



Q-CERT LTD (DBA "QMSCERT")
CONFORMITY ASSESSMENT BODY

Thessaloniki, May 23, 2019

Audit Attestation

for

HELLENIC ACADEMIC & RESEARCH INSTITUTIONS CERTIFICATION AUTHORITY ("HARICA")

To whom it may concern,

QMSCERT is accredited by the official Italian Accreditation System (ACCREDIA) as conforming to ISO/IEC 17065 and ETSI EN 319 403 for the certification of Trust Service Providers against the Regulation (EU) 910/2014 – eIDAS and the supporting ETSI European Norms (Accreditation Certificate: [PRD No.272B](#)).

QMSCERT has been asked by ACADEMIC NETWORK (dba "GUNET"), owner of HARICA, to audit its Certification Authority services against a specific set of applicable requirements. This engagement included a **point in time** audit for Extended Validation policies for Publicly Trusted SSL/TLS and Code Signing Certificates. It also included a **period of time** audit for certification services to be re-certified.

On that basis, after examination of HARICA's documentation and practices, QMSCERT hereby attests that:

We have successfully audited the HARICA Certification Authority services without any critical findings.

This Audit Attestation document is registered under the unique reference number 290617-7-R2-AA. It is valid only in conjunction with the Conformity Assessment Report (CAR) which contains details of the audit and the target certificates. CAR document is appended as Annexes A and B and consists of twelve (12) pages in total (reference number: 290617-7-R2-CAR).

On behalf of QMSCERT

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Conformity Assessment Report - Main Body: Annex A to Audit Attestation: 290617-7-R2-AA

Organization Name: Academic Network ("GUNET")

Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, **Issue No:** 0, **Issue Date:** May 23rd, 2019

Trust Service Provider

Academic Network ("GUNET")

Certification Authority Name:

- Hellenic Academic & Research Institutions Certification Authority ("HARICA")

Seat:

- Network Operation Center, National and Kapodistrian University of Athens, Panepistimioupoli Ilissia, 157 84, Athens, Greece

Operative units:

- IT Center, Biology Building, 1st floor, Aristotle University of Thessaloniki, 541 24, Thessaloniki, Greece
- Disaster Recovery site, Thessaloniki, Greece

Background

HARICA Public Key Infrastructure (PKI) is a Qualified Trust Service Provider, which certifies the identities of network users, servers and provides accurate digital Time-Stamps.

HARICA PKI is a consortium between equal members that are Academic Institutions, Research Institutions and the Greek Research and Technology Network (GRNET) which is the Greek National Research and Educational Network (NREN) and began during the VNOC2 project (funded by GRNET through the Operational Program "Information Society"). HARICA is currently funded by the Greek Academic Network (GUNET). This service is available for entities that request and successfully acquire a digital certificate issued by a Subordinate CA that chains to one of HARICA's publicly trusted Root CA Certificates.

IT Center of Aristotle University of Thessaloniki (AUTH), which is one of the consortium members, has been appointed as HARICA's operator for all activities which relate to the delivery of its Trust Services. A Policy Management Committee (PMC) with members from both GUNET and AUTH IT Center is responsible for the management, whereas the General Assembly of GUNET, on which AUTH is also represented, holds the high oversight of the HARICA TSP activities.

HARICA has been certified for ETSI TS 101 456, ETSI TS 102 042 standards since 2011, and ETSI EN 319 411-1, ETSI EN 319 411-2, ETSI EN 319 421 since 2017. It is included in the National Trusted Services List (TSL) of Greece as a Qualified Trust Service Provider (QTSP) and it is the only Greek Certification Authority which participates in all major Root CA Programs (Apple, Microsoft, Mozilla).

HARICA wishes to be re-certified for the above services according to all applicable requirements and extend the certification scope to include Extended Validation policies for Publicly Trusted SSL/TLS and Code Signing Certificates. For this purpose, HARICA requested from QMSCERT Certification Body to perform an independent audit and issue an Audit Attestation. This Conformity Assessment Report is part of this Audit Attestation.

Assessment Context

Q-CERT Ltd (distinctive title of "QMSCERT"), as the body carrying out the audit, is accredited by the official Italian Accreditation System (ACCREDIA) as conforming to ISO/IEC 17065 and ETSI EN 319 403 for the

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certification of Trust Service Providers against the Regulation (EU) 910/2014 – eIDAS and the supporting ETSI European Norms (Accreditation Certificate: [PRD No.272B](#)).

Q-CERT Ltd is also accredited by the official Hellenic Accreditation System (ESYD) as conforming to ISO/IEC 17065 for product certification in other business sectors (Accreditation Certificate: [No.654-3](#)).

