Bugzilla ID: 581901

Bugzilla Summary: Add HARICA root certificate

CAs wishing to have their certificates included in Mozilla products must comply with the requirements of the Mozilla CA certificate policy (http://www.mozilla.org/projects/security/certs/policy/) and must supply the information necessary to determine whether or not the policy's requirements have been satisfied, as per http://wiki.mozilla.org/CA:Information_checklist.

General Information	Data
CA Name	HARICA Hellenic Academic and Research Institutions Certification Authority / Greek Universities Network
Website URL	http://www.harica.gr/
Organizational type	HARICA is a non profit activity operated by the Greek Universities Network (www.gunet.gr).
Primary market / customer base	The main goal of HARICA is the deployment of an infrastructure for secure communication between the collaborating
	members of the Greek Academic and Research Institutions.
	HARICA's main web site, www.harica.gr, has been operating since 2006. All HARICA certificates have a clear mark
	indicating that "This certificate is subject to Greek laws and their CPS. This Certificate must only be used for academic,
	research or educational purposes". This is also included in the comments and policy fields of each certificate.
CA Contact Information	CA Email Alias: ca-admin@harica.gr
	CA Phone Number: +30-2310998483, +30-2310998438
	Title/Department: AUTH Network Operations Center, Harica Administration

CA's are also encouraged to review the Recommended Practices at <u>https://wiki.mozilla.org/CA:Recommended_Practices</u>.

For Each Root CA whose certificate is to be included in Mozilla (or whose metadata is to be modified)

Info Needed	Data
Certificate Name	Hellenic Academic and Research Institutions RootCA 2010
Cert summary / comments	This root is the SHA1 version of the HARICA root. HARICA currently has an MD5 root that has several internally operated, and one externally operated, subordinate CAs, where each subCA is used for a different academic or research institution. Eventually all of the hierarchy under the MD5 root will be transitioned to this SHA1 root.
Root Cert URL	New Root: <u>http://www.harica.gr/certs/HaricaRootCA2010.der</u> Old (MD5 Root): <u>http://www.harica.gr/certs/HaricaRootCA2006.der</u>
SHA-1 fingerprint	EF:FE:69:56:A4:00:13:09:52:79:6F:14:E7:08:59:24:0E:11:1F:48
Valid from	2010-09-19
Valid to	2030-09-14
Cert Version	3
Modulus length / key length	2048
Test Website	https://www2.harica.gr
CRL URL	<u>http://crlv1.harica.gr/HaricaRootCA2010/crlv1.der.crl</u> <u>http://crlv1.harica.gr/HaricaAdministrationCAR1/crlv1.der.crl</u> CPS section 4.9.7: NextUpdate for end-entity certs is 5 days.
OCSP Responder URL	http://ocsp.harica.gr
CA Hierarchy	CA Hierarchy Diagram: <u>https://bugzilla.mozilla.org/attachment.cgi?id=460450</u> The new root will eventually have the same hierarchy and sub-CAs as the old MD5 root, as described here. As shown in the diagram, the MD5 root has 13 subordinate CAs operated internally by HARICA Administration. Each of these subCAs is used for a different Academic or Research Institution and issue both user and server certificates.

