INDIGIO IAM: status and evolution plans

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WoTBAn&Az
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INDIGO Identity and Access Management Service

An authentication and authorization service that

- supports **multiple authentication mechanisms**
- provides users with a **persistent, organization scoped** identifier
- exposes **identity information, attributes and capabilities** to services via JWT tokens and standard OAuth & OpenID Connect protocols
- can integrate existing VOMS-aware services
- supports **Web and non-Web access, delegation and token renewal**
INDIGO Identity and Access Management Service

First developed in the context of the H2020 INDIGO DataCloud project

Selected by the WLCG management board to be the core of the future, token-based WLCG AAI

Sustained by INFN for the foreseeable future, with current support from:
IAM: main recent developments

New website
- with restructured and improved documentation

Improved token-exchange flexibility
- support for scope policies and token exchange policies

Support for linking SSH keys to IAM accounts
- keys are then exposed to relying apps via SCIM provisioning APIs or accessible presenting a token

The VOMS importer script
- Supports seamless migration from VOMS to IAM; currently deployed for CMS & ATLAS IAM deployments

More in the release notes
- https://github.com/indigo-iam/iam/releases/tag/v1.7.0
- https://github.com/indigo-iam/iam/releases/tag/v1.7.1
Main planned developments

Improved Client management & registration

• [https://github.com/indigo-iam/iam/issues/386](https://github.com/indigo-iam/iam/issues/386), [https://github.com/indigo-iam/iam/issues/84](https://github.com/indigo-iam/iam/issues/84)
• Current MitreID implementation has some scalability and usability limits
• Add ability to temporarily disable clients and expire clients that are not used for a certain amount of time
• Add the ability to allow client registration only to registered VO members

Support for JWT-based client authentication

• [https://github.com/indigo-iam/iam/issues/426](https://github.com/indigo-iam/iam/issues/426)

Support for OAuth resource indicators

• [https://github.com/indigo-iam/iam/issues/381](https://github.com/indigo-iam/iam/issues/381)
• ie., a standard way to request an audience for issued tokens

Support for Multi-factor authentication

• [https://github.com/indigo-iam/iam/projects/7](https://github.com/indigo-iam/iam/projects/7)
Thanks for your attention. 
Questions?
References

IAM Website: https://indigo-iam.github.io

IAM @ GitHub: https://github.com/indigo-iam/iam

IAM Users workshop slides: https://indico.cern.ch/event/970568/

IAM in action video: https://www.youtube.com/watch?v=1rZlvJADOY

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