



Pre-Delegation Testing

Whois CLI Test Cases

Version **PF9 (draft)**

Författare

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2013-01-22	PA4	Rickard Bellgrim	The response data will be collected automatically, but it needs to be reviewed by the Test Officer.
2013-01-24	PA5	Rickard Bellgrim	Update text
2013-02-06	PA6	Rickard Bellgrim	Update test cases after meeting with ICANN
2013-02-10	PA7	Rickard Bellgrim	Update checks on Whois data
2013-03-03	PA8	Rickard Bellgrim	No IP is required as input data; the IP will be resolved using the delegation data from the DNS tests. Check EPP keywords.
2013-03-10	PA9	Rickard Bellgrim	Add DnsGlueRecord as input data
2013-04-08	B	Staffan Hagnell	Delivery D2 for production
2013-05-03	C	Amar Andersson	Released
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2013-07-01	D	Mats Dufberg	Released.
2014-01-17	E	Jan Sandström	Replaced warn instructions with SHOULD criteria.
2015-07-16	PF1-PF8	Lennart Bonnevier, Mats Dufberg	<u>Aligned PDT requirements to the Whois response formats defined in the Registry Agreement and the Advisory dated 2015-04-27.</u> <u>IPv4 and IPv6 CLI TC are merged. All addresses are to be tested.</u> <u>Added statements on character encoding.</u> <u>Added explicit criteria for PASS, WARN and FAIL.</u> <u>Added FAIL on characters outside Unicode or file not compatible with declared encoding.</u>
2015-07-16	PF9	Mats Dufberg	<u>Document prepared for public comments.</u> <u>This is still a draft version.</u>

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1. Introduction

1.1 Scope

The Pre-Delegation Testing Provider will test the Whois service over port 43 (Whois) and 80/443 (HTTP/HTTPS), and verify the response format.

The test cases in this document focus on the Whois service over port 43.

1.2 References

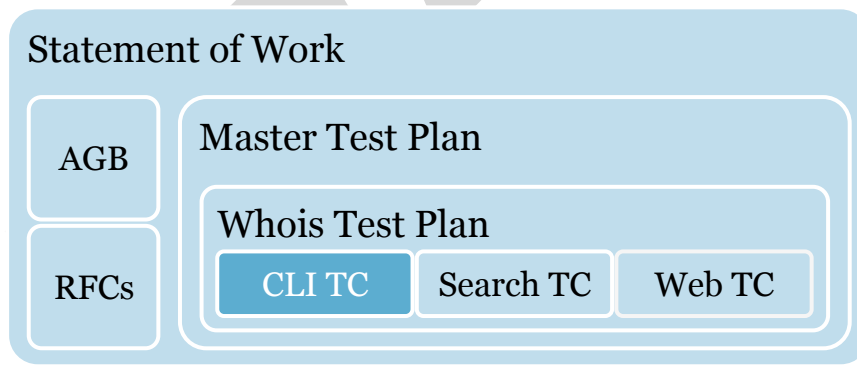
1.2.1 External

- IEEE 829-2008
- ICANN gTLD Applicant Guidebook, Version 2012-06-04
- [Advisory, "Advisory: Clarifications to the Registry Agreement, and the 2013 Registrar Accreditation Agreement \(RAA\) regarding applicable Registration Data Directory Service \(Whois\) Specifications", 2015-04-27, https://www.icann.org/resources/pages/registry-agreement-raa-rdds-2015-04-27-en](https://www.icann.org/resources/pages/registry-agreement-raa-rdds-2015-04-27-en)

1.2.2 Internal

- Pre-Delegation Testing, Statement of Work
- Pre-Delegation Testing, Master Test Plan
- Pre-Delegation Testing, Whois Test Plan

1.2.3 Document Hierarchy



1.3 Context

All tests are performed over IPv4 and IPv6 from all **test** nodes. **The IPv4 and IPv6 addresses for the hostname <whois.nic.TLD> will be resolved using the delegation data from the DNS tests. If the hostname resolves to more than one IPv4 or IPv6 addresses, all the IP addresses will be tested.**

Författare
Borttagen: <sp>

Författare
Borttagen: All data is collected automatically, but

Författare
Formaterat: Engelska (Storbritannien)

Författare
Borttagen: responses must

Författare
Borttagen: Test Officer

Författare
Formaterat: Engelska (Storbritannien)

Författare
Borttagen: verified by

Författare
Formaterat: Engelska (Storbritannien)

Författare
Formaterat: Engelska (Storbritannien)

1.4 Notation for description

Each test case for the Whois service over port 43 is described in their own chapter. The test procedures are described directly in the test case.

