

A Proposal to Do Remote Initial Vetting of Identity with PKI Credential

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Introduction

- Background
 - With the growth of large-scale distributed computing infrastructures, a system that enables researchers to use high performance computing resources in such infrastructures has been established.
 - It is **tough to carry out *initial vetting of identity based on a face-to-face meeting* at a service desk for the system if the researcher whose proposal is accepted lives in a foreign country.**
 - Anyone can apply a research project proposal to HPCI in Japan.
 - HPCI needs to vet the identity of foreign user based on a face-to-face meeting if their proposal is accepted.

Introduction (cont'd)

- Guiding question
 - How does the system vet the identity of user who cannot come to a service desk for the system ?
 - It is an important issue to establish a remote initial identification procedure.
- Solutions
 - A video-supported identity vetting guidelines that IGTF is discussing.
 - We propose a method for remote initial vetting of identity with PKI credential.

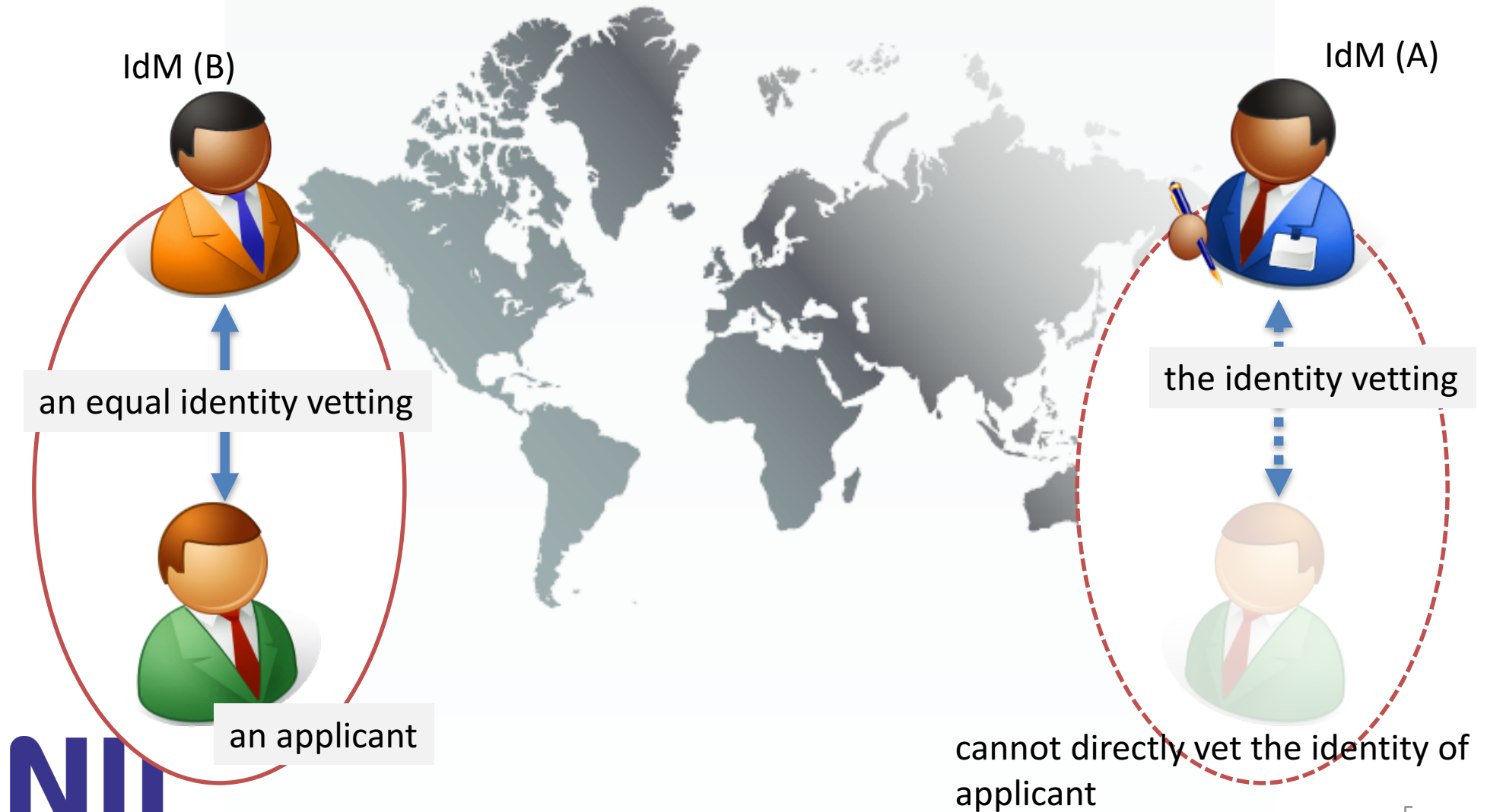
Basic Idea

- A trust federation consists of IdPs and SPs.
 - Each IdP in the trust federation ensures the same level of identity vetting.