Both ESYD and ACCREDIA are full members and signatories to the multilateral agreement (MLA) of both International Accreditation Forum (IAF) and the European Cooperation for Accreditation (EA).

QMSCERT is committed to providing and maintaining certification services that are discrete, non-discriminatory, ethical, professional, and focused to legal and other implied or expressed requirements for the benefit of all interested and relevant parties.

Specifications Context

The audit included the following trust services:

- creation of certificates for “non-qualified” (EU) electronic signatures (LCP, NCP, NCP+)
- creation of certificates for client authentication (LCP, NCP, NCP+)
- creation of certificates for S/MIME (LCP, NCP, NCP+)
- creation of certificates for web site authentication (DVCP, OVCP, EVCP)
- creation of certificates for code signing (NCP, NCP+, EVCP)
- creation of “non-qualified” (EU) electronic time stamps (BTSP)

Audit included all applicable requirements of the relevant ETSI standards and in particular:

Name	Scope
ETSI EN 319 401 V2.2.1 (2018-04)	General Policy Requirements for Trust Service Providers
ETSI EN 319 411-1 V1.2.2 (2018-04)	Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements
ETSI EN 319 421 v1.1.1 (2016-03)	Policy and Security Requirements for Trust Service Providers issuing Time-Stamps
ETSI EN 319 412-1 V1.1.1 (2016-02)	Certificate Profiles; Part 1: Overview and common data structures
ETSI EN 319 412-2 V2.1.1 (2016-02)	Certificate Profiles; Part 2: Certificate profile for certificates issued to natural persons
ETSI EN 319 412-3 V1.1.1 (2016-02)	Certificate Profiles; Part 3: Certificate profile for certificates issued to legal persons
ETSI EN 319 412-4 V1.1.1 (2016-02)	Certificate Profiles; Part 4: Certificate profile for web site certificates
ETSI TS 119 412 V1.2.1 (2018-05)	Certificate Profiles; Part 1: Overview and common data structures
ETSI EN 319 422 v1.1.1 (2016-03)	Time-stamping protocol and time-stamp token profiles

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and, where applicable, has included all related CA/Browser Forum and CA Security Council Requirements and in particular:

- Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, version 1.6.4 effective on March 16, 2019 (CA/B Forum)
- Guidelines For The Issuance And Management Of Extended Validation Certificates, version 1.6.8, effective on March 9, 2018 (CA/B Forum)
- Guidelines For The Issuance And Management Of Extended Validation Code Signing Certificates, version 1.4, effective on July 5, 2016 (CA/B Forum)
- Network and Certificate System Security Requirements, version 1.2, effective on September 15, 2018 (CA/B Forum)
- Minimum Requirements for the Issuance and Management of Publicly Trusted Code Signing Certificates, version 1.1 effective on September 22, 2016 (CA Security Council).

Audit Procedure

Audit Team has been selected based on proficiency and competency in order to prepare and carry out the audit, report its results and submit its recommendation for Technical Review and Certification Decision, according to the established internal procedures of the Certification Body.

Audit was conducted on-site as a single phase and included:

- Review of documentation updates since previous audit, which verified the conformance of documented statements, policies and procedures against the Specifications Context.
- Management system implementation review, which verified that all audited policies and procedures (documented or not) were properly implemented into the actual operations of the organization in conformance with the Specifications Context
- Product verification, which verified that all audited products (certificates, timestamps) were conformant to the product requirements set in the Specifications Context. In the case of Extended Validation certificates this included examination of test certificates (non-publicly trusted).

Audit took place on sampling basis, under the inherent limitations of the system controls themselves and only in the scope and purpose of the Specifications Context. Its purpose was to verify the conformance of the CA’s trust services against the applicable requirements.

An audit report was documented by the audit team, and its recommendation was submitted for technical review and certification decision, according to the Certification Body’s standard procedures and regulations (TSP Audit Regulation in particular, which has been drafted according to the Accreditation Body’s TSP Regulation).

The conditions to conduct the audit were fully met prior and during the audit.

Audit Target

All audited CA Certificates are listed in Annex A.

The following public documents of the TSP have been the subject matter of the audit:

- [CP/CPS] Certificate Policy/ Certification Practice Statement, version 3.8 dated 2019-03-28
- [PDS] PKI Disclosure Statement, version 1.2, dated 2018-10-08

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- [SA] Subscriber Agreement & Terms of Use, version 1.2 dated 2018-10-08

For EVCP, the examination included records of issuing test non-publicly trusted certificates (“point in time”). For certification services to be re-certified, the examination period included records from **March 31, 2018** to **March 29, 2019** (“period of time”).

