| Path Discovery Test Suite |
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1 Introduction

1.1 Overview

A certification path is an ordered list of certificates starting with a certificate issued by the relying party's trust root, and ending with the target certificate that needs to be validated. Certification path processing verifies the binding between the subject distinguished name and/or subject alternative name and the subject public key defined in the target certificate. The binding is limited by constraints, which are specified in the certificates that comprise the path, and inputs that are specified by the relying party.

Certification path discovery is the process of creating the certification path needed to validate a target certificate. In order to validate a target certificate, a certification path starting with one of the relying parties trust anchors and ending with the target certificate must be constructed and all relevant revocation status information must be located. This document includes descriptions for certificates and CRLs for several sample PKI architectures. In each PKI architecture includes several end entity certificates that can be designated as target certificates. A set of tests are defined in which a target certificate and a trust anchor are defined. In some cases there is a valid certification path, which the relying party is expected to be able to build and validate and in some cases no valid certification path exists.

1.2 Background

In the fall of 2000, NIST worked in conjunction with CygnaCom Solutions and Getronics Government Solutions, LLC to develop a test suite for a subset of the features defined in the IETF PKIX Certificate and CRL Profile, RFC 2459. The resulting test suite, documented in *Conformance Testing of Relying Party Client Certificate Path Processing Logic* v. 1.07, has been widely used since its creation. Over the course of 2003 and 2004 the *Public Key Interoperability Test Suite (PKITS) Certification Path Validation* was developed. PKITS was designed to cover most of the features described in the successor to RFC 2549, RFC 3280, and was intended to be the successor to *Conformance Testing of Relying Party Client Certificate Path Processing Logic*. Both of these test suites were designed to enable the testing of the path validation capabilities of a path validation module (PVM), but not the path discovery capabilities of a PVM.

This document was developed to complement PKITS and it is intended for use with PVMs whose path validation capabilities have already been verified using PKITS. The tests in this test suite are subdivided based on the complexity of the PKI architecture in which the certification path must be built and based on the method by which certificates and CRLs must be located. At the Rudimentary level, all target certificates are issued by CAs that are hierarchically subordinate to the trust anchor and all certificates and CRLs in the certification paths are limited to the features that are included in the requirements for Enterprise PVMs in the *NIST Recommendation for X.509 Path Validation*. At the Basic level, the target certificates are issued by CAs that are not hierarchically subordinate to the trust anchor and certificates in the certification path include policy mappings, policy constraint extensions, and name constraints extensions. Some self-issued certificates assert the anyPolicy OID rather than asserting specific certificate policy OIDs.

For each level of testing, there are three nearly identical PKI architectures. In the first PKI architecture none of the certificates include authorityInfoAccess or subjectInfoAccess extensions. Some certificates include cRLDistributionPoints extensions that specify a distribution point as a

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directoryName, but most certificates do not include a cRLDistributionPoints extension. In the other two PKI architectures, authorityInfoAccess, subjectInfoAccess, and cRLDistributionPoints extensions are included where appropriate. In one of the PKI architectures these extensions are populated with LDAP URIs and in the other PKI architecture these extensions are populated with HTTP URIs.

1.3 Getting the Test Data

Information about obtaining the data needed to run the tests in this test suite may be found at http://csrc.nist.gov/pki/testing/pathdiscovery.html. From this site it will be possible to download a copy of this document as well as all of the trust anchor certificates, end entity certificates, and S/MIME messages specified in this document. The Web site will also specify the location of an LDAP server from which the certificates and CRLs for the first PKI architecture may be obtained.

2 References

2.1 Documents

| PKCS #12 | PKCS 12 v1.0: Personal Information Exchange Syntax. RSA Laboratories, June 1999. |
|----------|---|
| PKITS | Public Key Interoperability Test Suite (PKITS) Certification Path Validation, version 1.0, September 2, 2004. http://csrc.nist.gov/pki/testing/PKITS.pdf. |
| PATHVAL | NIST Recommendation for X.509 Path Validation, version 0.5, May 3, 2004. http://csrc.nist.gov/pki/testing/NIST_Recommendation_for_X509_PVMs.pdf. |
| RFC 822 | Standard for the Format of ARPA Internet Text Messages, August 1982. |
| RFC 2253 | IETF Request for Comments 2253, Lightweight Directory Access Protocol (v3): UTF-8 String Representation of Distinguished Names, December 1997. |
| RFC 2587 | IETF Request for Comments 2587, Internet X.509 Public Key Infrastructure LDAP v2 Schema, June 1999. |
| RFC 3369 | Cryptographic Message Syntax, August 2002. |
| RFC 3280 | IETF Request for Comments 3280, Internet X.509 Public Key Infrastructure Certificate and CRL Profile, April 2002. |
| X.509 | ITU-T Recommendation X.509 (03/2000), Information Technology – Open Systems Interconnection – The Directory: Public-Key and Attribute Certificate Frameworks. |

2.2 Acronyms

This section contains the definitions for some of the acronyms used in this document.

| ARL | Authority Revocation List |
|-------|------------------------------|
| ASN.1 | Abstract Syntax Notation One |
| CA | Certification Authority |
| CRL | Certificate Revocation List |

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DN Distinguished Name

IETF Internet Engineering Task Force

LDAP Lightweight Directory Access Protocol

NIST National Institute of Standards and Technology

OID Object Identifier

PKCS Public-Key Cryptography Standards

PKI Public Key Infrastructure
PVM Path Validation Module

RDN Relative Distinguished Name

RFC Request for Comments

S/MIME Secure/Multipurpose Internet Mail Extensions

ITU-T International Telecommunication Union - Telecommunication Standardization

Sector

2.3 Definitions

This section contains some of the definitions used in this document.

CA Certificate A public key certificate whose subject is a CA.

Certification Path A chain of certificates starting with a certificate issued by

the trust anchor of the relying party and ending with the certificate issued to the subject of interest to the relying party. A Certification Path consists of zero or more **Intermediate Certificates** and one **End Certificate.** The

Intermediate Certificates and one End Certificate. The first certificate in a Certification Path of length greater than one is also called an Intermediate Certificate. The first certificate in a Certification Path of length one is called an

End Certificate since it is the last certificate in the

Certification Path.

Distinguished Name An unambiguous name that identifies an entity. A

distinguished name is made up of one or more relative

distinguished names (RDNs).

End Certificate The last certificate in a **Certification Path.**

End Entity Certificate A public key certificate whose subject is not a CA.

Intermediate Certificate Any certificate in a **Certification Path** except for the **End**

Certificate.

3 Initialization Procedures

This section contains the initialization parameters needed to be set when performing the test cases defined in this document.

All of the test cases are designed for processing with the following inputs:

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- Trusted certificate to use (a.k.a. trust anchor) is either Basic Directory Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root Cert, or Basic HTTP URI Trust Anchor Root Cert;
- *initial-policy-set* is the special value *any-policy*¹;
- *initial-explicit-policy* indicator value is false;
- initial-policy-mapping-inhibit indicator value is false; and
- initial-inhibit-any-policy indicator value is false.

The inputs listed above are referred to as the *default settings*.

4 Certification Path Discovery Tests

4.1 Rudimentary

4.1.1 Rudimentary Directory-based Path Discovery

4.1.1.1 Rudimentary Directory Path Discovery Test1

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. All mandatory and optional information has been stored in the **cACertificate** and **crossCertificatePair** attributes of the directory entries of the CAs in the path.

Procedure: Validate Rudimentary Directory Path Discovery Test1 EE using the

default settings² or open and verify Signed Test Message 5.3.2.1 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL
- Basic Directory Trust Anchor SubCA1 Cert, Basic Directory Trust Anchor SubCA1 CRL
- Basic Directory Trust Anchor SubSubCA1 Cert, Basic Directory Trust Anchor SubSubCA1 CRL
- Rudimentary Directory Path Discovery Test1 EE

4.1.1.2 Rudimentary Directory Path Discovery Test2

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. Only the mandatory information has been stored in the **cACertificate** and **crossCertificatePair** attributes of the directory entries of the CAs in the path.

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¹In RFC 3280, the *initial-policy-set* is referred to as the user-initial-policy-set and *initial-inhibit-any-policy* is initial-any-policy-inhibit.

² The default settings are specified in Section 3.

Procedure: Validate Rudimentary Directory Path Discovery Test2 EE using the

default settings or open and verify Signed Test Message 5.3.2.2 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

- Basic Directory Trust Anchor SubCA2 Cert, Basic Directory Trust Anchor SubCA2 CRL
- Basic Directory Trust Anchor SubSubCA2 Cert, Basic Directory Trust Anchor SubSubCA2 CRL
- Rudimentary Directory Path Discovery Test2 EE

4.1.1.3 Rudimentary Directory Path Discovery Test3

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The Trust Anchor Root CA has issued two certificates to the intermediate CA, one for each key.

Procedure: Validate Rudimentary Directory Path Discovery Test3 EE using the

default settings or open and verify Signed Test Message 5.3.2.3 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL
- Basic Directory Trust Anchor SubCA3 Cert, Basic Directory Trust Anchor SubCA3 Cert2, Basic Directory Trust Anchor SubCA3 CRL
- Rudimentary Directory Path Discovery Test3 EE

4.1.1.4 Rudimentary Directory Path Discovery Test4

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The Trust Anchor Root CA has issued two certificates to the intermediate CA, one for each key. The end entity certificate has been revoked.

Procedure: Validate Rudimentary Directory Path Discovery Test4 EE using the

default settings or open and verify Signed Test Message 5.3.2.4 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

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- Basic Directory Trust Anchor SubCA3 Cert, Basic Directory Trust Anchor SubCA3 Cert2, Basic Directory Trust Anchor SubCA3 CRL
- Rudimentary Directory Path Discovery Test4 EE

4.1.1.5 Rudimentary Directory Path Discovery Test5

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate.

Procedure: Validate Rudimentary Directory Path Discovery Test5 EE using the

default settings or open and verify Signed Test Message 5.3.2.5 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

• Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

Basic Directory Trust Anchor SubCA4 Cert, Basic Directory Trust Anchor SubCA4
 CRL

Basic Directory Trust Anchor SubCA4 Self-Issued Cert

Rudimentary Directory Path Discovery Test5 EE

4.1.1.6 Rudimentary Directory Path Discovery Test6

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate. The end entity certificate has been revoked.

Procedure: Validate Rudimentary Directory Path Discovery Test6 EE using the

default settings or open and verify Signed Test Message 5.3.2.6 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

Basic Directory Trust Anchor SubCA4 Cert, Basic Directory Trust Anchor SubCA4 CRL

Basic Directory Trust Anchor SubCA4 Self-Issued Cert

• Rudimentary Directory Path Discovery Test6 EE

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4.1.1.7 Rudimentary Directory Path Discovery Test7

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the end entity certificate. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the end entity certificate and certifies the key needed to verify the CRL.

Procedure: Validate Rudimentary Directory Path Discovery Test7 EE using the

default settings or open and verify Signed Test Message 5.3.2.7 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

• Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

 Basic Directory Trust Anchor SubCA5 Cert, Basic Directory Trust Anchor SubCA5 Self-Issued Cert, Basic Directory Trust Anchor SubCA5 CRL

• Rudimentary Directory Path Discovery Test7 EE

4.1.1.8 Rudimentary Directory Path Discovery Test8

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the end entity certificate. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the end entity certificate and certifies the key needed to verify the CRL. The end entity certificate has been revoked.

Procedure: Validate Rudimentary Directory Path Discovery Test8 EE using the

default settings or open and verify Signed Test Message 5.3.2.8 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

 Basic Directory Trust Anchor SubCA5 Cert, Basic Directory Trust Anchor SubCA5 Self-Issued Cert, Basic Directory Trust Anchor SubCA5 CRL

• Rudimentary Directory Path Discovery Test8 EE

4.1.1.9 Rudimentary Directory Path Discovery Test9

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The first intermediate CA has issued an Authority Revocation List (ARL), which is stored in the CA's authorityRevocationList attribute, that lists the second intermediate CA's certificate as being revoked

Procedure: Validate Rudimentary Directory Path Discovery Test9 EE using the

default settings or open and verify Signed Test Message 5.3.2.9 using

the default settings.

Expected Result: The path should not validate successfully since the intermediate

certificate has been revoked.

Certification Path: The certification path is composed of the following objects:

Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

Basic Directory Trust Anchor SubCA6 Cert, Basic Directory Trust Anchor SubCA6 CRL

 Basic Directory Trust Anchor SubSubCA6 Cert, Basic Directory Trust Anchor SubSubCA6 CRL

• Rudimentary Directory Path Discovery Test9 EE

4.1.1.10 Rudimentary Directory Path Discovery Test10

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has issued a CRL, which is not stored in the CA's directory entry, that lists the end entity certificate as being revoked.

Procedure: Validate Rudimentary Directory Path Discovery Test10 EE using the

default settings or open and verify Signed Test Message 5.3.2.10 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

• Basic Directory Trust Anchor SubCA7 Cert, Basic Directory Trust Anchor SubCA7

CRL

• Rudimentary Directory Path Discovery Test10 EE

4.1.1.11 Rudimentary Directory Path Discovery Test11

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has issued an ARL, which is not stored in the CA's directory entry, that lists the second intermediate CA's certificate as being revoked.

Procedure: Validate Rudimentary Directory Path Discovery Test11 EE using the

default settings or open and verify Signed Test Message 5.3.2.11 using

the default settings.

Expected Result: The path should not validate successfully since the intermediate

certificate has been revoked.

Certification Path: The certification path is composed of the following objects:

• Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

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- Basic Directory Trust Anchor SubCA7 Cert, Basic Directory Trust Anchor SubCA7 CRL
- Basic Directory Trust Anchor SubSubCA7 Cert, Basic Directory Trust Anchor SubSubCA7 CRL
- Rudimentary Directory Path Discovery Test11 EE

4.1.1.12 Rudimentary Directory Path Discovery Test12

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The directory entries of the two intermediate CAs are not stored in the local directory, but the local directory provides a referral to the directory that holds these directory entries.

Procedure: Validate Rudimentary Directory Path Discovery Test 12 EE using the

default settings or open and verify Signed Test Message 5.3.2.12 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL

- Basic Directory Trust Anchor SubCA8 Cert, Basic Directory Trust Anchor SubCA8 CRL
- Basic Directory Trust Anchor SubSubCA8 Cert, Basic Directory Trust Anchor SubSubCA8 CRL
- Rudimentary Directory Path Discovery Test12 EE

4.1.1.13 Rudimentary Directory Path Discovery Test13

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The directory entries of the two intermediate CAs are not stored in the local directory, but the local directory provides a referral to the directory that holds these directory entries. The end entity certificate has been revoked.

Procedure: Validate Rudimentary Directory Path Discovery Test13 EE using the

default settings or open and verify Signed Test Message 5.3.2.13 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

- Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL
- Basic Directory Trust Anchor SubCA8 Cert, Basic Directory Trust Anchor SubCA8 CRL
- Basic Directory Trust Anchor SubSubCA8 Cert, Basic Directory Trust Anchor SubSubCA8 CRL
- Rudimentary Directory Path Discovery Test13 EE

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4.1.2 Rudimentary URI based Path Discovery

4.1.2.1 Rudimentary LDAP Path Discovery Test1

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. All mandatory and optional information has been stored in the **cACertificate** and **crossCertificatePair** attributes of the directory entries of the CAs in the path. All intermediate certificates include **subjectInfoAccess** extensions with LDAP URIs and all certificates include **authorityInfoAccess** extensions with LDAP URIs.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test1 EE using the

default settings or open and verify Signed Test Message 5.3.2.14 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

 Basic LDAP URI Trust Anchor SubCA1 Cert, Basic LDAP URI Trust Anchor SubCA1 CRL

 Basic LDAP URI Trust Anchor SubSubCA1 Cert, Basic LDAP URI Trust Anchor SubSubCA1 CRL

Rudimentary LDAP URI Path Discovery Test1 EE

4.1.2.2 Rudimentary HTTP Path Discovery Test2

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. All intermediate certificates include **subjectInfoAccess** extensions with HTTP URIs and all certificates include **authorityInfoAccess** extensions with HTTP URIs.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test2 EE using the

default settings or open and verify Signed Test Message 5.3.2.15 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

 Basic HTTP URI Trust Anchor SubCA1 Cert, Basic HTTP URI Trust Anchor SubCA1 CRL

 Basic HTTP URI Trust Anchor SubSubCA1 Cert, Basic HTTP URI Trust Anchor SubSubCA1 CRL

Rudimentary HTTP URI Path Discovery Test2 EE

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4.1.2.3 Rudimentary LDAP Path Discovery Test3

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. Only the mandatory information has been stored in the **cACertificate** and **crossCertificatePair** attributes of the directory entries of the CAs in the path. All certificates include **authorityInfoAccess** extensions with LDAP URIs, but none of the intermediate certificates include **subjectInfoAccess** extensions.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test3 EE using the

default settings or open and verify Signed Test Message 5.3.2.16 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

- Basic LDAP URI Trust Anchor SubCA2 Cert, Basic LDAP URI Trust Anchor SubCA2 CRL
- Basic LDAP URI Trust Anchor SubSubCA2 Cert, Basic LDAP URI Trust Anchor SubSubCA2 CRL
- Rudimentary LDAP URI Path Discovery Test3 EE

4.1.2.4 Rudimentary HTTP Path Discovery Test4

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. All certificates include **authorityInfoAccess** extensions with HTTP URIs, but none of the intermediate certificates include **subjectInfoAccess** extensions.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test4 EE using the

default settings or open and verify Signed Test Message 5.3.2.17 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL
- Basic HTTP URI Trust Anchor SubCA2 Cert, Basic HTTP URI Trust Anchor SubCA2 CRL
- Basic HTTP URI Trust Anchor SubSubCA2 Cert, Basic HTTP URI Trust Anchor SubSubCA2 CRL
- Rudimentary HTTP URI Path Discovery Test4 EE

4.1.2.5 Rudimentary LDAP Path Discovery Test5

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity

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certificate. The Trust Anchor Root CA has issued two certificates to the intermediate CA, one for each key.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test5 EE using the

default settings or open and verify Signed Test Message 5.3.2.18 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

 Basic LDAP URI Trust Anchor SubCA3 Cert, Basic LDAP URI Trust Anchor SubCA3 Cert2, Basic LDAP URI Trust Anchor SubCA3 CRL

• Rudimentary LDAP URI Path Discovery Test5 EE

4.1.2.6 Rudimentary LDAP Path Discovery Test6

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The Trust Anchor Root CA has issued two certificates to the intermediate CA, one for each key. The end entity certificate has been revoked.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test6 EE using the

default settings or open and verify Signed Test Message 5.3.2.19 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

 Basic LDAP URI Trust Anchor SubCA3 Cert, Basic LDAP URI Trust Anchor SubCA3 Cert2, Basic LDAP URI Trust Anchor SubCA3 CRL

Rudimentary LDAP URI Path Discovery Test6 EE

4.1.2.7 Rudimentary HTTP Path Discovery Test7

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The Trust Anchor Root CA has issued two certificates to the intermediate CA, one for each key.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test7 EE using the

default settings or open and verify Signed Test Message 5.3.2.20 using

the default settings.

Expected Result: The path should validate successfully.

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Certification Path: The certification path is composed of the following objects:

- Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL
- Basic HTTP URI Trust Anchor SubCA3 Cert, Basic HTTP URI Trust Anchor SubCA3 Cert2, Basic HTTP URI Trust Anchor SubCA3 CRL
- Rudimentary HTTP URI Path Discovery Test7 EE

4.1.2.8 Rudimentary HTTP Path Discovery Test8

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The Trust Anchor Root CA has issued two certificates to the intermediate CA, one for each key. The end entity certificate has been revoked.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test8 EE using the

default settings or open and verify Signed Test Message 5.3.2.21 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

- Basic HTTP URI Trust Anchor SubCA3 Cert, Basic HTTP URI Trust Anchor SubCA3 Cert2, Basic HTTP URI Trust Anchor SubCA3 CRL
- Rudimentary HTTP URI Path Discovery Test8 EE

4.1.2.9 Rudimentary LDAP Path Discovery Test9

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test9 EE using the

default settings or open and verify Signed Test Message 5.3.2.22 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL
- Basic LDAP URI Trust Anchor SubCA4 Cert, Basic LDAP URI Trust Anchor SubCA4 CRL
- Basic LDAP URI Trust Anchor SubCA4 Self-Issued Cert

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• Rudimentary LDAP URI Path Discovery Test9 EE

4.1.2.10 Rudimentary LDAP Path Discovery Test10

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate. The end entity certificate has been revoked.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test10 EE using the

default settings or open and verify Signed Test Message 5.3.2.23 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

- Basic LDAP URI Trust Anchor SubCA4 Cert, Basic LDAP URI Trust Anchor SubCA4 CRL
- Basic LDAP URI Trust Anchor SubCA4 Self-Issued Cert
- Rudimentary LDAP URI Path Discovery Test10 EE

4.1.2.11 Rudimentary LDAP Path Discovery Test11

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the end entity certificate. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the end entity certificate and certifies the key needed to verify the CRL.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test11 EE using the

default settings or open and verify Signed Test Message 5.3.2.24 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

 Basic LDAP URI Trust Anchor SubCA5 Cert, Basic LDAP URI Trust Anchor SubCA5 Self-Issued Cert, Basic LDAP URI Trust Anchor SubCA5 CRL

• Rudimentary LDAP URI Path Discovery Test11 EE

4.1.2.12 Rudimentary LDAP Path Discovery Test12

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the end entity certificate. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the end entity certificate and certifies the key needed to verify the CRL. The end entity certificate has been revoked.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test 12 EE using the

default settings or open and verify Signed Test Message 5.3.2.25 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

 Basic LDAP URI Trust Anchor SubCA5 Cert, Basic LDAP URI Trust Anchor SubCA5 Self-Issued Cert, Basic LDAP URI Trust Anchor SubCA5 CRL

Rudimentary LDAP URI Path Discovery Test12 EE

4.1.2.13 Rudimentary HTTP Path Discovery Test13

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test13 EE using the

default settings or open and verify Signed Test Message 5.3.2.26 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

 Basic HTTP URI Trust Anchor SubCA4 Cert, Basic HTTP URI Trust Anchor SubCA4 CRL

• Basic HTTP URI Trust Anchor SubCA4 Self-Issued Cert

Rudimentary HTTP URI Path Discovery Test13 EE

4.1.2.14 Rudimentary HTTP Path Discovery Test14

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify

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the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate. The end entity certificate has been revoked.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test14 EE using the

default settings or open and verify Signed Test Message 5.3.2.27 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

 Basic HTTP URI Trust Anchor SubCA4 Cert, Basic HTTP URI Trust Anchor SubCA4 CRL

• Basic HTTP URI Trust Anchor SubCA4 Self-Issued Cert

Rudimentary HTTP URI Path Discovery Test14 EE

4.1.2.15 Rudimentary HTTP Path Discovery Test15

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test15 EE using the

default settings or open and verify Signed Test Message 5.3.2.28 using

the default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

 Basic HTTP URI Trust Anchor SubCA5 Cert, Basic HTTP URI Trust Anchor SubCA5 Self-Issued Cert, Basic HTTP URI Trust Anchor SubCA5 CRL

• Rudimentary HTTP URI Path Discovery Test15 EE

4.1.2.16 Rudimentary HTTP Path Discovery Test16

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The intermediate CA has used a different key to sign its CRL than the key used to sign the end entity certificate. The certificate issued by the Trust Anchor Root CA certifies the key needed to verify the CRL. The self-issued certificate issued by the intermediate CA is signed by the key used to sign the CRL and certifies the key needed to verify the end entity certificate. The end entity certificate has been revoked.

Procedure: Validate Rudimentary HTTP URI Path Discovery Test16 EE using the

default settings or open and verify Signed Test Message 5.3.2.29 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

 Basic HTTP URI Trust Anchor SubCA5 Cert, Basic HTTP URI Trust Anchor SubCA5 Self-Issued Cert, Basic HTTP URI Trust Anchor SubCA5 CRL

Rudimentary HTTP URI Path Discovery Test16 EE

4.1.2.17 Rudimentary LDAP Path Discovery Test17

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The first intermediate CA has issued an ARL that lists the second intermediate certificate as revoked.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test 17 EE using the

default settings or open and verify Signed Test Message 5.3.2.30 using

the default settings.

Expected Result: The path should not validate successfully since the second intermediate

certificate has been revoked.

Certification Path: The certification path is composed of the following objects:

 Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL

- Basic LDAP URI Trust Anchor SubCA6 Cert, Basic LDAP URI Trust Anchor SubCA6 CRL
- Basic LDAP URI Trust Anchor SubSubCA6 Cert, Basic LDAP URI Trust Anchor SubSubCA6 CRL
- Rudimentary LDAP URI Path Discovery Test17 EE

4.1.2.18 Rudimentary LDAP Path Discovery Test18

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The directory information for the two intermediate CAs are not stored in the CAs' directory entries, but the LDAP URIs in the authorityInfoAccess, subjectInfoAccess, and cRLDistributionPoints extensions point to the directory entries that hold the information. These directory entries are not located on the LDAP server specified by the LDAP URIs, but the specified LDAP server provides a referral to the server that holds these entries.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test 18 EE using the

default settings or open and verify Signed Test Message 5.3.2.31 using

the default settings.

Expected Result: The path should validate successfully.

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Certification Path: The certification path is composed of the following objects:

- Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL
- Basic LDAP URI Trust Anchor SubCA7 Cert, Basic LDAP URI Trust Anchor SubCA7 CRL
- Basic LDAP URI Trust Anchor SubSubCA7 Cert, Basic LDAP URI Trust Anchor SubSubCA7 CRL
- Rudimentary LDAP URI Path Discovery Test18 EE

4.1.2.19 Rudimentary LDAP Path Discovery Test19

In this test, the end entity certificate is hierarchically subordinate to the trust anchor CA. The directory information for the two intermediate CAs are not stored in the CAs' directory entries, but the LDAP URIs in the authorityInfoAccess, subjectInfoAccess, and cRLDistributionPoints extensions point to the directory entries that hold the information. These directory entries are not located on the LDAP server specified by the LDAP URIs, but the specified LDAP server provides a referral to the server that holds these entries. The end entity certificate has been revoked.

Procedure: Validate Rudimentary LDAP URI Path Discovery Test19 EE using the

default settings or open and verify Signed Test Message 5.3.2.32 using

the default settings.

Expected Result: The path should not validate successfully since the end entity certificate

has been revoked.

Certification Path: The certification path is composed of the following objects:

- Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL
- Basic LDAP URI Trust Anchor SubCA7 Cert, Basic LDAP URI Trust Anchor SubCA7 CRL
- Basic LDAP URI Trust Anchor SubSubCA7 Cert, Basic LDAP URI Trust Anchor SubSubCA7 CRL
- Rudimentary LDAP URI Path Discovery Test19 EE

4.2 Basic Path Discovery

4.2.1 Basic Directory-based Path Discovery

4.2.1.1 Basic Directory Mesh Path Discovery Test1

In this test, there is a non-hierarchical mesh between the trust anchor and the end entity certificate.

Procedure: Validate Basic Directory Path Discovery Test1 EE using the default

settings or open and verify Signed Test Message 5.3.2.33 using the

default settings.

Expected Result: The path should validate successfully.

