

CR T2-0129-URD

MIGRATION OF CERTIFICATE DN DATA INCLUDING NEW “PARTY” FIELD

T2-WG MEETING

09 APRIL 2024

UPDATED ON 20 NOVEMBER 2024

CR T2-0129-URD

- Change Request T2-0129-URD introduces some changes in the visibility and maintenance of Certificate DNs within CRDM.
 - **Before CR 0129**
 - Visibility: all DNs are visible to all users in the system
 - User Linkage: any DN can be linked to a User within the requestor's data scope
 - Update/Deletion: DNs can be updated and deleted (only if not linked to any User) by any User within the same System Entity
 - **With CR 0129**
 - Visibility: DNs are visible to the **responsible Party** as well as to any Party with at least one User linked to them
 - User Linkage: Parties different from the DN's **responsible Party** can link their Users to the DN by typing out the DN string in full
 - Update/Deletion: DNs can be updated and deleted (only if not linked to any User) by any User belonging to the **responsible Party** or the related CSD/CB.

CR T2-0129-URD

- The restrictions on certain operations require the introduction of a **responsible Party** concept, to be stored in a new database field and defined upon creation of any new DN.
- This also requires a migration activity to populate the new field for **all existing DNs**.
 - Approx. 4700 instances in EAC
 - Approx. 25000 instances in UTEST
 - Approx. 31000 instances in PROD
- Since the concept was not present before CR 0129, the Party to be associated to existing DNs is not always immediately evident; this presentation attempts to set a number of rules for the data migration activity that will be performed by the Service Operator.
- The migration activity will be performed together with the deployment of CR-0129 in each environment.

MIGRATION ACTIVITY

- Parties with Users currently linked to the DNs will not experience any significant change: they will continue being able to query the DNs they use and access the system using them.
- The population of the Party field will
 1. Restrict the **visibility** of the DNs to the responsible Party, the related CSD/CB, and any other Party with at least one User-DN Link to the specific DN
 2. Limit the possibility to **update and delete** the DNs to the responsible Party and the related CSD/CB; in any case, deletion will not be possible if one or more User-DN Links exist for the specific DN
- CR-0129 does not envision the Party field to be modifiable, so the value set as part of the migration procedure will not be modifiable by the users.
- **The following slides contain a set of principles to be agreed upon with L2 to determine the correct value for the Party field in all known cases.**

MIGRATION ACTIVITY

- General rule: the set of User-DN Links defined for a DN will determine the Party to be inserted in the new field according to the following relationship chain:

Certificate DN → User-DN Link → User → Party

- If the set of links for a DN leads to a single Party, the DN will be assigned to that Party.
- If more than one Party is found, the following priority rules will apply:
 1. User-DN Link to a **CSD** user
 2. User-DN Link to a **CB** user
 3. User-DN Link to a **level 3 Party** identified with the **BIC8 of a CSD**¹
 4. User-DN Link to a **level 3 Party** identified with the **BIC8 of a CB**¹

If more than one Party is found with the same level of priority, the **first still active one** among them to have been created in **chronological order** will be selected.

(1) In these cases the DN will be assigned to the corresponding Level 2 Party (i.e. CSD or CB)

MIGRATION ACTIVITY

- If no Party can be found applying the previous rules, the existence of a **DN-BIC Routing** referencing the DN will be checked following the chain represented below:

Certificate DN → DN-BIC Routing → Authorised Account User BIC → Cash Account → Owner Party

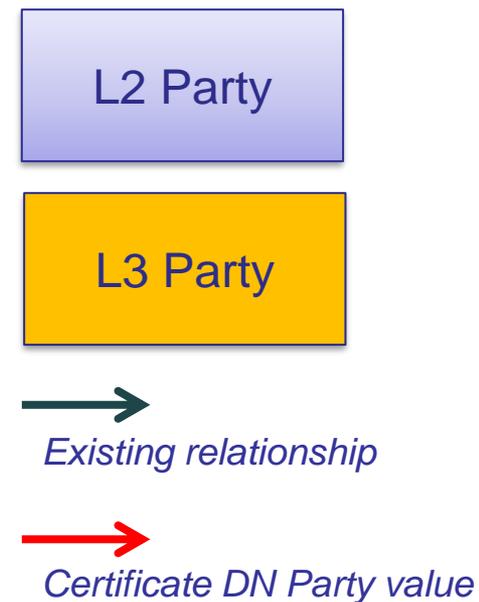
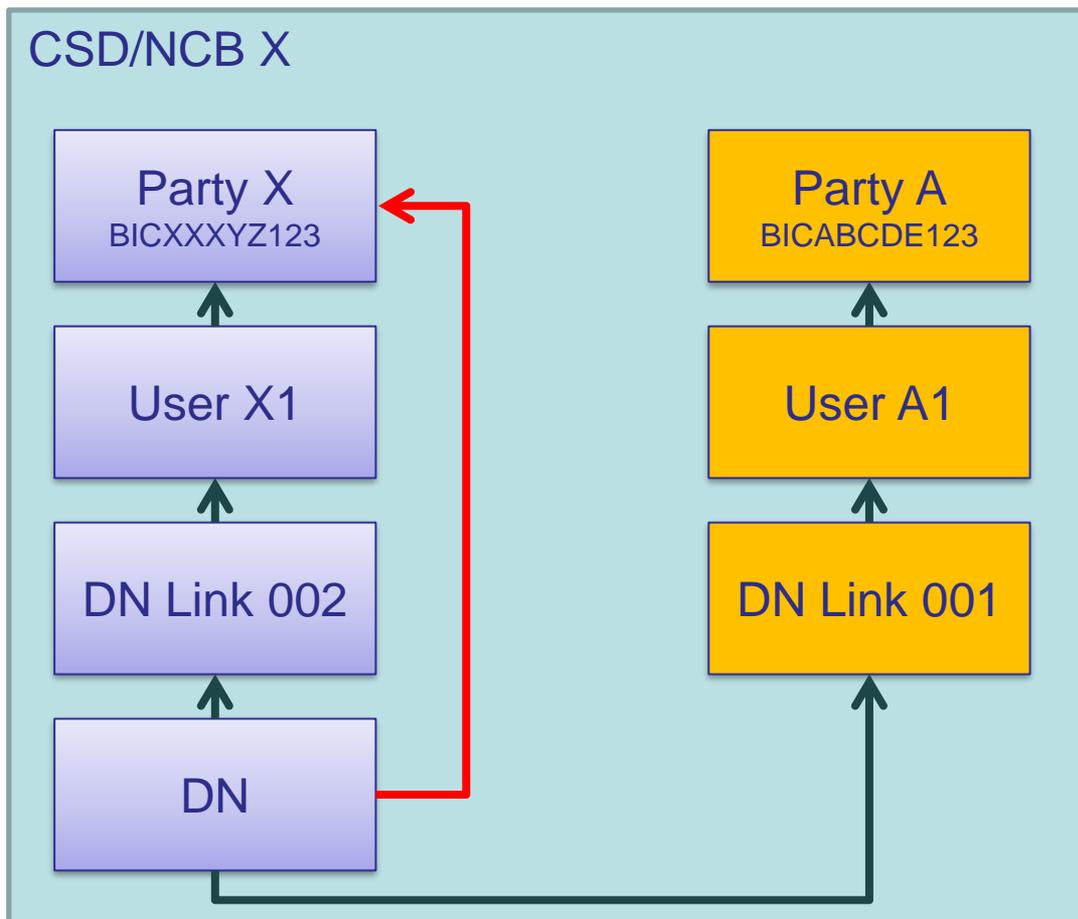
- If more than one DN-BIC Routing is found for the same DN, priority will be given to the oldest existing active instance.

