

Resolution in IDNA

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2008-06-26
ICANN Paris

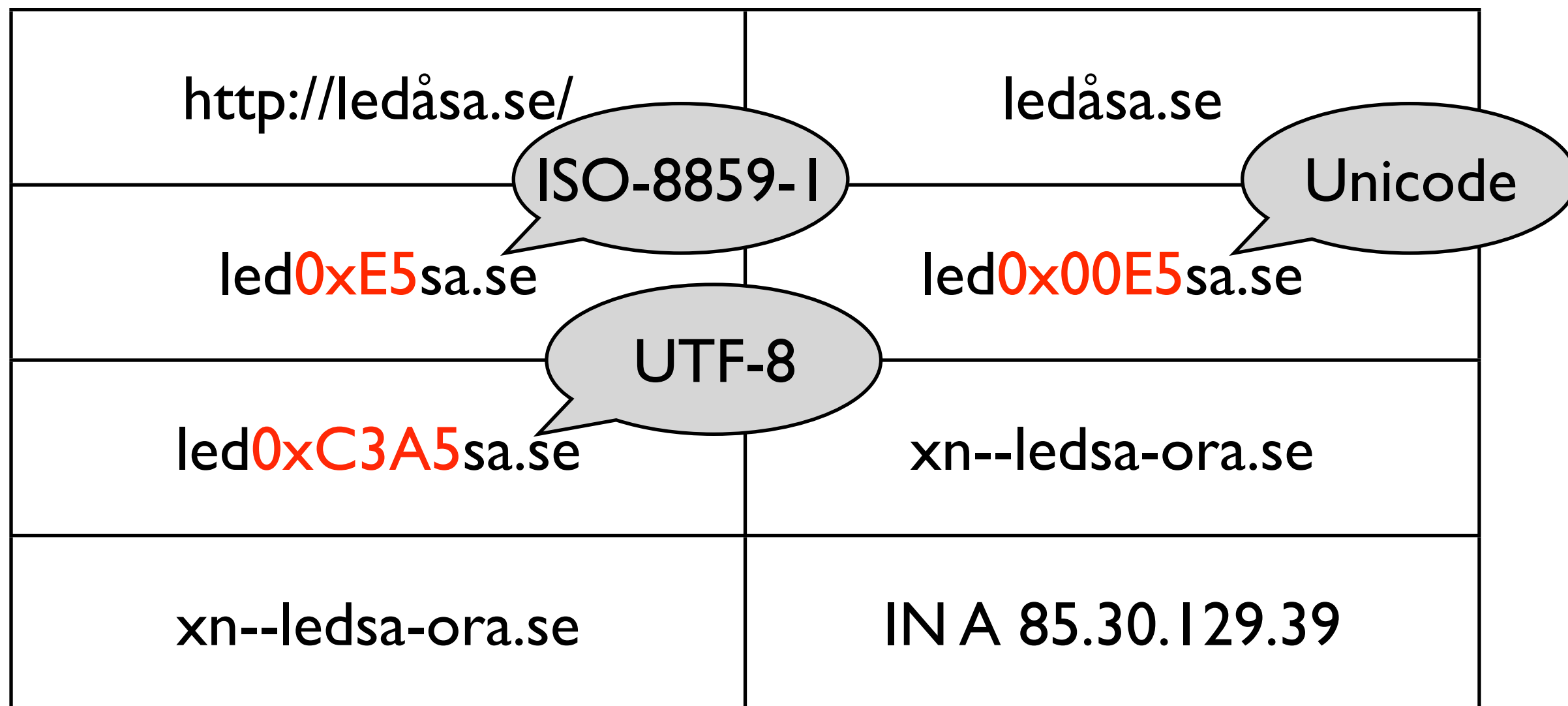
Resolution

- “Find” the domain name
- Convert to normalized Unicode
- Apply Punycode
- Do DNS lookup

Resolution (example)

http://ledåsa.se/	ledåsa.se
led0xE5sa.se	led0x00E5sa.se
led0xC3A5sa.se	xn--ledsa-ora.se
xn--ledsa-ora.se	IN A 85.30.129.39

Resolution (example)



“Find” the domain name

- Enter via keyboard
- Receive via email
- Link in webpage
- Mapping characters
 - Maybe o to . or ß to ss etc
- Extract domain name from IRI, Email etc

Convert to Unicode

- Local character set to Unicode
 - ISO-8859-1 to Unicode
- Non-normalized string to normalized
 - From U+0061 U+030A to U+00E5
 - From a^o to å
- Ensure that domain name is valid

Apply Punycode

- Function defined in RFC 3492
- ledåsa.se to xn--ledsa-ora.se

Do DNS lookup

- Lookup the domain name (xn--ledsa-ora.se) for the resource record type wanted
- `# dig xn--ledsa-ora.se a +short`
`85.30.129.39`

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