1.5 Enforcement

This version of this document (version F) is enforced at 2015-11-02. Prior to that date, see the previous version of this document.

1.6 Special rules during transition period

This Test Case specification will be fully applied from January 31, 2016. Before that date, any deviation from the format requirements in the Registry Agreement and the Advisory will result in WARN. A WARN is still a PASS and will not prevent the Registry from passing PDT.

During the transition period (before January 31, 2016) any deviation that would have resulted in a FAIL in version E of this document will continue to result in a FAIL.

Also see section 1.6 in the Test Plan, version E or later.

2. Whois CLI 01

2.1 Test case identifier

WhoisCLI01

2.2 Objective

Multiple Domain Name Object queries will be performed over IPv4 and IPv6 TCP connections on port 43. The objective is to verify the format of the responses of such queries.

2.3 Inputs

The following information will be needed as input for this test case:

Id	Description	Type
TLD	The ASCII compatible name of the TLD	String
WhoisTestDomain	An existing domain name which has Whois data	String
DnsGlueRecord	IPv4 or IPv6 addresses for auth NS	String
CharEncoding	Character encoding of Whois output	String

2.4 Outcome(s)

The format of the responses MUST follow the specification outlined in section 5, "Format Specification", in the Whois Test Plan and all responses must be identical.

2.5 Environmental needs

- Whois client software
- IPv4 connectivity
- IPv6 connectivity
- List of IP addresses (IPv4 and IPv6, repectively) from resolving <whois.nic.TLD> using the delegation data, where <WhoisIP> is one such address.
- <CharEncoding>, character encoding declaration from pdtwhois.xml file.

2.6 Special procedural requirements

A Whois query and its response MUST NOT take longer time than 10 seconds.

2.7 Intercase dependencies

This test has no intercase dependencies.

2.8 Ordered description of steps to be taken to execute the test case

1. Resolve IPv4 and IPv6 addresses of the host whois.nic.<TLD> using <DnsGlueRecord>. If multiple addresses are returned from lookup, all addresses are used.
2. Make a query from each test node using the client software, i.e. the same query is sent from each test node and to all IP addresses found (IPv4 and IPv6).
whois -h <WhoisIP> <WhoisTestDomain>
3. For each query executed repeat the following steps:

Författare
Borttagen: a semi-free text format, as
Författare
Borttagen: 2.1.3.1 of
Författare
Borttagen: <WhoisIPv4>
Författare
Flyttad nedåt [1]: <#>Special procedural requirements
Författare
Borttagen: Abort the test if any
Författare
Borttagen: takes
Författare
Flyttad nedåt [2]: <#>Intercase dependencies
Författare
Flyttad (infogning) [3]
Författare
Borttagen: IP
Författare
Borttagen: This result will also be
Författare
Borttagen: for subsequent tests
Författare
Borttagen: .
Författare
Borttagen: WhoisIPv4
Författare
Borttagen: Do

- a. Verify that the Whois server returns a response.
- b. Verify that the character encoding of the response matches <CharEncoding>.
- c. Verify that the response is identical to all other responses.
- d. Verify that the response is a "Domain name reply" as defined in the Whois TP.
- e. Verify that the response conforms to the format in the specification in the Whois TP.
- f. Verify that the queried domain name exactly matches the name in the "Domain Name" field in the response.

Criteria for PASS:

- The Whois output is encoded in ASCII, and
- the Whois service is available on IPv4 and IPv6, and
- all verifications (steps 3a-f) are successful.

Criteria for WARN:

- The Whois output is not encoded in ASCII encoding, and
- the Whois output was successfully converted to UTF-8, and
- all other criteria for PASS are successful.

Criteria for FAIL:

- The encoding of the Whois output cannot be converted to UTF-8, or
- at least one other criteria for PASS is unsuccessful.