MIGRATION ACTIVITY

- A Level 2 Technical Party exists for ECMS (BIC ECMSDEFFXXX). This will only be taken into account if no other Party is linked to the DN. This reflects a possible scenario post-ECMS go-live where a DN creation is requested directly by ECMS in CRDM.
- If a Certificate DN has no User-DN Links or DN-BIC Routings defined, or if all User-DN Links refer to Users and/or Parties that have been physically deleted, the DN itself will be **physically deleted**. This kind of DN is not used in the system and this operation will allow users to re-create the same DN strings in their own System Entity if needed.
- Ad-hoc assignments provided by the CSDs/CBs during the comment round will be taken into account, overriding other rules.

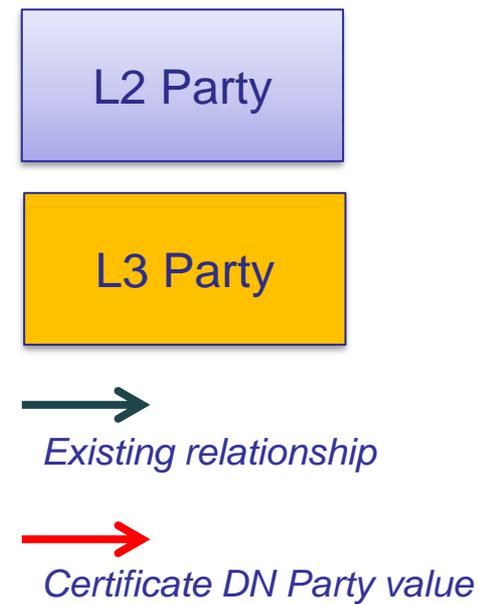
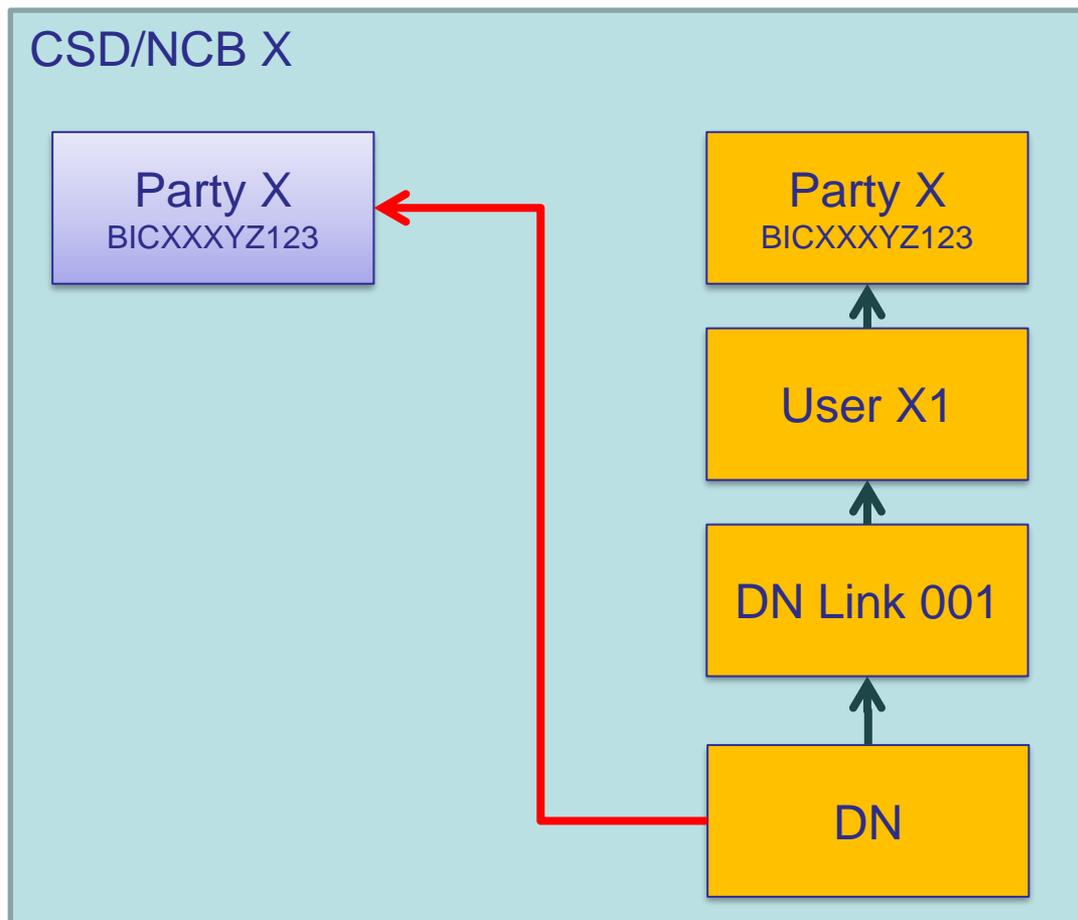
EXAMPLES

