



gTLD

ICANN

gTLD

2007 10
(GNSO)

ICANN

gTLD

2008 6

ICANN

ICANN

<http://gns0.icann.org/issues/new-gtlds/>

2008 10 ICANN

gTLD

300

1200

GNSO

ICANN



ICANN

gTLD
gTLD

gTLD

Paul Twomey
CEO

2

gTLD





1

gTLD

(ICANN)

ICANN

gTLD

v2

<http://www.icann.org/zh/topics/new-gtlds/agv1-analysis-public-comments-18feb09-zh.pdf>

ICANN gTLD

<http://gnso.icann.org/issues/new-gtlds/>

RFP

1.1

<http://www.icann.org/en/topics/new-gtlds/interactive.htm>

1.1.1

[] UTC []

[] UTC []

ICANN

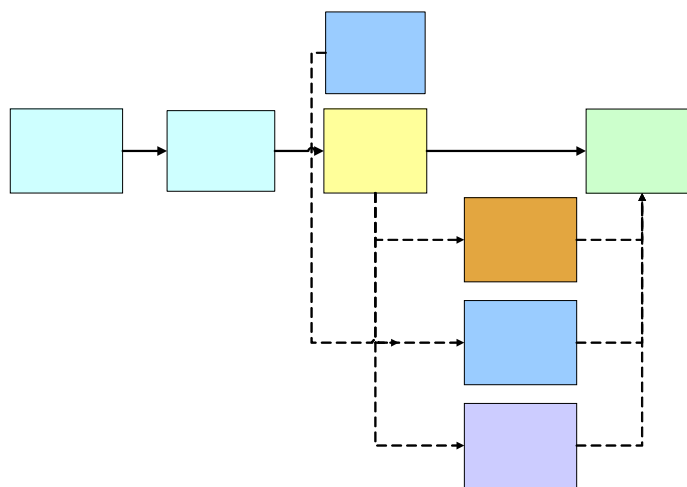
-
-
-

1.5

1.1.2

ICANN

1-1



1-1-

ICANN



1-2

gTLD

1.1.2.1

gTLD

1.2.3

1.5

ICANN

1.1.2.2

ICANN

-
-
-

ICANN

ICANN

<http://www.icann.org/zh/topics/new-gtlds/draft-evaluation-criteria-clean-18feb09-zh.pdf>

1.1.2.3



gTLD

1. gTLD gTLD DNS

2. gTLD

ICANN
ICANN

1.1.2.4

ICANN 1.1.2.2

3" (DRSP)
"

1.1.2.3

1.1.2.6

3

3

3

1.1.2.5



gTLD

DNS gTLD

ICANN

1.1.2.6

(DRSP)

ICANN

DRSP

3"

"

gTLD

1.1.2.7

gTLD

gTLD

gTLD

gTLD
ICANN

gTLD

2 2.1.1.4

1-2

A B C
A C

.EXAMPLE

B

B

C

C

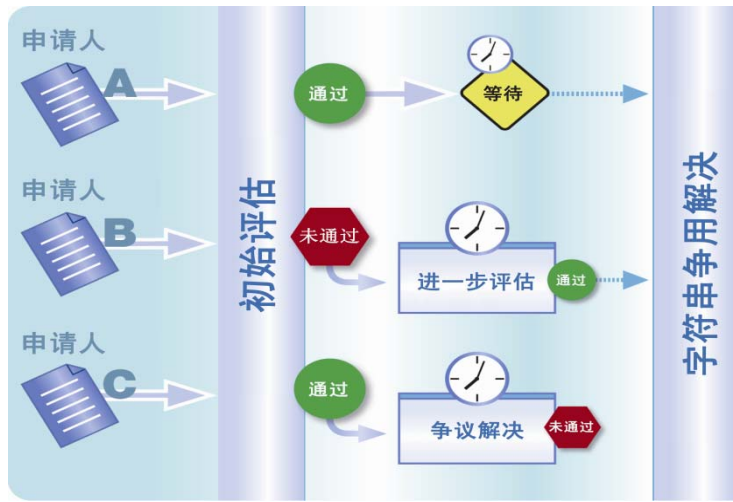
A

B C

B

C

A B



1-2 -

gTLD

1.1.2.8

1.1.2

gTLD

ICANN

gTLD

gTLD

ICANN

gTLD

DNS

1.1.3

ICANN

ICANN



gTLD

gTLD
 ICANN

gTLD
 1.1.2.2

ICANN

3"
DRSP

" ICANN

4"