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Certification Path: The certification path is composed of the following objects:

- Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL
- Basic Directory Trust Anchor to Basic Directory Peer 1 Cert, Basic Directory Peer 1 CRL
- Basic Directory Peer 1 to Basic Directory Peer 2 Cert, Basic Directory Peer 2 CRL
- Basic Directory Peer 2 SubCA Cert, Basic Directory Peer 2 SubCA CRL
- Basic Directory Path Discovery Test1 EE

4.2.1.2 Basic Directory Mesh Path Discovery Test2

In this test, there is a non-hierarchical mesh between the trust anchor and the end entity certificate.

Procedure: Validate Basic Directory Path Discovery Test2 EE using the default

settings or open and verify Signed Test Message 5.3.2.34 using the

default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL
- Basic Directory Trust Anchor to Basic Directory Peer 5 Cert, Basic Directory Peer 5 CRL
- Basic Directory Peer 5 to Basic Directory Peer 8 Cert, Basic Directory Peer 8 CRL
- Basic Directory Peer 8 to Basic Directory Peer 9 Cert, Basic Directory Peer 9 CRL
- Basic Directory Path Discovery Test2 EE

4.2.2 Basic URI based Path Discovery

4.2.2.1 Basic LDAP URI Mesh Path Discovery Test1

In this test, there is a non-hierarchical mesh between the trust anchor and the end entity certificate.

Procedure: Validate Basic LDAP URI Path Discovery Test1 EE using the default

settings or open and verify Signed Test Message 5.3.2.47 using the

default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL
- Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert, Basic LDAP URI Peer 1 CA CRL
- Basic LDAP URI Peer 1 to Basic LDAP URI Peer 2 Cert, Basic LDAP URI Peer 2 CA CRL

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- Basic LDAP URI Peer 2 to Basic LDAP URI Peer 2 SubCA Cert, Basic LDAP URI Peer 2 SubCA CRL
- Basic LDAP URI Path Discovery Test1 EE

4.2.2.2 Basic HTTP URI Mesh Path Discovery Test2

In this test, there is a non-hierarchical mesh between the trust anchor and the end entity certificate.

Procedure: Validate Basic HTTP URI Path Discovery Test2 EE using the default

settings or open and verify Signed Test Message 5.3.2.48 using the

default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

- Basic URI Trust Anchor to Basic HTTP URI Peer 1 Cert, Basic HTTP URI Peer 1 CA CRL
- Basic HTTP URI Peer 1 to Basic HTTP URI Peer 2 Cert, Basic HTTP URI Peer 2 CA CRL
- Basic HTTP URI Peer 2 to Basic HTTP URI Peer 2 SubCA Cert, Basic HTTP URI Peer 2 SubCA CRL
- Basic HTTP URI Path Discovery Test2 EE

4.2.2.3 Basic LDAP URI Mesh Path Discovery Test3

In this test, there is a non-hierarchical mesh between the trust anchor and the end entity certificate.

Procedure: Validate Basic LDAP URI Path Discovery Test3 EE using the default

settings or open and verify Signed Test Message 5.3.2.49 using the

default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic LDAP URI Trust Anchor Root Cert, Basic LDAP URI Trust Anchor Root CRL
- Basic URI Trust Anchor to Basic LDAP URI Peer 5 Cert, Basic LDAP URI Peer 5 CA CRL
- Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert, Basic LDAP URI Peer 8 CA CRL
- Basic LDAP URI Peer 8 to Basic LDAP URI Peer 9 Cert, Basic LDAP URI Peer 9 CA CRL
- Basic LDAP URI Path Discovery Test3 EE

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4.2.2.4 Basic LDAP URI Mesh Path Discovery Test4

In this test, there is a non-hierarchical mesh between the trust anchor and the end entity certificate.

Procedure: Validate Basic HTTP URI Path Discovery Test4 EE using the default

settings or open and verify Signed Test Message 5.3.2.50 using the

default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

 Basic HTTP URI Trust Anchor Root Cert, Basic HTTP URI Trust Anchor Root CRL

- Basic URI Trust Anchor to Basic HTTP URI Peer 5 Cert, Basic HTTP URI Peer 5 CA CRL
- Basic HTTP URI Peer 5 to Basic HTTP URI Peer 8 Cert, Basic HTTP URI Peer 8 CA CRL
- Basic HTTP URI Peer 8 to Basic HTTP URI Peer 9 Cert, Basic HTTP URI Peer 9 CA CRL
- Basic HTTP URI Path Discovery Test4 EE

4.2.3 Basic Combined Path Discovery

4.2.3.1 Basic Combined Mesh Path Discovery Test1

In this test, there is a non-hierarchical mesh between the trust anchor and the end entity certificate. The certificates and CRLs that are issued by CAs "closest" to the trust anchor do not include URIs. The end entity certificate includes LDAP URIs and the final intermediate certificate includes HTTP URIs.

Procedure: Validate Basic Combined Path Discovery OU4 EE1 using the default

settings or open and verify Signed Test Message 5.3.2.75 using the

default settings.

Expected Result: The path should validate successfully.

Certification Path: The certification path is composed of the following objects:

- Basic Directory Trust Anchor Root Cert, Basic Directory Trust Anchor Root CRL
- Basic Directory Trust Anchor to Bridge Directory Cert, Basic Directory Bridge CA ARL1
- Basic Directory Bridge to Combined OU4 CA Cert, Basic Combined OU4 CA CRL
- Basic Combined OU4 to OU4 subCA Cert, Basic Combined OU4 subCA CRL
- Basic Combined Path Discovery OU4 EE1

4.2.4 Additional Basic Bridge Path Discovery Tests

In each of the three basic level PKI architectures (Directory, LDAP URI, and HTTP URI), the trust anchor CA is cross-certified with a "bridge" CA which has in turn cross-certified several

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"organizational" CAs. The certificates and CRLs of the bridge CA and the organizational CAs are nearly identical in all three architectures with the only significant differences lying in the methods by which the certificates and CRLs needed for path validation may be located. In each case, the trust anchor has issued two certificates to the bridge CA with each certificate containing different policy information. This section provides a brief description of each of the organizational PKIs that are cross-certified with the bridge along including information about the end entity certificates issued within each organization.

4.2.4.1 Organization 1

Organization 1 (OU1) operates a single CA that issues certificates under four different policies only three of which are mapped to policies at the bridge CA. The bridge CA has issued a cross-certificate to OU1 that includes the mapping information for these three policies and that includes a name constraints extension limiting OU1 to OU1's name space. The following end entity certificates have been issued by OU1:

Basic Directory Path Discovery OU1 EE1:

Basic LDAP URI Path Discovery OU1 EE1:

Basic HTTP URI Path Discovery OU1 EE1:

These certificates assert certificate policy 2.16.840.1.101.3.2.1.48.37, which maps to 2.16.840.1.101.3.2.1.48.7 at the trust anchor.

Basic Directory Path Discovery OU1 EE2:

Basic LDAP URI Path Discovery OU1 EE2:

Basic HTTP URI Path Discovery OU1 EE2:

These certificates assert certificate policy 2.16.840.1.101.3.2.1.48.38, which maps to 2.16.840.1.101.3.2.1.48.1 and 2.16.840.1.101.3.2.1.48.3 at the trust anchor.

Basic Directory Path Discovery OU1 EE3:

Basic LDAP URI Path Discovery OU1 EE3:

Basic HTTP URI Path Discovery OU1 EE3:

These certificates assert certificate policy 2.16.840.1.101.3.2.1.48.39, which maps to 2.16.840.1.101.3.2.1.48.10 at the trust anchor.

Basic Directory Path Discovery OU1 EE4:

Basic LDAP URI Path Discovery OU1 EE4:

Basic HTTP URI Path Discovery OU1 EE4:

These certificates assert certificate policy 2.16.840.1.101.3.2.1.48.40. Since cross-certificate from bridge CA to the OU1 CA does not include any mapping to 2.16.840.1.101.3.2.1.48.40 and since both cross-certificates from the trust anchor to the bridge CA include a policyConstraints extension with requireExplicitPolicy set to 0, there certificates are not valid.

Basic Directory Path Discovery OU1 EE5:

Basic LDAP URI Path Discovery OU1 EE5:

Basic HTTP URI Path Discovery OU1 EE5:

The subject names in these certificates do not satisfy the name constraints extension in the cross-certificate from the bridge CA to the OU1 CA and so these certificates are not valid.

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4.2.4.2 Organization 2

Organization 2 (Org2) operates a single CA that has maintains four key pairs as a result of having performed key rollover three times. After each key rollover two self-issued certificates were created, one containing the new public key signed by the previous private key and one containing the previous public key signed by the new private key. The CRLs are signed by the newest private key, but the bridge CA cross-certified with second newest key pair. All of the end entity certificates assert two certificate policies. One policy maps to 2.16.840.1.101.3.2.1.48.1 and 2.16.840.1.101.3.2.1.48.3 at the trust anchor while the other policy does not map to any other policies. In the Directory and LDAP URI architectures, LDAP referrals must be followed in order to obtain the information from Org2's directory entry. The end entity certificates differ by the key used to sign them and the CRL distribution point that they reference. Some of the certificates have been revoked.

Basic Directory Path Discovery Org2 EE1: Basic LDAP URI Path Discovery Org2 EE1: Basic HTTP URI Path Discovery Org2 EE1:

These certificates were signed by the private key corresponding to the public key that was certified by the bridge CA.

Basic Directory Path Discovery Org2 EE2: Basic LDAP URI Path Discovery Org2 EE2: Basic HTTP URI Path Discovery Org2 EE2:

These certificates were signed by the private key corresponding to the public key that was certified by the bridge CA and they have been revoked.

Basic Directory Path Discovery Org2 EE3: Basic LDAP URI Path Discovery Org2 EE3: Basic HTTP URI Path Discovery Org2 EE3:

These certificates were signed by the private key that was generated prior to the key pair that was certified by the bridge CA.

Basic Directory Path Discovery Org2 EE4: Basic LDAP URI Path Discovery Org2 EE4: Basic HTTP URI Path Discovery Org2 EE4:

These certificates were signed by the private key that was generated prior to the key pair that was certified by the bridge CA and they have been revoked.

Basic Directory Path Discovery Org2 EE5: Basic LDAP URI Path Discovery Org2 EE5: Basic HTTP URI Path Discovery Org2 EE5:

These certificates were signed by the oldest private key. The self-issued certificate with the oldest public key, signed by the second oldest private key, has been revoked and so these certificates cannot be validated.

4.2.4.3 Organization 3

Organization 3 (OU3) operates 3 CAs: a principal CA that is cross-certified with the bridge CA; a peer CA that is cross-certified with the principal CA; and a subordinate CA that has been issued a certificate by the principal CA. The cross-certificate from the bridge CA to the principal CA includes a name constraints extension that is not satisfied by the cross-certificate from the principal

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CA to the peer CA. This cross-certificate asserts two certificate policies, one which is mapped to policies used by OU3 and one which is not mapped.

Basic Directory Path Discovery OU3 EE1:

Basic LDAP URI Path Discovery OU3 EE1:

Basic HTTP URI Path Discovery OU3 EE1:

These certificates were issued by the subordinate CA and each assert the four certificate policies including one that maps to 2.16.840.1.101.3.2.1.48.10 at the trust anchor.

Basic Directory Path Discovery OU3 EE2:

Basic LDAP URI Path Discovery OU3 EE2:

Basic HTTP URI Path Discovery OU3 EE2:

These certificates were issued by the subordinate CA and assert the certificate policy that was included in the cross-certificate from the bridge CA to the OU3 principal CA (2.16.840.1.101.3.2.1.48.2). This policy is also asserted in the cross-certificate from the trust anchor to the bridge CA that does not include a policy mappings extension. Thus, validating these certificates requires the use of a different cross-certificate from the trust anchor to the bridge CA than is used to validate all of the other end entity certificates.

5 Test Data Descriptions

This section describes the entire test data (certificates, CRLs, etc.,) used in the test procedures. Each of the different types of test data is described in the following sections.

5.1 X.509 Certificates and CRLs

Each test certificate is based on one of several general certificates. These general, or base certificates, contain fields and values typically found in all of the certificates. Each test certificate will refer to exactly one base certificate. Only the differences between the test certificate and the base certificate will be listed so as not to have to repeat the same information in this document.

5.1.1 Base Root Certificate

| ASN.1 Field or Type Name | Critical Flag | ASN. 1 Value | Comments |
|--------------------------|------------------|-----------------------------------|--|
| Certificate | | | |
| tbsCertificate | | | Fields to be signed. |
| version | | 2 | Integer value of "2" indicates a version 3 certificate. |
| serialNumber | | | |
| CertificateSerialNumber | | { Always specified – no default } | Always specified |
| signature | | | |
| AlgorithmIdentifier | | | Must match Algorithm Identifier in signatureAlgorithm field. |
| algorithm | | 1.2.840.113549.1.1.5 | SHA-1WithRSAEncryption |
| parameters | | NULL | |
| issuer | | | |
| Name | | { Always specified – no default } | Uses RFC 2253 format. |
| validity | | | |
| notBefore | | | |
| Time | | | |
| UTCTime | | 050527145720Z | 27 May 2005, 14:57:20 GMT |

| notAfter | | | |
|------------------------|-------|-----------------------------------|---|
| Time | | | |
| UTCTime | | 150819145720Z | 19 August 2015, 14:57:20 GMT |
| subject | | | |
| Name | | { Always specified – no default } | Uses RFC 2253 format. |
| subjectPublicKeyInfo | | | |
| algorithm | | | |
| AlgorithmIdentifier | | | |
| algorithm | | 1.2.840.113549.1.1.1 | RSA Encryption |
| parameters | | NULL | 21 |
| subjectPublicKey | | | |
| BIT STRING | | | Encapsulated form of RSAPublicKey |
| RSAPublicKey | | | |
| modulus | | {Automatically generated} | Length is 1024 bits |
| publicExponent | | 65537 | |
| extensions | | | |
| authorityKeyIdentifier | FALSE | | |
| keyIdentifier | | OCTET STRING | Derived using the SHA-1 hash of the issuer public key. |
| subjectKeyIdentifier | FALSE | | 1000 100 100 100 100 100 100 100 100 10 |
| keyIdentifier | | OCTET STRING | Derived using the SHA-1 hash of the subject public key. |
| basicConstraints | TRUE | | |
| cA | 11102 | TRUE | |
| pathLenConstraint | | INTEGER | not present unless otherwise specified |
| KeyUsage | TRUE | | |
| digitalSignature | | 0 | |
| nonRepudiation | | 0 | |
| keyEncipherment | | 0 | |
| dataEncipherment | | 0 | |
| keyAgreement | | 0 | |
| keyCertSign | | 1 | |
| cRLSign | | 1 | |
| encipherOnly | | 0 | |
| decipherOnly | | 0 | |
| signatureAlgorithm | | | |
| AlgorithmIdentifier | | | |
| algorithm | | 1.2.840.113549.1.1.5 | RSA with SHA-1 |
| parameters | | NULL | |
| signatureValue | | BIT STRING | Signature calculated |

5.1.2 Base Intermediate Certificate

| ASN.1 Field or Type Name | Critical Flag | ASN. 1 Value | Comments |
|--------------------------|------------------|-----------------------------------|--|
| Certificate | | | |
| tbsCertificate | | | Fields to be signed. |
| version | | 2 | Integer Value of "2" for Version 3 certificate. |
| serialNumber | | | |
| CertificateSerialNumber | | { Always specified – no default } | Always specified |
| signature | | | |
| AlgorithmIdentifier | | | Must match Algorithm Identifier in signatureAlgorithm field. |
| algorithm | | 1.2.840.113549.1.1.5 | SHA-1WithRSAEncryption |
| parameters | | NULL | |
| issuer | | | |
| Name | | { Always specified – no default } | X.500 Distinguished name of the issuer of the certificate. |
| validity | | | |
| notBefore | | | |
| Time | | | |

| UTCTime | | 050527145720Z | 27 May 2005, 14:57:20 GMT |
|------------------------|-------|-----------------------------------|---|
| notAfter | | | * ' |
| Time | | | |
| UTCTime | | 150819145720Z | 19 August 2015, 14:57:20 GMT |
| subject | | | |
| Name | | { Always specified – no default } | X.500 Distinguished name of the owner of the certificate. |
| subjectPublicKeyInfo | | | |
| algorithm | | | |
| AlgorithmIdentifier | | | Public key algorithm used. |
| algorithm | | 1.2.840.113549.1.1.1 | RSA Encryption |
| parameters | | NULL | |
| subjectPublicKey | | BIT STRING | Contains the subject public key |
| BIT STRING | | | Encapsulated form of RSAPublicKey |
| RSAPublicKey | | | |
| modulus | | {Automatically generated} | Length is 1024 bits |
| publicExponent | | 65537 | |
| extensions | | | |
| authorityKeyIdentifier | FALSE | | |
| keyIdentifier | | OCTET STRING | Derived using the SHA-1 hash of the issuer public key. |
| subjectKeyIdentifier | FALSE | | |
| keyIdentifier | | OCTET STRING | Derived using the SHA-1 hash of |
| | | | the subject public key. |
| basicConstraints | TRUE | | |
| cA | | TRUE | |
| pathLenConstraint | | INTEGER | not present unless otherwise specified |
| keyUsage | TRUE | | |
| digitalSignature | | 0 | |
| nonRepudiation | | 0 | |
| keyEncipherment | | 0 | |
| dataEncipherment | | 0 | |
| keyAgreement | | 0 | |
| keyCertSign | | 1 | |
| cRLSign | | 1 | |
| encipherOnly | | 0 | |
| decipherOnly | | 0 | |
| certificatePolicies | FALSE | | No policy qualifiers included |
| PolicyInformation | | | |
| policyIdentifier | | | |
| CertPolicyId | | NIST-test-policy-1 | id-test-certificate-policy-1 |
| signatureAlgorithm | | | |
| AlgorithmIdentifier | | | |
| algorithm | | 1.2.840.113549.1.1.5 | SHA-1WithRSAEncryption |
| parameters | | NULL | |
| signatureValue | | BIT STRING | Signature calculated |

5.1.3 Base End Certificate

| ASN.1 Field or Type Name | Critical | ASN. 1 Value | Comments |
|--------------------------|----------|-----------------------------------|------------------------------------|
| | Flag | | |
| Certificate | | | |
| tbsCertificate | | | Fields to be signed. |
| version | | | Integer Value of "2" for Version 3 |
| | | 2 | certificate. |
| serialNumber | | | |
| CertificateSerialNumber | | { Always specified – no default } | Always specified |
| signature | | | |
| AlgorithmIdentifier | | | Must match Algorithm Identifier in |
| | | | signatureAlgorithm field. |
| algorithm | | 1.2.840.113549.1.1.5 | SHA-1WithRSAEncryption |
| parameters | | NULL | |

| issuer | | | |
|------------------------|-------|-----------------------------------|--|
| Name | | { Always specified – no default } | X.500 Distinguished name of the issuer of the certificate. |
| validity | | | |
| notBefore | | | |
| Time | | | |
| UTCTime | | 050527145720Z | 27 May 2005, 14:57:20 GMT |
| notAfter | | | |
| Time | | | |
| UTCTime | | 150819145720Z | 19 August 2015, 14:57:20 GMT |
| subject | | | |
| Name | | { Always specified – no default } | X.500 Distinguished name of the owner of the certificate. |
| subjectPublicKeyInfo | | | |
| algorithm | | | |
| AlgorithmIdentifier | | | Public key algorithm used. |
| algorithm | | 1.2.840.113549.1.1.1 | RSA Encryption |
| parameters | | NULL | |
| subjectPublicKey | | BIT STRING | Contains the subject public key |
| BIT STRING | | | Encapsulated form of RSAPublicKey |
| RSAPublicKey | | | |
| modulus | | {Automatically generated} | Length is 1024 bits |
| publicExponent | | 65537 | |
| extensions | | | |
| authorityKeyIdentifier | FALSE | | |
| keyIdentifier | | OCTET STRING | Derived using the SHA-1 hash of the issuer public key. |
| subjectKeyIdentifier | FALSE | | • |
| keyIdentifier | | OCTET STRING | Derived using the SHA-1 hash of the subject public key. |
| basicConstraints | FALSE | | this extension absent unless otherwise specified |
| cA | | FALSE | |
| pathLenConstraint | | { Absent } | |
| keyUsage | TRUE | | |
| digitalSignature | | 1 | |
| nonRepudiation | | 1 | |
| keyEncipherment | | 1 | |
| dataEncipherment | | 1 | |
| keyAgreement | | 0 | |
| keyCertSign | | 0 | |
| cRLSign | | 0 | |
| encipherOnly | | 0 | |
| decipherOnly | | 0 | |
| certificatePolicies | FALSE | | No policy qualifiers included |
| PolicyInformation | | | |
| policyIdentifier | | | |
| CertPolicyId | | NIST-test-policy-1 | id-test-certificate-policy-1 |
| signatureAlgorithm | | | |
| AlgorithmIdentifier | | | |
| algorithm | | 1.2.840.113549.1.1.5 | SHA-1WithRSAEncryption |
| parameters | | | |
| signatureValue | | BIT STRING | Signature calculated |

5.1.4 Base CRL

| Field | Critical Flag | Value | Comments |
|---------------------|------------------|-------|------------------------------------|
| CertificateList | | | |
| tbsCertList | | | Fields to be signed. |
| version | 1 | | Integer Value of "1" for Version 2 |
| | | | CRL. |
| signature | | | |
| AlgorithmIdentifier | | | Must match Algorithm Identifier in |

| | | | signatureAlgorithm field. |
|-------------------------|-------|-----------------------------------|--|
| algorithm | | 1.2.840.113549.1.1.5 | SHA-1WithRSAEncryption |
| parameters | | NULL | |
| issuer | | | |
| Name | | { Always specified – no default } | X.500 Distinguished name of the issuer of the CRL. |
| thisUpdate | | | |
| Time | | | |
| UTCTime | | 050603214547Z | 03 June 2005, 21:45:47 GMT |
| nextUpdate | | | |
| Time | | | |
| UTCTime | | 150601214547Z | 01 June 2015, 21:45:47 GMT |
| revokedCertificates | | | absent unless otherwise specified |
| userCertificate | | | |
| CertificateSerialNumber | | | |
| revocationDate | | | |
| Time | | | |
| UTCTime | | 050527152305Z | 27 May 2005, 15:23:05 GMT |
| crlEntryExtensions | | | |
| reasonCode | FALSE | | |
| CRLReason | | keyCompromise | |
| crlExtensions | | | |
| crlNumber | FALSE | 1 | |
| authorityKeyIdentifier | FALSE | | |
| keyIdentifier | | OCTET STRING | Derived using the SHA-1 hash of the issuer public key. |
| signatureAlgorithm | | | • |
| AlgorithmIdentifier | | | |
| algorithm | | 1.2.840.113549.1.1.5 | SHA-1WithRSAEncryption |
| parameters | | NULL | |
| signatureValue | | BIT STRING | signature calculated |

5.1.5 Trust Anchors

5.1.5.1 Basic Directory Trust Anchor Root Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

self-signed

5.1.5.2 Basic Directory Trust Anchor Root CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

post to certificateRevocationList

5.1.5.3 Basic LDAP URI Trust Anchor Root Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

5.1.5.4 Basic LDAP URI Trust Anchor Root CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

signed by Basic LDAP URI Trust Anchor Root Cert

post to certificateRevocationList

5.1.5.5 Basic HTTP URI Trust Anchor Root Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1.p7c"

self-signed

5.1.5.6 Basic HTTP URI Trust Anchor Root CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

signed by Basic HTTP URI Trust Anchor Root Cert

5.1.6 Rudimentary Path Discovery Directory Certificates and CRLs

5.1.6.1 Basic Directory Trust Anchor SubCA1 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA1, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

5.1.6.2 Basic Directory Trust Anchor SubCA1 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA1, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubCA1 Cert

post to certificateRevocationList

5.1.6.3 Basic Directory Trust Anchor SubSubCA1 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubCA1, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor SubSubCA1, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubCA1 Cert

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5.1.6.4 Basic Directory Trust Anchor SubSubCA1 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubSubCA1, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubSubCA1 Cert

post to certificateRevocationList

5.1.6.5 Rudimentary Directory Path Discovery Test1 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubSubCA1, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test1, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubSubCA1 Cert

5.1.6.6 Basic Directory Trust Anchor SubCA2 Cert:

base: Base Intermediate Certificate

serial number: 3

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA2, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

5.1.6.7 Basic Directory Trust Anchor SubCA2 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA2, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubCA2 Cert

post to certificateRevocationList

5.1.6.8 Basic Directory Trust Anchor SubSubCA2 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubCA2, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor SubSubCA2, o=Test Certificates, c=US" signed by Basic Directory Trust Anchor SubCA2 Cert

5.1.6.9 Basic Directory Trust Anchor SubSubCA2 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubSubCA2, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubSubCA2 Cert

post to certificateRevocationList

5.1.6.10 Rudimentary Directory Path Discovery Test2 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubSubCA2, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test2, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubSubCA2 Cert

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5.1.6.11 Basic Directory Trust Anchor SubCA3 Cert:

base: Base Intermediate Certificate

serial number: 6

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA3, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

5.1.6.12 Basic Directory Trust Anchor SubCA3 Cert2:

base: Base Intermediate Certificate

serial number: 7

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA3, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

5.1.6.13 Basic Directory Trust Anchor SubCA3 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA3, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 2 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic Directory Trust Anchor SubCA3 Cert2

post to certificateRevocationList

5.1.6.14 Rudimentary Directory Path Discovery Test3 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubCA3, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test3, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubCA3 Cert

5.1.6.15 Rudimentary Directory Path Discovery Test4 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic Directory Trust Anchor SubCA3, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test4, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubCA3 Cert

5.1.6.16 Basic Directory Trust Anchor SubCA4 Cert:

base: Base Intermediate Certificate

serial number: 12

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA4, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

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5.1.6.17 Basic Directory Trust Anchor SubCA4 Self-Issued Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubCA4, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor SubCA4, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubCA4 Cert

5.1.6.18 Basic Directory Trust Anchor SubCA4 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA4, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 3 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic Directory Trust Anchor SubCA4 Cert

post to certificateRevocationList

5.1.6.19 Rudimentary Directory Path Discovery Test5 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic Directory Trust Anchor SubCA4, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test5, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubCA4 Self-Issued Cert

5.1.6.20 Rudimentary Directory Path Discovery Test6 EE:

base: Base End Certificate

serial number: 3

issuer: "cn=Basic Directory Trust Anchor SubCA4, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test6, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubCA4 Self-Issued Cert

5.1.6.21 Basic Directory Trust Anchor SubCA5 Cert:

base: Base Intermediate Certificate

serial number: 13

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA5, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

5.1.6.22 Basic Directory Trust Anchor SubCA5 ARL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA5, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

onlyContainsAuthorityCerts: TRUE

signed by Basic Directory Trust Anchor SubCA5 Cert

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5.1.6.23 Basic Directory Trust Anchor SubCA5 Self-Issued Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubCA5, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor SubCA5, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubCA5 Cert

5.1.6.24 Basic Directory Trust Anchor SubCA5 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA5, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 3 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic Directory Trust Anchor SubCA5 Self-Issued Cert

post to certificateRevocationList

5.1.6.25 Rudimentary Directory Path Discovery Test7 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic Directory Trust Anchor SubCA5, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test7, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubCA5 Cert

