Watch List Matching Algorithm and Security Guidelines

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목차

1 Summary

This report outlines an algorithm for matching names against watch lists using fuzzy logic, nationality, and birthdate checks. It also provides security guidelines for passwords and input validation.

2 Matching Algorithm and Security Measures

The algorithm employs fuzzy matching for names and aliases, ensuring accuracy by cross-referencing nationality and birthdate when available. Security measures include password restrictions and input validation.

2.1 Fuzzy Matching for Names

Names and aliases are matched using fuzzy logic, allowing for approximate matches while prioritizing exact matches for nationality and birthdate.

2.2 Nationality and Birthdate Checks

Exact matches are enforced for nationality and birthdate when known. If unavailable, searches proceed without these filters.

2.3 Individual vs. Corporate Entries

The system differentiates between individuals (searching personal lists) and corporations (searching entity lists) to enhance accuracy.

2.4 Password Security Guidelines

Avoid passwords with predictable patterns (e.g., birthdays, consecutive numbers) to mitigate guessing risks.

2.5   Input Validation

Ensures valid inputs like emails (e.g., avoiding special characters) and birthdates (preventing future dates).

3 Conclusion

The algorithm balances accuracy with flexibility, enhancing security through robust validation and password guidelines. Copyright and disclaimer notices are included for legal compliance.