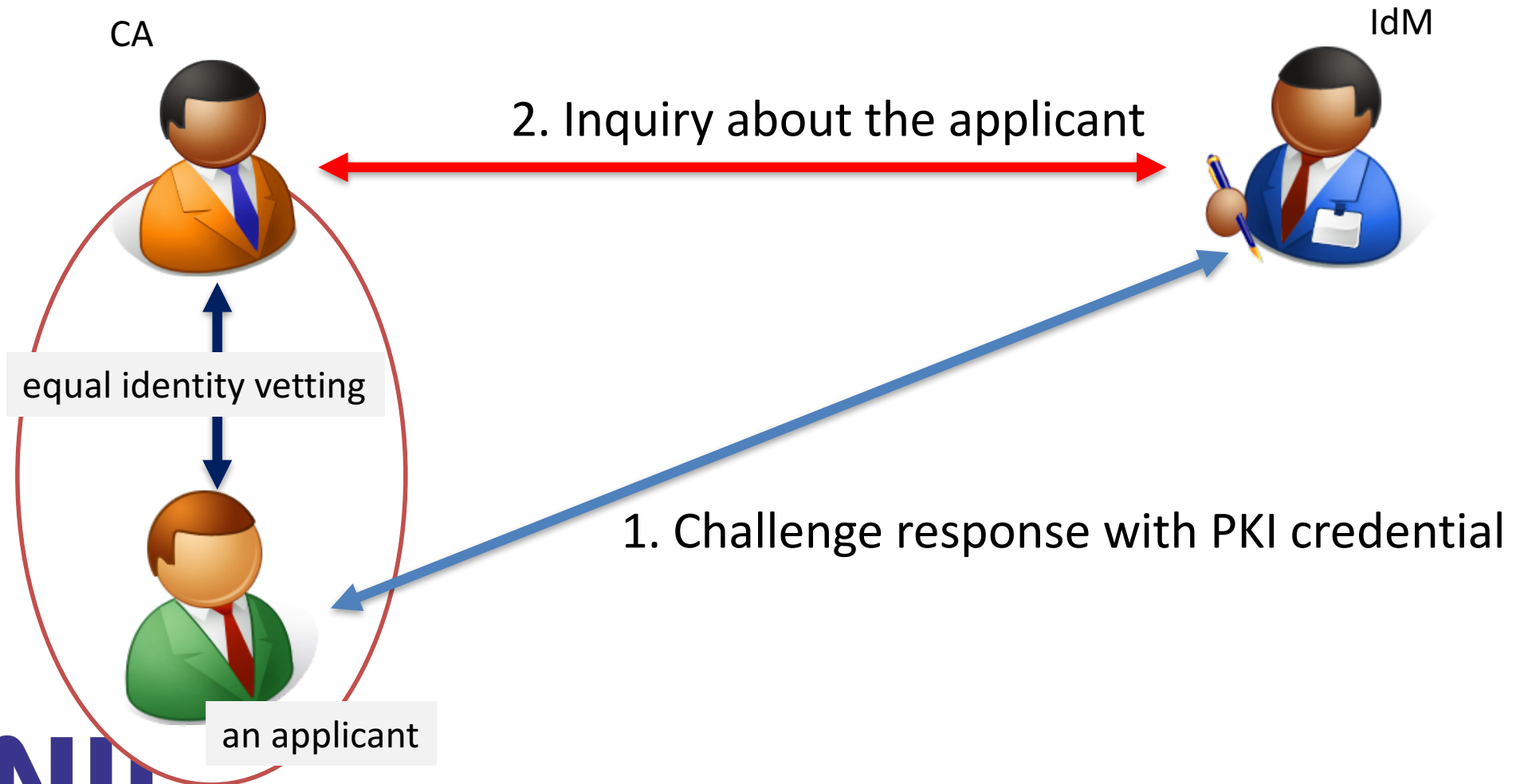


- Abandoning an attempt for the system itself to vet the identity of an applicant.
- Instead, using a credential generated by the identity data already confirmed **based on an equal identity vetting.**

