

Project Overview

The N.C. Department of Information Technology is updating the N.C. Identity Management (NCID) service through the Citizen Identity Project. This involves enhancing security, improving self-service and moving external user identities from the department's on-prem infrastructure to a modern cloud-based service. Additional details and timeline information can be found at: <https://it.nc.gov/support/ncid/ncid-citizen-identity-project>

Web Service Integration Overview

Currently when applications invoke the Web Service functions, the Web Service performs authentication and authorization against NCID eDirectory for both internal and external users. At cutover, updated Web Services will be deployed which will perform authentication and authorization against NCID eDirectory for internal users and against Simeio Ping Directory for external users.

Definitions

- **Cutover:** At this point in time, all external identities would be migrated from NCID eDirectory to Simeio-Ping Directory in Production.
- **External user identities:** Individual user accounts and Business user accounts
- **Internal user identities:** State employee user accounts and Local Govt employee user accounts
- **NCID eDirectory:** It is a repository that currently stores internal and external user identities. After successful migration to Simeio, NCID eDirectory will act as the source of truth for all identity attributes associated with the internal user's profile.
- **NetIQ AM:** NetIQ Access Manager.
- **Ping Directory:** It is an LDAP repository that stores the external user identities. It will act as the source of truth for all identity attributes associated with the external user's profile.
- **Simeio Identity Orchestrator:** It is responsible to provide the user and administrator-facing features and includes the creation, update, and deletion of accounts in the back-end Ping directory.

Application User Impact after Cutover

- 1) For New User Registration for NCID Account and for Self-Service options (Forgot Username, Forgot Password, Unlock Account)
 - External Users (Individual Users and Business Users): They would go to <https://myncid.nc.gov>.
 - Internal Users (State Employee Users and Local Govt Employee Users): No change. They would continue to go to <https://ncid.nc.gov>.
- 2) Application access flow: No change.

Application Admin Impact after Cutover

- 1) Role Assignment:
 - To manually assign a role to External users (Individual Users and Business Users): They would go to <https://myncid.nc.gov>.
 - To manually assign a role to Internal Users (State Employee Users and Local Govt Employee Users): No change. They would continue to go to <https://ncid.nc.gov>.
 - To programmatically assign a role to External or Internal users through Web Service Integration: No change.
- 2) App Membership Report:
 - To view the report for External users (Individual Users and Business Users): They would go to <https://myncid.nc.gov>
 - To view the report for Internal Users (State Employee Users and Local Govt Employee Users): No change. They would continue to go to <https://ncid.nc.gov>.

Preparing for Cutover

- **NCID Team** will deploy new parallel environment for the Web Services in Development, Pre-Production and Production environments.
- **Application team** will test the application functionality.
 - 1) **In Dev environment:** To test applications in NCID Dev environment, application owners will need compare their application functionality results by:
 - Running their application with current dev web service endpoint <https://idpdncid.nc.gov/ncidwebservice/>
 - Running their application with the new dev web service endpoint <https://idpdmyncid.nc.gov/ncidwebservice/>
 - 2) **In Pre-Prod environment:** To test applications in NCID Pre-Prod environment, application owners will need compare their application functionality results by:
 - Running their application with current pre-prod web service endpoint <https://idppncid.nc.gov/ncidwebservice/>
 - Running their application with the new pre-prod web service endpoint <https://idppmyncid.nc.gov/ncidwebservice/>
 - 3) **In Production:** NCID team will perform DNS cutover of the new web services, so applications will not need to make any changes to their application in Prod. Applications teams are required to do functional testing in Production at cutover on March 10th. The Production web service endpoint will continue to remain <https://idpncid.nc.gov/ncidwebservice/>

NOTE:

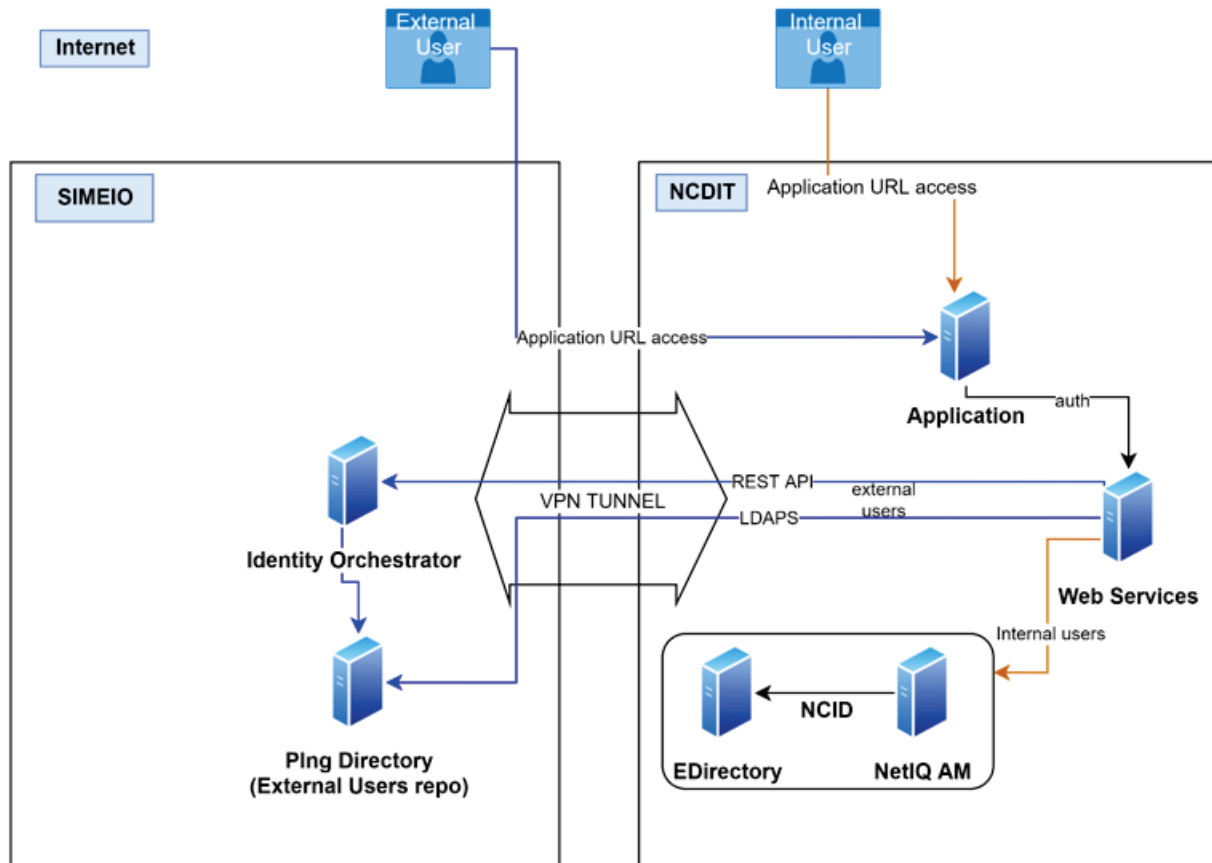
- Agency Applications may need to open Firewall Rules on their end to invoke the web service functions.
- Agency Application owners need to be aware that the UserDN format will be different for external users.

User Type	Current UserDN	New UserDN
Business User	cn=John Doe - 3f79afc8-5025-4adf-be55-5b24282c440b,ou=Business,ou=External,ou=People,o=NC Format for DN cn, ou=Business,ou=External,ou=People,o=NC Format for CN FirstName LastName – GUID	uid=JDoe001,ou=Business,ou=External,ou=People,dc=nc,dc=gov Format for DN uid, ou=Business,ou=External,ou=People,dc=nc,dc=gov
Individual User	cn=John Doe - 3f79afc8-5025-4adf-be55-5b24282c440b,ou=Individual,ou=External,ou=People,o=NC Format for DN cn, ou=Individual,ou=External,ou=People,o=NC Format for CN FirstName LastName – GUID	uid=JDoe001,ou=Individual,ou=External,ou=People,dc=nc,dc=gov Format for DN uid, ou=Individual,ou=External,ou=People,dc=nc,dc=gov

At Cutover

- **NCID Team** will point the existing web service end-point DNS entry to the new webservice environment.
- **Application team** will not require any config or application change. Application team will test the web service functions used by the application to ensure that there is no impact. At this point the application would be considered as migrated over to Simeio.

In the backend, new web services will connect to Simeio Ping Directory & Identity Orchestrator for external user authentication and management. For Internal users, web services will continue to use NCDIT's NCID systems. Application teams will have to test the applications in the non-prod and prod environments accordingly.



Web Service based applications