

Pre-Delegation Testing

Whois CLI Test Cases

Version [F](#)

Författare 29/9/2015 13:11

Borttagen: E

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2013-01-11	PA2	Rickard Bellgrim	Update test cases
2013-01-14	PA3	Rickard Bellgrim	The test plan now has an example of response data
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
2013-06-12	PD1	Rickard Bellgrim	Clarify all test cases
2013-06-24	PD2	Rickard Bellgrim	Clarify pass/fail criteria
2013-07-01	D	Mats Dufberg	Released.
2014-01-17	E	Jan Sandström	Replaced warn instructions with SHOULD criteria.
2015-09-28	F	Mats Dufberg	Aligned PDT requirements to the Whois response formats defined in the Registry Agreement and advisories. IPv4 and IPv6 CLI TC are merged. All addresses are to be tested. Added statements on character encoding. Added explicit criteria for PASS, WARN and FAIL. Added FAIL on characters outside Unicode or file not compatible with declared encoding. This version is enforced at 2015-11-02.

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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
- [RDDS-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)
- ["Extensible Provisioning Protocol \(EPP\) Repository Identifiers", https://www.iana.org/assignments/epp-repository-ids/epp-repository-ids.xhtml](https://www.iana.org/assignments/epp-repository-ids/epp-repository-ids.xhtml)
- [ROID-Advisory, "gTLD Registry Advisory: Correction of non-compliant ROIDs", 2015-08-26, https://www.icann.org/resources/pages/correction-non-compliant-roids-2015-08-26-en](https://www.icann.org/resources/pages/correction-non-compliant-roids-2015-08-26-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

Statement of Work

AGB

Master Test Plan

Whois Test Plan

CLI TC

Search TC

Web TC

RFCs

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](#)

Författare 29/9/2015 13:11

Borttagen: All data is collected automatically, but

Författare 29/9/2015 13:11

Borttagen: responses must

Författare 29/9/2015 13:11

Borttagen: verified by

Författare 29/9/2015 13:11

Borttagen: Test Officer

[the hostname resolves to more than one IPv4 or IPv6 addresses, all the IP addresses will be tested.](#)

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 **RDDS-Advisory** and **ROID-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 declaration	String
EppRepID	EPP Repository Identifier declaration	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 \(IPv4 and IPv6, respectively\)](#) from resolving <whois.nic.TLD> using the delegation data, [where <WhoisIP> is one such address](#).
- <CharEncoding>, character encoding declaration from pdtwhois.xml file.
- <EppRepID>, EPP Repository Identifier declaration from pdtwhois.xml file

2.6 Special procedural requirements

[A Whois query and its response MUST NOT take longer 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.](#)

Författare 29/9/2015 13:11

Borttagen: a semi-free text format, as

Författare 29/9/2015 13:11

Borttagen: 2.1.3.1 of

Författare 29/9/2015 13:11

Borttagen: <WhoisIPv4>

Författare 29/9/2015 13:11

Flyttad (infogning) [1]

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:

- 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. *This verification includes, but is not limited to, verification of ROID format and registration of ROID Suffix, mandatory fields, field names, order of fields, status codes, and data format. See section 5 in the Whois TP for all details.*
- f. Verify that the queried domain name exactly matches the name in the "Domain Name" field in the response.
- g. Verify that the ROID Suffix, as defined in specification in the Whois TP, of the "Domain ID" field exactly matches <EppRepID>.

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-g) 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.

3. Whois CLI 02

Författare 29/9/2015 13:11

Flyttad (infogning) [2]

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

Författare 29/9/2015 13:11

Flyttad (infogning) [3]

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

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

3.4 Outcome(s)

Författare 29/9/2015 13:11

Flyttad (infogning) [4]

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

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Flyttad (infogning) [5]

- Whois client software
- IPv4 connectivity
- IPv6 connectivity
- List of IP addresses (IPv4 and IPv6, respectively) 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.
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:

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Flyttad (infogning) [6]

Författare 29/9/2015 13:11

Borttagen: Abort the test if any

Författare 29/9/2015 13:11

Borttagen: takes

Författare 29/9/2015 13:11

Borttagen: IP

Författare 29/9/2015 13:11

Formaterat: Typsnitt: Inte Fet

Författare 29/9/2015 13:11

Formaterat: Typsnitt: Inte Fet

Författare 29/9/2015 13:11

Borttagen: This result will also be

Författare 29/9/2015 13:11

Borttagen: for subsequent tests

Författare 29/9/2015 13:11

Borttagen: .