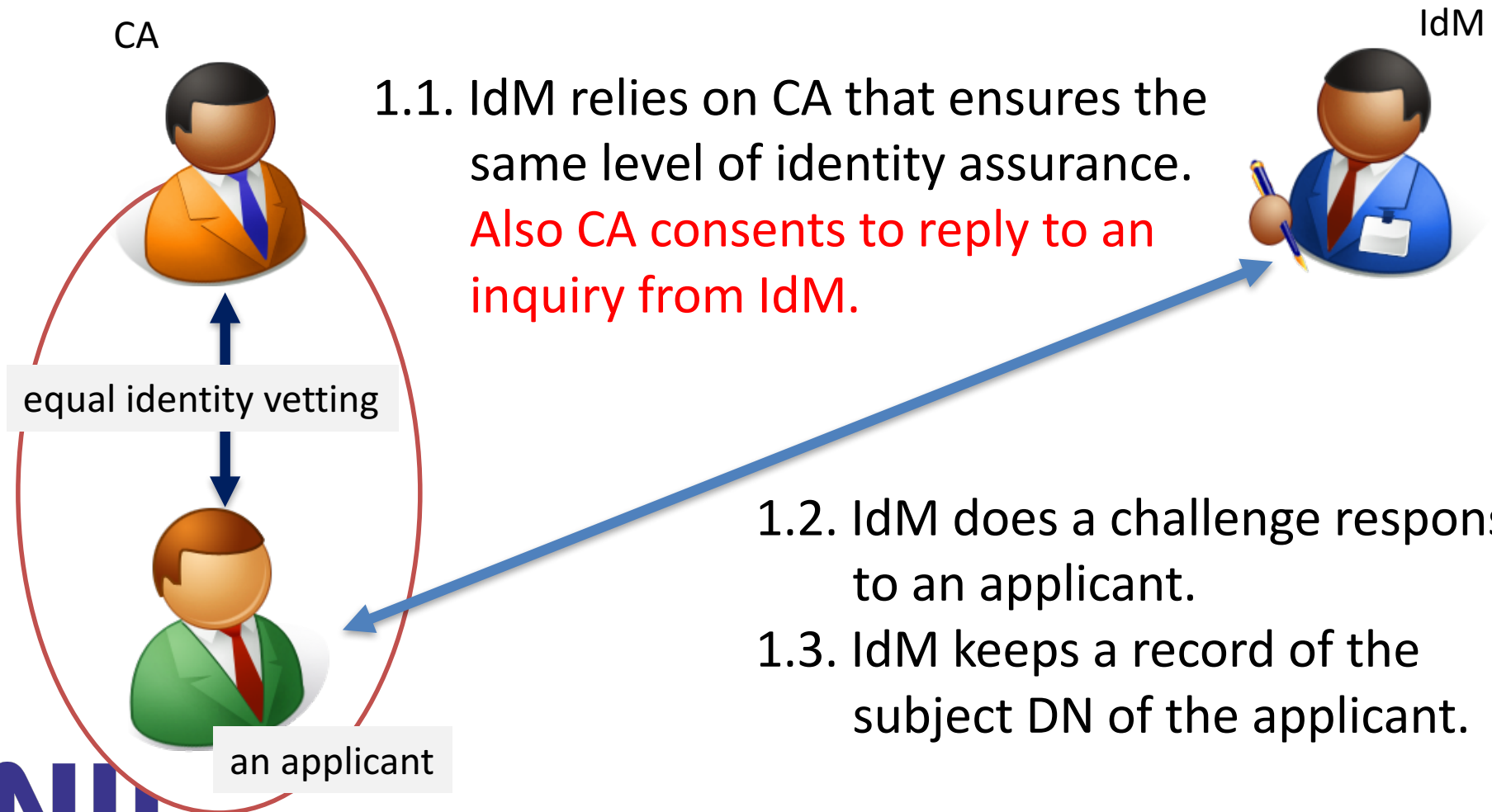
Basic Idea (cont'd)