- 2+ DN Links in the same System Entity with one L2 Party: priority to the L2 Party



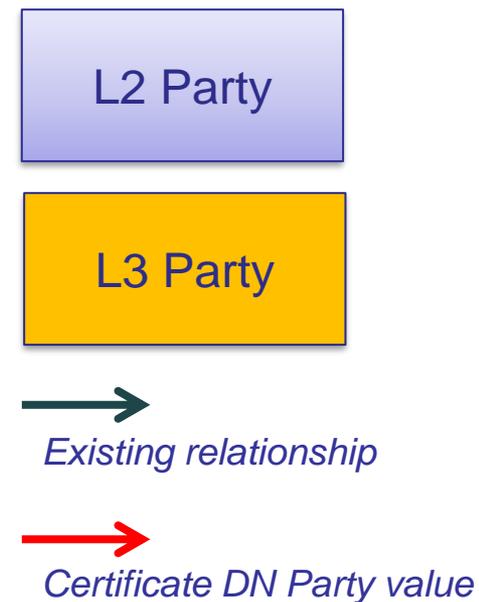
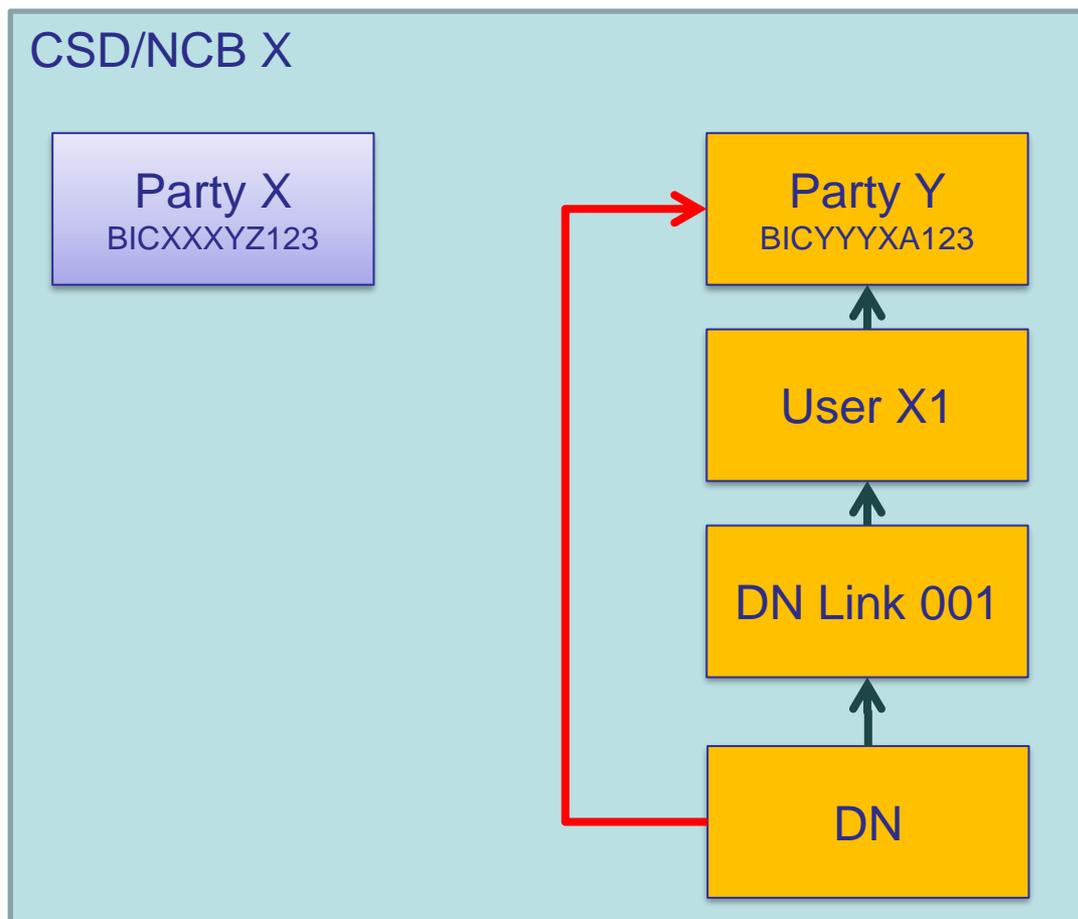
EXAMPLES

