Interoperable Step Up Authentication for OAuth 2

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https://datatracker.ietf.org/doc/draft-bertocci-oauth-step-up-authn-challenge/

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Agenda

- Problem
- Proposal
- Discussion

Problem

- An API can reject an access token at any time
 - Even if the token is technically still valid, etc
- Most common reasons
 - Authentication strength deemed insufficient for a particular request
 - Freshness requirements stricter than what the AS-determined expiration would allow
 - E.g. risk management engine determines a fresher token is required
- No obvious way for a client to remediate the error situation

Proposal

- Extend RFC6750 with
 - error code insufficient_user_authentication
 - New WWW-Authenticate params acr_values, max_age
- Require support for AS request parameters acr_values, max_age
- Provide guidance for JWT ATs and Introspection response to express auth levels in interoperable fashion so that RS can read them

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Advantages

- Interoperable stepup can now be enshrined in client SDKs, API gateways/SDKs, AS
- Very small incremental step on existing feature sets

Discussion