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# IDN Whois Challenges -- TWNIC's Case study

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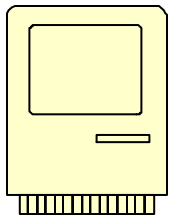
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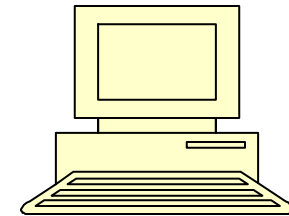
# whois/rwhois/whois++



Whois server

Data element:

- Domain-name
- Network-address
- Admin-name ...



Whois client

Whois (RFC954 - 1985)

Rwhois (RFC1714 - 1994)

Whois++ (RFC1834 - 1995)

- Whois++ and rwhois can support other language and charset
- Whois client is more popular then rwhois and whois++ client

# TWNIC WHOIS Current Elements

	Company/Organization Registrant		Individual Registrant	
	DB Element	Whois Display	DB Element	Whois Display
Domain Name	V	V	V	V
Company ID	V			
Company Name -- Chinese	V	V		
Company Name-- English	V	V		
Registrant ID	V		V	
Registrant Chinese Name	V		V	V (Option)
Registrant English Name	V	V	V	V
Registrant Company Address	V			
Registrant English Address	V	V		
Registrant Chinese Address			V	V (Option)
Registrant TEL	V	V	V	V (Option)
Registrant FAX	V	V		
Registrant E-mail	V	V	V	V
DN Application Date	V	V	V	V
DN Expire Date	V	V	V	V
DNS Record	V	V	V	V
Registrar	V	V	V	V

# Current ASCII-Whois Policy

## Domain Name Registration Agreement

TWNIC shall have the right, based on international Internet community practice and in consideration of public interests such as protection of consumers, protection of intellectual property rights, enforcement of laws etc., to establish a WHOIS database and to provide to the public through entry-specific online query the information (domain name, name, telephone number, fax number, e-mail address, of applicant, date of application, expiry date, DNS setup information), either in Chinese or in English, as provided by the Applicant and stored in the WHOIS database. To protect the privacy of the Applicant, TWNIC and the Registrar may appoint several items of information provided by Applicant, depending on whether or not the Applicant is an individual, such that the items are subject to public query under the consent of the Applicant.

# Chinese Variant Table

- Character for Registration (CR)
- TW Corresponding Character (TW)
- CN Corresponding Character (CN)
- Relevant Character (RC)

CR	TW	CN	RC
台	台	台	台檯臺臺颱
網	網	网	網网
中	中	中	中
心	心	心	心
....	....	....	.....