" ICANN

ICANN

ICANN
 ICANN
 ICANN

gTLD

3

1.1.4

1	
2	
3	
4	
5	
6	
7	
8	
9	

1 — — gTLD

gTLD
2 — — 1

gTLD gTLD
3 — — gTLD



gTLD

4 —

—

3"

"

5 —

—

6 —

—

7 —

—

8 —

—

gTLD

gTLD

9 —

—

gTLD

—

gTLD

ICANN

5

1.1.5

1

ICANN

gTLD

1.2

1.2.1

gTLD

1.2.2

¹ ICANN

ICANN

ICANN



gTLD

1.2.2.1

2

gTLD

gTLD

4 4.2

gTLD

1.

2.

gTLD

3.

gTLD

4.

gTLD

gTLD

gTLD

1.2.2.2

/ —

TLD

3"

"

2

" " " " " " " "

ICANN

" "



gTLD

—

4 4.1

4" "

— gTLD

<http://www.icann.org/zh/topics/new-gtlds/draft-agreement-clean-18feb09-zh.pdf>

gTLD

gTLD
ICANN

gTLD

1.2.2.3

gTLD

1.2.3

gTLD

1. —

2. —

1

2

/

3.

ICANN

ICANN

4.

5.

gTLD

- 1. —
- 2. — gTLD
- 2.1.1.4
- 3. —

1.2.4 *gTLD*

ICANN
 gTLD
 gTLD ICANN

ICANN

ICANN

<http://www.icann.org/en/topics/TLD-acceptance/> IDN IDN
<http://idn.icann.org/>

1.2.5

RFP 6



1.2.6

ICANN

ICANN

1.3

	gTLD			(IDN)
DNS		IDN	A	IDN
LDH	a	z	0 9	"_"

IDNA

IDNA

<http://www.icann.org/en/topics/idn/rfcs.htm>

U

A

gTLD

A

IDNA

ASCII

A

IDNA ACE

"xn--"

Punycode

59

ASCII

DNS

RFC 1034

RFC 1123

LDH

U

IDNA

Unicode

ASCII

Unicode

UTF-8

IDN

U

<испытание>

A

<xn—80akhbyknj4f>

A

U

U

A

IDN gTLD



gTLD

- 1.
2. (ISO 639-1) ISO
TLD
3. (ISO 15924) ISO
gTLD
4. Unicode U Unicode
5. IDN IDN " "
TLD
IDN IANA
<http://iana.org/domains/idn-tables/>
<http://iana.org/procedures/idn-repository.html>
6. IDN IDN
7. IDNA IDNA
<http://www.icann.org/en/topics/idn/rfcs.htm>
IDN wiki <http://idn.icann.org/>
7. []—
(<http://www.arts.gla.ac.uk/IPA/ipachart.html>)
gTLD
ICANN

1.4



gTLD

ICANN TLD (TAS)

TAS

100

TAS

TAS

ICANN

TAS

ICANN

1.4.1 TLD

TAS [URL]

TAS

1.4.1.1

TAS

1.4.1.2

ICANN

TAS

TAS

(SSL) —

SSL

TAS SSL

TAS

TAS

— TAS

ICANN

ICANN



1.4.2

TAS / []
24 48 TAS

1.4.3

ICANN

1.5

1.5.1

- *TAS* — 100
- *gTLD* — 185,000 ICANN
gTLD gTLD 1.5.4
gTLD gTLD
ICANN
ccTLD RIR
1.5.5
2000 — 2000
ICANN
86,000
•
2000

gTLD

• 2000
TLD

• —
RSTEP

RSTEP 50,000

2.1.3 3

• —

ICANN
1,000 5,000

3

• —

gTLD

ICANN

2,000 8,000

ICANN

32,000 56,000

70,000 122,000

3 3.2

• —

4

4.2

ICANN

<http://www.icann.org/zh/topics/new-gtlds/draft-agreement-clean-18feb09-zh.pdf>

1.5.2

ACH

ICANN

1.5.2.1

TAS

1.5.2.2 ACH

ACH

TAS



1.5.2.3

ICANN Visa MasterCard/Maestro American Express
Discover
20,000

☒ <http://www.icann.org/en/financials/credit.pdf>

☒ ICANN
+1.310.823.8649

Internet Corporation for Assigned Names and Numbers
(ICANN)
Finance Department
4676 Admiralty Way Suite 330
Marina del Rey CA 90292-6601 USA