- 1 DN Link for L3 Party with same BIC of L2 Party: assigned to the L2 Party



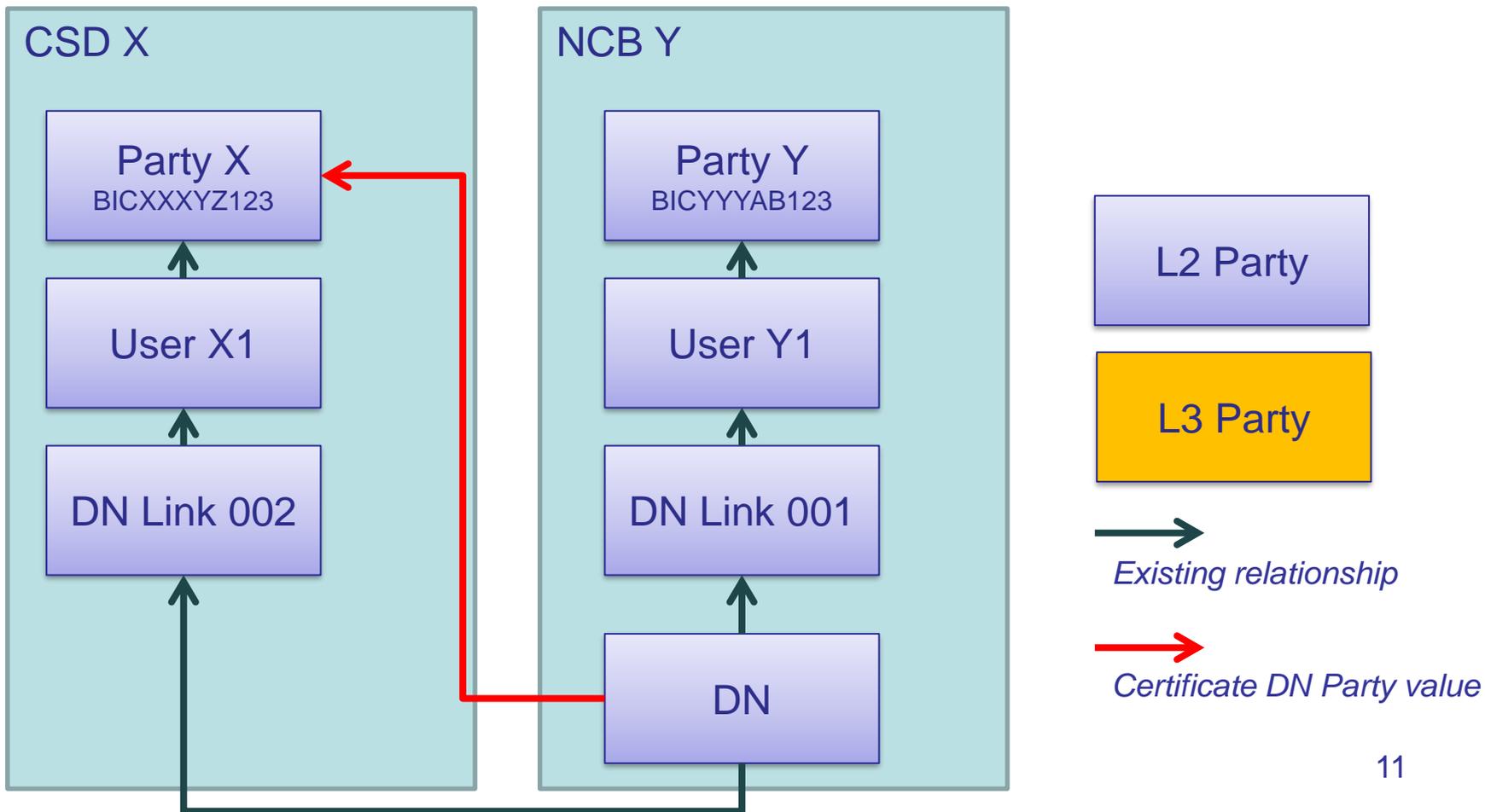
EXAMPLES

- 1 DN Link for L3 Party with non-CSD/CB BIC: assigned to the L3 Party



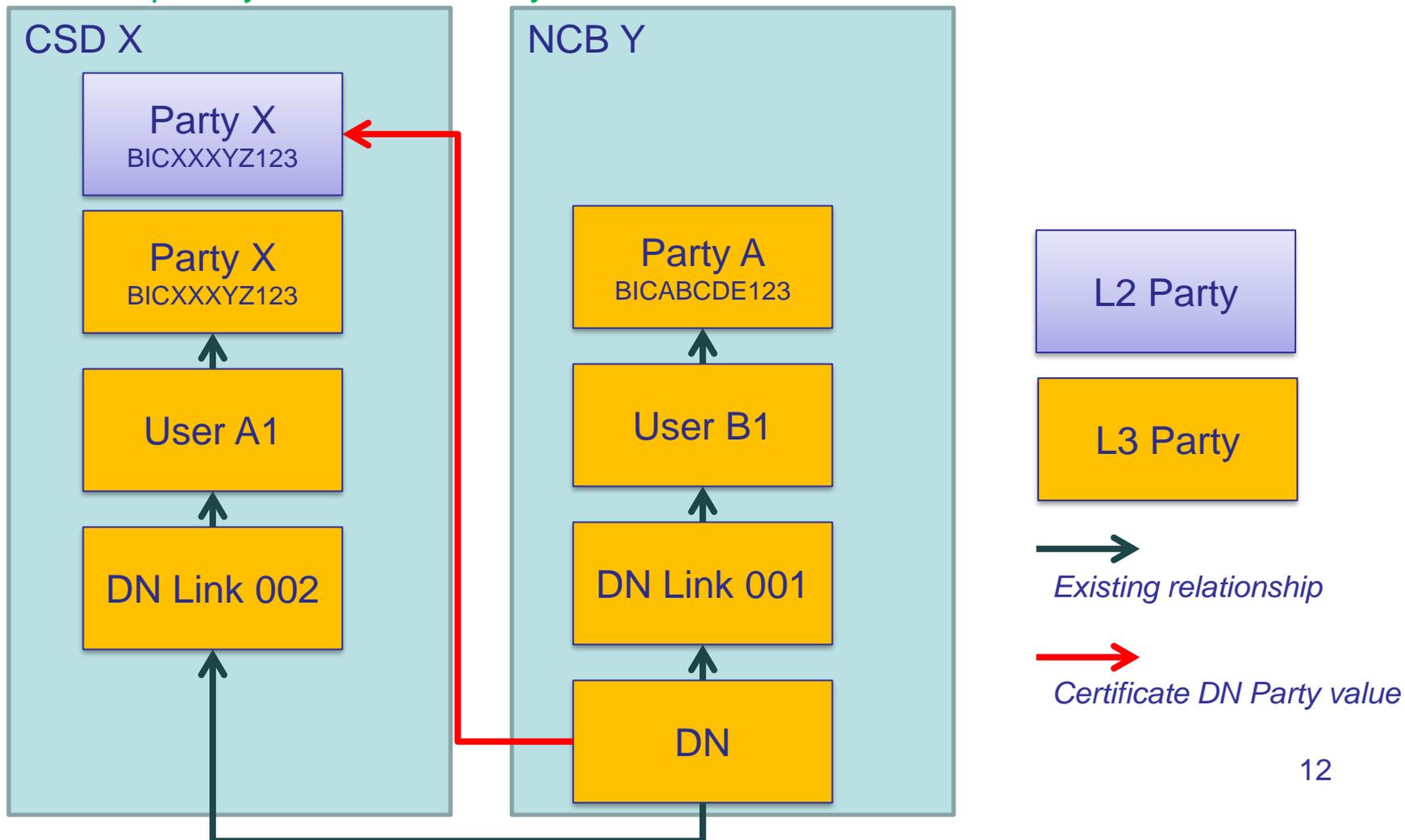
EXAMPLES

- 2+ DN Links for L2 Parties in multiple System Entities: priority to the CSD Party



