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Secure Authentication Protocol

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Abstract - It has been observed from literature that traditionally , the authentication protocols for cellular telephone networks have been designed for device authentication rather than user authentication , which bring certain limitations and restrictions on the functionality of the system. In this paper we propose a user authentication protocol for the Global System for Mobile communications (GSM) which permits the use of weak secrets (e . G ., passwords or PINS) for authentication , providing new flexibilities for GSM users .