Security Events RISC

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What is **RISC**

Risk and Incident Sharing and Coordination

Share information about important security events in order to thwart attackers from leveraging compromised accounts from one Service Provider to gain access to accounts on other Service Providers (mobile or web application developers and owners).

Enable users and providers to coordinate in order to securely restore accounts following a compromise.

http://openid.net/wg/risc/

The Problem

accounts are interconnected

explicitly through federation

implicitly through email address and recovery flows

owned on one service leads to owned on other services

RP sessions are disconnected from IdP

Events - Account Status Changes

Account Secured due to suspected compromise

Suspended - by owner

Suspended - by provider

Reactivated - by owner

Reactivated - by provider

Deleted - by owner

Deleted - by provider

Reissued

Events - Account Auth Changes

Password Changed

Session(s) Revoked

Recovery Email Changed

Recovery Phone Changed

Public Identifier Changed

2nd Factor Added

Token(s) Revoked

Event Recipient

Only the user's "Apps"!

1. Explicit

based on OAuth grants

2. Implicit

based on email recovery

contractual relationships and background registration

Privacy

1. User Notification and transparency.

2. Settings and opt-out.

Google's Implementation

Current events:

SESSIONS_REVOKED

TOKENS_REVOKED

Near future:

ACCOUNT_LOCKED

ACCOUNT_RECOVERED

Using Google Cloud Pub/Sub for distribution. Publisher only.

Open Issues

Meaningful UX

Hijacking vs abuse

User registration for implicit case

RISC publisher discovery

Distribution standardization

Critical mass

Event standardization