Externally operated subCAs	Comment #4: According to https://wiki.mozilla.org/CA:SubordinateCA checklist, here is the requested information:
Externally operated subCAs	1. Company Name: Aristotle University of Thessaloniki Network Operations Center
	2. Corporate URL: http://noc.auth.gr
	3. Certificate download URL: http://www.pki.auth.gr/certs/AuthCentralCAR2.pem
	4. General CA hierarchy:
	* AuthCentralCAR2 (only issues sub-CAs)
	* AuthNocCAR3 (issues user and server certificates for the Network Operations Center of the University)
	* AuthNocCARS (issues user and server certificates for the network Operations Center of the University) * AuthUsersCAR3 (issues user certificates for the rest of the University)
	* AuthServersCAR3 (issues server certificates for the rest of the University)
	5. CP/CPS Link: http://www.pki.auth.gr/documents/CPS.php
	6. Sections in CP/CPS demonstrating the measures to verify:
	* Ownership of domain name: 3.2.3.2 and 3.2.5
	* Ownership of e-mail: 3.2.3.1 and 3.2.5
	7. For all certificates chaining up to this Sub-CA, both the organization and the ownership/control of the domain are verified.
	8. No potentially problematic practices were found.
	9. This CA is operated by the same administration team as the HARICA Root CA.
	10. Section 4.9.7 states that if a secret key is revealed to a third party then a new CRL is issued immediately. Regular
	updates will take place every 5 days (will be changed at the next CP/CPS update).
	11. An OCSP responder operates and can be tested by connecting to the site https://ocsp.pki.auth.gr.
Cross-Signing	None.
Requested Trust Bits	Websites (SSL/TLS)
1	Email (S/MIME)
	Code Signing
SSL Validation Type	OV
EV policy OID(s)	Not requesting EV
CP/CPS	Certificate Practices: http://www.harica.gr/procedures.php
	Certification Policy and Certification Practices Statement (English): http://www.harica.gr/documents/CPS-EN.pdf
AUDIT	Audit Type: ETSI TS 101 456
	Auditor: Deventum
	Auditor Website: http://deventum.com
	Audit Report: http://www.trust-it.gr/userfiles/Harica.2011.03.18.Rev1.2.ENG.pdf (2011.03.18)
	Note that this audit report is posted on the Trust-IT website.
Organization Identity	Note that this audit report is posted on the Trust-IT website. See CPS sections 3.2.2, 3.2.3, and 3.2.5.
Organization Identity Verification	See CPS sections 3.2.2, 3.2.3, and 3.2.5.
Verification	See CPS sections 3.2.2, 3.2.3, and 3.2.5. Also, see the audit report.
Verification Domain Name	See CPS sections 3.2.2, 3.2.3, and 3.2.5. Also, see the audit report. See CPS section 3.2.3.2: "HARICA central RA uses the following methods for device ownership verification.
Verification	See CPS sections 3.2.2, 3.2.3, and 3.2.5. Also, see the audit report. See CPS section 3.2.3.2: "HARICA central RA uses the following methods for device ownership verification. First of all, issuance of an SSL/TLS certificate is only allowed for domains belonging to each institution.
Verification Domain Name	See CPS sections 3.2.2, 3.2.3, and 3.2.5. Also, see the audit report. See CPS section 3.2.3.2: "HARICA central RA uses the following methods for device ownership verification. First of all, issuance of an SSL/TLS certificate is only allowed for domains belonging to each institution. Secondly, in order for a user to apply for an SSL/TLS device certificate he must own a user certificate which
Verification Domain Name	See CPS sections 3.2.2, 3.2.3, and 3.2.5. Also, see the audit report. See CPS section 3.2.3.2: "HARICA central RA uses the following methods for device ownership verification. First of all, issuance of an SSL/TLS certificate is only allowed for domains belonging to each institution. Secondly, in order for a user to apply for an SSL/TLS device certificate he must own a user certificate which proves his identity. Then a verification email is sent to an institution's network operations center designated
Verification Domain Name Ownership / Control	See CPS sections 3.2.2, 3.2.3, and 3.2.5. Also, see the audit report. See CPS section 3.2.3.2: "HARICA central RA uses the following methods for device ownership verification. First of all, issuance of an SSL/TLS certificate is only allowed for domains belonging to each institution. Secondly, in order for a user to apply for an SSL/TLS device certificate he must own a user certificate which proves his identity. Then a verification email is sent to an institution's network operations center designated administrator who verifies the fqdn of the certificate request, against the institution's database of users / servers."
Verification Domain Name	See CPS sections 3.2.2, 3.2.3, and 3.2.5. Also, see the audit report. See CPS section 3.2.3.2: "HARICA central RA uses the following methods for device ownership verification. First of all, issuance of an SSL/TLS certificate is only allowed for domains belonging to each institution. Secondly, in order for a user to apply for an SSL/TLS device certificate he must own a user certificate which proves his identity. Then a verification email is sent to an institution's network operations center designated

	 From the audit report: "HARICA central RA uses two methods for e-mail ownership and control verification: 1) The first method uses simple e-mail verification. The user enters the e-mail address at the initial certificate request form and a verification e-mail is sent to the user with a link to a unique web page. After following this link, an e-mail is sent to the institution's network operation center mail administrator that requires an approval based on the full name entered by the user and the user's email. This approval requires the identification of the user with his/her physical presence and an acceptable official document If this procedure took place before (e.g. for the creation of an e-mail account) then there is no reason to be repeated. 2) The second method uses an LDAP server. The user enters the personal e-mail address at the initial certificate request form and the corresponding password. This information is verified against the institution's LDAP server. If the verification is successful, the RA queries the real name of the user and creates the certificate request. In order for a user to be listed in the Institutional Directory server, the institution must have verified the user with his/her physical presence and an acceptable official photo-id document.
Identity of Code	See CPS sections 3.2.2 and 3.2.3.
Signing Subscriber	
Potentially Problematic Practices	 http://wiki.mozilla.org/CA:Problematic_Practices) Long-lived DV certificates SSL certs are OV. End-entity certs have a 2-year maximum validity period. Wildcard DV SSL certificates

OCSP Responses signed by a certificate under a different root
 Comment #5: The OCSP responses are signed by the certificate of the Harica Administration
SubCA, which is in turn signed by the Harica Root CA.
<u>CRL with critical CIDP Extension</u>
 Comment #5: CRLs don't have a critical CIDP extension
<u>Generic names for CAs</u>
• The CN has the full name of the CA.
Lack of Communication With End Users
 Comment #5: Harica Administration uses e-mail and telephone support for end-users. Telephone
support works 8 hours/day, working days. Furthermore, specific institutions, such as the Aristotle
University of Thessaloniki, provide helpdesk visiting facilities for end users and on-site support at
faculty members offices/computers.