Författare	Borttagen: check if the
Författare	Borttagen: match
Författare	Borttagen: given
Författare	Formaterad
Författare	Borttagen: , section 2.1.3.1
Författare	Formaterat: Svenska
Författare	Borttagen: The
Författare	Formaterat: Svenska
Författare	Borttagen: MUST be present
Författare	Formaterat: Svenska
Författare	Borttagen: <#>The key/value pairs MUST begin with the key, followed by a colon and the value. One on each line. Spacing is optional. -

3. Whois CLI 02

3.1 Test case identifier

WhoisCLI02

3.2 Objective

Multiple Registrar Object queries will be performed over IPv4 and IPv6 TCP connections on port 43. The objective is to verify the format of the responses, of such queries.

3.3 Inputs

The following information will be needed as input for this test case:

Id	Description	Type
TLD	The ASCII compatible name of the TLD	String
WhoisTestRegistrar	An existing registrar which has Whois data	String
DnsGlueRecord	IPv4 or IPv6 addresses for auth NS	String
CharEncoding	Character encoding of Whois output	String

3.4 Outcome(s)

The format of the responses MUST follow the specification outlined in section 5, "Format Specification", in the Whois Test Plan and all responses must be identical.

3.5 Environmental needs

- Whois client software
- IPv4 connectivity
- IPv6 connectivity
- List of IP addresses (IPv4 and IPv6, repectively) from resolving <whois.nic.TLD> using the delegation data, where <WhoisIP> is one such address.
- <CharEncoding>, character encoding declaration from pdtwhois.xml file.

3.6 Special procedural requirements

A Whois query and its response MUST NOT take longer time than 10 seconds.

3.7 Intercase dependencies

This test has no intercase dependencies.

3.8 Ordered description of steps to be taken to execute the test case

1. Resolve IPv4 and IPv6 addresses of the host whois.nic.<TLD> using <DnsGlueRecord>. If multiple addresses are returned from lookup, all addresses are used.

Författare	Borttagen: . . . [36]
Författare	Flyttad nedåt [4]: <#>Outcome(s) . . . [36]
Författare	Flyttad uppåt [3]: <#>Intercase . . . [38]
Författare	Flyttad nedåt [5]: <#>Whois CLI 03 . . . [40]
Författare	Borttagen: The format of the responses . . . [37]
Författare	Borttagen: <#>Make a query from ea . . . [39]
Författare	Borttagen: Multiple...of such queries wi . . . [41]
Författare	Flyttad nedåt [6]: <#>Environmental needs . . . [41]
Författare	Flyttad nedåt [10]: <#>Whois CLI 05 . . . [41]
Författare	Borttagen: <#><WhoisIPv4> from re . . . [42]
Författare	Flyttad nedåt [7]: <#>Special proced . . . [43]
Författare	Borttagen: <#>Make two queries fro . . . [44]
Författare	Flyttad nedåt [8]: <#>Whois CLI 04 . . . [44]
Författare	Borttagen: <#><WhoisIPv6> from re . . . [47]
Författare	Formaterat . . . [45]
Författare	Borttagen: <#>Objective . . . [46]
Författare	Flyttad nedåt [9]: <#>IPv6 connectivity . . . [46]
Författare	Formaterat . . . [48]
Författare	Borttagen: <#>Objective . . . [49]
Författare	Flyttad (infogning) [4] . . . [50]
Författare	Borttagen: <#>Outcome(s) . . . [51]
Författare	Flyttad (infogning) [6] . . . [52]
Författare	Flyttad (infogning) [9] . . . [53]
Författare	Borttagen: <#>Environmental needs . . . [54]
Författare	Flyttad (infogning) [1] . . . [55]
Författare	Borttagen: <#>Special procedural . . . [56]
Författare	Flyttad (infogning) [2] . . . [57]
Författare	Borttagen: <#>Intercase dependencie . . . [58]

2. Make a query from each test node using the client software, i.e. the same query is sent from each test node and to all IP addresses found (IPv4 and IPv6).
whois -h <WhoisIP> < WhoisTestRegistrar>
3. For each query executed repeat the following steps:
- a. Verify that the Whois server returns a response.
 - b. Verify that the character encoding of the response matches <CharEncoding>.
 - c. Verify that the response is identical to all other responses.
 - d. Verify that the response is a "Registrar reply " as defined in the Whois TP.
 - e. Verify that the response conforms to the format in the specification in the Whois TP.
 - f. Verify that the queried registrar name matches the name in all "Registrar Name" fields in the response. The match may be a substring match.

