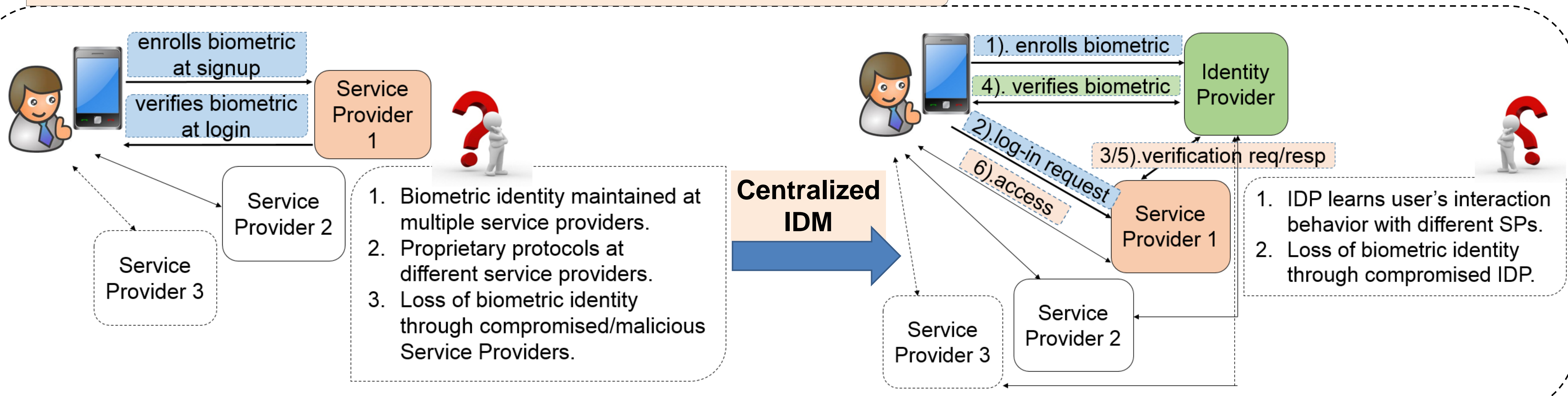


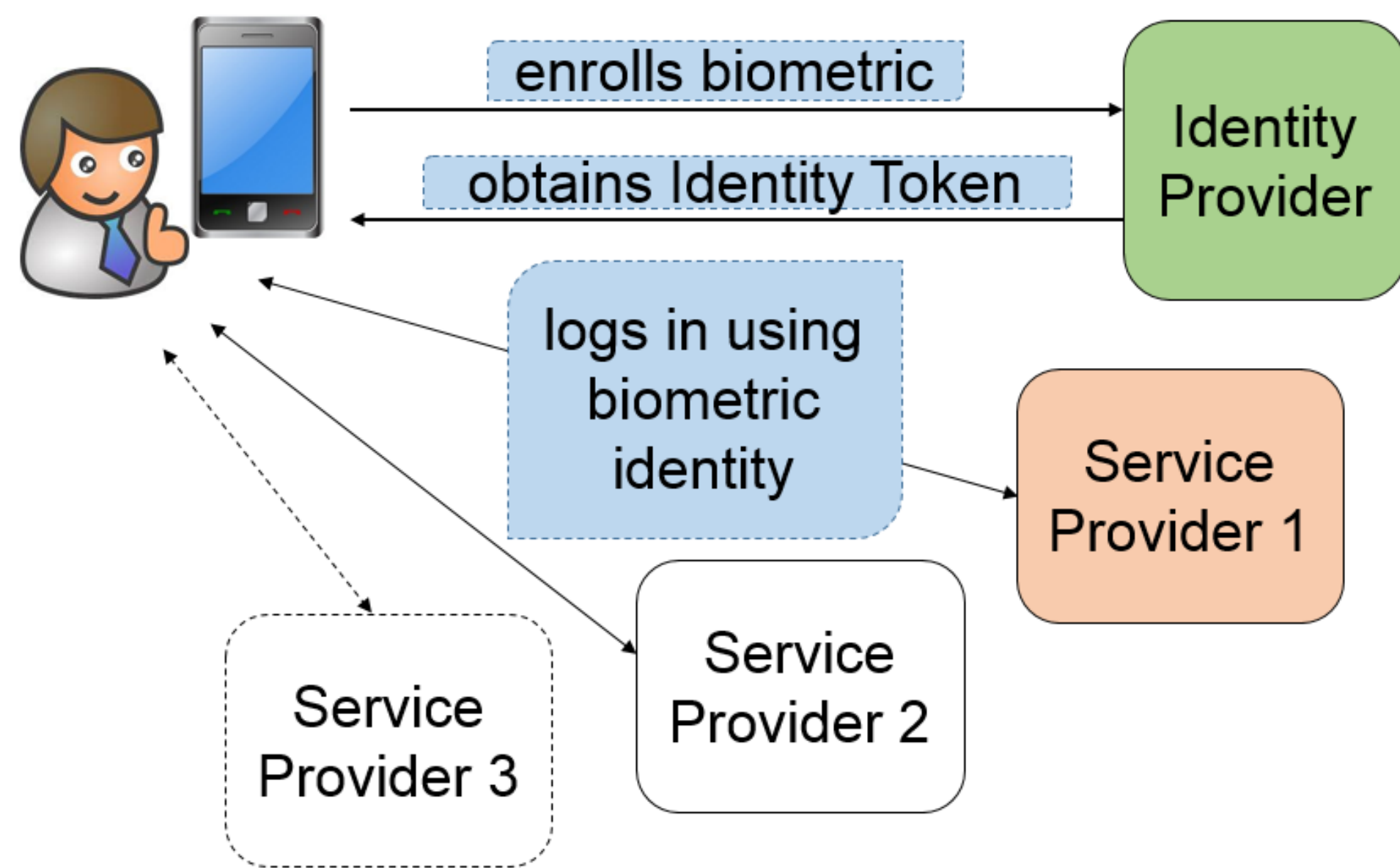
VeryBioIDX: Privacy Preserving Biometrics-Based and User Centric Authentication Protocol

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Conventional Biometrics-Based Identity Management Solutions



Our Approach : User Centric Identity Management System for Biometrics-Based Authentication



No interaction between IDP and SPs.