1.5.2.4

Internet Corporation for Assigned Names and Numbers
(ICANN)
Finance Department
4676 Admiralty Way Suite 330
Marina del Rey CA 90292-6601 USA

1.5.3

TAS ICANN

1.5.4

[] UTC []

ICANN



gTLD

1.5.5

1.5.1

gTLD

	70%	130,000
	35%	65,000
	20%	37,000

20%

TAS

ICANN

1.6

[

]

ICANN

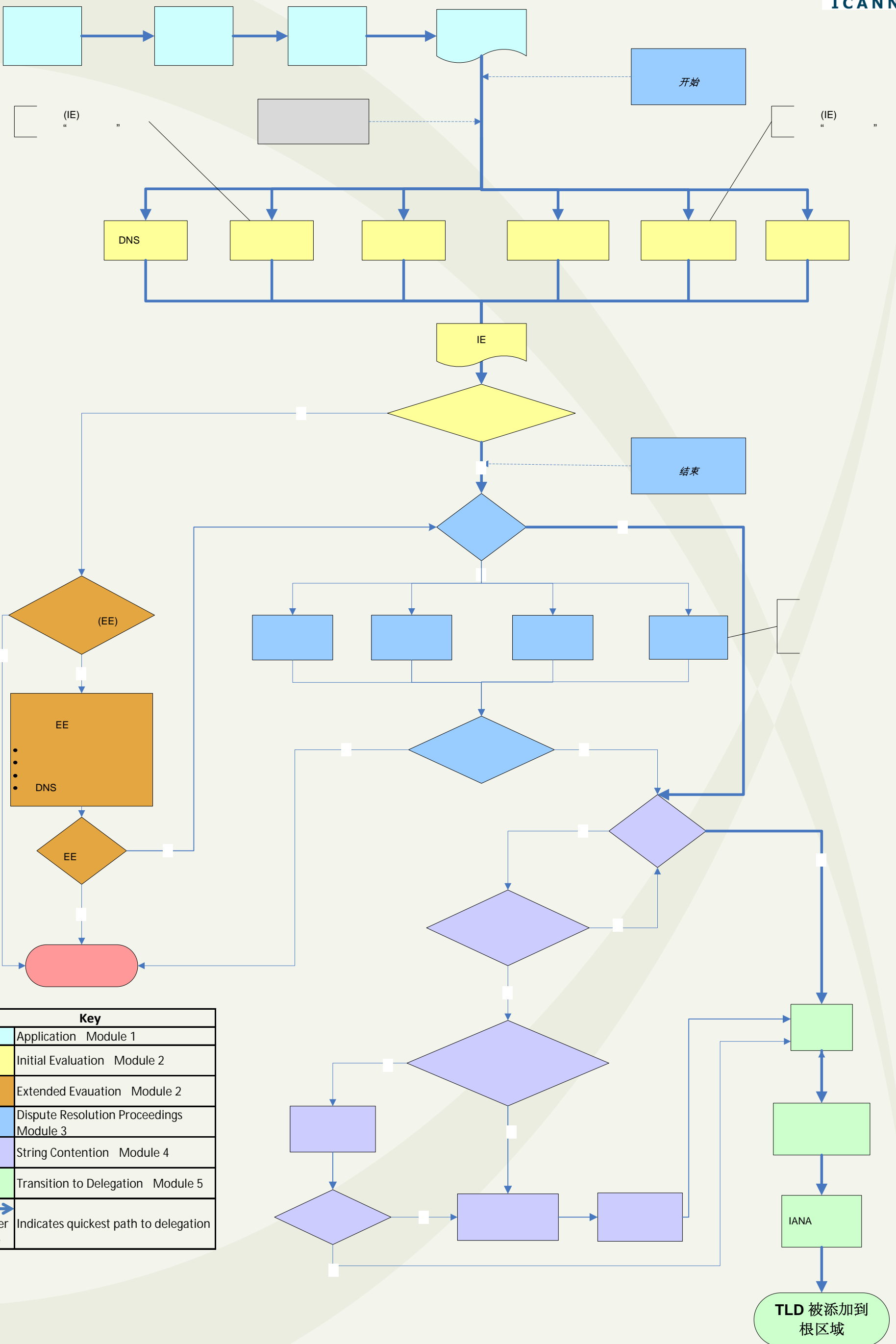
ICANN

ICANN

ICANN

ICANN

草案 — 新 gTLD 方案 — 评估流程



Key	
	Application Module 1
	Initial Evaluation Module 2
	Extended Evaluation Module 2
	Dispute Resolution Proceedings Module 3
	String Contention Module 4
	Transition to Delegation Module 5
	Indicates quickest path to delegation

gTLD

ICANN

gTLD

- - §
 - §
 - § DNS
 - §
- - §
 - §
 - §

2.2

2.1

- gTLD
- gTLD DNS
-
-
- DNS

2.1.1

ICANN gTLD

2.1.1.1

gTLD DNS TLD gTLD
gTLD

3"