5.1.6.26 Rudimentary Directory Path Discovery Test8 EE:

base: Base End Certificate

serial number: 3

issuer: "cn=Basic Directory Trust Anchor SubCA5, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test8, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubCA5 Cert

5.1.6.27 Basic Directory Trust Anchor SubCA6 Cert:

base: Base Intermediate Certificate

serial number: 18

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA6, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

5.1.6.28 Basic Directory Trust Anchor SubCA6 ARL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA6, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

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revokedCertificates: serialNumber: 1 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

cACompromise

signed by Basic Directory Trust Anchor SubCA6 Cert

post to authorityRevocationList

5.1.6.29 Basic Directory Trust Anchor SubSubCA6 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubCA6, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor SubSubCA6, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor SubCA6 Cert

5.1.6.30 Basic Directory Trust Anchor SubSubCA6 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubSubCA6, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 36 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

affiliationChanged

signed by Basic Directory Trust Anchor SubSubCA6 Cert

post to certificateRevocationList

5.1.6.31 Rudimentary Directory Path Discovery Test9 EE:

base: Base End Certificate

serial number: 3

issuer: "cn=Basic Directory Trust Anchor SubSubCA6, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test9, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubSubCA6 Cert

5.1.6.32 Basic Directory Trust Anchor SubCA7 Cert:

base: Base Intermediate Certificate

serial number: 19

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic Directory Trust Anchor SubCA7, o=Test Certificates, c=US"

signed by Basic Directory Trust Anchor Root Cert

5.1.6.33 Basic Directory Trust Anchor SubCA7 CRL:

base: Base CRL

issuer: "cn=Basic Directory Trust Anchor SubCA7, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical onlyContainsUserCerts: TRUE

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```
revokedCertificates:
   serialNumber: 1
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               keyCompromise
signed by Basic Directory Trust Anchor SubCA7 Cert
post to certificateRevocationList at "cn=Basic Directory Trust Anchor SubCA7 EECRL, o=Test
Certificates, c=US"
```

5.1.6.34 Basic Directory Trust Anchor SubCA7 ARL:

base: Base CRL issuer: "cn=Basic Directory Trust Anchor SubCA7, o=Test Certificates, c=US" crlExtension: issuingDistributionPoint: critical onlyContainsAuthorityCerts: TRUE revokedCertificates: serialNumber: 2 crlEntryExtensions: reasonCodeExtension: not critical reasons: cACompromise signed by Basic Directory Trust Anchor SubCA7 Cert post to authorityRevocationList at "cn=Basic Directory Trust Anchor SubCA7 ARL, o=Test Certificates,

5.1.6.35 Rudimentary Directory Path Discovery Test10 EE: base: Base End Certificate serial number: 1 issuer: "cn=Basic Directory Trust Anchor SubCA7, o=Test Certificates, c=US" subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test10, o=Test Certificates, c=US" cRLDistributionPoints: not critical distributionPoint: fullName: directoryName: "cn=Basic Directory Trust Anchor SubCA7 EECRL, o=Test Certificates, c=US" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic Directory Trust Anchor SubCA7 Cert

5.1.6.36 Basic Directory Trust Anchor SubSubCA7 Cert:

base: Base Intermediate Certificate serial number: 2 issuer: "cn=Basic Directory Trust Anchor SubCA7, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor SubSubCA7, o=Test Certificates, c=US" cRLDistributionPoints: not critical distributionPoint: fullName: directoryName: "cn=Basic Directory Trust Anchor SubCA7 ARL, o=Test Certificates, c=US" signed by Basic Directory Trust Anchor SubCA7 Cert

5.1.6.37 Basic Directory Trust Anchor SubSubCA7 CRL:

base: Base CRL

c=US"

DRAFT - 6/3/200537 **NIST** issuer: "cn=Basic Directory Trust Anchor SubSubCA7, o=Test Certificates, c=US" signed by Basic Directory Trust Anchor SubSubCA7 Cert post to certificateRevocationList

5.1.6.38 Rudimentary Directory Path Discovery Test11 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic Directory Trust Anchor SubSubCA7, o=Test Certificates, c=US"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test11, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubSubCA7 Cert

5.1.6.39 Basic Directory Trust Anchor SubCA8 Cert:

base: Base Intermediate Certificate

serial number: 30

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

subject: "dc=BasicSubCA8, dc=testcertificates, dc=gov" signed by Basic Directory Trust Anchor Root Cert

5.1.6.40 Basic Directory Trust Anchor SubCA8 CRL:

base: Base CRL

issuer: "dc=BasicSubCA8, dc=testcertificates, dc=gov" signed by Basic Directory Trust Anchor SubCA8 Cert

post to certificateRevocationList

5.1.6.41 Basic Directory Trust Anchor SubSubCA8 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "dc=BasicSubCA8, dc=testcertificates, dc=gov" subject: "dc=BasicSubSubCA8, dc=testcertificates, dc=gov" signed by Basic Directory Trust Anchor SubCA8 Cert

5.1.6.42 Basic Directory Trust Anchor SubSubCA8 CRL:

base: Base CRL

issuer: "dc=BasicSubSubCA8, dc=testcertificates, dc=gov"

revokedCertificates: serialNumber: 2 crlEntryExtensions:

illing year chistons.

reasonCodeExtension: not critical

reasons:

kevCompromise

signed by Basic Directory Trust Anchor SubSubCA8 Cert

post to certificateRevocationList

5.1.6.43 Rudimentary Directory Path Discovery Test12 EE:

base: Base End Certificate

serial number: 1

issuer: "dc=BasicSubSubCA8, dc=testcertificates, dc=gov"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test12, o=Test Certificates, c=US"

subjectAltNameExtension:

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rfc822Name: "sender@testcertificates.gov" signed by Basic Directory Trust Anchor SubSubCA8 Cert

5.1.6.44 Rudimentary Directory Path Discovery Test13 EE:

base: Base End Certificate

serial number: 2

issuer: "dc=BasicSubSubCA8, dc=testcertificates, dc=gov"

subject: "cn=Rudimentary Directory Path Discovery EE Certificate Test13, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Trust Anchor SubSubCA8 Cert

5.1.7 Rudimentary Path Discovery LDAP URI Certificates and CRLs

5.1.7.1 Basic LDAP URI Trust Anchor SubCA1 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic LDAP URI Trust Anchor SubCA1, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA1,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?certificateRevocationList;binary"

signed by Basic LDAP URI Trust Anchor Root Cert

5.1.7.2 Basic LDAP URI Trust Anchor SubCA1 CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubCA1, o=Test Certificates, c=US"

signed by Basic LDAP URI Trust Anchor SubCA1 Cert

post to certificateRevocationList

5.1.7.3 Basic LDAP URI Trust Anchor SubSubCA1 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Trust Anchor SubCA1, o=Test Certificates, c=US"

subject: "cn=Basic LDAP URI Trust Anchor SubSubCA1, o=Test Certificates, c=US"

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```
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA1,o=Te
st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA1,o
=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           IJRI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA1,o=Te
st%20Certificates,c=US?certificateRevocationList;binary"
signed by Basic LDAP URI Trust Anchor SubCA1 Cert
```

5.1.7.4 Basic LDAP URI Trust Anchor SubSubCA1 CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA1, o=Test Certificates, c=US"

signed by Basic LDAP URI Trust Anchor SubSubCA1 Cert

post to certificateRevocationList

5.1.7.5 Rudimentary LDAP URI Path Discovery Test1 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA1, o=Test Certificates, c=US"

subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test1, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA1,o =Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA1,o =Test%20Certificates,c=US?certificateRevocationList;binary"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic LDAP URI Trust Anchor SubSubCA1 Cert

5.1.7.6 Basic LDAP URI Trust Anchor SubCA2 Cert:

base: Base Intermediate Certificate

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serial number: 4

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic LDAP URI Trust Anchor SubCA2, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?certificateRevocationList;binary"

signed by Basic LDAP URI Trust Anchor Root Cert

5.1.7.7 Basic LDAP URI Trust Anchor SubCA2 CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubCA2, o=Test Certificates, c=US"

signed by Basic LDAP URI Trust Anchor SubCA2 Cert

post to certificateRevocationList

5.1.7.8 Basic LDAP URI Trust Anchor SubSubCA2 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Trust Anchor SubCA2, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Trust Anchor SubSubCA2, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA2,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA2,o=Te st%20Certificates,c=US?certificateRevocationList;binary" signed by Basic LDAP URI Trust Anchor SubCA2 Cert

5.1.7.9 Basic LDAP URI Trust Anchor SubSubCA2 CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA2, o=Test Certificates, c=US"

signed by Basic LDAP URI Trust Anchor SubSubCA2 Cert

post to certificateRevocationList

5.1.7.10 Rudimentary LDAP URI Path Discovery Test3 EE:

base: Base End Certificate

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```
serial number: 1
issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA2, o=Test Certificates, c=US"
subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test3, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA2,o
=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA2,o
=Test%20Certificates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI Trust Anchor SubSubCA2 Cert
5.1.7.11 Basic LDAP URI Trust Anchor SubCA3 Cert:
base: Base Intermediate Certificate
serial number: 8
issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Trust Anchor SubCA3, o=Test Certificates, c=US"
authorityInfoAccess: not critical
```

AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA3,o=Te st%20Certificates.c=US?cACertificate:binary.crossCertificatePair:binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor.o=Test%20Certific

signed by Basic LDAP URI Trust Anchor Root Cert

5.1.7.12 Basic LDAP URI Trust Anchor SubCA3 Cert2:

base: Base Intermediate Certificate

ates,c=US?certificateRevocationList;binary"

serial number: 9

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic LDAP URI Trust Anchor SubCA3, o=Test Certificates, c=US"

authorityInfoAccess: not critical

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```
AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor.o=Test%20Certific
ates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA3,o=Te
st%20Certificates.c=US?cACertificate;binary.crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific
ates,c=US?certificateRevocationList;binary"
signed by Basic LDAP URI Trust Anchor Root Cert
5.1.7.13 Basic LDAP URI Trust Anchor SubCA3 CRL:
base: Base CRL
issuer: "cn=Basic LDAP URI Trust Anchor SubCA3, o=Test Certificates, c=US"
revokedCertificates:
   serialNumber: 2
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               keyCompromise
signed by Basic LDAP URI Trust Anchor SubCA3 Cert2
post to certificateRevocationList
5.1.7.14 Rudimentary LDAP URI Path Discovery Test5 EE:
base: Base End Certificate
serial number: 1
issuer: "cn=Basic LDAP URI Trust Anchor SubCA3, o=Test Certificates, c=US"
subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test5, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA3,o=Te
st%20Certificates.c=US?cACertificate;binary.crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA3,o=Te
st%20Certificates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
```

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rfc822Name: "sender@testcertificates.gov"

base: Base End Certificate

5.1.7.15 Rudimentary LDAP URI Path Discovery Test6 EE:

```
serial number: 2
issuer: "cn=Basic LDAP URI Trust Anchor SubCA3, o=Test Certificates, c=US"
subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test6, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA3.o=Te
st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA3,o=Te
st%20Certificates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI Trust Anchor SubCA3 Cert
5.1.7.16 Basic LDAP URI Trust Anchor SubCA4 Cert:
base: Base Intermediate Certificate
serial number: 14
issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Trust Anchor SubCA4, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific
ates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te
st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor.o=Test%20Certific
ates,c=US?certificateRevocationList;binary"
signed by Basic LDAP URI Trust Anchor Root Cert
```

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5.1.7.17 Basic LDAP URI Trust Anchor SubCA4 Self-Issued Cert:

base: Base Intermediate Certificate serial number: 1 issuer: "cn=Basic LDAP URI Trust Anchor SubCA4, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Trust Anchor SubCA4, o=Test Certificates, c=US" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te st%20Certificates.c=US?certificateRevocationList;binary" signed by Basic LDAP URI Trust Anchor SubCA4 Cert 5.1.7.18 Basic LDAP URI Trust Anchor SubCA4 CRL: base: Base CRL issuer: "cn=Basic LDAP URI Trust Anchor SubCA4, o=Test Certificates, c=US" revokedCertificates: serialNumber: 3 crlEntryExtensions: reasonCodeExtension: not critical reasons: keyCompromise signed by Basic LDAP URI Trust Anchor SubCA4 Cert post to certificateRevocationList 5.1.7.19 Rudimentary LDAP URI Path Discovery Test9 EE: base: Base End Certificate serial number: 2 issuer: "cn=Basic LDAP URI Trust Anchor SubCA4, o=Test Certificates, c=US" subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test9, o=Test Certificates, c=US" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI:

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"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te

st%20Certificates.c=US?cACertificate;binary.crossCertificatePair;binary"

cRLDistributionPoints: not critical

```
distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te
st%20Certificates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI Trust Anchor SubCA4 Self-Issued Cert
5.1.7.20 Rudimentary LDAP URI Path Discovery Test10 EE:
base: Base End Certificate
serial number: 3
issuer: "cn=Basic LDAP URI Trust Anchor SubCA4, o=Test Certificates, c=US"
subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test10, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te
st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA4,o=Te
st%20Certificates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI Trust Anchor SubCA4 Self-Issued Cert
5.1.7.21 Basic LDAP URI Trust Anchor SubCA5 Cert:
base: Base Intermediate Certificate
serial number: 15
issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Trust Anchor SubCA5, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific
ates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA5,o=Te
st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
```

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distributionPoint: fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?certificateRevocationList;binary" signed by Basic LDAP URI Trust Anchor Root Cert

5.1.7.22 Basic LDAP URI Trust Anchor SubCA5 ARL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

onlyContainsAuthorityCerts: TRUE

signed by Basic LDAP URI Trust Anchor SubCA5 Cert

post to authorityRevocationList

5.1.7.23 Basic LDAP URI Trust Anchor SubCA5 Self-Issued Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Trust Anchor SubCA5, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA5,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA5,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA5,o=Te st%20Certificates,c=US?authorityRevocationList;binary" signed by Basic LDAP URI Trust Anchor SubCA5 Cert

signed of Busic BBill old linger moner succinc con-

5.1.7.24 Basic LDAP URI Trust Anchor SubCA5 CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 3

crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic LDAP URI Trust Anchor SubCA5 Self-Issued Cert

post to certificateRevocationList

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5.1.7.25 Rudimentary LDAP URI Path Discovery Test11 EE: base: Base End Certificate serial number: 2 issuer: "cn=Basic LDAP URI Trust Anchor SubCA5, o=Test Certificates, c=US" subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test11, o=Test Certificates, c=US" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA5,o=Te st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA5,o=Te st%20Certificates,c=US?certificateRevocationList;binary" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic LDAP URI Trust Anchor SubCA5 Cert 5.1.7.26 Rudimentary LDAP URI Path Discovery Test12 EE: base: Base End Certificate serial number: 3 issuer: "cn=Basic LDAP URI Trust Anchor SubCA5, o=Test Certificates, c=US" subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test12, o=Test Certificates, c=US" authorityInfoAccess: not critical

5.1.7.27 Basic LDAP URI Trust Anchor SubCA6 Cert:

base: Base Intermediate Certificate
serial number: 20
issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Trust Anchor SubCA6, o=Test Certificates, c=US"
authorityInfoAccess: not critical
AccessDescription:
accessMethod: id-ad-caIssuers

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```
accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific
ates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA6,o=Te
st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor.o=Test%20Certific
```

5.1.7.28 Basic LDAP URI Trust Anchor SubCA6 ARL:

ates,c=US?certificateRevocationList;binary"

signed by Basic LDAP URI Trust Anchor Root Cert

base: Base CRL
issuer: "cn=Basic LDAP URI Trust Anchor SubCA6, o=Test Certificates, c=US"
crlExtension:
issuingDistributionPoint: critical
onlyContainsAuthorityCerts: TRUE
revokedCertificates:
serialNumber: 1
crlEntryExtensions:
reasonCodeExtension: not critical
reasons:
cACompromise
signed by Basic LDAP URI Trust Anchor SubCA6 Cert
post to authorityRevocationList at "cn=Basic LDAP URI Trust Anchor SubCA6 ARL o=Test

post to authorityRevocationList at "cn=Basic LDAP URI Trust Anchor SubCA6 ARL, o=Test Certificates, c=US"

5.1.7.29 Basic LDAP URI Trust Anchor SubSubCA6 Cert:

accessMethod: id-ad-caRepository

accessLocation:

base: Base Intermediate Certificate
serial number: 1
issuer: "cn=Basic LDAP URI Trust Anchor SubCA6, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Trust Anchor SubSubCA6, o=Test Certificates, c=US"
authorityInfoAccess: not critical
 AccessDescription:
 accessMethod: id-ad-caIssuers
 accessLocation:
 URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA6,o=Te
st%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
 AccessDescription:

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URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA6,o =Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubCA6 ARL,o=Test%20Certificates,c=US?authorityRevocationList;binary"

signed by Basic LDAP URI Trust Anchor SubCA6 Cert

5.1.7.30 Basic LDAP URI Trust Anchor SubSubCA6 CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA6, o=Test Certificates, c=US"

signed by Basic LDAP URI Trust Anchor SubSubCA6 Cert

post to certificateRevocationList

5.1.7.31 Rudimentary LDAP URI Path Discovery Test17 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA6, o=Test Certificates, c=US"

subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test17, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA6,o =Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor%20SubSubCA6,o =Test%20Certificates,c=US?certificateRevocationList;binary"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic LDAP URI Trust Anchor SubSubCA6 Cert

5.1.7.32 Basic LDAP URI Trust Anchor SubCA7 Cert:

base: Base Intermediate Certificate

serial number: 31

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic LDAP URI Trust Anchor SubCA7, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

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```
AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubCA7,dc=testcertificates.dc=gov?cACertificate
;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor.o=Test%20Certific
ates.c=US?certificateRevocationList;binary"
signed by Basic LDAP URI Trust Anchor Root Cert
5.1.7.33 Basic LDAP URI Trust Anchor SubCA7 CRL:
```

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubCA7, o=Test Certificates, c=US"

signed by Basic LDAP URI Trust Anchor SubCA7 Cert

post to certificateRevocationList at "dc=BasicLDAPURISubCA7,dc=testcertificates,dc=gov"

5.1.7.34 Basic LDAP URI Trust Anchor SubSubCA7 Cert:

base: Base Intermediate Certificate serial number: 1 issuer: "cn=Basic LDAP URI Trust Anchor SubCA7, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Trust Anchor SubSubCA7, o=Test Certificates, c=US" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI:

"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubCA7,dc=testcertificates.dc=gov?cACertificate ;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubSubCA7,dc=testcertificates,dc=gov?cACertifi cate; binary, cross Certificate Pair; binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubCA7,dc=testcertificates,dc=gov?certificateRev ocationList;binary"

signed by Basic LDAP URI Trust Anchor SubCA7 Cert

5.1.7.35 Basic LDAP URI Trust Anchor SubSubCA7 CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA7, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 2

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```
crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               keyCompromise
signed by Basic LDAP URI Trust Anchor SubSubCA7 Cert
post to certificateRevocationList at "dc=BasicLDAPURISubSubCA7,dc=testcertificates,dc=gov"
5.1.7.36 Rudimentary LDAP URI Path Discovery Test18 EE:
base: Base End Certificate
serial number: 1
issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA7, o=Test Certificates, c=US"
subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test18, o=Test Certificates, c=US"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubSubCA7,dc=testcertificates,dc=gov?cACertifi
cate; binary, cross Certificate Pair; binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubSubCA7,dc=testcertificates,dc=gov?certificate
RevocationList; binary"
subjectAltNameExtension:
    rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI Trust Anchor SubSubCA7 Cert
5.1.7.37 Rudimentary LDAP URI Path Discovery Test19 EE:
base: Base End Certificate
serial number: 2
issuer: "cn=Basic LDAP URI Trust Anchor SubSubCA7, o=Test Certificates, c=US"
subject: "cn=Rudimentary LDAP URI Path Discovery EE Certificate Test19, o=Test Certificates, c=US"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubSubCA7,dc=testcertificates,dc=gov?cACertifi
cate; binary, cross Certificate Pair; binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/dc=BasicLDAPURISubSubCA7,dc=testcertificates,dc=gov?certificate
RevocationList; binary"
subjectAltNameExtension:
```

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rfc822Name: "sender@testcertificates.gov"

signed by Basic LDAP URI Trust Anchor SubSubCA7 Cert

5.1.8 Rudimentary Path Discovery HTTP URI Certificates and CRLs

5.1.8.1 Basic HTTP URI Trust Anchor SubCA1 Cert:

base: Base Intermediate Certificate

serial number: 3

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Trust Anchor SubCA1, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubCA1.p7c"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" signed by Basic HTTP URI Trust Anchor Root Cert

5.1.8.2 Basic HTTP URI Trust Anchor SubCA1 CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Trust Anchor SubCA1, o=Test Certificates, c=US"

signed by Basic HTTP URI Trust Anchor SubCA1 Cert

5.1.8.3 Basic HTTP URI Trust Anchor SubSubCA1 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor SubCA1, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Trust Anchor SubSubCA1, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubSubCA1.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA1CRL.crl" signed by Basic HTTP URI Trust Anchor SubCA1 Cert

5.1.8.4 Basic HTTP URI Trust Anchor SubSubCA1 CRL:

base: Base CRL

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issuer: "cn=Basic HTTP URI Trust Anchor SubSubCA1, o=Test Certificates, c=US" signed by Basic HTTP URI Trust Anchor SubSubCA1 Cert

5.1.8.5 Rudimentary HTTP URI Path Discovery Test2 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor SubSubCA1, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test2, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubSubCA1.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubSubCA1CRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubSubCA1 Cert

5.1.8.6 Basic HTTP URI Trust Anchor SubCA2 Cert:

base: Base Intermediate Certificate

serial number: 5

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Trust Anchor SubCA2, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" signed by Basic HTTP URI Trust Anchor Root Cert

5.1.8.7 Basic HTTP URI Trust Anchor SubCA2 CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Trust Anchor SubCA2, o=Test Certificates, c=US"

signed by Basic HTTP URI Trust Anchor SubCA2 Cert

5.1.8.8 Basic HTTP URI Trust Anchor SubSubCA2 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor SubCA2, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Trust Anchor SubSubCA2, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

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URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA2.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA2CRL.crl" signed by Basic HTTP URI Trust Anchor SubCA2 Cert

5.1.8.9 Basic HTTP URI Trust Anchor SubSubCA2 CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Trust Anchor SubSubCA2, o=Test Certificates, c=US"

signed by Basic HTTP URI Trust Anchor SubSubCA2 Cert

5.1.8.10 Rudimentary HTTP URI Path Discovery Test4 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor SubSubCA2, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test4, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubSubCA2.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubSubCA2CRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubSubCA2 Cert

5.1.8.11 Basic HTTP URI Trust Anchor SubCA3 Cert:

base: Base Intermediate Certificate

serial number: 10

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Trust Anchor SubCA3, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubCA3.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" signed by Basic HTTP URI Trust Anchor Root Cert

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5.1.8.12 Basic HTTP URI Trust Anchor SubCA3 Cert2:

base: Base Intermediate Certificate

serial number: 11

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Trust Anchor SubCA3, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubCA3.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" signed by Basic HTTP URI Trust Anchor Root Cert

5.1.8.13 Basic HTTP URI Trust Anchor SubCA3 CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Trust Anchor SubCA3, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 2 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic HTTP URI Trust Anchor SubCA3 Cert2

5.1.8.14 Rudimentary HTTP URI Path Discovery Test7 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor SubCA3, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test7, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA3.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA3CRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubCA3 Cert

5.1.8.15 Rudimentary HTTP URI Path Discovery Test8 EE:

base: Base End Certificate

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serial number: 2

issuer: "cn=Basic HTTP URI Trust Anchor SubCA3, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test8, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA3.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA3CRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubCA3 Cert

5.1.8.16 Basic HTTP URI Trust Anchor SubCA4 Cert:

base: Base Intermediate Certificate

serial number: 16

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Trust Anchor SubCA4, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubCA4.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" signed by Basic HTTP URI Trust Anchor Root Cert

5.1.8.17 Basic HTTP URI Trust Anchor SubCA4 Self-Issued Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor SubCA4, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Trust Anchor SubCA4, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA4.p7c" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubCA4.p7c"

cRLDistributionPoints: not critical

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distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA4CRL.crl" signed by Basic HTTP URI Trust Anchor SubCA4 Cert

5.1.8.18 Basic HTTP URI Trust Anchor SubCA4 CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Trust Anchor SubCA4, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 3 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic HTTP URI Trust Anchor SubCA4 Cert

5.1.8.19 Rudimentary HTTP URI Path Discovery Test13 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Trust Anchor SubCA4, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test13, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA4.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA4CRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubCA4 Self-Issued Cert

5.1.8.20 Rudimentary HTTP URI Path Discovery Test14 EE:

base: Base End Certificate

serial number: 3

issuer: "cn=Basic HTTP URI Trust Anchor SubCA4, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test14, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

 $URI: \ "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA4.p7c" \\$

cRLDistributionPoints: not critical

distributionPoint:

fullName:

 $URI: \ "http://Webserver1.subdomain.tld/CRL directory/BasicHTTPURITrustAnchorSubCA4CRL.crl" subjectAltNameExtension:$

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubCA4 Self-Issued Cert

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5.1.8.21 Basic HTTP URI Trust Anchor SubCA5 Cert:

base: Base Intermediate Certificate

serial number: 17

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubCA5.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" signed by Basic HTTP URI Trust Anchor Root Cert

5.1.8.22 Basic HTTP URI Trust Anchor SubCA5 ARL:

base: Base CRL

issuer: "cn=Basic HTTP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

onlyContainsAuthorityCerts: TRUE

signed by Basic HTTP URI Trust Anchor SubCA5 Cert

5.1.8.23 Basic HTTP URI Trust Anchor SubCA5 Self-Issued Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Trust Anchor SubCA5, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA5.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

 $URI: \ "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1SubCA5.p7c" \\$

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA5ARL.crl" signed by Basic HTTP URI Trust Anchor SubCA5 Cert

5.1.8.24 Basic HTTP URI Trust Anchor SubCA5 CRL:

base: Base CRL

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issuer: "cn=Basic HTTP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

revokedCertificates: serialNumber: 3 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic HTTP URI Trust Anchor SubCA5 Self-Issued Cert

5.1.8.25 Rudimentary HTTP URI Path Discovery Test15 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test15, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA5.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA5CRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubCA5 Cert

5.1.8.26 Rudimentary HTTP URI Path Discovery Test16 EE:

base: Base End Certificate

serial number: 3

issuer: "cn=Basic HTTP URI Trust Anchor SubCA5, o=Test Certificates, c=US"

subject: "cn=Rudimentary HTTP URI Path Discovery EE Certificate Test16, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1SubCA5.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorSubCA5CRL.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Trust Anchor SubCA5 Cert

5.1.9 Basic Path Discovery Directory Certificates and CRLs

5.1.9.1 Basic Directory Trust Anchor to Basic Directory Peer 1 Cert:

base: Base Intermediate Certificate

serial number: 4

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 1 CA, o=Test Certificates, c=US"

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5.1.9.2 Basic Directory Peer 1 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 1 CA, o=Test Certificates, c=US" signed by Basic Directory Trust Anchor to Basic Directory Peer 1 Cert

post to certificateRevocationList

5.1.9.3 Basic Directory Peer 1 to Basic Directory Trust Anchor Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 1 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US" public leav from Pagic Directory Trust Anchor Peet Cert

public key from Basic Directory Trust Anchor Root Cert

signed by Basic Directory Trust Anchor to Basic Directory Peer 1 Cert

5.1.9.4 Basic Directory Peer 2 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US" self-signed

5.1.9.5 Basic Directory Peer 2 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US"

signed by Basic Directory Peer 2 CA Cert

post to certificateRevocationList

5.1.9.6 Basic Directory Peer 1 to Basic Directory Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic Directory Peer 1 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US"

public key from Basic Directory Peer 2 CA Cert

signed by Basic Directory Trust Anchor to Basic Directory Peer 1 Cert

5.1.9.7 Basic Directory Peer 2 to Basic Directory Peer 1 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 1 CA, o=Test Certificates, c=US"

public key from Basic Directory Trust Anchor to Basic Directory Peer 1 Cert

signed by Basic Directory Peer 2 CA Cert

5.1.9.8 Basic Directory Peer 3 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 3 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 3 CA, o=Test Certificates, c=US"

self-signed

5.1.9.9 Basic Directory Peer 3 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 3 CA, o=Test Certificates, c=US"

signed by Basic Directory Peer 3 CA Cert

post to certificateRevocationList

5.1.9.10 Basic Directory Peer 3 to Basic Directory Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic Directory Peer 3 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US"

public key from Basic Directory Peer 2 CA Cert signed by Basic Directory Peer 3 CA Cert

5.1.9.11 Basic Directory Peer 4 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 4 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 4 CA, o=Test Certificates, c=US"

self-signed

5.1.9.12 Basic Directory Peer 4 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 4 CA, o=Test Certificates, c=US"

signed by Basic Directory Peer 4 CA Cert

post to certificateRevocationList

5.1.9.13 Basic Directory Peer 4 to Basic Directory Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic Directory Peer 4 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US"

public key from Basic Directory Peer 2 CA Cert signed by Basic Directory Peer 4 CA Cert

5.1.9.14 Basic Directory Peer 2 SubCA Cert:

base: Base Intermediate Certificate

serial number: 3

issuer: "cn=Basic Directory Peer 2 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 2 SubCA, o=Test Certificates, c=US"

signed by Basic Directory Peer 2 CA Cert

5.1.9.15 Basic Directory Peer 2 SubCA CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 2 SubCA, o=Test Certificates, c=US"

signed by Basic Directory Peer 2 SubCA Cert

post to certificateRevocationList

5.1.9.16 Basic Directory Path Discovery Test1 EE:

base: Base End Certificate

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serial number: 1

issuer: "cn=Basic Directory Peer 2 SubCA, o=Test Certificates, c=US"

subject: "cn=Basic Directory Path Discovery EE Certificate Test1, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic Directory Peer 2 SubCA Cert

5.1.9.17 Basic Directory Peer 5 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US"

self-signed

5.1.9.18 Basic Directory Peer 5 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US"

signed by Basic Directory Peer 5 CA Cert

post to certificateRevocationList

5.1.9.19 Basic Directory Trust Anchor to Basic Directory Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 5

issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US"

public key from Basic Directory Peer 5 CA Cert signed by Basic Directory Trust Anchor Root Cert

5.1.9.20 Basic Directory Peer 5 to Basic Directory Trust Anchor Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"

public key from Basic Directory Trust Anchor Root Cert

signed by Basic Directory Peer 5 CA Cert

5.1.9.21 Basic Directory Peer 6 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 6 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 6 CA, o=Test Certificates, c=US"

self-signed

5.1.9.22 Basic Directory Peer 6 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 6 CA, o=Test Certificates, c=US"

signed by Basic Directory Peer 6 CA Cert

post to certificateRevocationList

5.1.9.23 Basic Directory Peer 6 to Basic Directory Peer 5 Cert:

base: Base Intermediate Certificate

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serial number: 2

issuer: "cn=Basic Directory Peer 6 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US"

public key from Basic Directory Peer 5 CA Cert signed by Basic Directory Peer 6 CA Cert

5.1.9.24 Basic Directory Peer 7 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 7 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 7 CA, o=Test Certificates, c=US"

self-signed

5.1.9.25 Basic Directory Peer 7 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 7 CA, o=Test Certificates, c=US"

signed by Basic Directory Peer 7 CA Cert

post to certificateRevocationList

5.1.9.26 Basic Directory Peer 7 to Basic Directory Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic Directory Peer 7 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US"

public key from Basic Directory Peer 5 CA Cert signed by Basic Directory Peer 7 CA Cert

5.1.9.27 Basic Directory Peer 5 to Basic Directory Peer 8 Cert:

base: Base Intermediate Certificate

serial number: 3

issuer: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 8 CA, o=Test Certificates, c=US"

signed by Basic Directory Peer 5 CA Cert

5.1.9.28 Basic Directory Peer 8 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 8 CA, o=Test Certificates, c=US" signed by Basic Directory Peer 5 to Basic Directory Peer 8 Cert

post to certificateRevocationList

5.1.9.29 Basic Directory Peer 8 to Basic Directory Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 8 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 5 CA, o=Test Certificates, c=US"

public key from Basic Directory Peer 5 CA Cert

signed by Basic Directory Peer 5 to Basic Directory Peer 8 Cert

5.1.9.30 Basic Directory Peer 8 to Basic Directory Peer 9 Cert:

base: Base Intermediate Certificate

serial number: 2

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issuer: "cn=Basic Directory Peer 8 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 9 CA, o=Test Certificates, c=US" signed by Basic Directory Peer 5 to Basic Directory Peer 8 Cert

5.1.9.31 Basic Directory Peer 9 CRL:

base: Base CRL

issuer: "cn=Basic Directory Peer 9 CA, o=Test Certificates, c=US" signed by Basic Directory Peer 8 to Basic Directory Peer 9 Cert

post to certificateRevocationList

5.1.9.32 Basic Directory Peer 9 to Basic Directory Peer 8 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic Directory Peer 9 CA, o=Test Certificates, c=US" subject: "cn=Basic Directory Peer 8 CA, o=Test Certificates, c=US" public key from Basic Directory Peer 5 to Basic Directory Peer 8 Cert signed by Basic Directory Peer 8 to Basic Directory Peer 9 Cert

5.1.9.33 Basic Directory Path Discovery Test2 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic Directory Peer 9 CA, o=Test Certificates, c=US"

subject: "cn=Basic Directory Path Discovery EE Certificate Test2, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Peer 8 to Basic Directory Peer 9 Cert

5.1.9.34 Basic Directory Bridge CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"

cRLDistributionPoints: not critical

distributionPoint: fullName:

directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"

self-signed

5.1.9.35 Basic Directory Bridge CA Cert2:

base: Base Root Certificate

serial number: 2

issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"

self-signed

5.1.9.36 Basic Directory Bridge CA Cert3:

base: Base Intermediate Certificate

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```
serial number: 3
issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
cRLDistributionPoints: not critical
    distributionPoint:
    fullName:
        directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.5.29.32.0"
public key from Basic Directory Bridge CA Cert
signed by Basic Directory Bridge CA Cert2
```