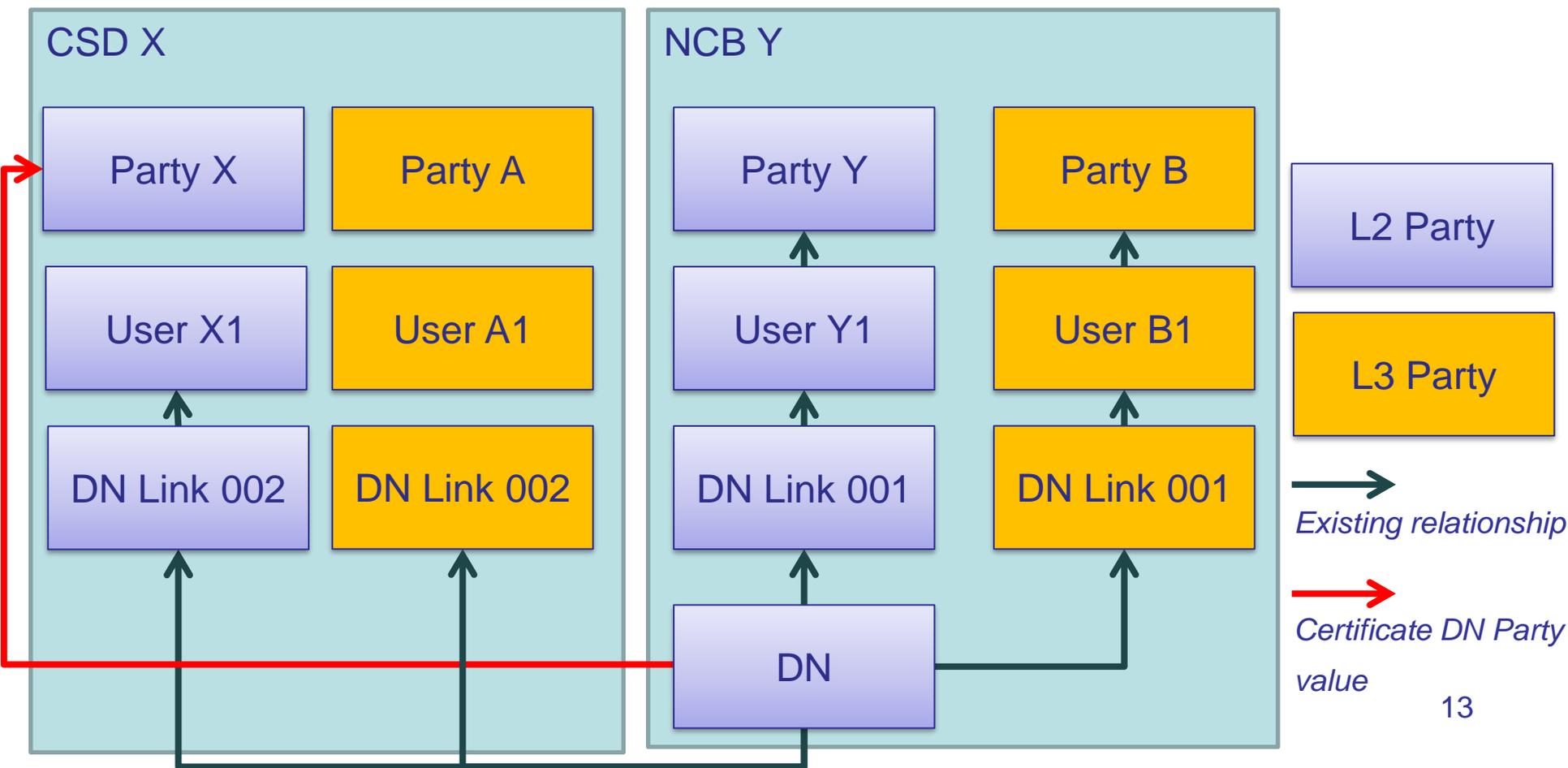
EXAMPLES

- 2+ DN Links for L3 Parties with the BIC of a CSD/CB in multiple System Entities: priority to the CSD Party