"

TLD

—

- gTLD TLD
- gTLD gTLD
- gTLD IDN ccTLD

TLD —
TLD

TLD

<http://iana.org/domains/root/db/>

TLD

TLD

TLD

TLD

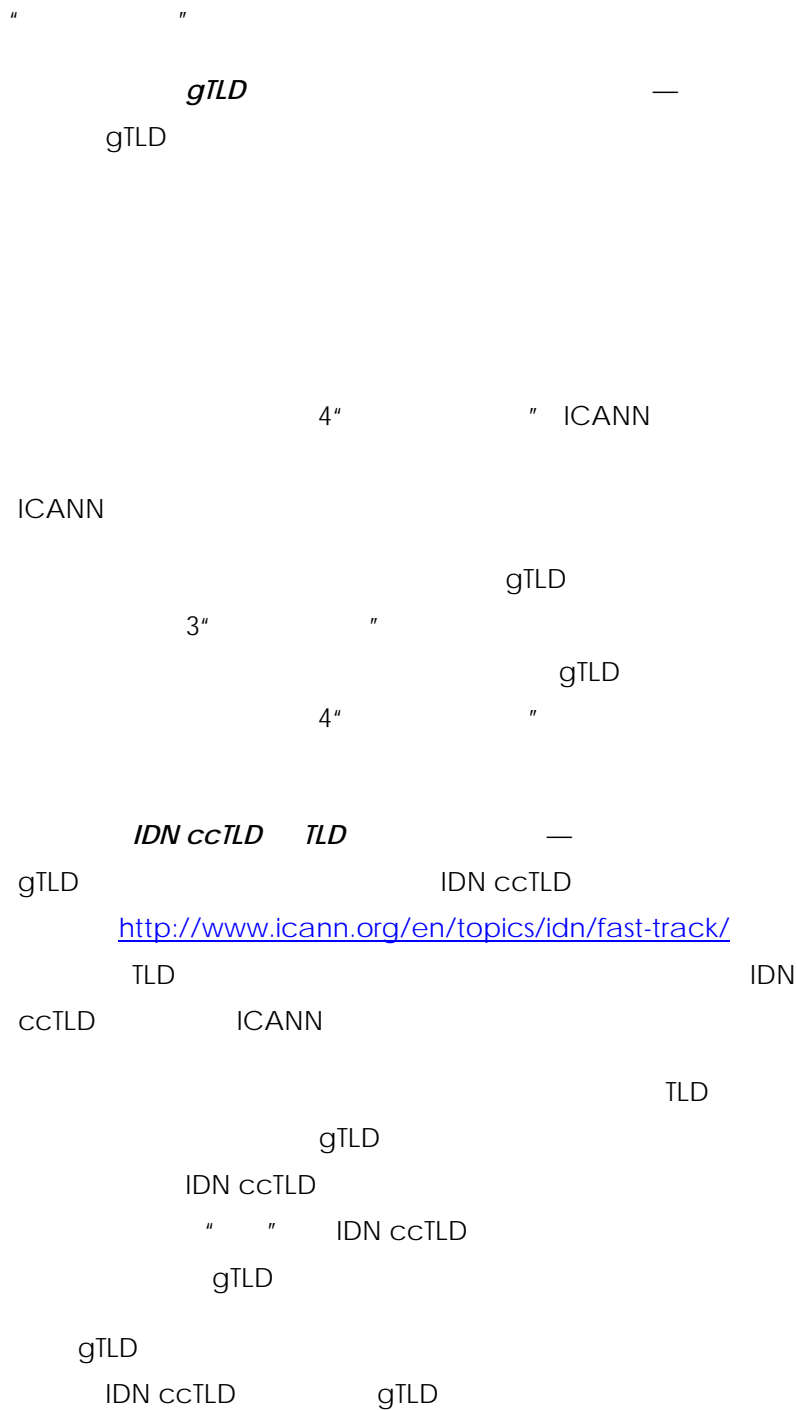
"foo" "Foo"