Audit Results

Overview

The audit team successfully audited the Trust Services of the Academic Network and submitted its audit report **without critical findings**. During technical review, all audit results and internal reports were reviewed, and the TSP was found to be **compliant** with the provisions of the Specifications Context. **Improvement remarks** have also been submitted by the Certification Body for review by the TSP, in order to assist its continuous efforts for improvement, in line with the PDCA model.

The Audit Attestation and its Annexes (A, B) have been issued by the Certification Body in order to officially confirm this assessment.

Incident Reports

Audit team examined the following public incidents and evaluated the compliance and effectiveness of the TSP’s actions to manage, report and take corrective actions to prevent re-occurrence of the issue.

#	Title / short description	Reference	Status
1	P-384,ecdsa-with-SHA256 Certificates	https://bugzilla.mozilla.org/show_bug.cgi?id=1530971	Completed
2	Insufficient serial number entropy	https://bugzilla.mozilla.org/show_bug.cgi?id=1535509	Completed
3	Wrong characters in NC extension of Technically Constrained Intermediate CA Certificates	https://bugzilla.mozilla.org/show_bug.cgi?id=1535772	Completed

Next Audit

Due to HARICA’s adherence to the CA/Browser Forum Baseline Requirements and participation to Application Software Suppliers’ Root CA Programs, a full audit for in-scope CAs must cover a period up to one year since previous audit, thus next audit is scheduled to take place **before March 30, 2020**.

HARICA should issue at least one EV certificate before March 30, 2020 and notify QMSCERT to perform a full audit for EVCP within ninety (90) days of the first EV certificate issuance.

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Conformity Assessment Report - Root and Sub-CAs List: Annex B to Audit Attestation: 290617-7-R2-AA

Organization Name: Academic Network (“GUNET”)

Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, **Issue No:** 0, **Issue Date:** May 23rd, 2019

LIST OF AUDITED CERTIFICATES – ROOT CAs

	Subject Distinguished Name	Certificate SHA256 Fingerprint	Notes on Technical Constraints
1	C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions RootCA 2011	BC:10:4F:15:A4:8B:E7:09:DC:A5:42: A7:E1:D4:B9:DF:6F:05:45:27:E8:02: EA:A9:2D:59:54:44:25:8A:FE:71	nameConstraints Permitted: DNS:gr DNS:eu DNS:edu DNS:org DNS:net email:.gr email:.eu email:.edu email:.org
2	C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions RootCA 2015	A0:40:92:9A:02:CE:53:B4:AC:F4:F2: FF:C6:98:1C:E4:49:6F:75:5E:6D:45: FE:0B:2A:69:2B:CD:52:52:3F:36	
3	C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions ECC RootCA 2015	44:B5:45:AA:8A:25:E6:5A:73:CA:15: DC:27:FC:36:D2:4C:1C:B9:95:3A:06: 65:39:B1:15:82:DC:48:7B:48:33	

