

Title: QKD standardization in ISO/IEC JTC 1/SC 27

Abstract:

The presentation will introduce the newly established standard - ISO/IEC 23837 for QKD test and evaluation. This is the first standard on the ISO/IEC platform with the theme of quantum key distribution, and now it is during the first working draft phase. The status and the editing plan will be shown first, and then the motivation for the standard will be analyzed to let the community know the goals and the progress of the development. As a focus of discussion, a structural analysis for each main clause will be described to clarify the intended content of the standard, including the security problems of QKD, its relevant security functional requirements, evaluation methodology, and the methods for functional testing. During the editing phase, comments and contributions will be solicited through the liaison channel.