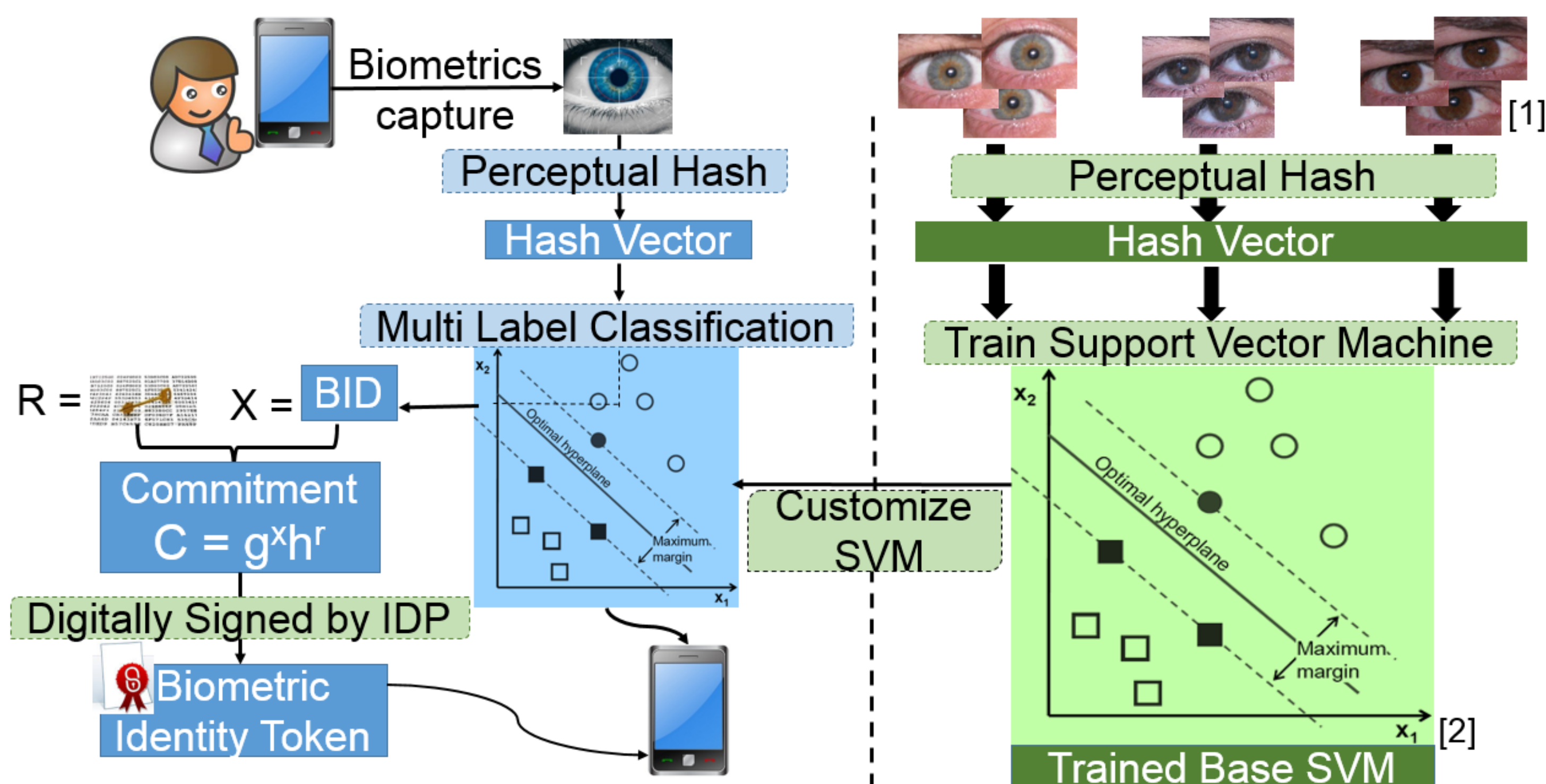


Challenges:

1. Avoid leaking sensitive information about user's biometric.
2. Avoiding security breaches through:
 - stolen mobile phones.
 - compromised identity provider.
 - compromised or malicious service providers.
3. Avoiding attacks on Zero Knowledge Proof of Knowledge Protocol.

Our Solution with Unique, Repeatable and Revocable Biometric Identity - Proved in Zero Knowledge

Biometric Enrollment Phase



[1] H. Proen,ca and L. A. Alexandre. Ubriris: a noisy iris image database. In Proceedings of ICIAP 2005, volume 1, pages 970–977, 2005
[2] Introduction to Support Vector Machines. http://docs.opencv.org/doc/tutorials/ml/introduction_to_svm/introduction_to_svm.html

Biometric Authentication Phase