Chinese Variant Table => <http://cdns.twnic.net.tw/cjktable/ietf-draft/>

# Chinese IDN Registration Policy- Chinese IDN Example

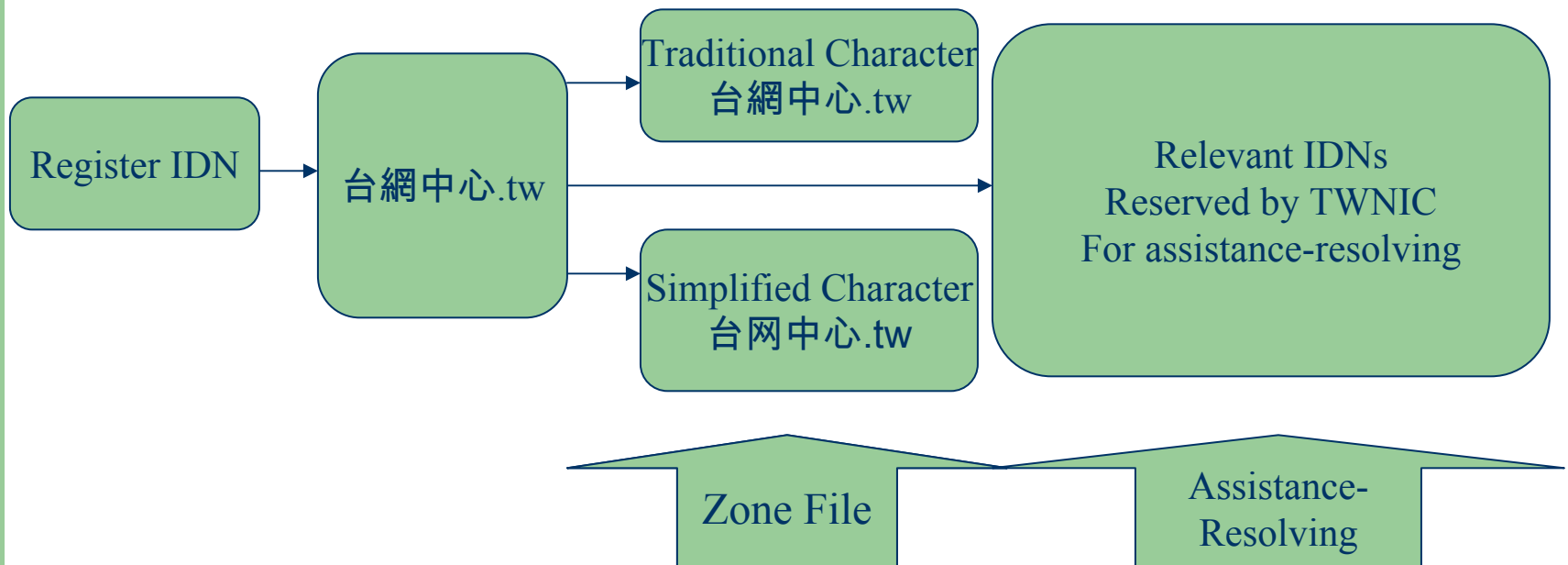
Original form : 台網中心.tw ( punycode : xn--fiq43lrrlz83a.tw )

Traditional form : 台網中心.tw ( punycode : xn--fiq43lrrlz83a.tw )

Simplified form : 台网中心.tw ( punycode: xn--fiq43lrrlfy5a.tw)

Relevant DN : 檯網中心.tw   檯网中心.tw   籐網中心.tw  
                   籐网中心.tw   臺網中心.tw   臺网中心.tw  
                   飈網中心.tw   飈网中心.tw

# IDN Registration Policy





## **IDN Registration Policy- (Cont.)**

- **Each registered Chinese Domain Name will be assigned the three domain names: (1) One original domain name, (2) One traditional character, and (3) One simplified domain name.**
- **Relevant domain names will be reserved by TWNIC for assistance-resolving not allowed others to register. But those who have a registered trademark and provide document can claim to apply reserved domain name (Exception Case).**

# IDN Whois Display

Query: 台網中心.tw

**IDN Package Information:**

Original form : 台網中心.tw ( punycode : xn--fiq43lrrlz83a.tw )

Traditional form : 台網中心.tw ( punycode : xn--fiq43lrrlz83a.tw )

Simplified form : 台网中心.tw (punycode: xn--fiq43lrrlly5a.tw)

Relevant DN : ( Following Relevant Character's Combinations)

台 檯 臺 颱

網 网

中

心

Exception Case: 颱網中心.tw

Regular Information:

.....

# IDN Whois Display - (Cont.)

## Exception Case Query:

**Query:** 颯網中心.tw

**IDN Package Information:**

Original form : 颯網中心.tw ( punycode : xn--fiqq24b10v24x.tw )

Traditional form : 颯網中心.tw ( punycode : xn--fiqq24b10v24x.tw )

Simplified form : No

Relevant DN : No

**Regular Whois Information:**

.....

# **IDN Registration Practices Challenges**

- **Character Variant Table**
- **Registry/Registrars Implementations**
  - **IDN-EPP support ( standard? )**
- **Registration policy**
- **Dispute Resolution Policy**

# **IDN Whois Challenges**

- Check variant table at Whois Query**
- Display IDN package elements**
- Handle exception case**
- Lack of IDN Whois standard**
- Query/Display with Punycode or other Encoding?**
- Depends on How to implement IDN Registration Policy?**

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**Thank You!**