Criteria for PASS:

- The Whois output is encoded in ASCII, and
- the Whois service is available on IPv4 and IPv6, and
- all verifications (steps 3a-f) are successful.

Criteria for WARN:

- The Whois output is not encoded in ASCII encoding, and
- the Whois output was successfully converted to UTF-8, and
- all other criteria for PASS are successful.

Criteria for FAIL:

- The encoding of the Whois output cannot be converted to UTF-8, or
- at least one other criteria for PASS is unsuccessful.

Författare
Borttagen: .
Författare
Formaterad: Numrerad lista + Nivå: 1 + Numreringsformat: 1, 2, 3, ... + Starta vid: 1 + Justering: Vänster + Justerad vid: 0,63 cm + Indrag vid: 1,27 cm
Författare
Borttagen: WhoisIPv6> "registrar <
Författare
Borttagen: >"
Författare
Borttagen: Do
Författare
Borttagen: check if
Författare
Borttagen: the format given in
Författare
Formaterad: Numrerad lista + Nivå: 2 + Numreringsformat: a, b, c, ... + Starta vid: 1 + Justering: Vänster + Justerad vid: 1,9 cm + Indrag vid: 2,54 cm
Författare
Borttagen: , section 2.1.3.2
Författare
Borttagen: The
Författare
Formaterad: Numrerad lista + Nivå: 2 + Numreringsformat: a, b, c, ... + Starta vid: 1 + Justering: Vänster + Justerad vid: 1,9 cm + Indrag vid: 2,54 cm
Författare
Formaterat: Svenska
Författare
Borttagen: MUST be present
Författare
Formaterat: Svenska
Författare
Formaterat: Svenska

4. Whois CLI 03

4.1 Test case identifier

WhoisCLI03

4.2 Objective

Multiple Name Server Object queries will be performed over IPv4 and IPv6 TCP connections on port 43. The objective is to verify the format of the responses of such queries.

4.3 Inputs

The following information will be needed as input for this test case:

Id	Description	Type
TLD	The ASCII compatible name of the TLD	String
WhoisTestNameServerName	The domain name of an existing name server which has Whois data	String
WhoisTestNameServerIP	The IP address of an existing name server which has Whois data	String
DnsGlueRecord	IPv4 or IPv6 addresses for auth NS	String
CharEncoding	Character encoding of Whois output	String

4.4 Outcome(s)

The format of the responses MUST follow the specification outlined in section 5, "Format Specification", in the Whois Test Plan and all responses must be identical.

4.5 Environmental needs

- Whois client software
- IPv4 connectivity
- IPv6 connectivity
- List of IP addresses (IPv4 and IPv6, repectively) from resolving <whois.nic.TLD> using the delegation data, where <WhoisIP> is one such address.
- <CharEncoding>, character encoding declaration from pdtwhois.xml file.

4.6 Special procedural requirements

Abort the test if any Whois query takes longer than 10 seconds.

4.7 Intercase dependencies

This test has no intercase dependencies.

Författare

Flyttad (infogning) [5]

Författare

Borttagen: <#>The key/value pairs MUST begin with the key, followed by a colon and the value. One on each line. Spacing is optional. ... [59]

Författare

Flyttad nedåt [11]: <#>Whois CLI 06

Författare

Formaterat: Svenska

Författare

Borttagen: <#>Objective

Författare

Formaterad tabell

Författare

Borttagen: a semi-free text format, as

Författare

Borttagen: 2.1.3.3 of

Författare

Borttagen: <WhoisIPv6>

Författare

Flyttad (infogning) [7]