(RFC 3490)

TLD

gTLD





gTLD ccTLD

— " "

<http://icann.sword-group.com/icann-algorithm/>

" "

1

"E-X-A-M-P-L-E"

"EXAMPLE"

2.1.1.2

gTLD

2

<i>AFRNIC</i>	<i>IANA-SERVERS</i>	<i>NRO</i>
<i>ALAC</i>	<i>ICANN</i>	<i>RFC-EDITOR</i>
<i>APNIC</i>	<i>IESG</i>	<i>RIPE</i>
<i>ARIN</i>	<i>IETF</i>	<i>ROOT-SERVERS</i>
<i>ASO</i>	<i>INTERNIC</i>	<i>RSSAC</i>
<i>CCNSO</i>	<i>INVALID</i>	<i>SSAC</i>
<i>EXAMPLE*</i>	<i>IRTF</i>	<i>TEST*</i>
<i>GAC</i>	<i>ISTF</i>	<i>TLD</i>

¹ ICANN

gTLD

/

²

ICANN

ICANN

gTLD

ICANN

ICANN

GNSO

ICANN

<http://www.icann.org/zh/topics/new-gtlds/agv1-analysis-public-comments-18feb09-zh.pdf>

http://www.icann.org/zh/topics/new-gtlds/agv1-analysis-public-comments-18feb09-zh.pdf



<i>GNSO</i>	<i>LACNIC</i>	<i>WHOIS</i>
<i>GTLD-SERVERS</i>	<i>LOCAL</i>	<i>WWW</i>
<i>IAB</i>	<i>LOCALHOST</i>	
<i>IANA</i>	<i>NIC</i>	
* ICANN		"test" "example"

gTLD

gTLD
gTLD

2.1.1.3 DNS

gTLD

DNS
gTLD

gTLD

2.1.1.3.1 DNS

gTLD

DNS

ICANN

gTLD

-

gTLD

2.1.1.3.2

-

2.1.1.3.2

gTLD

gTLD

ICANN

15



2.2

2.1.1.3.2

ICANN

gTLD

gTLD

—

- ASCII

(RFC1035)

DNS

(RFC 2181)

-

63

IDN

U

Punycode

IDNA2008 A

(xn--)

-

- ASCII

DOD

(RFC 952)

—

(RFC 1123)

(RFC 3696)

-

-

- ASCII

IP

"255" "o377"

255

"0xff"

255



IP 3 ASCII

- o "0" "9"
- o "0" "x | X"
- "a | A" "f | F" "0" "9"
- o "o | O" "0" "7"

- ASCII A ASCII

- ASCII U

— ASCII
IETF IDNA

Unicode

- (RFC 3490)

IETF

IDN

IDNA

- o *Unicode IDNA*
(<http://www.ietf.org/internet-drafts/draft-ietf-idnabis-tables-05.txt>) " "
- " " Unicode
- " "

3

<http://www.icann.org/zh/topics/new-gtlds/update-dns-stability-18feb09-zh.pdf>



- o Unicode 15
Unicode " C"

<http://unicode.org/faq/normalization.html>

- o IDNA
Unicode

- ICANN
<http://www.icann.org/en/topics/idn/implementation-guidelines.htm>

- o 24 Unicode

IDNA

<http://tools.ietf.org/wg/idnabis>

4

⁴ ICANN

gTLD

<http://www.icann.org/zh/topics/new-gtlds/agv1-analysis-public->



2.1.1.4

ICANN gTLD /

ICANN

2.1.1.4.1

- ISO 3166-1 http://www.iso.org/iso/country_codes/iso_3166_databases.htm

_____ /

/

/

o /

o / /

o /

/

- _____ ISO 3166-2 ⁵

comments-18feb09-zh.pdf

ICANN

⁵ ICANN ISO 3166-1 2 gTLD 3166-2 3166-1
 Jon Postel ISO
 ccTLD ISO 3166-2 ICANN



- ISO 3166-1

/ /

- gTLD

- " "