5.1.9.37 Basic Directory Bridge CA Cert4:

base: Base Intermediate Certificate
serial number: 4
issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
cRLDistributionPoints: not critical
 distributionPoint:
 fullName:
 directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
 "2.5.29.32.0"
public key from Basic Directory Bridge CA Cert2
signed by Basic Directory Bridge CA Cert

5.1.9.38 Basic Directory Bridge CA CRL:

base: Base CRL issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US" signed by Basic Directory Bridge CA Cert2 post to certificateRevocationList

5.1.9.39 Basic Directory Bridge CA CRL1:

base: Base CRL
issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
crlExtension:
issuingDistributionPoint: critical
distributionPoint:
fullName:
directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
onlyContainsUserCerts: TRUE
signed by Basic Directory Bridge CA Cert
post to certificateRevocationList at "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"

5.1.9.40 Basic Directory Bridge CA ARL1:

```
base: Base CRL
issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
crlExtension:
issuingDistributionPoint: critical
distributionPoint:
fullName:
directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
```

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```
onlyContainsAuthorityCerts: TRUE signed by Basic Directory Bridge CA Cert post to authorityRevocationList at "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
```

5.1.9.41 Basic Directory Trust Anchor to Bridge Directory Cert:

```
base: Base Intermediate Certificate
serial number: 21
issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"
subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.1"
    "2.16.840.1.101.3.2.1.48.2"
    "2.16.840.1.101.3.2.1.48.3"
    "2.16.840.1.101.3.2.1.48.6"
    "2.16.840.1.101.3.2.1.48.7"
    "2.16.840.1.101.3.2.1.48.10"
    "2.16.840.1.101.3.2.1.48.4"
    "2.16.840.1.101.3.2.1.48.5"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.1" to "2.16.840.1.101.3.2.1.48.8"
    map "2.16.840.1.101.3.2.1.48.2" to "2.16.840.1.101.3.2.1.48.9"
    map "2.16.840.1.101.3.2.1.48.3" to "2.16.840.1.101.3.2.1.48.8"
policyConstraintsExtension: not critical
    requireExplicitPolicy: 0
public key from Basic Directory Bridge CA Cert
signed by Basic Directory Trust Anchor Root Cert
```

5.1.9.42 Basic Directory Trust Anchor to Bridge Directory Cert2:

```
base: Base Intermediate Certificate
serial number: 22
issuer: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"
subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.1"
    "2.16.840.1.101.3.2.1.48.2"
    "2.16.840.1.101.3.2.1.48.3"
policyConstraintsExtension: critical
    requireExplicitPolicy: 0
    inhibitPolicyMapping: 0
public key from Basic Directory Bridge CA Cert
signed by Basic Directory Trust Anchor Root Cert
```

5.1.9.43 Basic Directory Bridge to Trust Anchor Cert:

```
base: Base Intermediate Certificate
serial number: 5
issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
subject: "cn=Basic Directory Trust Anchor, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.8"
    "2.16.840.1.101.3.2.1.48.9"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.1"
```

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```
map "2.16.840.1.101.3.2.1.48.9" to "2.16.840.1.101.3.2.1.48.2"
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.3"
cRLDistributionPoints: not critical
    distributionPoint:
        fullName:
            directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
public key from Basic Directory Trust Anchor Root Cert
signed by Basic Directory Bridge CA Cert
```

5.1.9.44 Basic Directory OU1 CA Cert:

base: Base Root Certificate

serial number: 1 issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US" self-signed

5.1.9.45 Basic Directory OU1 CA CRL:

base: Base CRL issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US" signed by Basic Directory OU1 CA Cert post to certificateRevocationList

5.1.9.46 Basic Directory Bridge to OU1 CA Cert:

base: Base Intermediate Certificate serial number: 6 issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.7" "2.16.840.1.101.3.2.1.48.8" "2.16.840.1.101.3.2.1.48.10" policyMappingsExtension: not critical map "2.16.840.1.101.3.2.1.48.7" to "2.16.840.1.101.3.2.1.48.37" map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.38" map "2.16.840.1.101.3.2.1.48.10" to "2.16.840.1.101.3.2.1.48.39" nameConstraintsExtension: critical permittedSubtrees: directoryName: "ou=Basic Directory OU1, o=Test Certificates, c=US" minimum: 0 maximum: absent cRLDistributionPoints: not critical distributionPoint: fullName: directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US" public key from Basic Directory OU1 CA Cert signed by Basic Directory Bridge CA Cert

5.1.9.47 Basic Directory OU1 CA to Bridge Directory Cert:

base: Base Intermediate Certificate serial number: 2 issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US" subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"

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```
certificatePoliciesExtension: not critical
"2.16.840.1.101.3.2.1.48.37"
"2.16.840.1.101.3.2.1.48.38"
"2.16.840.1.101.3.2.1.48.39"
policyMappingsExtension: not critical
map "2.16.840.1.101.3.2.1.48.37" to "2.16.840.1.101.3.2.1.48.7"
map "2.16.840.1.101.3.2.1.48.38" to "2.16.840.1.101.3.2.1.48.8"
map "2.16.840.1.101.3.2.1.48.39" to "2.16.840.1.101.3.2.1.48.10"
nameConstraintsExtension: critical
excludedSubtrees:
directoryName: "ou=Basic Directory OU1, o=Test Certificates, c=US"
minimum: 0
maximum: absent
public key from Basic Directory Bridge CA Cert
signed by Basic Directory OU1 CA Cert
```

5.1.9.48 Basic Directory Path Discovery OU1 EE1:

base: Base End Certificate
serial number: 3
issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US"
subject: "cn=Basic Directory Path Discovery OU1 EE1, ou=Basic Directory OU1, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
 "2.16.840.1.101.3.2.1.48.37"
subjectAltNameExtension:
 rfc822Name: "sender@testcertificates.gov"
signed by Basic Directory OU1 CA Cert

5.1.9.49 Basic Directory Path Discovery OU1 EE2:

base: Base End Certificate
serial number: 4
issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US"
subject: "cn=Basic Directory Path Discovery OU1 EE2, ou=Basic Directory OU1, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
 "2.16.840.1.101.3.2.1.48.38"
subjectAltNameExtension:
 rfc822Name: "sender@testcertificates.gov"
signed by Basic Directory OU1 CA Cert

5.1.9.50 Basic Directory Path Discovery OU1 EE3:

base: Base End Certificate
serial number: 5
issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US"
subject: "cn=Basic Directory Path Discovery OU1 EE3, ou=Basic Directory OU1, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
 "2.16.840.1.101.3.2.1.48.39"
subjectAltNameExtension:
 rfc822Name: "sender@testcertificates.gov"
signed by Basic Directory OU1 CA Cert

5.1.9.51 Basic Directory Path Discovery OU1 EE4:

base: Base End Certificate

serial number: 6

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issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US" subject: "cn=Basic Directory Path Discovery OU1 EE4, ou=Basic Directory OU1, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.40" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic Directory OU1 CA Cert

5.1.9.52 Basic Directory Path Discovery OU1 EE5:

serial number: 7
issuer: "cn=CA, ou=Basic Directory OU1, o=Test Certificates, c=US"
subject: "cn=Basic Directory Path Discovery OU1 EE5, ou=Basic Directory OU2, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
 "2.16.840.1.101.3.2.1.48.37"
 "2.16.840.1.101.3.2.1.48.38"
 "2.16.840.1.101.3.2.1.48.39"
subjectAltNameExtension:
 rfc822Name: "sender@testcertificates.gov"
signed by Basic Directory OU1 CA Cert

5.1.9.53 Basic Directory Org2 CA Cert1:

base: Base Root Certificate

base: Base End Certificate

serial number: 1

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" self-signed

5.1.9.54 Basic Directory Org2 CA Cert2:

base: Base Root Certificate

serial number: 2

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" self-signed

5.1.9.55 Basic Directory Org2 CA Cert3:

base: Base Root Certificate

serial number: 3

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" self-signed

5.1.9.56 Basic Directory Org2 CA Cert4:

base: Base Root Certificate

serial number: 4

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

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5.1.9.57 Basic Directory Org2 CA Cert5:

base: Base Intermediate Certificate

serial number: 5

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

cRLDistributionPoints: not critical

distributionPoint: fullName:

directoryName: "cn=CRL2, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

public key from Basic Directory Org2 CA Cert1 signed by Basic Directory Org2 CA Cert2

5.1.9.58 Basic Directory Org2 CA Cert6:

base: Base Intermediate Certificate

serial number: 6

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

cRLDistributionPoints: not critical

distributionPoint: fullName:

directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

public key from Basic Directory Org2 CA Cert2

signed by Basic Directory Org2 CA Cert1

5.1.9.59 Basic Directory Org2 CA Cert7:

base: Base Intermediate Certificate

serial number: 7

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

cRLDistributionPoints: not critical

distributionPoint: fullName:

directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

public key from Basic Directory Org2 CA Cert2

signed by Basic Directory Org2 CA Cert3

5.1.9.60 Basic Directory Org2 CA Cert8:

base: Base Intermediate Certificate

serial number: 8

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

cRLDistributionPoints: not critical

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distributionPoint:
 fullName:
 directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
public key from Basic Directory Org2 CA Cert3
signed by Basic Directory Org2 CA Cert2

5.1.9.61 Basic Directory Org2 CA Cert9:

base: Base Intermediate Certificate
serial number: 9
issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
certificatePoliciesExtension: not critical
 "2.5.29.32.0"
cRLDistributionPoints: not critical
 distributionPoint:
 fullName:
 directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
public key from Basic Directory Org2 CA Cert3
signed by Basic Directory Org2 CA Cert4

5.1.9.62 Basic Directory Org2 CA Cert10:

5.1.9.63 Basic Directory Org2 CA CRL:

base: Base CRL issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" revokedCertificates: serialNumber: 10 crlEntryExtensions: reasonCodeExtension: not critical reasons: cACompromise serialNumber: 13 crlEntryExtensions: reasonCodeExtension: not critical reasons: keyCompromise serialNumber: 15 crlEntryExtensions: reasonCodeExtension: not critical reasons:

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```
keyCompromise
signed by Basic Directory Org2 CA Cert1
post to certificateRevocationList
```

5.1.9.64 Basic Directory Org2 CA CRL1:

```
base: Base CRL
issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
crlExtension:
    issuingDistributionPoint: critical
       distributionPoint:
           fullName:
               directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
       onlyContainsUserCerts: TRUE
revokedCertificates:
   serialNumber: 13
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons.
               keyCompromise
signed by Basic Directory Org2 CA Cert1
post to certificateRevocationList at "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
```

5.1.9.65 Basic Directory Org2 CA ARL1:

```
base: Base CRL
issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
crlExtension:
    issuingDistributionPoint: critical
       distributionPoint:
           fullName:
               directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
       onlyContainsAuthorityCerts: TRUE
revokedCertificates:
   serialNumber: 10
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               cACompromise
signed by Basic Directory Org2 CA Cert1
post to authorityRevocationList at "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
```

5.1.9.66 Basic Directory Org2 CA ARL2:

```
base: Base CRL
issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
crlExtension:
issuingDistributionPoint: critical
distributionPoint:
fullName:
directoryName: "cn=CRL2, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
onlyContainsAuthorityCerts: TRUE
signed by Basic Directory Org2 CA Cert2
post to authorityRevocationList at "cn=CRL2, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
```

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5.1.9.67 Basic Directory Org2 CA CRL3:

```
base: Base CRL
issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
crlExtension:
    issuingDistributionPoint: critical
       distributionPoint:
           fullName:
               directoryName: "cn=CRL3, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
       onlyContainsUserCerts: TRUE
revokedCertificates:
   serialNumber: 15
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               keyCompromise
signed by Basic Directory Org2 CA Cert1
post to certificateRevocationList at "cn=CRL3, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
5.1.9.68 Basic Directory Bridge to Org2 CA Cert:
base: Base Intermediate Certificate
serial number: 7
issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
subject: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.8"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.27"
nameConstraintsExtension: critical
   permittedSubtrees:
       directoryName: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
       minimum: 0
       maximum: absent
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
public key from Basic Directory Org2 CA Cert2
signed by Basic Directory Bridge CA Cert
5.1.9.69 Basic Directory Org2 CA to Bridge Directory Cert:
base: Base Intermediate Certificate
serial number: 11
```

```
base: Base Intermediate Certificate
serial number: 11
issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
cRLDistributionPoints: not critical
    distributionPoint:
    fullName:
        directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
public key from Basic Directory Bridge CA Cert
signed by Basic Directory Org2 CA Cert2
```

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5.1.9.70 Basic Directory Path Discovery Org2 EE1:

base: Base End Certificate

serial number: 12

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic Directory Path Discovery Org2 EE1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.26"
"2.16.840.1.101.3.2.1.48.27"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic Directory Org2 CA Cert2

5.1.9.71 Basic Directory Path Discovery Org2 EE2:

base: Base End Certificate

serial number: 13

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic Directory Path Discovery Org2 EE2, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.26"

"2.16.840.1.101.3.2.1.48.27"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

directoryName: "cn=CRL1, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic Directory Org2 CA Cert2

5.1.9.72 Basic Directory Path Discovery Org2 EE3:

base: Base End Certificate

serial number: 14

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic Directory Path Discovery Org2 EE3, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.26"

"2.16.840.1.101.3.2.1.48.27"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

directoryName: "cn=CRL3, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory Org2 CA Cert3

5.1.9.73 Basic Directory Path Discovery Org2 EE4:

base: Base End Certificate

serial number: 15

issuer: "dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"

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```
subject: "cn=Basic Directory Path Discovery Org2 EE4, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov" certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.26"
    "2.16.840.1.101.3.2.1.48.27"
cRLDistributionPoints: not critical
    distributionPoint:
    fullName:
        directoryName: "cn=CRL3, dc=BasicDirectoryOrg2, dc=testcertificates, dc=gov"
subjectAltNameExtension:
    rfc822Name: "sender@testcertificates.gov"
signed by Basic Directory Org2 CA Cert3
```

5.1.9.74 Basic Directory Path Discovery Org2 EE5:

5.1.9.75 Basic Directory OU3 CA Cert:

base: Base Root Certificate

serial number: 1 issuer: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US" self-signed

5.1.9.76 Basic Directory OU3 CA CRL:

base: Base CRL issuer: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US" signed by Basic Directory OU3 CA Cert post to certificateRevocationList

5.1.9.77 Basic Directory OU3 CA ARL1:

```
base: Base CRL
issuer: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US"
crlExtension:
issuingDistributionPoint: critical
distributionPoint:
fullName:
directoryName: "cn=CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"
onlyContainsAuthorityCerts: TRUE
signed by Basic Directory OU3 CA Cert
post to authorityRevocationList at "cn=CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"
```

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5.1.9.78 Basic Directory OU3 CA CRL1:

```
base: Base CRL
issuer: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US"
crlExtension:
issuingDistributionPoint: critical
distributionPoint:
fullName:
directoryName: "cn=CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"
onlyContainsUserCerts: TRUE
signed by Basic Directory OU3 CA Cert
post to certificateRevocationList at "cn=CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"
```

5.1.9.79 Basic Directory Bridge to OU3 CA Cert:

```
base: Base Intermediate Certificate
serial number: 8
issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
subject: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.10"
    "2.16.840.1.101.3.2.1.48.2"
policyMappingsExtension: not critical
   map "2.16.840.1.101.3.2.1.48.10" to "2.16.840.1.101.3.2.1.48.32"
nameConstraintsExtension: critical
    permittedSubtrees:
       directoryName: "ou=Basic Directory OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
            directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
public key from Basic Directory OU3 CA Cert
signed by Basic Directory Bridge CA Cert
```

5.1.9.80 Basic Directory OU3 CA to Bridge Directory Cert:

```
base: Base Intermediate Certificate
serial number: 2
issuer: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US"
subject: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.29"
    "2.16.840.1.101.3.2.1.48.30"
    "2.16.840.1.101.3.2.1.48.31"
    "2.16.840.1.101.3.2.1.48.32"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.29" to "2.16.840.1.101.3.2.1.48.6"
    map "2.16.840.1.101.3.2.1.48.30" to "2.16.840.1.101.3.2.1.48.7"
    map "2.16.840.1.101.3.2.1.48.31" to "2.16.840.1.101.3.2.1.48.8"
    map "2.16.840.1.101.3.2.1.48.32" to "2.16.840.1.101.3.2.1.48.10"
nameConstraintsExtension: critical
    excludedSubtrees:
        directoryName: "ou=Basic Directory OU3, o=Test Certificates, c=US"
```

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```
minimum: 0
maximum: absent
cRLDistributionPoints: not critical
distributionPoint:
fullName:
directoryName: "cn=CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"
public key from Basic Directory Bridge CA Cert
signed by Basic Directory OU3 CA Cert
```

5.1.9.81 Basic Directory OU3 CA to OU3 SubCA1 Cert:

```
base: Base Intermediate Certificate
serial number: 3
issuer: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US"
subject: "cn=SubCA1, ou=Basic Directory OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.2"
    "2.16.840.1.101.3.2.1.48.29"
   "2.16.840.1.101.3.2.1.48.30"
   "2.16.840.1.101.3.2.1.48.31"
    "2.16.840.1.101.3.2.1.48.32"
nameConstraintsExtension: not critical
    permittedSubtrees:
       directoryName: "ou=Basic Directory OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
policyConstraintsExtension: not critical
    requireExplicitPolicy: 0
   inhibitPolicyMapping: 0
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           directoryName: "cn=CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"
signed by Basic Directory OU3 CA Cert
```

5.1.9.82 Basic Directory OU3 SubCA1 CRL:

```
base: Base CRL issuer: "cn=SubCA1, ou=Basic Directory OU3, o=Test Certificates, c=US" signed by Basic Directory OU3 CA to OU3 SubCA1 Cert post to certificateRevocationList
```

5.1.9.83 Basic Directory OU3 SubCA1 ARL1:

```
base: Base CRL
issuer: "cn=SubCA1, ou=Basic Directory OU3, o=Test Certificates, c=US"
crlExtension:
issuingDistributionPoint: critical
distributionPoint:
fullName:
directoryName: "cn=SubCA1 CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"
onlyContainsAuthorityCerts: TRUE
signed by Basic Directory OU3 CA to OU3 SubCA1 Cert
```

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post to authorityRevocationList at "cn=SubCA1 CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"

5.1.9.84 Basic Directory OU3 SubCA1 CRL1:

```
base: Base CRL
issuer: "cn=SubCA1, ou=Basic Directory OU3, o=Test Certificates, c=US"
crlExtension:
    issuingDistributionPoint: critical
        distributionPoint:
        fullName:
             directoryName: "cn=SubCA1 CRL1, ou=Basic Directory OU3, o=Test Certificates,
c=US"
    onlyContainsUserCerts: TRUE
signed by Basic Directory OU3 CA to OU3 SubCA1 Cert
post to certificateRevocationList at "cn=SubCA1 CRL1, ou=Basic Directory OU3, o=Test Certificates,
c=US"
```

5.1.9.85 Basic Directory OU3 CA to OU3 PeerCA1 Cert:

5.1.9.86 Basic Directory OU3 PeerCA1 to OU3 CA Cert:

```
base: Base Intermediate Certificate
serial number: 1
issuer: "cn=PeerCA1, dc=BasicDirectoryOrg3, dc=testcertificates, dc=gov"
subject: "cn=CA, ou=Basic Directory OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.29"
    "2.16.840.1.101.3.2.1.48.30"
    "2.16.840.1.101.3.2.1.48.31"
    "2.16.840.1.101.3.2.1.48.32"
public key from Basic Directory OU3 CA Cert
signed by Basic Directory OU3 CA to OU3 PeerCA1 Cert
```

5.1.9.87 Basic Directory OU3 PeerCA1 CRL:

```
base: Base CRL issuer: "cn=PeerCA1, dc=BasicDirectoryOrg3, dc=testcertificates, dc=gov" signed by Basic Directory OU3 CA to OU3 PeerCA1 Cert post to certificateRevocationList
```