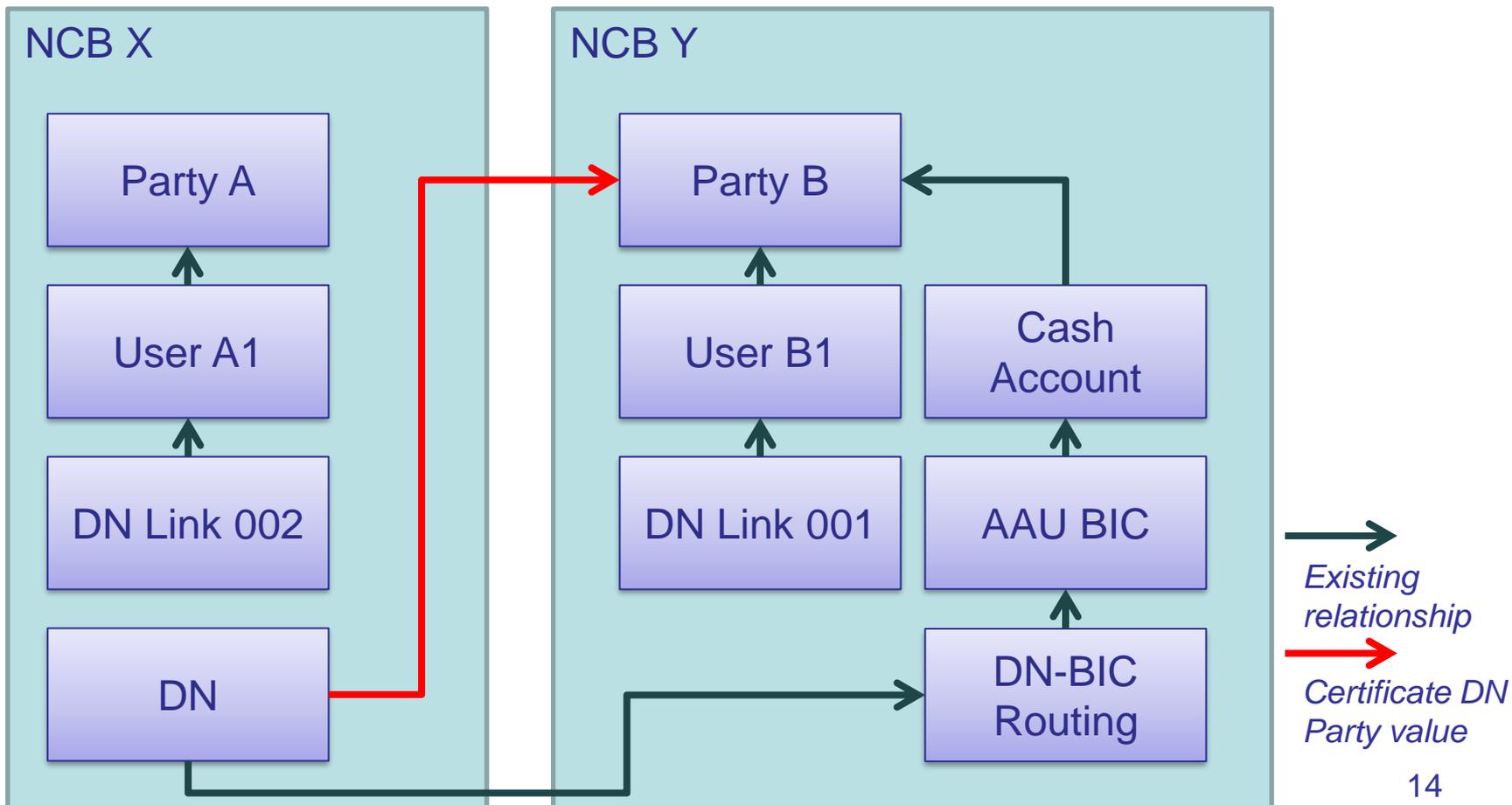
EXAMPLES

- 2+ DN Links in multiple L2/L3 Parties: priority to the CSD Party



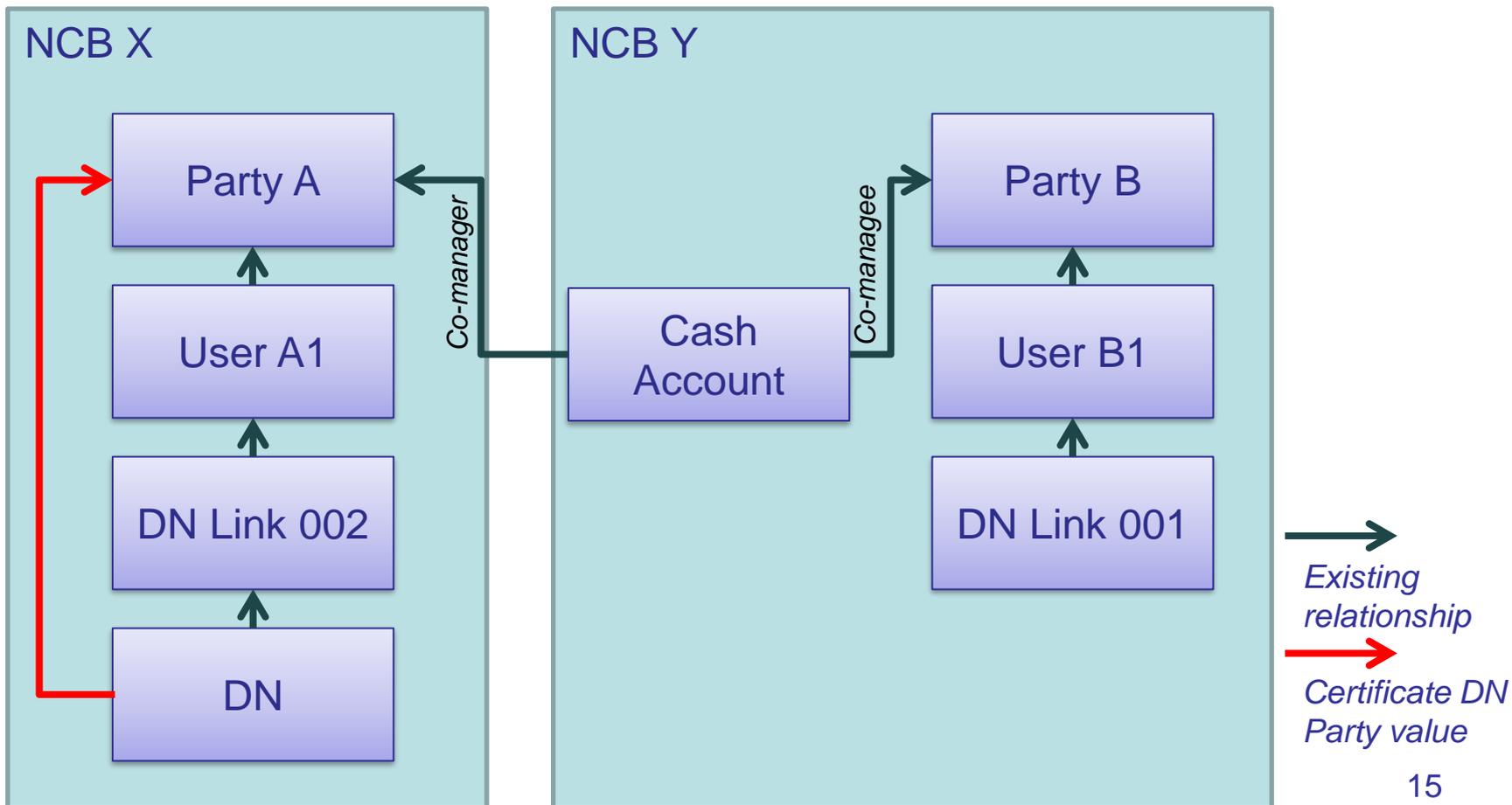
