

```
std::unordered_map<cross::SIM_OPMSG, PROTO_FFS_CONVERTER> mSimConverter;  
std::unordered_map<cross::FFS_OPMSG, PROTO_SIM_CONVERTER> mFfsConverter;  
  
template<class T, class = std::enable_if_t<cross::TIsInheritTemplateOf<T, cross::ProtocolConversion>::value>>  
void RegisterProtocolConversion(cross::SIM_OPMSG inSimMsg, cross::FFS_OPMSG inFfsMsg)  
{  
    auto covPtr = std::make_shared<T>();  
    auto iCovPtr = TYPE_CAST_SHARD_PTR(IProtocolConversion, covPtr);  
  
    mSimConverter[inSimMsg] = std::make_pair(iCovPtr, inFfsMsg);  
    mFfsConverter[inFfsMsg] = std::make_pair(iCovPtr, inSimMsg);  
}
```