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5.1.9.88 Basic Directory Path Discovery OU3 EE1:

base: Base End Certificate

serial number: 1

issuer: "cn=SubCA1, ou=Basic Directory OU3, o=Test Certificates, c=US"

subject: "cn=Basic Directory Path Discovery OU3 EE1, ou=Basic Directory OU3, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.29"

"2.16.840.1.101.3.2.1.48.30"

"2.16.840.1.101.3.2.1.48.31"

"2.16.840.1.101.3.2.1.48.32"

basicConstraintsExtension: critical

cA: FALSE

cRLDistributionPoints: not critical

distributionPoint:

fullName:

directoryName: "cn=SubCA1 CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory OU3 CA to OU3 SubCA1 Cert

5.1.9.89 Basic Directory Path Discovery OU3 EE2:

base: Base End Certificate

serial number: 2

issuer: "cn=SubCA1, ou=Basic Directory OU3, o=Test Certificates, c=US"

subject: "cn=Basic Directory Path Discovery OU3 EE2, ou=Basic Directory OU3, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.2"

basicConstraintsExtension: critical

cA: FALSE

cRLDistributionPoints: not critical

distributionPoint:

fullName:

directoryName: "cn=SubCA1 CRL1, ou=Basic Directory OU3, o=Test Certificates, c=US"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic Directory OU3 CA to OU3 SubCA1 Cert

5.1.10 Basic Path Discovery LDAP URI Certificates and CRLs

5.1.10.1 Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert:

base: Base Intermediate Certificate

serial number: 6

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 1 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

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AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%201%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?certificateRevocationList;binary"

signed by Basic LDAP URI Trust Anchor Root Cert

5.1.10.2 Basic LDAP URI Peer 1 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 1 CA, o=Test Certificates, c=US" signed by Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert post to certificateRevocationList

5.1.10.3 Basic LDAP URI Peer 1 to Basic URI Trust Anchor Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 1 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%201%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAP server1.subdomain.tld/cn=Basic%20LDAP%20URI%20 Trust%20 Anchor,o=Test%20 Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%201%20CA, o=Test%20Certificates, c=US?certificateRevocationList; binary"

public key from Basic LDAP URI Trust Anchor Root Cert

signed by Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert

5.1.10.4 Basic LDAP URI Peer 2 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US"

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subject: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

5.1.10.5 Basic LDAP URI Peer 2 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US"

signed by Basic LDAP URI Peer 2 CA Cert

post to certificateRevocationList

5.1.10.6 Basic LDAP URI Peer 1 to Basic LDAP URI Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 1 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%201%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI

"ldap://LDAP server1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%201%20CA, o=Test%20Certificates, c=US?certificateRevocationList; binary"

public key from Basic LDAP URI Peer 2 CA Cert

signed by Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert

5.1.10.7 Basic LDAP URI Peer 2 to Basic LDAP URI Peer 1 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 1 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

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accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%201%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary"

public key from Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert signed by Basic LDAP URI Peer 2 CA Cert

5.1.10.8 Basic LDAP URI Peer 3 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 3 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 3 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%203%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

5.1.10.9 Basic LDAP URI Peer 3 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 3 CA, o=Test Certificates, c=US"

signed by Basic LDAP URI Peer 3 CA Cert

post to certificateRevocationList

5.1.10.10 Basic LDAP URI Peer 3 to Basic LDAP URI Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 3 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%203%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

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subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAP server1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA, o=Test%20Certifing the context of t

cates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName: URI:

"ldap://LDAP server1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%203%20CA, o=Test%20Certifing the context of t

cates,c=US?certificateRevocationList;binary" public key from Basic LDAP URI Peer 2 CA Cert signed by Basic LDAP URI Peer 3 CA Cert

5.1.10.11 Basic LDAP URI Peer 4 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 4 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 4 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%204%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

5.1.10.12 Basic LDAP URI Peer 4 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 4 CA, o=Test Certificates, c=US"

signed by Basic LDAP URI Peer 4 CA Cert

post to certificateRevocationList

5.1.10.13 Basic LDAP URI Peer 4 to Basic LDAP URI Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 4 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%204%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

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URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName: URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%204%20CA,o=Test%20Certificates.c=US?certificateRevocationList;binary"

public key from Basic LDAP URI Peer 2 CA Cert

signed by Basic LDAP URI Peer 4 CA Cert

5.1.10.14 Basic LDAP URI Peer 2 to Basic LDAP URI Peer 2 SubCA Cert:

base: Base Intermediate Certificate

serial number: 3

issuer: "cn=Basic LDAP URI Peer 2 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 2 SubCA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20SubCA,o=Test%20Ce rtificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary" signed by Basic LDAP URI Peer 2 CA Cert

5.1.10.15 Basic LDAP URI Peer 2 SubCA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 2 SubCA, o=Test Certificates, c=US" signed by Basic LDAP URI Peer 2 to Basic LDAP URI Peer 2 SubCA Cert

post to certificateRevocationList

5.1.10.16 Basic LDAP URI Path Discovery Test1 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 2 SubCA, o=Test Certificates, c=US"

subject: "cn=Basic LDAP URI Path Discovery EE Certificate Test1, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

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accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20SubCA,o=Test%20Ce rtificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%202%20SubCA,o=Test%20Ce rtificates,c=US?certificateRevocationList;binary"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic LDAP URI Peer 2 to Basic LDAP URI Peer 2 SubCA Cert

5.1.10.17 Basic LDAP URI Peer 5 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

5.1.10.18 Basic LDAP URI Peer 5 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US"

signed by Basic LDAP URI Peer 5 CA Cert

post to certificateRevocationList

5.1.10.19 Basic URI Trust Anchor to Basic LDAP URI Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 7

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

UKI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

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URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName: URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?certificateRevocationList;binary"

public key from Basic LDAP URI Peer 5 CA Cert signed by Basic LDAP URI Trust Anchor Root Cert

5.1.10.20 Basic LDAP URI Peer 5 to Basic URI Trust Anchor Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific ates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary"

public key from Basic LDAP URI Trust Anchor Root Cert

signed by Basic LDAP URI Peer 5 CA Cert

5.1.10.21 Basic LDAP URI Peer 6 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 6 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 6 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%206%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

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5.1.10.22 Basic LDAP URI Peer 6 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 6 CA, o=Test Certificates, c=US"

signed by Basic LDAP URI Peer 6 CA Cert

post to certificateRevocationList

5.1.10.23 Basic LDAP URI Peer 6 to Basic LDAP URI Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 6 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%206%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%206%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary" public key from Basic LDAP URI Peer 5 CA Cert

signed by Basic LDAP URI Peer 6 CA Cert

5.1.10.24 Basic LDAP URI Peer 7 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 7 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 7 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%207%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

5.1.10.25 Basic LDAP URI Peer 7 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 7 CA, o=Test Certificates, c=US"

signed by Basic LDAP URI Peer 7 CA Cert

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5.1.10.26 Basic LDAP URI Peer 7 to Basic LDAP URI Peer 5 Cert:

```
base: Base Intermediate Certificate
serial number: 2
issuer: "cn=Basic LDAP URI Peer 7 CA, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%207%20CA,o=Test%20Certifi
cates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certifi
cates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%207%20CA,o=Test%20Certifi
cates,c=US?certificateRevocationList;binary"
public key from Basic LDAP URI Peer 5 CA Cert
signed by Basic LDAP URI Peer 7 CA Cert
5.1.10.27 Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert:
base: Base Intermediate Certificate
serial number: 3
issuer: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Peer 8 CA, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certifi
cates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%208%20CA,o=Test%20Certifi
cates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
```

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URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary" signed by Basic LDAP URI Peer 5 CA Cert

5.1.10.28 Basic LDAP URI Peer 8 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 8 CA, o=Test Certificates, c=US" signed by Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert post to certificateRevocationList

5.1.10.29 Basic LDAP URI Peer 8 to Basic LDAP URI Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 8 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 5 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%208%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%205%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%208%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary"

public key from Basic LDAP URI Peer 5 CA Cert

signed by Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert

5.1.10.30 Basic LDAP URI Peer 8 to Basic LDAP URI Peer 9 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 8 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 9 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%208%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

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AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%209%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName: URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%208%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary"

signed by Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert

5.1.10.31 Basic LDAP URI Peer 9 CA CRL:

base: Base CRL

issuer: "cn=Basic LDAP URI Peer 9 CA, o=Test Certificates, c=US" signed by Basic LDAP URI Peer 8 to Basic LDAP URI Peer 9 Cert post to certificateRevocationList

5.1.10.32 Basic LDAP URI Peer 9 to Basic LDAP URI Peer 8 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic LDAP URI Peer 9 CA, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Peer 8 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%209%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAP server1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%208%20CA, o=Test%20Certificates, c=US?cACertificate; binary, crossCertificatePair; binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%209%20CA, o=Test%20Certificates, c=US?certificateRevocationList; binary"

public key from Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert signed by Basic LDAP URI Peer 8 to Basic LDAP URI Peer 9 Cert

5.1.10.33 Basic LDAP URI Path Discovery Test3 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic LDAP URI Peer 9 CA, o=Test Certificates, c=US"

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```
subject: "cn=Basic LDAP URI Path Discovery EE Certificate Test3, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%209%20CA,o=Test%20Certifi
cates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Peer%209%20CA,o=Test%20Certifi
cates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI Peer 8 to Basic LDAP URI Peer 9 Cert
5.1.10.34 Basic LDAP URI Bridge CA Cert:
base: Base Root Certificate
serial number: 1
issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=U
S?cACertificate; binary, crossCertificatePair; binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
"ldap://LDAPserver1.subdomain.tld/cn=CRL1.ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certif
icates,c=US?authorityRevocationList;binary"
self-signed
5.1.10.35 Basic LDAP URI Bridge CA Cert2:
base: Base Root Certificate
serial number: 2
issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=U
S?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
```

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URI:

"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=US?authorityRevocationList;binary" self-signed

5.1.10.36 Basic LDAP URI Bridge CA Cert3:

base: Base Intermediate Certificate

serial number: 3

issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI

"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=U S?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=US?authorityRevocationList;binary"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

public key from Basic LDAP URI Bridge CA Cert signed by Basic LDAP URI Bridge CA Cert2

5.1.10.37 Basic LDAP URI Bridge CA Cert4:

base: Base Intermediate Certificate

serial number: 4

issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAP server1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificate es,c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

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URI:

"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=U S?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certif

icates,c=US?authorityRevocationList;binary" certificatePoliciesExtension: not critical

"2.5.20.22.0"

"2.5.29.32.0"

public key from Basic LDAP URI Bridge CA Cert2

signed by Basic LDAP URI Bridge CA Cert

5.1.10.38 Basic LDAP URI Bridge CA CRL:

base: Base CRL

issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"

signed by Basic LDAP URI Bridge CA Cert2

post to certificateRevocationList

5.1.10.39 Basic LDAP URI Bridge CA CRL1:

base: Base CRL

issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName: URI:

"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=US?certificateRevocationList;binary"

onlyContainsUserCerts: TRUE

signed by Basic LDAP URI Bridge CA Cert

post to certificateRevocationList at "cn=CRL1, ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"

5.1.10.40 Basic LDAP URI Bridge CA ARL1:

base: Base CRL

issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=US?authorityRevocationList;binary"

onlyContainsAuthorityCerts: TRUE

signed by Basic LDAP URI Bridge CA Cert

post to authorityRevocationList at "cn=CRL1, ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"

5.1.10.41 Basic URI Trust Anchor to Bridge LDAP URI Cert:

base: Base Intermediate Certificate

serial number: 23

issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"

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```
subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific
ates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat
es,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certificates,c
=US?certificateRevocationList;binary"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.1"
    "2.16.840.1.101.3.2.1.48.2"
    "2.16.840.1.101.3.2.1.48.3"
    "2.16.840.1.101.3.2.1.48.6"
   "2.16.840.1.101.3.2.1.48.7"
   "2.16.840.1.101.3.2.1.48.10"
    "2.16.840.1.101.3.2.1.48.4"
    "2.16.840.1.101.3.2.1.48.5"
policyMappingsExtension: not critical
   map "2.16.840.1.101.3.2.1.48.1" to "2.16.840.1.101.3.2.1.48.8"
    map "2.16.840.1.101.3.2.1.48.2" to "2.16.840.1.101.3.2.1.48.9"
   map "2.16.840.1.101.3.2.1.48.3" to "2.16.840.1.101.3.2.1.48.8"
policyConstraintsExtension: critical
    requireExplicitPolicy: 0
public key from Basic LDAP URI Bridge CA Cert
signed by Basic LDAP URI Trust Anchor Root Cert
5.1.10.42 Basic URI Trust Anchor to Bridge LDAP URI Cert2:
base: Base Intermediate Certificate
serial number: 24
issuer: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"
subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           IJRI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certific
ates,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
    AccessDescription:
```

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```
accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat
es,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certificates,c
=US?certificateRevocationList;binary"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.1"
    "2.16.840.1.101.3.2.1.48.2"
   "2.16.840.1.101.3.2.1.48.3"
policyConstraintsExtension: critical
   requireExplicitPolicy: 0
   inhibitPolicyMapping: 0
public key from Basic LDAP URI Bridge CA Cert
signed by Basic LDAP URI Trust Anchor Root Cert
5.1.10.43 Basic LDAP URI Bridge to Trust Anchor Cert:
base: Base Intermediate Certificate
serial number: 5
issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Trust Anchor, o=Test Certificates, c=US"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat
es,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=Basic%20LDAP%20URI%20Trust%20Anchor,o=Test%20Certificates,c
=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CRL1.ou=Basic%20LDAP%20URI%20Bridge%20CA.o=Test%20Certif
icates,c=US?authorityRevocationList;binary"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.8"
   "2.16.840.1.101.3.2.1.48.9"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.1"
   map "2.16.840.1.101.3.2.1.48.9" to "2.16.840.1.101.3.2.1.48.2"
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.3"
```

accessMethod: id-ad-caRepository

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5.1.10.44 Basic LDAP URI OU1 CA Cert:

5.1.10.45 Basic LDAP URI OU1 CA CRL:

base: Base CRL issuer: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US" signed by Basic LDAP URI OU1 CA Cert post to certificateRevocationList

5.1.10.46 Basic LDAP URI Bridge to OU1 CA Cert:

base: Base Intermediate Certificate serial number: 6 issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.7" "2.16.840.1.101.3.2.1.48.8" "2.16.840.1.101.3.2.1.48.10" policyMappingsExtension: not critical map "2.16.840.1.101.3.2.1.48.7" to "2.16.840.1.101.3.2.1.48.37" map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.38" map "2.16.840.1.101.3.2.1.48.10" to "2.16.840.1.101.3.2.1.48.39" nameConstraintsExtension: critical permittedSubtrees: directoryName: "ou=Basic LDAP URI OU1, o=Test Certificates, c=US" minimum: 0 maximum: absent authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat es.c=US?cACertificate;binary.crossCertificatePair;binary" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation:

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URI: "ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates,c=US? cACertificate; binary, crossCertificatePair; binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%2 0Certificates.c=US?authorityRevocationList;binary" public key from Basic LDAP URI OU1 CA Cert signed by Basic LDAP URI Bridge CA Cert 5.1.10.47 Basic LDAP URI OU1 CA to Bridge LDAP URI Cert: base: Base Intermediate Certificate serial number: 2 issuer: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US" subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.37" "2.16.840.1.101.3.2.1.48.38" "2.16.840.1.101.3.2.1.48.39"

policyMappingsExtension: not critical

map "2.16.840.1.101.3.2.1.48.37" to "2.16.840.1.101.3.2.1.48.7" map "2.16.840.1.101.3.2.1.48.38" to "2.16.840.1.101.3.2.1.48.8" map "2.16.840.1.101.3.2.1.48.39" to "2.16.840.1.101.3.2.1.48.10"

nameConstraintsExtension: critical

excludedSubtrees:

directoryName: "ou=Basic LDAP URI OU1, o=Test Certificates, c=US"

minimum: 0 maximum: absent authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates, c=US?cACertificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificates,c=U S?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates, c=US?certificateRevocationList;binary"

public key from Basic LDAP URI Bridge CA Cert

signed by Basic LDAP URI OU1 CA Cert

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5.1.10.48 Basic LDAP URI Path Discovery OU1 EE1:

base: Base End Certificate

serial number: 3

issuer: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Path Discovery OU1 EE1, ou=Basic LDAP URI OU1, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.37" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: IJRI: "ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates, c=US?cACertificate;binary,crossCertificatePair;binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates, c=US?certificateRevocationList;binary" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic LDAP URI OU1 CA Cert 5.1.10.49 Basic LDAP URI Path Discovery OU1 EE2: base: Base End Certificate serial number: 4 issuer: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US" subject: "cn=Basic LDAP URI Path Discovery OU1 EE2, ou=Basic LDAP URI OU1, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.38" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates, c=US?cACertificate;binary,crossCertificatePair;binary" cRLDistributionPoints: not critical distributionPoint: fullName: "ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates, c=US?certificateRevocationList;binary" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic LDAP URI OU1 CA Cert

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5.1.10.50 Basic LDAP URI Path Discovery OU1 EE3:

base: Base End Certificate

```
serial number: 5
issuer: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Path Discovery OU1 EE3, ou=Basic LDAP URI OU1, o=Test Certificates,
c=US"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.39"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates,
c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates,
c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI OU1 CA Cert
5.1.10.51 Basic LDAP URI Path Discovery OU1 EE4:
base: Base End Certificate
serial number: 6
issuer: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Path Discovery OU1 EE4, ou=Basic LDAP URI OU1, o=Test Certificates,
c=US"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.40"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates,
c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates,
c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI OU1 CA Cert
```

5.1.10.52 Basic LDAP URI Path Discovery OU1 EE5:

base: Base End Certificate

serial number: 7

issuer: "cn=CA, ou=Basic LDAP URI OU1, o=Test Certificates, c=US"

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```
subject: "cn=Basic LDAP URI Path Discovery OU1 EE5, ou=Basic LDAP URI OU2, o=Test Certificates,
c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.37"
    "2.16.840.1.101.3.2.1.48.38"
   "2.16.840.1.101.3.2.1.48.39"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates,
c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU1,o=Test%20Certificates,
c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI OU1 CA Cert
5.1.10.53 Basic LDAP URI Org2 CA Cert1:
base: Base Root Certificate
serial number: 1
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary,crossCertificatePair;binary"
self-signed
5.1.10.54 Basic LDAP URI Org2 CA Cert2:
base: Base Root Certificate
serial number: 2
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary, crossCertificatePair; binary"
self-signed
```

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5.1.10.55 Basic LDAP URI Org2 CA Cert3:

base: Base Root Certificate serial number: 3 issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary, crossCertificatePair; binary" self-signed

5.1.10.56 Basic LDAP URI Org2 CA Cert4:

base: Base Root Certificate serial number: 4 issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary, crossCertificatePair; binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authori tyRevocationList;binary" self-signed

5.1.10.57 Basic LDAP URI Org2 CA Cert5:

base: Base Intermediate Certificate serial number: 5 issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" certificatePoliciesExtension: not critical "2.5.29.32.0" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2.dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation:

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"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver2.subdomain.tld/cn=CRL2,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authoritvRevocationList;binary"

public key from Basic LDAP URI Org2 CA Cert1 signed by Basic LDAP URI Org2 CA Cert2

5.1.10.58 Basic LDAP URI Org2 CA Cert6:

base: Base Intermediate Certificate

serial number: 6

issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authorityRevocationList;binary"

public key from Basic LDAP URI Org2 CA Cert2

signed by Basic LDAP URI Org2 CA Cert1

5.1.10.59 Basic LDAP URI Org2 CA Cert7:

base: Base Intermediate Certificate

serial number: 7

issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

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URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary, crossCertificatePair; binary" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authori tyRevocationList;binary" public key from Basic LDAP URI Org2 CA Cert2 signed by Basic LDAP URI Org2 CA Cert3 5.1.10.60 Basic LDAP URI Org2 CA Cert8: base: Base Intermediate Certificate serial number: 8 issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" certificatePoliciesExtension: not critical "2.5.29.32.0" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary, crossCertificatePair; binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authori tyRevocationList;binary" public key from Basic LDAP URI Org2 CA Cert3 signed by Basic LDAP URI Org2 CA Cert2

5.1.10.61 Basic LDAP URI Org2 CA Cert9:

base: Base Intermediate Certificate

serial number: 9

issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

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```
subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
certificatePoliciesExtension: not critical
    "2.5.29.32.0"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary,crossCertificatePair;binary"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2.dc=testcertificates,dc=gov?cACertificate;bin
ary, crossCertificatePair; binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authori
tyRevocationList;binary"
public key from Basic LDAP URI Org2 CA Cert3
signed by Basic LDAP URI Org2 CA Cert4
5.1.10.62 Basic LDAP URI Org2 CA Cert10:
base: Base Intermediate Certificate
serial number: 10
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
certificatePoliciesExtension: not critical
    "2.5.29.32.0"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary, crossCertificatePair; binary"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary, crossCertificatePair; binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authori
tyRevocationList;binary"
```

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5.1.10.63 Basic LDAP URI Org2 CA CRL:

```
base: Base CRL
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
revokedCertificates:
    serialNumber: 10
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               cACompromise
    serialNumber: 13
    crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               keyCompromise
    serialNumber: 15
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               kevCompromise
signed by Basic LDAP URI Org2 CA Cert1
post to certificateRevocationList
```

5.1.10.64 Basic LDAP URI Org2 CA CRL1:

```
base: Base CRL
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
crlExtension:
    issuingDistributionPoint: critical
       distributionPoint:
           fullName:
               URI:
"ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?certific
ateRevocationList; binary"
       onlyContainsUserCerts: TRUE
revokedCertificates:
   serialNumber: 13
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               keyCompromise
signed by Basic LDAP URI Org2 CA Cert1
post to certificateRevocationList at "cn=CRL1, dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
```

5.1.10.65 Basic LDAP URI Org2 CA ARL1:

```
base: Base CRL
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
crlExtension:
issuingDistributionPoint: critical
distributionPoint:
fullName:
```

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URI:

"ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authoritvRevocationList;binary"

onlyContainsAuthorityCerts: TRUE

revokedCertificates:

serialNumber: 10 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

cACompromise

signed by Basic LDAP URI Org2 CA Cert1

post to authorityRevocationList at "cn=CRL1, dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

5.1.10.66 Basic LDAP URI Org2 CA ARL2:

base: Base CRL

issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

"ldap://LDAPserver2.subdomain.tld/cn=CRL2,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authorityRevocationList;binary"

onlyContainsAuthorityCerts: TRUE

signed by Basic LDAP URI Org2 CA Cert2

post to authorityRevocationList at "cn=CRL2, dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

5.1.10.67 Basic LDAP URI Org2 CA CRL3:

base: Base CRL

issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName: URI:

"ldap://LDAPserver2.subdomain.tld/cn=CRL3,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?certificateRevocationList;binary"

onlyContainsUserCerts: TRUE

revokedCertificates:

serialNumber: 15 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic LDAP URI Org2 CA Cert1

post to certificateRevocationList at "cn=CRL3, dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

5.1.10.68 Basic LDAP URI Bridge to Org2 CA Cert:

base: Base Intermediate Certificate

serial number: 7

issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US" subject: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

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```
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.8"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.27"
nameConstraintsExtension: critical
   permittedSubtrees:
       directoryName: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
       minimum: 0
       maximum: absent
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat
es,c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CRL1.ou=Basic%20LDAP%20URI%20Bridge%20CA.o=Test%2
OCertificates,c=US?authorityRevocationList;binary"
public key from Basic LDAP URI Org2 CA Cert2
signed by Basic LDAP URI Bridge CA Cert
5.1.10.69 Basic LDAP URI Org2 CA to Bridge LDAP URI Cert:
base: Base Intermediate Certificate
serial number: 11
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary,crossCertificatePair;binary"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           IJRI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat
es,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
```

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```
fullName:
           URI:
"ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?authori
tyRevocationList;binary"
public key from Basic LDAP URI Bridge CA Cert
signed by Basic LDAP URI Org2 CA Cert2
5.1.10.70 Basic LDAP URI Path Discovery Org2 EE1:
base: Base End Certificate
serial number: 12
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subject: "cn=Basic LDAP URI Path Discovery Org2 EE1, dc=BasicLDAPURIOrg2, dc=testcertificates,
dc=gov"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.26"
    "2.16.840.1.101.3.2.1.48.27"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?certific
ateRevocationList; binary"
subjectAltNameExtension:
    rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI Org2 CA Cert2
5.1.10.71 Basic LDAP URI Path Discovery Org2 EE2:
base: Base End Certificate
serial number: 13
issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"
subject: "cn=Basic LDAP URI Path Discovery Org2 EE2, dc=BasicLDAPURIOrg2, dc=testcertificates,
dc=gov"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.26"
    "2.16.840.1.101.3.2.1.48.27"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin
ary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
    distributionPoint:
```

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fullName:

URI: "ldap://LDAPserver2.subdomain.tld/cn=CRL1,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?certific ateRevocationList;binary" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic LDAP URI Org2 CA Cert2 5.1.10.72 Basic LDAP URI Path Discovery Org2 EE3: base: Base End Certificate serial number: 14 issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subject: "cn=Basic LDAP URI Path Discovery Org2 EE3, dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.26" "2.16.840.1.101.3.2.1.48.27" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "ldap://LDAPserver2.subdomain.tld/cn=CRL3,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?certific ateRevocationList; binary" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic LDAP URI Org2 CA Cert3 5.1.10.73 Basic LDAP URI Path Discovery Org2 EE4: base: Base End Certificate serial number: 15 issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" subject: "cn=Basic LDAP URI Path Discovery Org2 EE4, dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.26"

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URI:

"ldap://LDAPserver2.subdomain.tld/cn=CRL3,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?certificateRevocationList;binary" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic LDAP URI Org2 CA Cert3

5.1.10.74 Basic LDAP URI Path Discovery Org2 EE5:

base: Base End Certificate

serial number: 16

issuer: "dc=BasicLDAPURIOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic LDAP URI Path Discovery Org2 EE5, dc=BasicLDAPURIOrg2, dc=testcertificates,

dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.26"

"2.16.840.1.101.3.2.1.48.27"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver2.subdomain.tld/dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?cACertificate;bin ary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver2.subdomain.tld/cn=CRL3,dc=BasicLDAPURIOrg2,dc=testcertificates,dc=gov?certificateRevocationList;binary"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic LDAP URI Org2 CA Cert4

5.1.10.75 Basic LDAP URI OU3 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary" self-signed

5.1.10.76 Basic LDAP URI OU3 CA CRL:

base: Base CRL

issuer: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"

signed by Basic LDAP URI OU3 CA Cert

post to certificateRevocationList

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5.1.10.77 Basic LDAP URI OU3 CA ARL1:

subjectInfoAccess: not critical AccessDescription:

