVoid **A,
                              ...)
{
  QErrorCode ierr;
  QcMat *c_A;
  c_A = (QcMat *)(*A);
  ierr = QcMatWrite(c_A, ...);
  return ierr;
}
```