

Outline of the Quad Open RAN Security Report

- As a response to the growing interest in the security of Open RAN, this 160-page report analyzes **the advantages, challenges and possibilities of overcoming challenges of Open RAN** compared to traditional RAN through **objective research and analysis including technical demonstration**.
- Released as one of the outcomes of the Quad on May 2023, based on the “Memorandum of Cooperation on 5G Supplier Diversification and Open RAN” of the **Quad Critical and Emerging Technology Working Group**.

<Advantages, challenges and possibilities of overcoming challenges of Open RAN>

Advantages	Security	Easier risk management due to improved transparency, etc.
	Others	Reduction of supply chain risk and avoidance of vendor lock-in due to reduced dependence on specific suppliers, etc.
Challenges	Approximately 4% of security risks analyzed in this report are unique to Open RAN (i.e., not also present in traditional RAN), based on inclusion of new interfaces/components.	
Possibilities of overcoming challenges	Possible to reduce risks unique to Open RAN and achieve security level equivalent to traditional RAN , by meeting the security requirement in standards and the checklist attached to this report . Note: Security of Open RAN can be further enhanced by activating optional security procedures.	



Cover of the report which was published as an outcome of Quad

➔ **Use of Open RAN does not fundamentally alter the security risk landscape for telecommunications, compared to traditional RAN**, given the objective analysis as above of the advantages, challenges and possibilities of overcoming challenges.