Proposed Process with PKI Credential

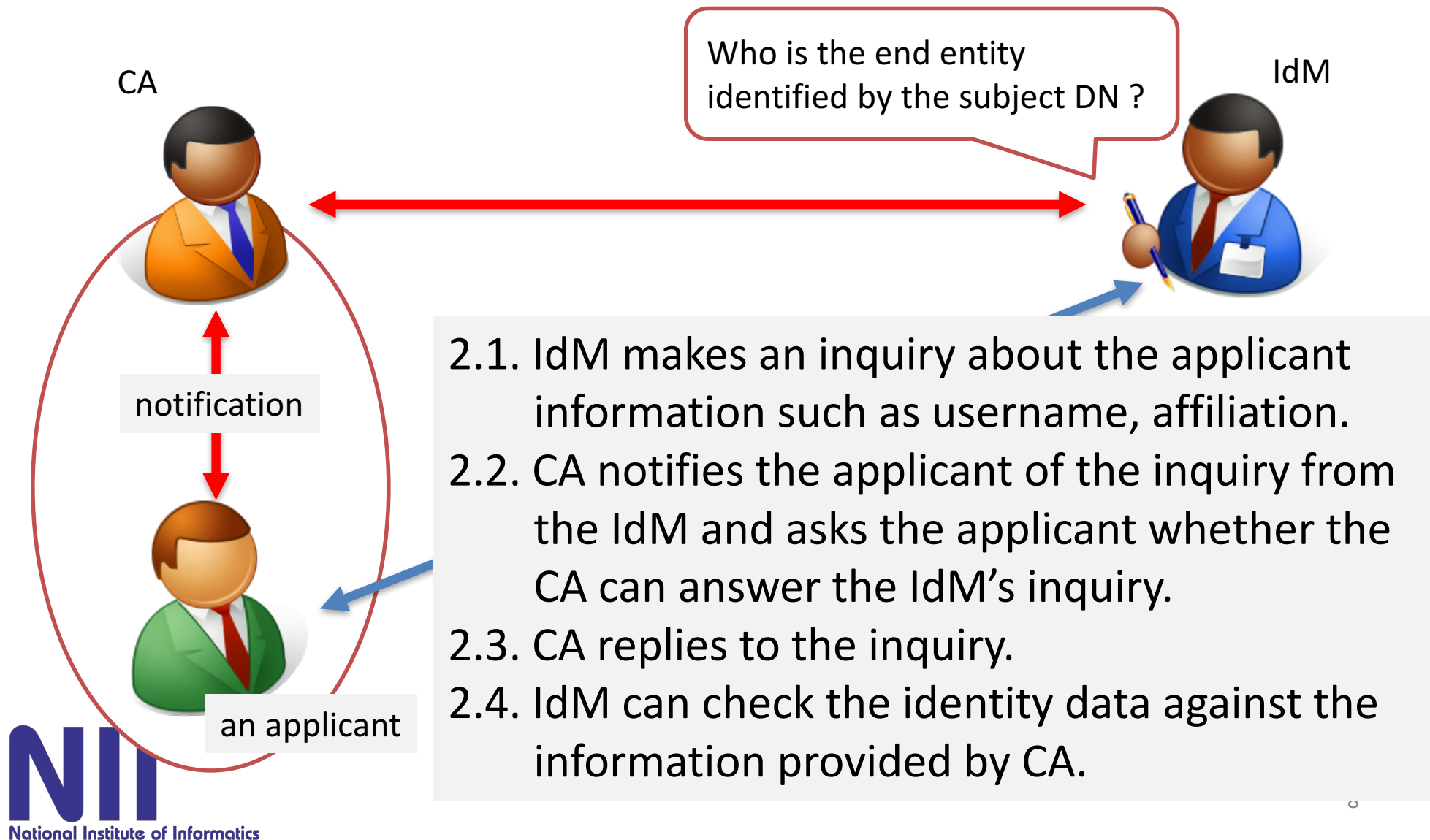


Challenge Response with PKI Credential



- 1.2. IdM does a challenge response to an applicant.
- 1.3. IdM keeps a record of the subject DN of the applicant.

Inquiry about the Applicant



Inquiry about the Applicant (cont'd)

- Why is the inquiry about the applicant needed ?
 - Necessary information cannot always be read from the subject DN.
 - Even if necessary information used in checking can be read from the subject DN, CA should notify the inquiry from the IdM and confirm that the inquiry is valid in the identity vetting by the IdM because the applicant is not in the presence of the personnel of the IdM.

Proposal

- To easily do remote initial vetting of identity and to promote more international computing resource use as well, could APGridPMA members consent to reply to an inquiry form an IdM ?
- The IdM that can make inquiries should be approved by APGridPMA.
- If you could agree,
- The inquiry process among IdM, CA, and applicant should be established and documented.

Video-supported Identity Vetting



Video-supported identity vetting

- Video-supported identity vetting guidelines
 - <http://wiki.eugridpma.org/Main/VettingModelGuidelines>
 - implement a remote identity vetting process with a video conference between an applicant and a verifier.
- We performed a demonstration experiment in the IGTf guidelines.
- We will make a report on the demonstration experiment in the future meeting.