```
base: Base CRL
issuer: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
crlExtension:
   issuingDistributionPoint: critical
       distributionPoint:
           fullName:
              URI:
"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificat
es,c=US?authorityRevocationList;binary"
       onlyContainsAuthorityCerts: TRUE
signed by Basic LDAP URI OU3 CA Cert
post to authorityRevocationList at "cn=CRL1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
5.1.10.78 Basic LDAP URI OU3 CA CRL1:
base: Base CRL
issuer: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
crlExtension:
   issuingDistributionPoint: critical
       distributionPoint:
           fullName:
               URI:
"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificat
es,c=US?certificateRevocationList;binary"
       onlyContainsUserCerts: TRUE
signed by Basic LDAP URI OU3 CA Cert
post to certificateRevocationList at "cn=CRL1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
5.1.10.79 Basic LDAP URI Bridge to OU3 CA Cert:
base: Base Intermediate Certificate
serial number: 8
issuer: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
subject: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.10"
   "2.16.840.1.101.3.2.1.48.2"
policyMappingsExtension: not critical
   map "2.16.840.1.101.3.2.1.48.10" to "2.16.840.1.101.3.2.1.48.32"
nameConstraintsExtension: critical
   permittedSubtrees:
       directoryName: "ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat
es,c=US?cACertificate;binary,crossCertificatePair;binary"
```

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```
accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificates
,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CRL1.ou=Basic%20LDAP%20URI%20Bridge%20CA.o=Test%2
0Certificates,c=US?authorityRevocationList;binary"
public key from Basic LDAP URI OU3 CA Cert
signed by Basic LDAP URI Bridge CA Cert
5.1.10.80 Basic LDAP URI OU3 CA to Bridge LDAP URI Cert:
base: Base Intermediate Certificate
serial number: 2
issuer: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
subject: "ou=Basic LDAP URI Bridge CA, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.29"
   "2.16.840.1.101.3.2.1.48.30"
   "2.16.840.1.101.3.2.1.48.31"
   "2.16.840.1.101.3.2.1.48.32"
policyMappingsExtension: not critical
   map "2.16.840.1.101.3.2.1.48.29" to "2.16.840.1.101.3.2.1.48.6"
   map "2.16.840.1.101.3.2.1.48.30" to "2.16.840.1.101.3.2.1.48.7"
   map "2.16.840.1.101.3.2.1.48.31" to "2.16.840.1.101.3.2.1.48.8"
   map "2.16.840.1.101.3.2.1.48.32" to "2.16.840.1.101.3.2.1.48.10"
nameConstraintsExtension: critical
   excludedSubtrees:
       directoryName: "ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificates,
c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
"ldap://LDAPserver1.subdomain.tld/ou=Basic%20LDAP%20URI%20Bridge%20CA,o=Test%20Certificat
es,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
```

fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificat es,c=US?authorityRevocationList;binary" public key from Basic LDAP URI Bridge CA Cert signed by Basic LDAP URI OU3 CA Cert

5.1.10.81 Basic LDAP URI OU3 CA to OU3 SubCA1 Cert:

```
base: Base Intermediate Certificate
serial number: 3
issuer: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
subject: "cn=SubCA1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.2"
   "2.16.840.1.101.3.2.1.48.29"
    "2.16.840.1.101.3.2.1.48.30"
    "2.16.840.1.101.3.2.1.48.31"
    "2.16.840.1.101.3.2.1.48.32"
nameConstraintsExtension: not critical
    permittedSubtrees:
       directoryName: "ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
policyConstraintsExtension: not critical
    requireExplicitPolicy: 0
    inhibitPolicyMapping: 0
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificates,
c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=SubCA1,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certifi
cates.c=US?cACertificate:binary.crossCertificatePair:binary"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=CRL1.ou=Basic%20LDAP%20URI%20OU3.o=Test%20Certificat
es,c=US?authorityRevocationList;binary"
signed by Basic LDAP URI OU3 CA Cert
```

5.1.10.82 Basic LDAP URI OU3 SubCA1 CRL:

base: Base CRL issuer: "cn=SubCA1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US" signed by Basic LDAP URI OU3 CA to OU3 SubCA1 Cert post to certificateRevocationList

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5.1.10.83 Basic LDAP URI OU3 SubCA1 ARL1:

```
base: Base CRL
issuer: "cn=SubCA1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
crlExtension:
   issuingDistributionPoint: critical
       distributionPoint:
           fullName:
              URI:
"ldap://LDAPserver1.subdomain.tld/cn=SubCA1%20CRL1.ou=Basic%20LDAP%20URI%20OU3.o=Test
%20Certificates,c=US?authorityRevocationList;binary"
       onlyContainsAuthorityCerts: TRUE
signed by Basic LDAP URI OU3 CA to OU3 SubCA1 Cert
post to authorityRevocationList at "cn=SubCA1 CRL1, ou=Basic LDAP URI OU3, o=Test Certificates,
c=US"
5.1.10.84 Basic LDAP URI OU3 SubCA1 CRL1:
base: Base CRL
issuer: "cn=SubCA1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
crlExtension:
   issuingDistributionPoint: critical
       distributionPoint:
           fullName:
              URI:
"ldap://LDAPserver1.subdomain.tld/cn=SubCA1%20CRL1,ou=Basic%20LDAP%20URI%20OU3,o=Test
%20Certificates,c=US?certificateRevocationList;binary"
       onlyContainsUserCerts: TRUE
signed by Basic LDAP URI OU3 CA to OU3 SubCA1 Cert
post to certificateRevocationList at "cn=SubCA1 CRL1, ou=Basic LDAP URI OU3, o=Test Certificates,
c=US"
5.1.10.85 Basic LDAP URI OU3 CA to OU3 PeerCA1 Cert:
base: Base Intermediate Certificate
serial number: 4
issuer: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
subject: "cn=PeerCA1, dc=BasicLDAPURIOrg3, dc=testcertificates, dc=gov"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.29"
   "2.16.840.1.101.3.2.1.48.30"
   "2.16.840.1.101.3.2.1.48.31"
   "2.16.840.1.101.3.2.1.48.32"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificates,
c=US?cACertificate;binary,crossCertificatePair;binary"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
```

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URI:

URI:

"ldap://LDAPserver2.subdomain.tld/cn=PeerCA1,dc=BasicLDAPURIOrg3,dc=testcertificates,dc=gov?cA Certificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName:

"ldap://LDAPserver1.subdomain.tld/cn=CRL1,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificates.c=US?authorityRevocationList;binary"

signed by Basic LDAP URI OU3 CA Cert

5.1.10.86 Basic LDAP URI OU3 PeerCA1 to OU3 CA Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=PeerCA1, dc=BasicLDAPURIOrg3, dc=testcertificates, dc=gov" subject: "cn=CA, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.29"

"2.16.840.1.101.3.2.1.48.30"

"2.16.840.1.101.3.2.1.48.31"

"2.16.840.1.101.3.2.1.48.32"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver2.subdomain.tld/cn=PeerCA1,dc=BasicLDAPURIOrg3,dc=testcertificates,dc=gov?cA Certificate;binary,crossCertificatePair;binary"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=CA,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certificates,c=US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI:

"ldap://LDAPserver2.subdomain.tld/cn=PeerCA1,dc=BasicLDAPURIOrg3,dc=testcertificates,dc=gov?cert ificateRevocationList;binary"

public key from Basic LDAP URI OU3 CA Cert

signed by Basic LDAP URI OU3 CA to OU3 PeerCA1 Cert

5.1.10.87 Basic LDAP URI OU3 PeerCA1 CRL:

base: Base CRL

issuer: "cn=PeerCA1, dc=BasicLDAPURIOrg3, dc=testcertificates, dc=gov"

signed by Basic LDAP URI OU3 CA to OU3 PeerCA1 Cert

post to certificateRevocationList

5.1.10.88 Basic LDAP URI Path Discovery OU3 EE1:

base: Base End Certificate

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```
serial number: 1
issuer: "cn=SubCA1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Path Discovery OU3 EE1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.29"
   "2.16.840.1.101.3.2.1.48.30"
   "2.16.840.1.101.3.2.1.48.31"
   "2.16.840.1.101.3.2.1.48.32"
basicConstraintsExtension: critical
   cA: FALSE
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI
"ldap://LDAPserver1.subdomain.tld/cn=SubCA1.ou=Basic%20LDAP%20URI%20OU3.o=Test%20Certifi
cates,c=US?cACertificate;binary,crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
"ldap://LDAPserver1.subdomain.tld/cn=SubCA1%20CRL1.ou=Basic%20LDAP%20URI%20OU3.o=Test
%20Certificates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI OU3 CA to OU3 SubCA1 Cert
5.1.10.89 Basic LDAP URI Path Discovery OU3 EE2:
base: Base End Certificate
serial number: 2
issuer: "cn=SubCA1, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
subject: "cn=Basic LDAP URI Path Discovery OU3 EE2, ou=Basic LDAP URI OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.2"
basicConstraintsExtension: critical
   cA: FALSE
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
"ldap://LDAPserver1.subdomain.tld/cn=SubCA1,ou=Basic%20LDAP%20URI%20OU3,o=Test%20Certifi
cates.c=US?cACertificate;binary.crossCertificatePair;binary"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI:
"ldap://LDAPserver1.subdomain.tld/cn=SubCA1%20CRL1,ou=Basic%20LDAP%20URI%20OU3,o=Test
%20Certificates,c=US?certificateRevocationList;binary"
subjectAltNameExtension:
   rfc822Name: "sender@testcertificates.gov"
signed by Basic LDAP URI OU3 CA to OU3 SubCA1 Cert
```

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5.1.11 Basic Path Discovery HTTP URI Certificates and CRLs

5.1.11.1 Basic URI Trust Anchor to Basic HTTP URI Peer 1 Cert:

base: Base Intermediate Certificate

serial number: 8

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 1 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer1CA.p7c"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" signed by Basic HTTP URI Trust Anchor Root Cert

5.1.11.2 Basic HTTP URI Peer 1 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 1 CA, o=Test Certificates, c=US" signed by Basic URI Trust Anchor to Basic HTTP URI Peer 1 Cert

5.1.11.3 Basic HTTP URI Peer 1 to Basic URI Trust Anchor Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 1 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer1CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer1CACRL.crl"

public key from Basic HTTP URI Trust Anchor Root Cert

signed by Basic URI Trust Anchor to Basic HTTP URI Peer 1 Cert

5.1.11.4 Basic HTTP URI Peer 2 CA Cert:

base: Base Root Certificate

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serial number: 1

issuer: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer2.p7c"

self-signed

5.1.11.5 Basic HTTP URI Peer 2 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US"

signed by Basic HTTP URI Peer 2 CA Cert

5.1.11.6 Basic HTTP URI Peer 1 to Basic HTTP URI Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 1 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer1CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer2.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer1CACRL.crl"

public key from Basic HTTP URI Peer 2 CA Cert

signed by Basic URI Trust Anchor to Basic HTTP URI Peer 1 Cert

5.1.11.7 Basic HTTP URI Peer 2 to Basic HTTP URI Peer 1 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 1 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer2.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer1CA.p7c"

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cRLDistributionPoints: not critical

distribution Point:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer2CACRL.crl"

public key from Basic URI Trust Anchor to Basic HTTP URI Peer 1 Cert

signed by Basic HTTP URI Peer 2 CA Cert

5.1.11.8 Basic HTTP URI Peer 3 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 3 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 3 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer3.p7c"

self-signed

5.1.11.9 Basic HTTP URI Peer 3 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 3 CA, o=Test Certificates, c=US"

signed by Basic HTTP URI Peer 3 CA Cert

5.1.11.10 Basic HTTP URI Peer 3 to Basic HTTP URI Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 3 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer3.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer2.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer3CACRL.crl"

public key from Basic HTTP URI Peer 2 CA Cert

signed by Basic HTTP URI Peer 3 CA Cert

5.1.11.11 Basic HTTP URI Peer 4 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 4 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 4 CA, o=Test Certificates. c=US"

subjectInfoAccess: not critical

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AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer4.p7c"

self-signed

5.1.11.12 Basic HTTP URI Peer 4 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 4 CA, o=Test Certificates, c=US"

signed by Basic HTTP URI Peer 4 CA Cert

5.1.11.13 Basic HTTP URI Peer 4 to Basic HTTP URI Peer 2 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 4 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer4.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer2.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer4CACRL.crl"

public key from Basic HTTP URI Peer 2 CA Cert

signed by Basic HTTP URI Peer 4 CA Cert

5.1.11.14 Basic HTTP URI Peer 2 to Basic HTTP URI Peer 2 SubCA Cert:

base: Base Intermediate Certificate

serial number: 3

issuer: "cn=Basic HTTP URI Peer 2 CA, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Peer 2 SubCA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer2.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer2SubCA.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer2CACRL.crl"

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5.1.11.15 Basic HTTP URI Peer 2 SubCA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 2 SubCA, o=Test Certificates, c=US" signed by Basic HTTP URI Peer 2 to Basic HTTP URI Peer 2 SubCA Cert

5.1.11.16 Basic HTTP URI Path Discovery Test2 EE:

base: Base End Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 2 SubCA, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery EE Certificate Test2, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer2SubCA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer2SubCACRL.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Peer 2 to Basic HTTP URI Peer 2 SubCA Cert

5.1.11.17 Basic HTTP URI Peer 5 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer5.p7c"

self-signed

5.1.11.18 Basic HTTP URI Peer 5 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US"

signed by Basic HTTP URI Peer 5 CA Cert

5.1.11.19 Basic URI Trust Anchor to Basic HTTP URI Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 9

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

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URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer5.p7c"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl"

public key from Basic HTTP URI Peer 5 CA Cert signed by Basic HTTP URI Trust Anchor Root Cert

5.1.11.20 Basic HTTP URI Peer 5 to Basic URI Trust Anchor Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer5.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer5CACRL.crl"

public key from Basic HTTP URI Trust Anchor Root Cert

signed by Basic HTTP URI Peer 5 CA Cert

5.1.11.21 Basic HTTP URI Peer 6 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 6 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 6 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer6.p7c"

self-signed

5.1.11.22 Basic HTTP URI Peer 6 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 6 CA, o=Test Certificates, c=US"

signed by Basic HTTP URI Peer 6 CA Cert

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5.1.11.23 Basic HTTP URI Peer 6 to Basic HTTP URI Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 6 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer6.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer5.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer6CACRL.crl"

public key from Basic HTTP URI Peer 5 CA Cert

signed by Basic HTTP URI Peer 6 CA Cert

5.1.11.24 Basic HTTP URI Peer 7 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 7 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 7 CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer7.p7c"

self-signed

5.1.11.25 Basic HTTP URI Peer 7 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 7 CA, o=Test Certificates, c=US"

signed by Basic HTTP URI Peer 7 CA Cert

5.1.11.26 Basic HTTP URI Peer 7 to Basic HTTP URI Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 7 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer7.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

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accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer5.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer7CACRL.crl" public key from Basic HTTP URI Peer 5 CA Cert signed by Basic HTTP URI Peer 7 CA Cert

5.1.11.27 Basic HTTP URI Peer 5 to Basic HTTP URI Peer 8 Cert:

base: Base Intermediate Certificate

serial number: 3

issuer: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 8 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer5.p7c" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer8.p7c" cRLDistributionPoints: not critical

distributionPoint: fullName

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer5CACRL.crl" signed by Basic HTTP URI Peer 5 CA Cert

5.1.11.28 Basic HTTP URI Peer 8 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 8 CA, o=Test Certificates, c=US" signed by Basic HTTP URI Peer 5 to Basic HTTP URI Peer 8 Cert

5.1.11.29 Basic HTTP URI Peer 8 to Basic HTTP URI Peer 5 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 8 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 5 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer8.p7c" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer5.p7c" cRLDistributionPoints: not critical

distributionPoint:

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fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer8CACRL.crl" public key from Basic HTTP URI Peer 5 CA Cert signed by Basic HTTP URI Peer 5 to Basic HTTP URI Peer 8 Cert

5.1.11.30 Basic HTTP URI Peer 8 to Basic HTTP URI Peer 9 Cert:

base: Base Intermediate Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 8 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 9 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer8.p7c" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer9.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer8CACRL.crl" signed by Basic HTTP URI Peer 5 to Basic HTTP URI Peer 8 Cert

5.1.11.31 Basic HTTP URI Peer 9 CA CRL:

base: Base CRL

issuer: "cn=Basic HTTP URI Peer 9 CA, o=Test Certificates, c=US" signed by Basic HTTP URI Peer 8 to Basic HTTP URI Peer 9 Cert

5.1.11.32 Basic HTTP URI Peer 9 to Basic HTTP URI Peer 8 Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=Basic HTTP URI Peer 9 CA, o=Test Certificates, c=US" subject: "cn=Basic HTTP URI Peer 8 CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer9.p7c" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIPeer8.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer9CACRL.crl" public key from Basic HTTP URI Peer 5 to Basic HTTP URI Peer 8 Cert signed by Basic HTTP URI Peer 8 to Basic HTTP URI Peer 9 Cert

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5.1.11.33 Basic HTTP URI Path Discovery Test4 EE:

base: Base End Certificate

serial number: 2

issuer: "cn=Basic HTTP URI Peer 9 CA, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery EE Certificate Test4, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIPeer9.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIPeer9CACRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Peer 8 to Basic HTTP URI Peer 9 Cert

5.1.11.34 Basic HTTP URI Bridge CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

 $URI: \ "http://Webserver1.subdomain.tld/CRL directory/BasicHTTPURIBridgeCAARL1.crl" self-signed$

5.1.11.35 Basic HTTP URI Bridge CA Cert2:

base: Base Root Certificate

serial number: 2

issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCAARL1.crl" self-signed

5.1.11.36 Basic HTTP URI Bridge CA Cert3:

base: Base Intermediate Certificate

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serial number: 3

issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIBridge.p7c" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCAARL1.crl" certificatePoliciesExtension: not critical

"2.5.29.32.0"

public key from Basic HTTP URI Bridge CA Cert signed by Basic HTTP URI Bridge CA Cert2

5.1.11.37 Basic HTTP URI Bridge CA Cert4:

base: Base Intermediate Certificate

serial number: 4

issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US" subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIBridge.p7c" subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCAARL1.crl" certificatePoliciesExtension: not critical

"2.5.29.32.0"

public key from Basic HTTP URI Bridge CA Cert2 signed by Basic HTTP URI Bridge CA Cert

5.1.11.38 Basic HTTP URI Bridge CA CRL:

base: Base CRL

issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

signed by Basic HTTP URI Bridge CA Cert2

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5.1.11.39 Basic HTTP URI Bridge CA CRL1:

base: Base CRL

issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCACRL1.crl"

onlyContainsUserCerts: TRUE signed by Basic HTTP URI Bridge CA Cert

5.1.11.40 Basic HTTP URI Bridge CA ARL1:

base: Base CRL

issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCAARL1.crl"

onlyContainsAuthorityCerts: TRUE signed by Basic HTTP URI Bridge CA Cert

5.1.11.41 Basic URI Trust Anchor to Bridge HTTP URI Cert:

base: Base Intermediate Certificate

serial number: 25

issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US" subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"

subject. Ou busic III II OKI bridge CA, O Test

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl" certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.1"

"2.16.840.1.101.3.2.1.48.2"

"2.16.840.1.101.3.2.1.48.3"

"2.16.840.1.101.3.2.1.48.6"

"2.16.840.1.101.3.2.1.48.7"

"2.16.840.1.101.3.2.1.48.10"

"2.16.840.1.101.3.2.1.48.4"

"2.16.840.1.101.3.2.1.48.5"

policyMappingsExtension: not critical

map "2.16.840.1.101.3.2.1.48.1" to "2.16.840.1.101.3.2.1.48.8"

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```
map "2.16.840.1.101.3.2.1.48.2" to "2.16.840.1.101.3.2.1.48.9"
    map "2.16.840.1.101.3.2.1.48.3" to "2.16.840.1.101.3.2.1.48.8"
policyConstraintsExtension: critical
    requireExplicitPolicy: 0
public key from Basic HTTP URI Bridge CA Cert
signed by Basic HTTP URI Trust Anchor Root Cert
5.1.11.42 Basic URI Trust Anchor to Bridge HTTP URI Cert2:
base: Base Intermediate Certificate
serial number: 26
issuer: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"
subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToTrustAnchor1.p7c"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURITrustAnchorRootCRL.crl"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.1"
   "2.16.840.1.101.3.2.1.48.2"
    "2.16.840.1.101.3.2.1.48.3"
policyConstraintsExtension: critical
   requireExplicitPolicy: 0
    inhibitPolicyMapping: 0
public key from Basic HTTP URI Bridge CA Cert
signed by Basic HTTP URI Trust Anchor Root Cert
5.1.11.43 Basic HTTP URI Bridge to Trust Anchor Cert:
base: Base Intermediate Certificate
serial number: 5
```

base: Base Intermediate Certificate
serial number: 5
issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"
subject: "cn=Basic HTTP URI Trust Anchor, o=Test Certificates, c=US"
authorityInfoAccess: not critical
 AccessDescription:
 accessMethod: id-ad-caIssuers
 accessLocation:
 URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIBridge.p7c"
subjectInfoAccess: not critical
 AccessDescription:
 accessMethod: id-ad-caRepository
 accessMethod: id-ad-caRepository
 accessLocation:
 URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByTrustAnchor1.p7c"
cRLDistributionPoints: not critical
 distributionPoint:

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5.1.11.44 Basic HTTP URI OU1 CA Cert:

5.1.11.45 Basic HTTP URI OU1 CA CRL:

base: Base CRL issuer: "cn=CA, ou=Basic HTTP URI OU1, o=Test Certificates, c=US" signed by Basic HTTP URI OU1 CA Cert post to certificateRevocationList

5.1.11.46 Basic HTTP URI Bridge to OU1 CA Cert:

```
base: Base Intermediate Certificate
serial number: 6
issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"
subject: "cn=CA, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.7"
    "2.16.840.1.101.3.2.1.48.8"
    "2.16.840.1.101.3.2.1.48.10"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.7" to "2.16.840.1.101.3.2.1.48.37"
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.38"
   map "2.16.840.1.101.3.2.1.48.10" to "2.16.840.1.101.3.2.1.48.39"
nameConstraintsExtension: critical
    permittedSubtrees:
       directoryName: "ou=Basic HTTP URI OU1, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
```

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URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIBridge.p7c" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOU1CA.p7c" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCAARL1.crl" public key from Basic HTTP URI OU1 CA Cert signed by Basic HTTP URI Bridge CA Cert 5.1.11.47 Basic HTTP URI OU1 CA to Bridge HTTP URI Cert: base: Base Intermediate Certificate serial number: 2 issuer: "cn=CA. ou=Basic HTTP URI OU1. o=Test Certificates. c=US" subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.37" "2.16.840.1.101.3.2.1.48.38" "2.16.840.1.101.3.2.1.48.39" policyMappingsExtension: not critical map "2.16.840.1.101.3.2.1.48.37" to "2.16.840.1.101.3.2.1.48.7" map "2.16.840.1.101.3.2.1.48.38" to "2.16.840.1.101.3.2.1.48.8" map "2.16.840.1.101.3.2.1.48.39" to "2.16.840.1.101.3.2.1.48.10" nameConstraintsExtension: critical excludedSubtrees: directoryName: "ou=Basic HTTP URI OU1, o=Test Certificates, c=US" minimum: 0

maximum: absent authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU1CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU1CACRL.crl" public key from Basic HTTP URI Bridge CA Cert signed by Basic HTTP URI OU1 CA Cert

5.1.11.48 Basic HTTP URI Path Discovery OU1 EE1:

base: Base End Certificate

serial number: 3

issuer: "cn=CA, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"

DRAFT - 6/3/2005132 **NIST** subject: "cn=Basic HTTP URI Path Discovery OU1 EE1, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.37" authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU1CA.p7c" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU1CACRL.crl" subjectAltNameExtension: rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI OU1 CA Cert

5.1.11.49 Basic HTTP URI Path Discovery OU1 EE2:

base: Base End Certificate

serial number: 4

issuer: "cn=CA, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery OU1 EE2, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.38" authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU1CA.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU1CACRL.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI OU1 CA Cert

5.1.11.50 Basic HTTP URI Path Discovery OU1 EE3:

base: Base End Certificate

serial number: 5

issuer: "cn=CA, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery OU1 EE3, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.39" authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU1CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

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fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU1CACRL.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI OU1 CA Cert

5.1.11.51 Basic HTTP URI Path Discovery OU1 EE4:

base: Base End Certificate

serial number: 6

issuer: "cn=CA, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery OU1 EE4, ou=Basic HTTP URI OU1, o=Test Certificates,

e=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.40" authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU1CA.p7c"

cRLDistributionPoints: not critical

distribution Point:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU1CACRL.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI OU1 CA Cert

5.1.11.52 Basic HTTP URI Path Discovery OU1 EE5:

base: Base End Certificate

serial number: 7

issuer: "cn=CA, ou=Basic HTTP URI OU1, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery OU1 EE5, ou=Basic HTTP URI OU2, o=Test Certificates,

c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.37"

"2.16.840.1.101.3.2.1.48.38"

"2.16.840.1.101.3.2.1.48.39"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU1CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU1CACRL.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI OU1 CA Cert

5.1.11.53 Basic HTTP URI Org2 CA Cert1:

base: Base Root Certificate

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serial number: 1 issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c" self-signed

5.1.11.54 Basic HTTP URI Org2 CA Cert2:

base: Base Root Certificate serial number: 2 issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c" self-signed

5.1.11.55 Basic HTTP URI Org2 CA Cert3:

base: Base Root Certificate serial number: 3 issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c" self-signed

5.1.11.56 Basic HTTP URI Org2 CA Cert4:

base: Base Root Certificate serial number: 4 issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subjectInfoAccess: not critical AccessDescription: accessMethod: id-ad-caRepository accessLocation: URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl" self-signed