EXAMPLES

- DN without any links but referenced in a DN-BIC Routing



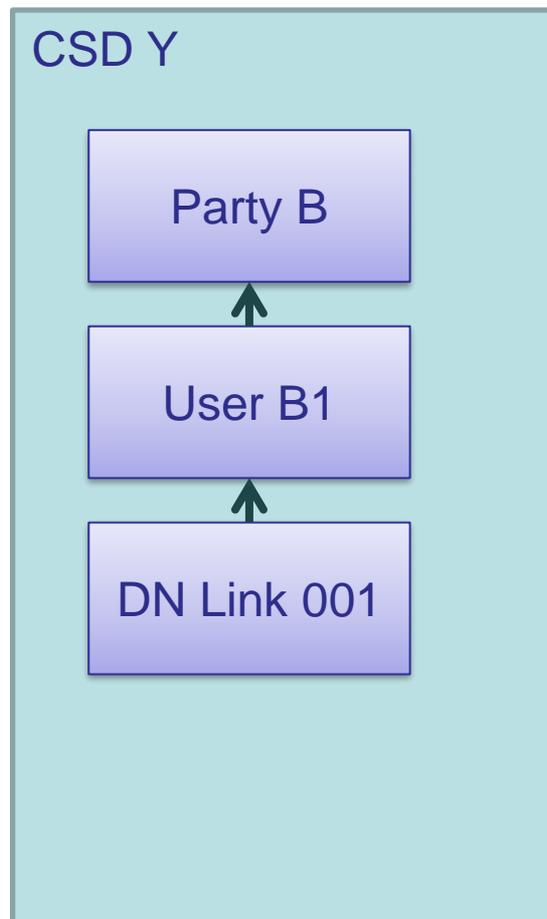
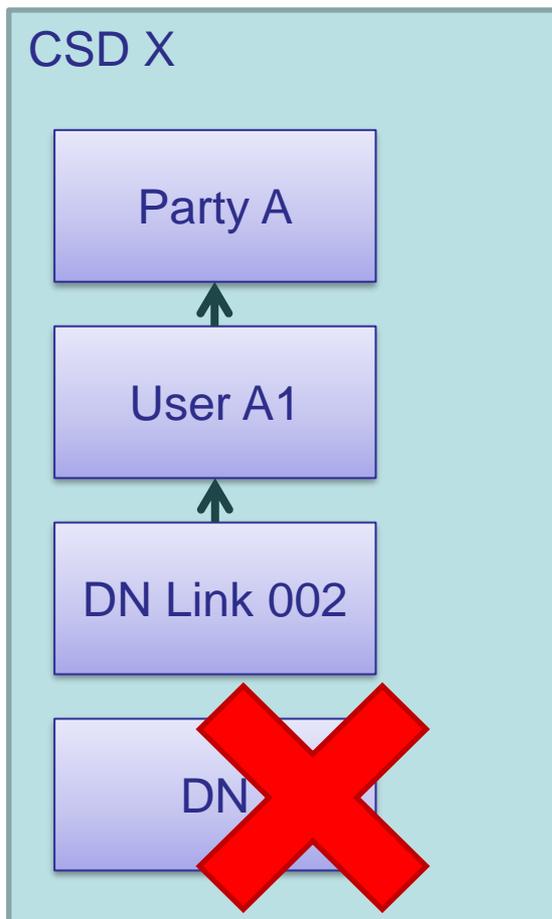
EXAMPLES

