Motivation 1

• Identity management solutions do not deal with ensuring consistency.

Motivation 2

 Many of the end resources do not support transactions or other traditional consistency mechanism.

Motivation 3

 Inconsistencies can harm the security of the system and can lead to the malfunction of the system.

Objectives

 Design and implementation of mechanism for ensuring the consistency in one of the opensource identity management solution.

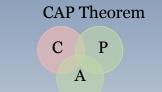
Consistency in the Identity Management

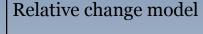
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Compensations

RECOMPUTE
STORE RETRY
RUN SYNCHRONIZE
RECONCILE







REPLACE: path, value ADD: path, value DELETE: path

1. Error Handling

- Compensations as reactions to the errors.
- Eliminates the formation of inconsistencies.
- Eliminates found inconsistencie.
- Temporary save unsuccessful operations

2. Reconciliation

- Automatic process.
- Finds differencies among different databases and merges them.
- Retry of unsuccessful operations

Results

Implementation and evaluation in the open-source solution called midPoint. Part of the official development.

Main benefits

- Support for online resources
- Compensations for automatically detected inconsistencies

Future work

 Extension of another identified problematic situations