5.1.11.57 Basic HTTP URI Org2 CA Cert5:

base: Base Intermediate Certificate

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serial number: 5

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL2.crl"

public key from Basic HTTP URI Org2 CA Cert1

signed by Basic HTTP URI Org2 CA Cert2

5.1.11.58 Basic HTTP URI Org2 CA Cert6:

base: Base Intermediate Certificate

serial number: 6

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl"

public key from Basic HTTP URI Org2 CA Cert2

signed by Basic HTTP URI Org2 CA Cert1

5.1.11.59 Basic HTTP URI Org2 CA Cert7:

base: Base Intermediate Certificate

serial number: 7

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

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authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl"

public key from Basic HTTP URI Org2 CA Cert2

signed by Basic HTTP URI Org2 CA Cert3

5.1.11.60 Basic HTTP URI Org2 CA Cert8:

base: Base Intermediate Certificate

serial number: 8

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2 5 29 32 0"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl"

public key from Basic HTTP URI Org2 CA Cert3

signed by Basic HTTP URI Org2 CA Cert2

5.1.11.61 Basic HTTP URI Org2 CA Cert9:

base: Base Intermediate Certificate

serial number: 9

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

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subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl"

public key from Basic HTTP URI Org2 CA Cert3

signed by Basic HTTP URI Org2 CA Cert4

5.1.11.62 Basic HTTP URI Org2 CA Cert10:

base: Base Intermediate Certificate

serial number: 10

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov" subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.5.29.32.0"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl"

public key from Basic HTTP URI Org2 CA Cert4

signed by Basic HTTP URI Org2 CA Cert3

5.1.11.63 Basic HTTP URI Org2 CA CRL:

base: Base CRL

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

revokedCertificates: serialNumber: 10

crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

cACompromise

serialNumber: 13 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

serialNumber: 15 crlEntryExtensions:

reasonCodeExtension: not critical

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reasons:

keyCompromise

signed by Basic HTTP URI Org2 CA Cert1

5.1.11.64 Basic HTTP URI Org2 CA CRL1:

base: Base CRL

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CACRL1.crl"

onlyContainsUserCerts: TRUE

revokedCertificates:

serialNumber: 13 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

keyCompromise

signed by Basic HTTP URI Org2 CA Cert1

5.1.11.65 Basic HTTP URI Org2 CA ARL1:

base: Base CRL

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl"

onlyContainsAuthorityCerts: TRUE

revokedCertificates:

serialNumber: 10 crlEntryExtensions:

reasonCodeExtension: not critical

reasons:

cACompromise

signed by Basic HTTP URI Org2 CA Cert1

5.1.11.66 Basic HTTP URI Org2 CA ARL2:

base: Base CRL

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

crlExtension:

issuingDistributionPoint: critical

distributionPoint:

fullName

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL2.crl"

onlyContainsAuthorityCerts: TRUE

signed by Basic HTTP URI Org2 CA Cert2

5.1.11.67 Basic HTTP URI Org2 CA CRL3:

base: Base CRL

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

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```
crlExtension:
    issuingDistributionPoint: critical
       distributionPoint:
           fullName:
               URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CACRL3.crl"
       onlyContainsUserCerts: TRUE
revokedCertificates:
   serialNumber: 15
   crlEntryExtensions:
       reasonCodeExtension: not critical
           reasons:
               kevCompromise
signed by Basic HTTP URI Org2 CA Cert1
5.1.11.68 Basic HTTP URI Bridge to Org2 CA Cert:
base: Base Intermediate Certificate
serial number: 7
issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"
subject: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.8"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.27"
nameConstraintsExtension: critical
    permittedSubtrees:
       directoryName: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"
       minimum: 0
       maximum: absent
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIBridge.p7c"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOrg2CA.p7c"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCAARL1.crl"
public key from Basic HTTP URI Org2 CA Cert2
signed by Basic HTTP URI Bridge CA Cert
5.1.11.69 Basic HTTP URI Org2 CA to Bridge HTTP URI Cert:
base: Base Intermediate Certificate
serial number: 11
issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"
subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"
authorityInfoAccess: not critical
   AccessDescription:
```

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accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CAARL1.crl"

public key from Basic HTTP URI Bridge CA Cert

signed by Basic HTTP URI Org2 CA Cert2

5.1.11.70 Basic HTTP URI Path Discovery Org2 EE1:

base: Base End Certificate

serial number: 12

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic HTTP URI Path Discovery Org2 EE1, dc=BasicHTTPURIOrg2, dc=testcertificates,

dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.26"

"2.16.840.1.101.3.2.1.48.27"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CACRL1.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI Org2 CA Cert2

5.1.11.71 Basic HTTP URI Path Discovery Org2 EE2:

base: Base End Certificate

serial number: 13

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic HTTP URI Path Discovery Org2 EE2, dc=BasicHTTPURIOrg2, dc=testcertificates,

dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.26"

"2.16.840.1.101.3.2.1.48.27"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

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 $URI: \ ''http://Webserver2.subdomain.tld/CRL directory/BasicHTTPURIOrg2CACRL1.crl'' subjectAltNameExtension:$

rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI Org2 CA Cert2

5.1.11.72 Basic HTTP URI Path Discovery Org2 EE3:

base: Base End Certificate

serial number: 14

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic HTTP URI Path Discovery Org2 EE3, dc=BasicHTTPURIOrg2, dc=testcertificates,

dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.26"

"2.16.840.1.101.3.2.1.48.27"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CACRL3.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI Org2 CA Cert3

5.1.11.73 Basic HTTP URI Path Discovery Org2 EE4:

base: Base End Certificate

serial number: 15

issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"

subject: "cn=Basic HTTP URI Path Discovery Org2 EE4, dc=BasicHTTPURIOrg2, dc=testcertificates,

dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.26"

"2.16.840.1.101.3.2.1.48.27"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CACRL3.crl"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic HTTP URI Org2 CA Cert3

5.1.11.74 Basic HTTP URI Path Discovery Org2 EE5:

base: Base End Certificate

serial number: 16

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```
issuer: "dc=BasicHTTPURIOrg2, dc=testcertificates, dc=gov"
subject: "cn=Basic HTTP URI Path Discovery Org2 EE5, dc=BasicHTTPURIOrg2, dc=testcertificates,
dc=gov"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.26"
    "2.16.840.1.101.3.2.1.48.27"
authorityInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOrg2CA.p7c"
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOrg2CACRL3.crl"
subjectAltNameExtension:
```

5.1.11.75 Basic HTTP URI OU3 CA Cert:

signed by Basic HTTP URI Org2 CA Cert4

rfc822Name: "sender@testcertificates.gov"

base: Base Root Certificate

serial number: 1

issuer: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOU3CA.p7c" self-signed

5.1.11.76 Basic HTTP URI OU3 CA CRL:

base: Base CRL

issuer: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

signed by Basic HTTP URI OU3 CA Cert

5.1.11.77 Basic HTTP URI OU3 CA ARL1:

base: Base CRL

issuer: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3CAARL1.crl"

onlyContainsAuthorityCerts: TRUE

signed by Basic HTTP URI OU3 CA Cert

5.1.11.78 Basic HTTP URI OU3 CA CRL1:

base: Base CRL

issuer: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

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```
distributionPoint:
    fullName:
        URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3CACRL1.crl"
        onlyContainsUserCerts: TRUE
signed by Basic HTTP URI OU3 CA Cert
```

5.1.11.79 Basic HTTP URI Bridge to OU3 CA Cert:

```
base: Base Intermediate Certificate
serial number: 8
issuer: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"
subject: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
    "2.16.840.1.101.3.2.1.48.10"
   "2.16.840.1.101.3.2.1.48.2"
policyMappingsExtension: not critical
    map "2.16.840.1.101.3.2.1.48.10" to "2.16.840.1.101.3.2.1.48.32"
nameConstraintsExtension: critical
    permittedSubtrees:
       directoryName: "ou=Basic HTTP URI OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIBridge.p7c"
subjectInfoAccess: not critical
    AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOU3CA.p7c"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIBridgeCAARL1.crl"
public key from Basic HTTP URI OU3 CA Cert
signed by Basic HTTP URI Bridge CA Cert
```

5.1.11.80 Basic HTTP URI OU3 CA to Bridge HTTP URI Cert:

```
base: Base Intermediate Certificate
serial number: 2
issuer: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"
subject: "ou=Basic HTTP URI Bridge CA, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
        "2.16.840.1.101.3.2.1.48.29"
        "2.16.840.1.101.3.2.1.48.30"
        "2.16.840.1.101.3.2.1.48.31"
        "2.16.840.1.101.3.2.1.48.32"
policyMappingsExtension: not critical
        map "2.16.840.1.101.3.2.1.48.29" to "2.16.840.1.101.3.2.1.48.6"
        map "2.16.840.1.101.3.2.1.48.30" to "2.16.840.1.101.3.2.1.48.7"
        map "2.16.840.1.101.3.2.1.48.31" to "2.16.840.1.101.3.2.1.48.8"
        map "2.16.840.1.101.3.2.1.48.32" to "2.16.840.1.101.3.2.1.48.10"
```

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```
excludedSubtrees:
       directoryName: "ou=Basic HTTP URI OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU3CA.p7c"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIBridge.p7c"
cRLDistributionPoints: not critical
   distributionPoint:
       fullName:
           URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3CAARL1.crl"
public key from Basic HTTP URI Bridge CA Cert
signed by Basic HTTP URI OU3 CA Cert
5.1.11.81 Basic HTTP URI OU3 CA to OU3 SubCA1 Cert:
base: Base Intermediate Certificate
serial number: 3
issuer: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"
subject: "cn=SubCA1, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"
certificatePoliciesExtension: not critical
   "2.16.840.1.101.3.2.1.48.2"
   "2.16.840.1.101.3.2.1.48.29"
   "2.16.840.1.101.3.2.1.48.30"
   "2.16.840.1.101.3.2.1.48.31"
   "2.16.840.1.101.3.2.1.48.32"
nameConstraintsExtension: not critical
   permittedSubtrees:
       directoryName: "ou=Basic HTTP URI OU3, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
policyConstraintsExtension: not critical
   requireExplicitPolicy: 0
   inhibitPolicyMapping: 0
authorityInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caIssuers
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU3CA.p7c"
subjectInfoAccess: not critical
   AccessDescription:
       accessMethod: id-ad-caRepository
       accessLocation:
           URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOU3SubCA1.p7c"
cRLDistributionPoints: not critical
   distributionPoint:
```

nameConstraintsExtension: critical

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fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3CAARL1.crl" signed by Basic HTTP URI OU3 CA Cert

5.1.11.82 Basic HTTP URI OU3 SubCA1 CRL:

base: Base CRL

issuer: "cn=SubCA1, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

signed by Basic HTTP URI OU3 CA to OU3 SubCA1 Cert

5.1.11.83 Basic HTTP URI OU3 SubCA1 ARL1:

base: Base CRL

issuer: "cn=SubCA1, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

distributionPoint: fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3SubCA1ARL1.crl"

onlyContainsAuthorityCerts: TRUE

signed by Basic HTTP URI OU3 CA to OU3 SubCA1 Cert

5.1.11.84 Basic HTTP URI OU3 SubCA1 CRL1:

base: Base CRL

issuer: "cn=SubCA1, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

crlExtension:

issuingDistributionPoint: critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3SubCA1CRL1.crl"

onlyContainsUserCerts: TRUE

signed by Basic HTTP URI OU3 CA to OU3 SubCA1 Cert

5.1.11.85 Basic HTTP URI OU3 CA to OU3 PeerCA1 Cert:

base: Base Intermediate Certificate

serial number: 4

issuer: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

subject: "cn=PeerCA1, dc=BasicHTTPURIOrg3, dc=testcertificates, dc=gov"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.29"

"2.16.840.1.101.3.2.1.48.30"

"2.16.840.1.101.3.2.1.48.31"

"2.16.840.1.101.3.2.1.48.32"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU3CA.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOU3PeerCA1.p7c"

cRLDistributionPoints: not critical

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distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3CAARL1.crl" signed by Basic HTTP URI OU3 CA Cert

5.1.11.86 Basic HTTP URI OU3 PeerCA1 to OU3 CA Cert:

base: Base Intermediate Certificate

serial number: 1

issuer: "cn=PeerCA1, dc=BasicHTTPURIOrg3, dc=testcertificates, dc=gov" subject: "cn=CA, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.29"

"2.16.840.1.101.3.2.1.48.30"

"2.16.840.1.101.3.2.1.48.31"

"2.16.840.1.101.3.2.1.48.32"

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver2.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU3PeerCA1.p7c"

subjectInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caRepository

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedByBasicHTTPURIOU3CA.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver2.subdomain.tld/CRLdirectory/BasicHTTPURIOU3PeerCA1CRL.crl"

public key from Basic HTTP URI OU3 CA Cert

signed by Basic HTTP URI OU3 CA to OU3 PeerCA1 Cert

5.1.11.87 Basic HTTP URI OU3 PeerCA1 CRL:

base: Base CRL

issuer: "cn=PeerCA1, dc=BasicHTTPURIOrg3, dc=testcertificates, dc=gov"

signed by Basic HTTP URI OU3 CA to OU3 PeerCA1 Cert

5.1.11.88 Basic HTTP URI Path Discovery OU3 EE1:

base: Base End Certificate

serial number: 1

issuer: "cn=SubCA1, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery OU3 EE1, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.29"

"2.16.840.1.101.3.2.1.48.30"

"2.16.840.1.101.3.2.1.48.31"

"2.16.840.1.101.3.2.1.48.32"

basicConstraintsExtension: critical

cA: FALSE

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

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accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU3SubCA1.p7c" cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3SubCA1CRL1.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI OU3 CA to OU3 SubCA1 Cert

5.1.11.89 Basic HTTP URI Path Discovery OU3 EE2:

base: Base End Certificate

serial number: 2

issuer: "cn=SubCA1, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

subject: "cn=Basic HTTP URI Path Discovery OU3 EE2, ou=Basic HTTP URI OU3, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

"2.16.840.1.101.3.2.1.48.2" basicConstraintsExtension: critical

cA: FALSE

authorityInfoAccess: not critical

AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicHTTPURIOU3SubCA1.p7c"

cRLDistributionPoints: not critical

distributionPoint:

fullName:

URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicHTTPURIOU3SubCA1CRL1.crl" subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov"

signed by Basic HTTP URI OU3 CA to OU3 SubCA1 Cert

5.1.12 Basic Path Discovery Combined Certificates and CRLs

5.1.12.1 Basic Combined OU4 CA Cert:

base: Base Root Certificate

serial number: 1

issuer: "cn=CA, ou=Basic Combined OU4, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic Combined OU4, o=Test Certificates, c=US"

self-signed

5.1.12.2 Basic Combined OU4 CA CRL:

base: Base CRL

issuer: "cn=CA, ou=Basic Combined OU4, o=Test Certificates, c=US"

signed by Basic Combined OU4 CA Cert

5.1.12.3 Basic Directory Bridge to Combined OU4 CA Cert:

base: Base Intermediate Certificate

serial number: 9

issuer: "ou=Basic Directory Bridge CA, o=Test Certificates, c=US" subject: "cn=CA, ou=Basic Combined OU4, o=Test Certificates, c=US"