<http://unstats.un.org/unsd/methods/m49/m49regin.htm>

/

gTLD

- gTLD

-

-

3 3.1.1

2.1.1.4.2

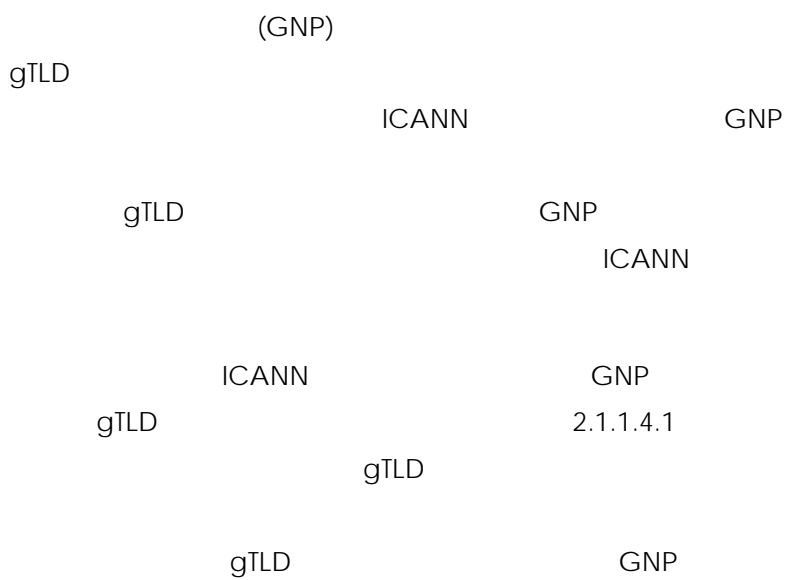
ICT

ICANN ICANN



gTLD
ICANN

2.1.1.4.3



GNP
gTLD

2.1.2

gTLD 2.1.1
 ICANN

2.1.2.1 /

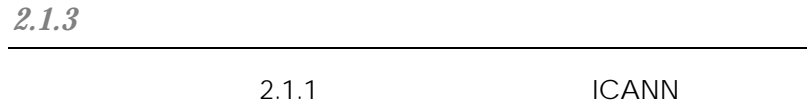
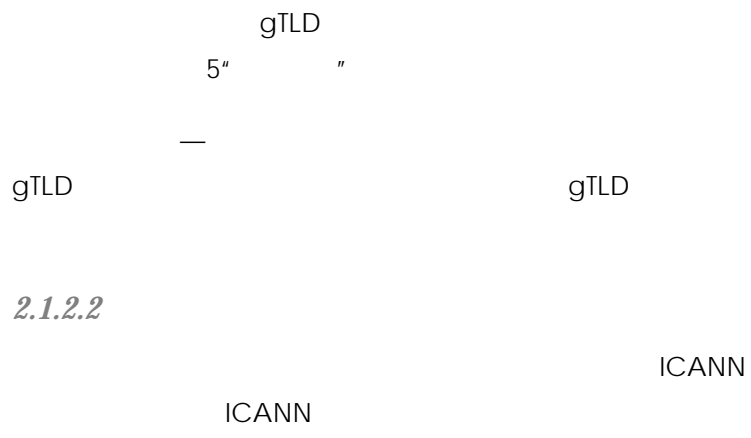
<http://www.icann.org/zh/topics/new-gtlds/draft-evaluation-criteria-clean-18feb09-zh.pdf>

ICANN " "
 ICANN " "

—
 gTLD

—
 gTLD

gTLD



6

TLD

TLD

2.

3.

<http://www.icann.org/en/registries/rsep/>

<http://www.icann.org/en/registries/agreements.htm>

<http://www.icann.org/zh/topics/new-gtlds/draft-agreement-clean-18feb09-zh.pdf>

ICANN

DNS

RSTEP

<http://www.icann.org/en/registries/rsep/rstep.html>

2.2

—

(1)

(2)

—

(1)

IETF

RFC

(2)



RFC

2.1.4

1 1.5.5

2.2

- 2.1.2.1
- 2.1.2.1
- DNS — 2.1.1.3
- DNS — 2.1.3

1 1.5

15
ICANN

2.2.1

2.1.2.1



<http://www.icann.org/zh/topics/new-gtlds/draft-evaluation-criteria-clean-18feb09-zh.pdf>

7

ICANN

2.2.2 DNS

—

gTLD

DNS

2.1.1.3

ICANN

7

ICANN



2.2.3

2.1.3

(RSTEP)

RSTEP

3

3

30 45

5

5

45

RSTEP

1

1.5

ICANN

RSTEP

RSTEP

ICANN

RSTEP

gTLD

15

ICANN

2.3

ICANN

ICANN



草案 — 新 gTLD 计划 — 初始评估和进一步评估