- Scenario with Co-Management: no special provision for co-managers or co-managees



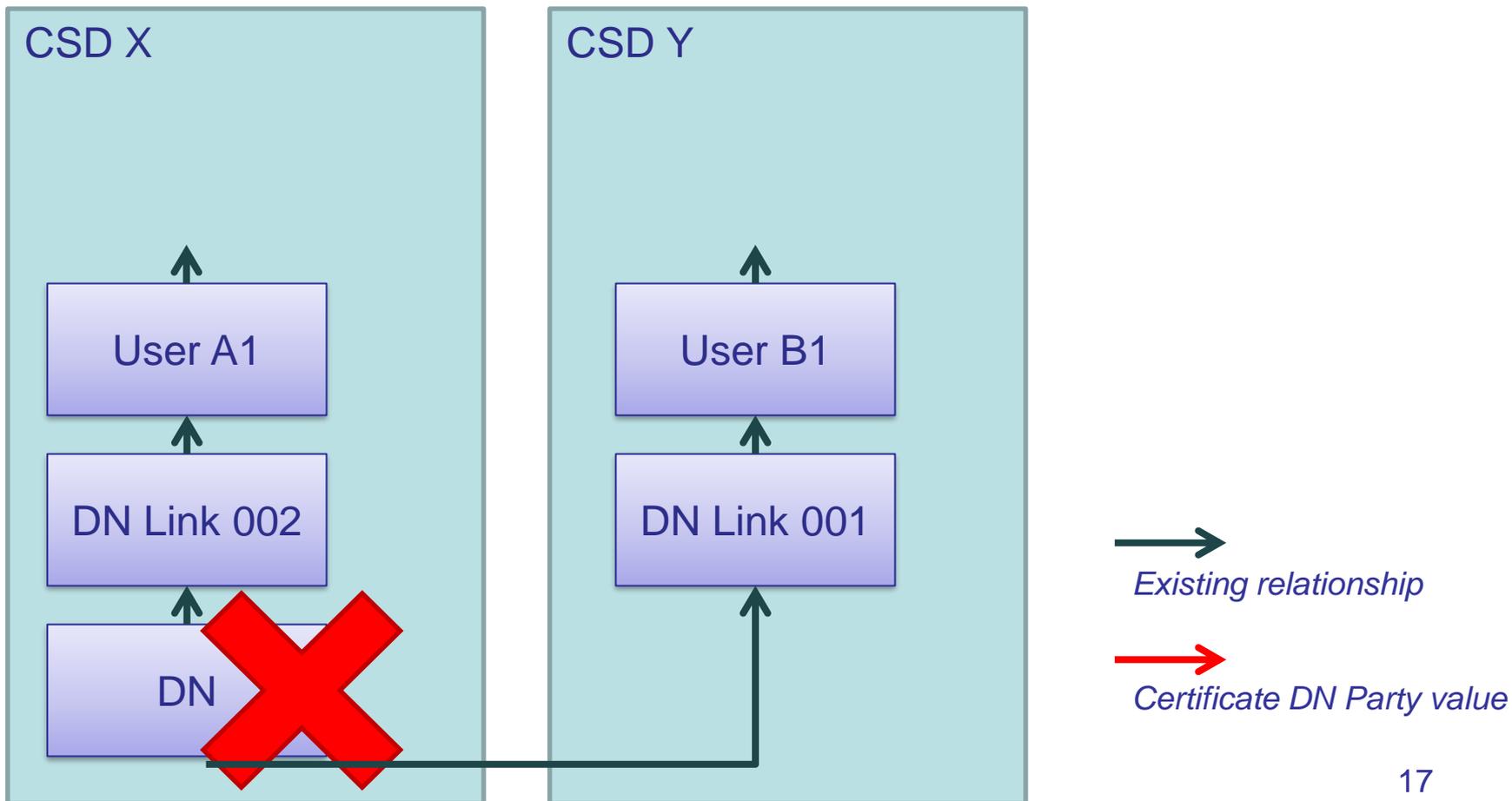
EXAMPLES

- DN without any links and no DN-BIC Routing: physical deletion



EXAMPLES

- DN with links only to physically deleted Parties and no DN-BIC Routing: physical deletion





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THANK YOU FOR YOUR ATTENTION