certificatePoliciesExtension: not critical

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```
"2.16.840.1.101.3.2.1.48.8"
   "2.16.840.1.101.3.2.1.48.9"
policyMappingsExtension: not critical
   map "2.16.840.1.101.3.2.1.48.8" to "2.16.840.1.101.3.2.1.48.16"
    map "2.16.840.1.101.3.2.1.48.9" to "2.16.840.1.101.3.2.1.48.17"
nameConstraintsExtension: critical
   permittedSubtrees:
       directoryName: "ou=Basic Combined OU4, o=Test Certificates, c=US"
       minimum: 0
       maximum: absent
cRLDistributionPoints: not critical
    distributionPoint:
       fullName:
           directoryName: "cn=CRL1, ou=Basic Directory Bridge CA, o=Test Certificates, c=US"
public key from Basic Combined OU4 CA Cert
signed by Basic Directory Bridge CA Cert
```

5.1.12.4 Basic Combined OU4 to OU4 subCA Cert:

base: Base Intermediate Certificate serial number: 2 issuer: "cn=CA, ou=Basic Combined OU4, o=Test Certificates, c=US" subject: "cn=subCA, ou=Basic Combined OU4, o=Test Certificates, c=US" certificatePoliciesExtension: not critical "2.16.840.1.101.3.2.1.48.16" "2.16.840.1.101.3.2.1.48.17" policyConstraintsExtension: not critical requireExplicitPolicy: 0 authorityInfoAccess: not critical AccessDescription: accessMethod: id-ad-caIssuers accessLocation: URI: "http://Webserver1.subdomain.tld/p7cdirectory/IssuedToBasicCombinedOU4CA.p7c" cRLDistributionPoints: not critical distributionPoint: fullName: URI: "http://Webserver1.subdomain.tld/CRLdirectory/BasicCombinedOU4CACRL.crl" signed by Basic Combined OU4 CA Cert

5.1.12.5 Basic Combined OU4 subCA CRL:

base: Base CRL issuer: "cn=subCA, ou=Basic Combined OU4, o=Test Certificates, c=US" signed by Basic Combined OU4 to OU4 subCA Cert post to certificateRevocationList

5.1.12.6 Basic Combined Path Discovery OU4 EE1:

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AccessDescription:

accessMethod: id-ad-caIssuers

accessLocation:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=subCA,ou=Basic%20Combined%20OU4,o=Test%20Certificates,c =US?cACertificate;binary,crossCertificatePair;binary"

cRLDistributionPoints: not critical

distributionPoint: fullName:

URI:

"ldap://LDAPserver1.subdomain.tld/cn=subCA,ou=Basic%20Combined%20OU4,o=Test%20Certificates,c =US?certificateRevocationList;binary"

subjectAltNameExtension:

rfc822Name: "sender@testcertificates.gov" signed by Basic Combined OU4 to OU4 subCA Cert

5.2 Cross Certificate Pairs

RFC 2587 states that "[t]he forward elements of the **crossCertificatePair** attribute of a CA's directory entry shall be used to store all, except self-issued certificates issued to this CA. Optionally, the reverse elements of the **crossCertificatePair** attribute, of a CA's directory entry may contain a subset of certificates issued by this CA to other CAs." This section specifies the **crossCertificatePairs** that are to be generated for each cross-certificate specified in the previous section.

For each **crossCertificatePair** in which the **forward** [**issuedToThisCA**] element is populated, the **crossCertificatePair** is placed in the directory entry identified by the subject DN of the certificate. For each **crossCertificatePair** in which the **reverse** [**issuedByThisCA**] element is populated, the **crossCertificatePair** is stored in the directory entry identified by the issuer DN of the certificate.

5.2.1 Rudimentary Directory Cross Certificate Pairs

5.2.1.1 Basic Directory Trust Anchor SubCA1 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA1 Cert

reverse: absent

5.2.1.2 Basic Directory Trust Anchor SubCA1 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubCA1 Cert

5.2.1.3 Basic Directory Trust Anchor SubSubCA1 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubSubCA1 Cert

reverse: absent

5.2.1.4 Basic Directory Trust Anchor SubSubCA1 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubSubCA1 Cert

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5.2.1.5 Basic Directory Trust Anchor SubCA2 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA2 Cert

reverse: absent

5.2.1.6 Basic Directory Trust Anchor SubSubCA2 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubSubCA2 Cert

reverse: absent

5.2.1.7 Basic Directory Trust Anchor SubCA3 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA3 Cert

reverse: absent

5.2.1.8 Basic Directory Trust Anchor SubCA3 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubCA3 Cert

5.2.1.9 Basic Directory Trust Anchor SubCA3 Cert forward crossCertificatePair2:

forward: Basic Directory Trust Anchor SubCA3 Cert2

reverse: absent

5.2.1.10 Basic Directory Trust Anchor SubCA3 Cert reverse crossCertificatePair2:

forward: absent

reverse: Basic Directory Trust Anchor SubCA3 Cert2

5.2.1.11 Basic Directory Trust Anchor SubCA4 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA4 Cert

reverse: absent

5.2.1.12 Basic Directory Trust Anchor SubCA4 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubCA4 Cert

5.2.1.13 Basic Directory Trust Anchor SubCA5 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA5 Cert

reverse: absent

5.2.1.14 Basic Directory Trust Anchor SubCA5 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubCA5 Cert

5.2.1.15 Basic Directory Trust Anchor SubCA6 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA6 Cert

reverse: absent

5.2.1.16 Basic Directory Trust Anchor SubCA6 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubCA6 Cert

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5.2.1.17 Basic Directory Trust Anchor SubSubCA6 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubSubCA6 Cert

reverse: absent

5.2.1.18 Basic Directory Trust Anchor SubSubCA6 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubSubCA6 Cert

5.2.1.19 Basic Directory Trust Anchor SubCA7 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA7 Cert

reverse: absent

5.2.1.20 Basic Directory Trust Anchor SubCA7 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubCA7 Cert

5.2.1.21 Basic Directory Trust Anchor SubSubCA7 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubSubCA7 Cert

reverse: absent

5.2.1.22 Basic Directory Trust Anchor SubSubCA7 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubSubCA7 Cert

5.2.1.23 Basic Directory Trust Anchor SubCA8 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubCA8 Cert

reverse: absent

5.2.1.24 Basic Directory Trust Anchor SubCA8 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubCA8 Cert

5.2.1.25 Basic Directory Trust Anchor SubSubCA8 Cert forward crossCertificatePair:

forward: Basic Directory Trust Anchor SubSubCA8 Cert

reverse: absent

5.2.1.26 Basic Directory Trust Anchor SubSubCA8 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Trust Anchor SubSubCA8 Cert

5.2.2 Rudimentary LDAP URI Cross Certificate Pairs

5.2.2.1 Basic LDAP URI Trust Anchor SubCA1 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubCA1 Cert

reverse: absent

5.2.2.2 Basic LDAP URI Trust Anchor SubCA1 Cert reverse crossCertificatePair:

forward: absent

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reverse: Basic LDAP URI Trust Anchor SubCA1 Cert

5.2.2.3 Basic LDAP URI Trust Anchor SubSubCA1 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubSubCA1 Cert

reverse: absent

5.2.2.4 Basic LDAP URI Trust Anchor SubSubCA1 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubSubCA1 Cert

5.2.2.5 Basic LDAP URI Trust Anchor SubCA2 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubCA2 Cert

reverse: absent

5.2.2.6 Basic LDAP URI Trust Anchor SubSubCA2 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubSubCA2 Cert

reverse: absent

5.2.2.7 Basic LDAP URI Trust Anchor SubCA3 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubCA3 Cert

reverse: absent

5.2.2.8 Basic LDAP URI Trust Anchor SubCA3 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubCA3 Cert

5.2.2.9 Basic LDAP URI Trust Anchor SubCA3 Cert forward crossCertificatePair2:

forward: Basic LDAP URI Trust Anchor SubCA3 Cert2

reverse: absent

5.2.2.10 Basic LDAP URI Trust Anchor SubCA3 Cert reverse crossCertificatePair2:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubCA3 Cert2

5.2.2.11 Basic LDAP URI Trust Anchor SubCA4 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubCA4 Cert

reverse: absent

5.2.2.12 Basic LDAP URI Trust Anchor SubCA4 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubCA4 Cert

5.2.2.13 Basic LDAP URI Trust Anchor SubCA5 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubCA5 Cert

reverse: absent

5.2.2.14 Basic LDAP URI Trust Anchor SubCA5 Cert reverse crossCertificatePair:

forward: absent

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reverse: Basic LDAP URI Trust Anchor SubCA5 Cert

5.2.2.15 Basic LDAP URI Trust Anchor SubCA6 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubCA6 Cert

reverse: absent

5.2.2.16 Basic LDAP URI Trust Anchor SubCA6 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubCA6 Cert

5.2.2.17 Basic LDAP URI Trust Anchor SubSubCA6 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubSubCA6 Cert

reverse: absent

5.2.2.18 Basic LDAP URI Trust Anchor SubSubCA6 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubSubCA6 Cert

5.2.2.19 Basic LDAP URI Trust Anchor SubCA7 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubCA7 Cert

reverse: absent

5.2.2.20 Basic LDAP URI Trust Anchor SubCA7 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubCA7 Cert

5.2.2.21 Basic LDAP URI Trust Anchor SubSubCA7 Cert forward crossCertificatePair:

forward: Basic LDAP URI Trust Anchor SubSubCA7 Cert

reverse: absent

5.2.2.22 Basic LDAP URI Trust Anchor SubSubCA7 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Trust Anchor SubSubCA7 Cert

5.2.3 Basic Directory Cross Certificate Pairs

5.2.3.1 Basic Directory Trust Anchor and Peer 1 crossCertificatePair 1:

forward: Basic Directory Trust Anchor to Basic Directory Peer 1 Cert reverse: Basic Directory Peer 1 to Basic Directory Trust Anchor Cert

5.2.3.2 Basic Directory Trust Anchor and Peer 1 crossCertificatePair 2:

forward: Basic Directory Peer 1 to Basic Directory Trust Anchor Cert reverse: Basic Directory Trust Anchor to Basic Directory Peer 1 Cert

5.2.3.3 Basic Directory Peer 1 and Peer 2 crossCertificatePair 1:

forward: Basic Directory Peer 1 to Basic Directory Peer 2 Cert reverse: Basic Directory Peer 2 to Basic Directory Peer 1 Cert

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5.2.3.4 Basic Directory Peer 1 and Peer 2 crossCertificatePair 2:

forward: Basic Directory Peer 2 to Basic Directory Peer 1 Cert reverse: Basic Directory Peer 1 to Basic Directory Peer 2 Cert

5.2.3.5 Basic Directory Peer 3 to Peer 2 Cert forward crossCertificatePair:

forward: Basic Directory Peer 3 to Basic Directory Peer 2 Cert

reverse: absent

5.2.3.6 Basic Directory Peer 3 to Peer 2 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Peer 3 to Basic Directory Peer 2 Cert

5.2.3.7 Basic Directory Peer 4 to Peer 2 Cert forward crossCertificatePair:

forward: Basic Directory Peer 4 to Basic Directory Peer 2 Cert

reverse: absent

5.2.3.8 Basic Directory Peer 4 to Peer 2 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Peer 4 to Basic Directory Peer 2 Cert

5.2.3.9 Basic Directory Peer 2 SubCA Cert forward crossCertificatePair:

forward: Basic Directory Peer 2 SubCA Cert

reverse: absent

5.2.3.10 Basic Directory Peer 2 Sub CA Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Peer 2 SubCA Cert

5.2.3.11 Basic Directory Trust Anchor and Peer 5 crossCertificatePair 1:

forward: Basic Directory Trust Anchor to Basic Directory Peer 5 Cert reverse: Basic Directory Peer 5 to Basic Directory Trust Anchor Cert

5.2.3.12 Basic Directory Trust Anchor and Peer 5 crossCertificatePair 2:

forward: Basic Directory Peer 5 to Basic Directory Trust Anchor Cert reverse: Basic Directory Trust Anchor to Basic Directory Peer 5 Cert

5.2.3.13 Basic Directory Peer 6 to Peer 5 Cert forward crossCertificatePair:

forward: Basic Directory Peer 6 to Basic Directory Peer 5 Cert

reverse: absent

5.2.3.14 Basic Directory Peer 6 to Peer 5 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Peer 6 to Basic Directory Peer 5 Cert

5.2.3.15 Basic Directory Peer 7 to Peer 5 Cert forward crossCertificatePair:

forward: Basic Directory Peer 7 to Basic Directory Peer 5 Cert

reverse: absent

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5.2.3.16 Basic Directory Peer 7 to Peer 5 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Peer 7 to Basic Directory Peer 5 Cert

5.2.3.17 Basic Directory Peer 5 and Peer 8 crossCertificatePair 1:

forward: Basic Directory Peer 5 to Basic Directory Peer 8 Cert reverse: Basic Directory Peer 8 to Basic Directory Peer 5 Cert

5.2.3.18 Basic Directory Peer 5 and Peer 8 crossCertificatePair 2:

forward: Basic Directory Peer 8 to Basic Directory Peer 5 Cert reverse: Basic Directory Peer 5 to Basic Directory Peer 8 Cert

5.2.3.19 Basic Directory Peer 8 and Peer 9 crossCertificatePair 1:

forward: Basic Directory Peer 8 to Basic Directory Peer 9 Cert reverse: Basic Directory Peer 9 to Basic Directory Peer 8 Cert

5.2.3.20 Basic Directory Peer 8 and Peer 9 crossCertificatePair 2:

forward: Basic Directory Peer 9 to Basic Directory Peer 8 Cert reverse: Basic Directory Peer 8 to Basic Directory Peer 9 Cert

5.2.3.21 Basic Directory Trust Anchor and Bridge crossCertificatePair 1:

forward: Basic Directory Trust Anchor to Bridge Directory Cert

reverse: Basic Directory Bridge to Trust Anchor Cert

5.2.3.22 Basic Directory Trust Anchor and Bridge crossCertificatePair 2:

forward: Basic Directory Bridge to Trust Anchor Cert

reverse: Basic Directory Trust Anchor to Bridge Directory Cert

5.2.3.23 Basic Directory Trust Anchor and Bridge crossCertificatePair 3:

forward: Basic Directory Trust Anchor to Bridge Directory Cert2

reverse: Basic Directory Bridge to Trust Anchor Cert

5.2.3.24 Basic Directory Trust Anchor and Bridge crossCertificatePair 4:

forward: Basic Directory Bridge to Trust Anchor Cert

reverse: Basic Directory Trust Anchor to Bridge Directory Cert2

5.2.3.25 Basic Directory Bridge and OU1 CA crossCertificatePair 1:

forward: Basic Directory Bridge to OU1 CA Cert

reverse: Basic Directory OU1 CA to Bridge Directory Cert

5.2.3.26 Basic Directory Bridge and OU1 CA crossCertificatePair 2:

forward: Basic Directory OU1 CA to Bridge Directory Cert

reverse: Basic Directory Bridge to OU1 CA Cert

5.2.3.27 Basic Directory Bridge and Org2 CA crossCertificatePair 1:

forward: Basic Directory Bridge to Org2 CA Cert

reverse: Basic Directory Org2 CA to Bridge Directory Cert

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5.2.3.28 Basic Directory Bridge and Org2 CA crossCertificatePair 2:

forward: Basic Directory Org2 CA to Bridge Directory Cert

reverse: Basic Directory Bridge to Org2 CA Cert

5.2.3.29 Basic Directory Bridge and OU3 CA crossCertificatePair 1:

forward: Basic Directory Bridge to OU3 CA Cert

reverse: Basic Directory OU3 CA to Bridge Directory Cert

5.2.3.30 Basic Directory Bridge and OU3 CA crossCertificatePair 2:

forward: Basic Directory OU3 CA to Bridge Directory Cert

reverse: Basic Directory Bridge to OU3 CA Cert

5.2.3.31 Basic Directory OU3 CA to OU3 SubCA1 forward crossCertificatePair:

forward: Basic Directory OU3 CA to OU3 SubCA1 Cert

reverse: absent

5.2.3.32 Basic Directory OU3 CA to OU3 SubCA1 reverse crossCertificatePair:

forward: absent

reverse: Basic Directory OU3 CA to OU3 SubCA1 Cert

5.2.3.33 Basic Directory OU3 CA and OU3 PeerCA1 crossCertificatePair1:

forward: Basic Directory OU3 CA to OU3 PeerCA1 Cert reverse: Basic Directory OU3 PeerCA1 to OU3 CA Cert

5.2.3.34 Basic Directory OU3 CA and OU3 PeerCA1 crossCertificatePair2:

forward: Basic Directory OU3 PeerCA1 to OU3 CA Cert reverse: Basic Directory OU3 CA to OU3 PeerCA1 Cert

5.2.3.35 Basic Directory Bridge to Combined OU4 CA reverse crossCertificatePair:

forward: absent

reverse: Basic Directory Bridge to Combined OU4 CA Cert

5.2.4 Basic LDAP URI Cross Certificate Pairs

5.2.4.1 Basic URI Trust Anchor and Basic LDAP URI Peer 1 crossCertificatePair 1:

forward: Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert reverse: Basic LDAP URI Peer 1 to Basic URI Trust Anchor Cert

5.2.4.2 Basic URI Trust Anchor and Basic LDAP URI Peer 1 crossCertificatePair 2:

forward: Basic LDAP URI Peer 1 to Basic URI Trust Anchor Cert reverse: Basic URI Trust Anchor to Basic LDAP URI Peer 1 Cert

5.2.4.3 Basic LDAP URI Peer 1 and Basic LDAP URI Peer 2 crossCertificatePair 1:

forward: Basic LDAP URI Peer 1 to Basic LDAP URI Peer 2 Cert reverse: Basic LDAP URI Peer 2 to Basic LDAP URI Peer 1 Cert

5.2.4.4 Basic LDAP URI Peer 1 and Basic LDAP URI Peer 2 crossCertificatePair 2:

forward: Basic LDAP URI Peer 2 to Basic LDAP URI Peer 1 Cert

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reverse: Basic LDAP URI Peer 1 to Basic LDAP URI Peer 2 Cert

5.2.4.5 Basic LDAP URI Peer 3 to Peer 2 Cert forward crossCertificatePair:

forward: Basic LDAP URI Peer 3 to Basic LDAP URI Peer 2 Cert

reverse: absent

5.2.4.6 Basic LDAP URI Peer 3 to Peer 2 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Peer 3 to Basic LDAP URI Peer 2 Cert

5.2.4.7 Basic LDAP URI Peer 4 to Peer 2 Cert forward crossCertificatePair:

forward: Basic LDAP URI Peer 4 to Basic LDAP URI Peer 2 Cert

reverse: absent

5.2.4.8 Basic LDAP URI Peer 4 to Peer 2 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Peer 4 to Basic LDAP URI Peer 2 Cert

5.2.4.9 Basic LDAP URI Peer 2 to Peer 2 SubCA Cert forward crossCertificatePair:

forward: Basic LDAP URI Peer 2 to Basic LDAP URI Peer 2 SubCA Cert

reverse: absent

5.2.4.10 Basic LDAP URI Peer 2 to Peer 2 SubCA Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Peer 2 to Basic LDAP URI Peer 2 SubCA Cert

5.2.4.11 Basic URI Trust Anchor and Basic LDAP URI Peer 5 crossCertificatePair 1:

forward: Basic URI Trust Anchor to Basic LDAP URI Peer 5 Cert reverse: Basic LDAP URI Peer 5 to Basic URI Trust Anchor Cert

5.2.4.12 Basic URI Trust Anchor and Basic LDAP URI Peer 5 crossCertificatePair 2:

forward: Basic LDAP URI Peer 5 to Basic URI Trust Anchor Cert reverse: Basic URI Trust Anchor to Basic LDAP URI Peer 5 Cert

5.2.4.13 Basic LDAP URI Peer 6 to Peer 5 Cert forward crossCertificatePair:

forward: Basic LDAP URI Peer 6 to Basic LDAP URI Peer 5 Cert

reverse: absent

5.2.4.14 Basic LDAP URI Peer 6 to Peer 5 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI Peer 6 to Basic LDAP URI Peer 5 Cert

5.2.4.15 Basic LDAP URI Peer 7 to Peer 5 Cert forward crossCertificatePair:

forward: Basic LDAP URI Peer 7 to Basic LDAP URI Peer 5 Cert

reverse: absent

5.2.4.16 Basic LDAP URI Peer 7 to Peer 5 Cert reverse crossCertificatePair:

forward: absent

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reverse: Basic LDAP URI Peer 7 to Basic LDAP URI Peer 5 Cert

5.2.4.17 Basic LDAP URI Peer 5 and Basic LDAP URI Peer 8 crossCertificatePair 1:

forward: Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert reverse: Basic LDAP URI Peer 8 to Basic LDAP URI Peer 5 Cert

5.2.4.18 Basic LDAP URI Peer 5 and Basic LDAP URI Peer 8 crossCertificatePair 2:

forward: Basic LDAP URI Peer 8 to Basic LDAP URI Peer 5 Cert reverse: Basic LDAP URI Peer 5 to Basic LDAP URI Peer 8 Cert

5.2.4.19 Basic LDAP URI Peer 8 and Basic LDAP URI Peer 9 crossCertificatePair 1:

forward: Basic LDAP URI Peer 8 to Basic LDAP URI Peer 9 Cert reverse: Basic LDAP URI Peer 9 to Basic LDAP URI Peer 8 Cert

5.2.4.20 Basic LDAP URI Peer 8 and Basic LDAP URI Peer 9 crossCertificatePair 2:

forward: Basic LDAP URI Peer 9 to Basic LDAP URI Peer 8 Cert reverse: Basic LDAP URI Peer 8 to Basic LDAP URI Peer 9 Cert

5.2.4.21 Basic URI Trust Anchor and LDAP Bridge crossCertificatePair 1:

forward: Basic URI Trust Anchor to Bridge LDAP URI Cert reverse: Basic LDAP URI Bridge to Trust Anchor Cert

5.2.4.22 Basic URI Trust Anchor and LDAP Bridge crossCertificatePair 2:

forward: Basic LDAP URI Bridge to Trust Anchor Cert reverse: Basic URI Trust Anchor to Bridge LDAP URI Cert

5.2.4.23 Basic URI Trust Anchor and LDAP Bridge crossCertificatePair 3:

forward: Basic URI Trust Anchor to Bridge LDAP URI Cert2 reverse: Basic LDAP URI Bridge to Trust Anchor Cert

5.2.4.24 Basic URI Trust Anchor and LDAP Bridge crossCertificatePair 4:

forward: Basic LDAP URI Bridge to Trust Anchor Cert reverse: Basic URI Trust Anchor to Bridge LDAP URI Cert2

5.2.4.25 Basic LDAP URI Bridge and OU1 CA crossCertificatePair 1:

forward: Basic LDAP URI Bridge to OU1 CA Cert

reverse: Basic LDAP URI OU1 CA to Bridge LDAP URI Cert

5.2.4.26 Basic LDAP URI Bridge and OU1 CA crossCertificatePair 2:

forward: Basic LDAP URI OU1 CA to Bridge LDAP URI Cert

reverse: Basic LDAP URI Bridge to OU1 CA Cert

5.2.4.27 Basic LDAP URI Bridge and Org2 CA crossCertificatePair 1:

forward: Basic LDAP URI Bridge to Org2 CA Cert

reverse: Basic LDAP URI Org2 CA to Bridge LDAP URI Cert

5.2.4.28 Basic LDAP URI Bridge and Org2 CA crossCertificatePair 2:

forward: Basic LDAP URI Org2 CA to Bridge LDAP URI Cert

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reverse: Basic LDAP URI Bridge to Org2 CA Cert

5.2.4.29 Basic LDAP URI Bridge and OU3 CA crossCertificatePair 1:

forward: Basic LDAP URI Bridge to OU3 CA Cert

reverse: Basic LDAP URI OU3 CA to Bridge LDAP URI Cert

5.2.4.30 Basic LDAP URI Bridge and OU3 CA crossCertificatePair 2:

forward: Basic LDAP URI OU3 CA to Bridge LDAP URI Cert

reverse: Basic LDAP URI Bridge to OU3 CA Cert

5.2.4.31 Basic LDAP URI OU3 to OU3 SubCA1 Cert forward crossCertificatePair:

forward: Basic LDAP URI OU3 CA to OU3 SubCA1 Cert

reverse: absent

5.2.4.32 Basic LDAP URI OU3 to OU3 SubCA1 Cert reverse crossCertificatePair:

forward: absent

reverse: Basic LDAP URI OU3 CA to OU3 SubCA1 Cert

5.2.4.33 Basic LDAP URI OU3 and OU3 PeerCA1 crossCertificatePair 1:

forward: Basic LDAP URI OU3 CA to OU3 PeerCA1 Cert reverse: Basic LDAP URI OU3 PeerCA1 to OU3 CA Cert

5.2.4.34 Basic LDAP URI OU3 and OU3 PeerCA1 crossCertificatePair 2:

forward: Basic LDAP URI OU3 PeerCA1 to OU3 CA Cert reverse: Basic LDAP URI OU3 CA to OU3 PeerCA1 Cert

5.2.5 Basic Combined Cross Certificate Pairs

5.2.5.1 Basic Combined OU4 to OU4 subCA forward crossCertificatePair:

forward: Basic Combined OU4 to OU4 subCA Cert

reverse: absent

5.3 S/MIME Messages

5.3.1 Base Signed Message

| Syntax Field or Type Name | Value | Comments |
|---------------------------|---------------------------|---|
| RFC822message | | |
| MIME-message-headers | | |
| version | 1.0 | Indicates message body formatted according to MIME v1.0 |
| fields | | RFC 822 header fields |
| dates | | |
| orig-date | | |
| date-time | | Current time |
| day-of-week | {Automatically generated} | i.e., "Thu" |
| date | {Automatically generated} | d mmm yyyy (ex: "6 Sep 2001") |
| time | {Automatically generated} | hh:mm:ss zzz (ex: "15:42:00 -0500") |
| source | | |
| trace | {Absent} | |

| originator | | |
|------------------------|--|--|
| authentic | | |
| from | | |
| mailbox | | |
| addr-spec | sender@testcertificates.gov | |
| destinations | sender (cytesteer time ates.go v | One or more |
| destination | | One of more |
| toAddresses | | One for each recipient |
| address | | One for each recipient |
| | | |
| mailbox | (41 :0 1) | |
| addr-spec | {Always specified} | |
| optionalFields | | |
| subject | {Always specified} | Indicates test case |
| entity-headers | | MIME entity header fields |
| content | application/pkcs7-mime | |
| encoding | base64 | |
| description | attachment | |
| body | | Base64 encoding of ContentInfo |
| ContentInfo | | 8 |
| contentType | 1.2.840.113549.1.7.2 | id-signedData |
| content | 1.2.0 10.1133 17.1.7.2 | ia digitodizutu |
| signedData | | |
| signeuData | | Integer value of "1" indicates |
| version | 1 | CMSVersion 1 |
| digestAlgorithms | | CIVIS V CISION 1 |
| AlgorithmIdentifier | | |
| algorithm | 1.3.14.3.2.26 | SHA-1 |
| parameters | {Absent} | SIII I |
| encapContentInfo | Absent | |
| eContentType | 1.2.840.113549.1.7.1 | id-data |
| eContent | Content-Type: text/plain; charset=iso-8859-1 Content-Transfer-Encoding: 7bit This is a sample signed message. | Located in first MIME body part |
| certificates | message. | Signer's certificate |
| | | Signer 8 certificate |
| crls | | |
| signerInfos | | |
| SignerInfo | | 7 |
| version | 1 | Integer value of "1" indicates CMSVersion 1 |
| sid | | CIVID VCIDIOII 1 |
| issuerAndSerialNumber | | |
| | {Automatically generated} | issuer DN of signer's cert |
| issuer serialNumber | {Automatically generated} | serial number of signer's cert |
| | {Automatically generated} | serial number of signer's cert |
| digestAlgorithm | | |
| AlgorithmIdentifier | 12142226 | CITA 1 |
| algorithm | 1.3.14.3.2.26 | SHA-1 |
| parameters | {Absent} | |
| signedAttrs | {Absent} | |
| signatureAlgorithm | | |
| AlgorithmIdentifier | | |
| algorithm | 1.2.840.113549.1.1.1 | RSA Encryption |
| parameters | NULL | , p |
| signature | 1.022 | |
| OCTET STRING | {Automatically generated} | Calculated signature value |
| unsignedAttrs | {Automaticarry generated} {Absent} | Calculated Signature value |
| unsigneuAtus | (Ausein) | |

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5.3.2 Test Signed Messages

5.3.2.1 Signed Rudimentary Directory Path Discovery Test1:

Base: Base Signed Message to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test1" signer: Rudimentary Directory Path Discovery Test1 EE

5.3.2.2 Signed Rudimentary Directory Path Discovery Test2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test2" signer: Rudimentary Directory Path Discovery Test2 EE

5.3.2.3 Signed Rudimentary Directory Path Discovery Test3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test3" signer: Rudimentary Directory Path Discovery Test3 EE

5.3.2.4 Signed Rudimentary Directory Path Discovery Test4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test4" signer: Rudimentary Directory Path Discovery Test4 EE

5.3.2.5 Signed Rudimentary Directory Path Discovery Test5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test5" signer: Rudimentary Directory Path Discovery Test5 EE

5.3.2.6 Signed Rudimentary Directory Path Discovery Test6:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test6" signer: Rudimentary Directory Path Discovery Test6 EE

5.3.2.7 Signed Rudimentary Directory Path Discovery Test7:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test7" signer: Rudimentary Directory Path Discovery Test7 EE

5.3.2.8 Signed Rudimentary Directory Path Discovery Test8:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test8" signer: Rudimentary Directory Path Discovery Test8 EE

5.3.2.9 Signed Rudimentary Directory Path Discovery Test9:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test9" signer: Rudimentary Directory Path Discovery Test9 EE

5.3.2.10 Signed Rudimentary Directory Path Discovery Test10:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test10" signer: Rudimentary Directory Path Discovery Test10 EE

5.3.2.11 Signed Rudimentary Directory Path Discovery Test11:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test11" signer: Rudimentary Directory Path Discovery Test11 EE

5.3.2.12 Signed Rudimentary Directory Path Discovery Test12:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test12" signer: Rudimentary Directory Path Discovery Test12 EE

5.3.2.13 Signed Rudimentary Directory Path Discovery Test13:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary Directory Path Discovery Test13" signer: Rudimentary Directory Path Discovery Test13 EE

5.3.2.14 Signed Rudimentary LDAP Path Discovery Test1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test1" signer: Rudimentary LDAP URI Path Discovery Test1 EE

5.3.2.15 Signed Rudimentary HTTP Path Discovery Test2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test2" signer: Rudimentary HTTP URI Path Discovery Test2 EE

5.3.2.16 Signed Rudimentary LDAP Path Discovery Test3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test3" signer: Rudimentary LDAP URI Path Discovery Test3 EE

5.3.2.17 Signed Rudimentary HTTP Path Discovery Test4:

Base: Base Signed Message

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to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test4" signer: Rudimentary HTTP URI Path Discovery Test4 EE

5.3.2.18 Signed Rudimentary LDAP Path Discovery Test5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test5" signer: Rudimentary LDAP URI Path Discovery Test5 EE

5.3.2.19 Signed Rudimentary LDAP Path Discovery Test6:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test6" signer: Rudimentary LDAP URI Path Discovery Test6 EE

5.3.2.20 Signed Rudimentary HTTP Path Discovery Test7:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test7" signer: Rudimentary HTTP URI Path Discovery Test7 EE

5.3.2.21 Signed Rudimentary HTTP Path Discovery Test8:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test8" signer: Rudimentary HTTP URI Path Discovery Test8 EE

5.3.2.22 Signed Rudimentary LDAP Path Discovery Test9:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test9" signer: Rudimentary LDAP URI Path Discovery Test9 EE

5.3.2.23 Signed Rudimentary LDAP Path Discovery Test10:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test10" signer: Rudimentary LDAP URI Path Discovery Test10 EE

5.3.2.24 Signed Rudimentary LDAP Path Discovery Test11:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test11" signer: Rudimentary LDAP URI Path Discovery Test11 EE

5.3.2.25 Signed Rudimentary LDAP Path Discovery Test12:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test12"

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signer: Rudimentary LDAP URI Path Discovery Test12 EE

5.3.2.26 Signed Rudimentary HTTP Path Discovery Test13:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test13" signer: Rudimentary HTTP URI Path Discovery Test13 EE

5.3.2.27 Signed Rudimentary HTTP Path Discovery Test14:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test14" signer: Rudimentary HTTP URI Path Discovery Test14 EE

5.3.2.28 Signed Rudimentary HTTP Path Discovery Test15:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test15" signer: Rudimentary HTTP URI Path Discovery Test15 EE

5.3.2.29 Signed Rudimentary HTTP Path Discovery Test16:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary HTTP Path Discovery Test16" signer: Rudimentary HTTP URI Path Discovery Test16 EE

5.3.2.30 Signed Rudimentary LDAP Path Discovery Test17:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test17" signer: Rudimentary LDAP URI Path Discovery Test17 EE

5.3.2.31 Signed Rudimentary LDAP Path Discovery Test18:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test18" signer: Rudimentary LDAP URI Path Discovery Test18 EE

5.3.2.32 Signed Rudimentary LDAP Path Discovery Test19:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Rudimentary LDAP Path Discovery Test19" signer: Rudimentary LDAP URI Path Discovery Test19 EE

5.3.2.33 Signed Basic Directory Mesh Path Discovery Test1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Mesh Path Discovery Test1" signer: Basic Directory Path Discovery Test1 EE

5.3.2.34 Signed Basic Directory Mesh Path Discovery Test2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Mesh Path Discovery Test2" signer: Basic Directory Path Discovery Test2 EE

5.3.2.35 Signed Basic Directory Path Discovery OU1 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery OU1 EE1" signer: Basic Directory Path Discovery OU1 EE1

5.3.2.36 Signed Basic Directory Path Discovery OU1 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery OU1 EE2" signer: Basic Directory Path Discovery OU1 EE2

5.3.2.37 Signed Basic Directory Path Discovery OU1 EE3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery OU1 EE3" signer: Basic Directory Path Discovery OU1 EE3

5.3.2.38 Signed Basic Directory Path Discovery OU1 EE4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery OU1 EE4" signer: Basic Directory Path Discovery OU1 EE4

5.3.2.39 Signed Basic Directory Path Discovery OU1 EE5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery OU1 EE5" signer: Basic Directory Path Discovery OU1 EE5

5.3.2.40 Signed Basic Directory Path Discovery Org2 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery Org2 EE1" signer: Basic Directory Path Discovery Org2 EE1

5.3.2.41 Signed Basic Directory Path Discovery Org2 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery Org2 EE2" signer: Basic Directory Path Discovery Org2 EE2

5.3.2.42 Signed Basic Directory Path Discovery Org2 EE3:

Base: Base Signed Message

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to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery Org2 EE3" signer: Basic Directory Path Discovery Org2 EE3

5.3.2.43 Signed Basic Directory Path Discovery Org2 EE4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery Org2 EE4" signer: Basic Directory Path Discovery Org2 EE4

5.3.2.44 Signed Basic Directory Path Discovery Org2 EE5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery Org2 EE5" signer: Basic Directory Path Discovery Org2 EE5

5.3.2.45 Signed Basic Directory Path Discovery OU3 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery OU3 EE1" signer: Basic Directory Path Discovery OU3 EE1

5.3.2.46 Signed Basic Directory Path Discovery OU3 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Directory Path Discovery OU3 EE2" signer: Basic Directory Path Discovery OU3 EE2

5.3.2.47 Signed Basic LDAP Mesh Path Discovery Test1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP Mesh Path Discovery Test1" signer: Basic LDAP URI Path Discovery Test1 EE

5.3.2.48 Signed Basic HTTP Mesh Path Discovery Test2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP Mesh Path Discovery Test2" signer: Basic HTTP URI Path Discovery Test2 EE

5.3.2.49 Signed Basic LDAP Mesh Path Discovery Test3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP Mesh Path Discovery Test3" signer: Basic LDAP URI Path Discovery Test3 EE

5.3.2.50 Signed Basic HTTP Mesh Path Discovery Test4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP Mesh Path Discovery Test4"

signer: Basic HTTP URI Path Discovery Test4 EE

5.3.2.51 Signed Basic LDAP URI Path Discovery OU1 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery OU1 EE1" signer: Basic LDAP URI Path Discovery OU1 EE1

5.3.2.52 Signed Basic LDAP URI Path Discovery OU1 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery OU1 EE2" signer: Basic LDAP URI Path Discovery OU1 EE2

5.3.2.53 Signed Basic LDAP URI Path Discovery OU1 EE3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery OU1 EE3" signer: Basic LDAP URI Path Discovery OU1 EE3

5.3.2.54 Signed Basic LDAP URI Path Discovery OU1 EE4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery OU1 EE4" signer: Basic LDAP URI Path Discovery OU1 EE4

5.3.2.55 Signed Basic LDAP URI Path Discovery OU1 EE5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery OU1 EE5" signer: Basic LDAP URI Path Discovery OU1 EE5

5.3.2.56 Signed Basic LDAP URI Path Discovery Org2 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery Org2 EE1" signer: Basic LDAP URI Path Discovery Org2 EE1

5.3.2.57 Signed Basic LDAP URI Path Discovery Org2 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery Org2 EE2" signer: Basic LDAP URI Path Discovery Org2 EE2

5.3.2.58 Signed Basic LDAP URI Path Discovery Org2 EE3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery Org2 EE3" signer: Basic LDAP URI Path Discovery Org2 EE3

5.3.2.59 Signed Basic LDAP URI Path Discovery Org2 EE4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery Org2 EE4" signer: Basic LDAP URI Path Discovery Org2 EE4

5.3.2.60 Signed Basic LDAP URI Path Discovery Org2 EE5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery Org2 EE5" signer: Basic LDAP URI Path Discovery Org2 EE5

5.3.2.61 Signed Basic LDAP URI Path Discovery OU3 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery OU3 EE1" signer: Basic LDAP URI Path Discovery OU3 EE1

5.3.2.62 Signed Basic LDAP URI Path Discovery OU3 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic LDAP URI Path Discovery OU3 EE2" signer: Basic LDAP URI Path Discovery OU3 EE2

5.3.2.63 Signed Basic HTTP URI Path Discovery OU1 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery OU1 EE1" signer: Basic HTTP URI Path Discovery OU1 EE1

5.3.2.64 Signed Basic HTTP URI Path Discovery OU1 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery OU1 EE2" signer: Basic HTTP URI Path Discovery OU1 EE2

5.3.2.65 Signed Basic HTTP URI Path Discovery OU1 EE3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery OU1 EE3" signer: Basic HTTP URI Path Discovery OU1 EE3

5.3.2.66 Signed Basic HTTP URI Path Discovery OU1 EE4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery OU1 EE4" signer: Basic HTTP URI Path Discovery OU1 EE4

5.3.2.67 Signed Basic HTTP URI Path Discovery OU1 EE5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery OU1 EE5" signer: Basic HTTP URI Path Discovery OU1 EE5

5.3.2.68 Signed Basic HTTP URI Path Discovery Org2 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery Org2 EE1" signer: Basic HTTP URI Path Discovery Org2 EE1

5.3.2.69 Signed Basic HTTP URI Path Discovery Org2 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery Org2 EE2" signer: Basic HTTP URI Path Discovery Org2 EE2

5.3.2.70 Signed Basic HTTP URI Path Discovery Org2 EE3:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery Org2 EE3" signer: Basic HTTP URI Path Discovery Org2 EE3

5.3.2.71 Signed Basic HTTP URI Path Discovery Org2 EE4:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery Org2 EE4" signer: Basic HTTP URI Path Discovery Org2 EE4

5.3.2.72 Signed Basic HTTP URI Path Discovery Org2 EE5:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery Org2 EE5" signer: Basic HTTP URI Path Discovery Org2 EE5

5.3.2.73 Signed Basic HTTP URI Path Discovery OU3 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery OU3 EE1" signer: Basic HTTP URI Path Discovery OU3 EE1

5.3.2.74 Signed Basic HTTP URI Path Discovery OU3 EE2:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic HTTP URI Path Discovery OU3 EE2" signer: Basic HTTP URI Path Discovery OU3 EE2

5.3.2.75 Signed Basic Combined Path Discovery OU4 EE1:

Base: Base Signed Message

to: "recipient@testcertificates.gov"

subject: "Basic Combined Path Discovery OU4 EE1"

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signer: Basic Combined Path Discovery OU4 EE1