Författare 29/9/2015 13:11

Borttagen: WhoisIPv4>
<WhoisTestDomain

Författare 29/9/2015 13:11

Borttagen: Do

- Verify that the Whois server returns a response.
- Verify that the character encoding of the response matches <CharEncoding>.
- Verify that the response is identical to all other responses.
- Verify that the response is a "Registrar reply" as defined in the Whois TP.
- Verify that the response conforms to the format in the specification in the Whois TP. This verification includes, but is not limited to, verification of ROID format and registration of ROID Suffix, mandatory fields, field names, order of fields, status codes, and data format. See section 5 in the Whois TP for all details.
- 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 29/9/2015 13:11	Borttagen: check if the
Författare 29/9/2015 13:11	Borttagen: match
Författare 29/9/2015 13:11	Borttagen: given in Whois TP,
Författare 29/9/2015 13:11	Formaterad ... [35]
Författare 29/9/2015 13:11	Formaterat ... [36]
Författare 29/9/2015 13:11	Borttagen: 2.1.3.1
Författare 29/9/2015 13:11	Formaterat ... [37]
Författare 29/9/2015 13:11	Borttagen: The
Författare 29/9/2015 13:11	Formaterat ... [38]
Författare 29/9/2015 13:11	Borttagen: domain
Författare 29/9/2015 13:11	Formaterat ... [39]
Författare 29/9/2015 13:11	Borttagen: MUST be present in the ... [40]
Författare 29/9/2015 13:11	Formaterat ... [41]
Författare 29/9/2015 13:11	Borttagen: disclaimer SHOULD
Författare 29/9/2015 13:11	Borttagen: at the end of the response
Författare 29/9/2015 13:11	Formaterat ... [42]
Författare 29/9/2015 13:11	Formaterat ... [43]
Författare 29/9/2015 13:11	Borttagen: <#>The values of EPP ... [44]
Författare 29/9/2015 13:11	Flyttad uppåt [2]: <#>Whois CLI 02 .
Författare 29/9/2015 13:11	Borttagen: Multiple queries will be per ... [45]
Författare 29/9/2015 13:11	Flyttad uppåt [4]: <#>Outcome(s) .
Författare 29/9/2015 13:11	Borttagen: The format of the responses ... [46]
Författare 29/9/2015 13:11	Formaterad ... [47]
Författare 29/9/2015 13:11	Borttagen: query takes longer than 10 seconds. .
Författare 29/9/2015 13:11	Flyttad uppåt [1]: Intercase depende ... [48]
Författare 29/9/2015 13:11	Formaterat ... [49]
Författare 29/9/2015 13:11	Borttagen: be taken to execute the test case
Författare 29/9/2015 13:11	Formaterat ... [50]
Författare 29/9/2015 13:11	Borttagen: <#>Make a query from ea ... [51]

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 \(IPv4 and IPv6, respectively\)](#) 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 29/9/2015 13:11

Borttagen: a semi-free text format, as

Författare 29/9/2015 13:11

Borttagen: 2.1.3.3 of

Författare 29/9/2015 13:11

Flyttad (infogning) [7]

Författare 29/9/2015 13:11

Flyttad uppåt [5]: <#>Environmental needs

Författare 29/9/2015 13:11

Borttagen: <WhoisIPv4>

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 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. *This verification includes, but is not limited to, verification of ROID format and registration of ROID Suffix, mandatory fields, field names, order of fields, status codes, and data format. See section 5 in the Whois TP for all details.*
 - 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 29/9/2015 13:11	Borttagen: . At least one of them MUS... [52]
Författare 29/9/2015 13:11	Borttagen: WhoisIPv4
Författare 29/9/2015 13:11	Borttagen: WhoisIPv4
Författare 29/9/2015 13:11	Borttagen: For each positive
Författare 29/9/2015 13:11	Borttagen: , do a check if
Författare 29/9/2015 13:11	Borttagen: matches the
Författare 29/9/2015 13:11	Borttagen: given
Författare 29/9/2015 13:11	Borttagen: ,
Författare 29/9/2015 13:11	Formaterad ... [53]
Författare 29/9/2015 13:11	Formaterat ... [54]
Författare 29/9/2015 13:11	Borttagen: 2.1.3.3
Författare 29/9/2015 13:11	Formaterat ... [55]
Författare 29/9/2015 13:11	Borttagen: The queried name serv... [56]
Författare 29/9/2015 13:11	Formaterat ... [57]
Författare 29/9/2015 13:11	Borttagen: .
Författare 29/9/2015 13:11	Borttagen: key, followed by a colo... [59]
Författare 29/9/2015 13:11	Borttagen: A legal disclaimer M... [60]
Författare 29/9/2015 13:11	Formaterat ... [61]
Författare 29/9/2015 13:11	Borttagen: . The disclaimer SHOULD be at
Författare 29/9/2015 13:11	Borttagen: end of the
Författare 29/9/2015 13:11	Formaterad ... [62]
Författare 29/9/2015 13:11	Borttagen: The values of EPP k... [63]
Författare 29/9/2015 13:11	Borttagen: requirements given
Författare 29/9/2015 13:11	Borttagen: Test Plan.
Författare 29/9/2015 13:11	Borttagen: comparison should
Författare 29/9/2015 13:11	Formaterad ... [64]
Författare 29/9/2015 13:11	Borttagen: case insensitive.

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 29/9/2015 13:11

Borttagen: <#>Objective
Description

... [65]

Författare 29/9/2015 13:11

Flyttad uppåt [6]: <#>IPv6 connectivity

Författare 29/9/2015 13:11

Borttagen: <#><WhoisIPv6> from resolving
<whois.nic.TLD> using the delegation d

... [66]

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 29/9/2015 13:11

Borttagen: <#>Objective .

... [67]

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Flyttad uppåt [3]: <#>Inputs .
Description

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Borttagen: <#>Outcome(s) .

... [68]

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 29/9/2015 13:11

Borttagen: <#>Objective
Description

... [69]

Författare 29/9/2015 13:11

Flyttad uppåt [7]: <#>IPv6 connectivity

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Borttagen: <#><WhoisIPv6> from resolving
<whois.nic.TLD> using the delegation d... [70]

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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.