4.8 Ordered description of steps to be taken to execute the test case

1. Resolve IPv4 and IPv6 addresses of the host `whois.nic.<TLD>` using `<DnsGlueRecord>`. If multiple addresses are returned from lookup, all addresses are used.
2. Make two queries from each test node using the client software, i.e. the same two queries are sent from each test node and to all IP addresses found (IPv4 and IPv6).
`whois -h <WhoisIP> <WhoisTestNameServerName>`
`whois -h <WhoisIP> "nameserver <WhoisTestNameServerIP>"`
3. Verify that the Whois server returns responses to the two queries. A response means that at least some text is returned.
4. At least one of the two queries (`WhoisTestNameServerName` or `WhoisTestNameServerIP`) MUST give a response that matches the following steps and requirements, and it MUST be the same for all query pairs.
 - a. Verify that the character encoding of the responses match `<CharEncoding>`.
 - b. Verify that the response is identical to all other responses to the same query.
 - c. Verify that the response is a "Name server reply type 1" or "Name server reply type 2" as defined in the format specification in the Whois TP.
 - d. Verify that response conforms to the format in the specification in the Whois TP.
 - e. If the response is "Name server reply type 1" do the following step:
 - i. Verify that "Server Name" field or "IP Address" field exactly matches the query string from step 2 above.
 - f. If the response is "Name server reply type 2" do the following step:
 - i. Extract the ROID from the first "Roid Line" as defined in the format specification in the Whois TP.
 - ii. Make a new whois query, now using the extracted ROID as the query string.
 - iii. Verify that the new response is a "Name server reply type 1" as defined in the format specification in the Whois TP.
 - iv. Verify that the new response conforms to the format in the specification in the Whois TP.
 - v. Verify that "Server Name" field or "IP Address" field in the new response exactly matches the query string from step 2 above.

Criteria for PASS:

- The Whois outputs are encoded in ASCII, and
- the Whois service is available on IPv4 and IPv6, and
- all verifications (under steps 3 and 4a-f) are successful.

Criteria for WARN:

- The Whois outputs are not encoded in ASCII encoding, and
- the Whois output was successfully converted to UTF-8, and
- all other criteria for PASS are successful.

Criteria for FAIL:

- The encoding of the Whois output cannot be converted to UTF-8, or
- at least one other criteria for PASS is unsuccessful.

Författare	Borttagen: <#>Special procedural requirements ... [60]
Författare	Formaterad: Numrerad lista + Nivå: 1 + Nummeringsformat: 1, 2, 3, ... + Starta vid: 1 + Justering: Vänster + Justerad vid: 0,63 cm + Indrag vid: 1,27 cm
Författare	Borttagen: . At least one of them MUST give a response with Whois data. ... whois -h <WhoisIPv6
Författare	Borttagen: WhoisIPv6
Författare	Borttagen: For each positive response, do a check if
Författare	Borttagen: matches the
Författare	Formaterad: Numrerad lista + Nivå: 2 + Nummeringsformat: a, b, c, ... + Starta vid: 1 + Justering: Vänster + Justerad vid: 1,9 cm + Indrag vid: 2,54 cm
Författare	Borttagen: given
Författare	Borttagen: , section 2.1.3.3
Författare	Borttagen: The queried name server MUST be present
Författare	Borttagen: response. ... [61]
Författare	Formaterat: Svenska
Författare	Borttagen: . The disclaimer SHOULD be at
Författare	Borttagen: end of
Författare	Formaterat: Svenska
Författare	Borttagen: .
Författare	Formaterad: Numrerad lista + Nivå: 2 + Nummeringsformat: a, b, c, ... + Starta vid: 1 + Justering: Vänster + Justerad vid: 1,9 cm + Indrag vid: 2,54 cm
Författare	Borttagen: The values of EPP keywords MUST follow
Författare	Borttagen: requirements given
Författare	Borttagen: Test Plan.
Författare	Borttagen: comparison should

5. Whois CLI 04

5.1 Test case identifier

WhoisCLI04

5.2 Removed

This test case was removed in version F of this document. Testing on IPv6 has been merged into Test Case WhoisCLI01.

Författare
Flyttad (infogning) [8]

Författare
Formaterat: Svenska

DRAFT

6. Whois CLI 05

6.1 Test case identifier

WhoisCLI05

6.2 Removed

This test case was removed in version F of this document. Testing on IPv6 has been merged into Test Case WhoisCLI02.

Författare
Flyttad (infogning) [10]

Författare
Formaterat: Svenska

DRAFT

7. Whois CLI 06

7.1 Test case identifier

WhoisCLI06

7.2 Removed

This test case was removed in version F of this document. Testing on IPv6 has been merged into Test Case WhoisCLI03.

Författare
Flyttad (infogning) [11]

Författare
Formaterat: Svenska

Författare
Borttagen: case insensitive.

Författare
Formaterad: Normal, Ingen numrering

8. Global

8.1 Glossary

The glossary is available in the Master Test Plan.

8.2 Document change procedures

Document change procedures are documented in the Master Test Plan.

DRAFT