[ABSTRACT]

An authentication apparatus, an authentication system, and an authentication method which update a risk determination condition based on a suspicious authentication request are provided. An authentication apparatus 2 includes: a risk determination table 23 which stores a risk determination condition; a determination unit 21 which receives access information of a user and an inquiry about an authentication type from a business apparatus 1, which determines the risk level based on the access information and the risk determination condition, and which identifies the authentication type based on the risk level; a response unit 22 which responds to the business apparatus 1 with the identified authentication type; an authentication processing unit 24 which receives a user-input password and an authentication request from the business apparatus 1 and performs an authentication process of the user based on the user-input password; a response unit 26 which responds to the business apparatus 1 with an authentication result; an update condition table 29 which stores an update condition for updating the risk determination condition; and an update unit 25 which updates the risk determination condition when the authentication request from the business apparatus 1 satisfies the update condition.