LIST OF AUDITED CERTIFICATES – SUBORDINATE CAs

	Subject Distinguished Name	Certificate SHA-256 Fingerprint	Technically Constrained ¹
1	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Technical University of Crete CA R1	BD:BC:FE:11:93:FB:B9:23:AB:EE:14: CA:66:22:8F:EC:89:0B:18:E0:21:02: C0:D9:A9:8E:F2:E8:62:6E:CA:7B	TRUE Name Constraints
2	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=National and Kapodistrian University of Athens CA R2	58:AA:92:96:1C:1E:03:50:54:AD:DA: 64:E8:83:BF:AE:1B:21:43:9C:BF:7A: D6:1E:33:F6:7D:C5:6E:29:5F:6A	TRUE Name Constraints
3	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Greek Academic Network CA R2	8C:FE:13:15:B1:67:FC:BF:C8:B1:A9: EB:54:E9:7F:13:28:2E:E2:50:7E:0D: 23:B0:14:8D:05:3A:E8:73:6F:E3	TRUE Name Constraints
4	/C=GR/O=Aristotle University of Thessaloniki/CN=Aristotle University of Thessaloniki Central CA R5	E8:35:66:E6:F5:99:48:16:78:C0:D9: 98:92:16:9C:87:F7:79:14:C6:21:FD: F1:E6:59:C7:08:57:72:D4:A4:87	TRUE Name Constraints
5	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Technological Educational Institution of Thessaloniki CA R3	AD:EB:0A:C1:B3:7F:5D:A4:4A:68:48: E1:4B:73:59:70:F9:20:FF:9C:76:25: DA:8A:A0:99:A8:9E:A6:D7:7C:72	TRUE Name Constraints
6	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Athens University of Economics and Business CA R2	45:2E:84:55:24:10:D4:3D:E5:88:49: 9E:33:BB:5D:28:D5:E7:9B:87:17:06: 49:6A:3F:42:42:E8:54:B9:0A:5B	TRUE Name Constraints
7	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=University of Western Macedonia CA R3	08:A2:77:3F:90:8B:89:E3:5F:83:DC: 27:0A:FB:8B:C6:5E:8D:19:2F:0D:D2: 4B:52:11:61:71:68:D6:0D:D3:AB	TRUE Name Constraints
8	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=University of the Peloponnese CA R2	C9:73:BE:AC:A6:54:49:45:1E:5C:41: 31:57:0D:05:E7:2F:34:D2:AD:EB:D9: 4D:B2:E5:1E:9A:54:4E:1E:01:01	TRUE Name Constraints
9	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Technological Educational Institution of Thessaly CA R2	BF:8A:BE:92:7D:18:EB:66:EF:9F:B5: 25:ED:20:EE:09:1E:B7:82:A4:8F:DA: 6F:4C:F2:32:D0:66:8F:CD:5C:C6	TRUE Name Constraints
10	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HEAL-LINK Hellenic Academic Libraries Link CA R2	FC:D7:33:CF:24:3A:A3:22:F1:89:0A: 19:B9:22:F6:FA:AD:CF:33:C4:49:85: 37:2F:1F:D4:03:60:E5:DB:45:40	TRUE Name Constraints

¹ When TRUE, the subCA has additional technical restrictions to limit the scope of Certificate issuance (as per BR §7.1.5)

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	Subject Distinguished Name	Certificate SHA-256 Fingerprint	Technically Constrained ¹
11	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Greek School Network CA R2	A0:46:69:7F:B8:59:F0:C2:6B:B1:36:0C:0D:E6:E4:A9:14:B3:BA:E8:C0:63:1A:56:EC:68:89:23:F9:54:1E:EA	TRUE Name Constraints
12	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=University of Ioannina CA R2	3A:5F:4E:F7:58:DA:D6:2E:43:69:24:64:45:E0:68:E4:DA:DF:DD:48:62:DC:DC:35:2C:BC:A3:F5:8C:B1:02:8A	TRUE Name Constraints
13	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Technological Educational Institution of Central Macedonia CA R3	67:77:46:44:51:C9:9B:85:B1:2A:D3:23:F7:3F:71:36:C8:2B:F4:D1:3E:17:5E:95:08:25:8F:C1:37:5C:73:C7	TRUE Name Constraints
14	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions AdminCA R5	7B:EC:78:27:E0:5D:19:31:DD:82:68:9A:F6:B2:F1:9A:3F:5E:4C:75:6E:FA:16:2B:D7:08:C9:27:9D:1A:9E:AE	TRUE Name Constraints
15	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions ECC AdminCA R1 REVOKED ON: 2019-03-06	0E:73:44:10:84:BB:9B:4E:23:50:AE:9C:22:1D:E2:EF:3C:C3:08:93:3A:68:3A:86:94:EA:1F:2B:07:D3:20:42	TRUE Name Constraints
16	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Technological Educational Institute of Epirus CA R3	FD:29:54:A6:BC:7F:47:DD:44:3F:61:64:D8:45:42:45:BB:0C:FE:9C:F5:5A:CE:37:DB:B3:5B:8E:48:95:A7:D9	TRUE Name Constraints
17	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=University of Macedonia CA R1	17:B4:E0:AD:04:82:A3:D0:27:F5:8B:DF:C8:A9:BD:55:F7:5C:AB:C8:DF:05:9A:40:56:A1:6C:C8:DE:E5:33:EF	TRUE Name Constraints
18	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=University of Patras CA R1	1B:A4:40:F7:EB:04:8A:40:2A:87:09:1C:49:40:74:04:62:54:9A:2A:F3:96:2F:8B:C7:18:4A:D0:B0:4B:83:1D	TRUE Name Constraints
19	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Democritus University of Thrace CA R1	F7:1D:A3:28:23:1C:30:D7:E3:C0:59:C6:26:14:23:D1:0C:4F:F2:C8:EB:92:EB:90:93:A5:D9:AF:71:60:AB:55	TRUE Name Constraints
20	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=University of Piraeus CA R1	3A:BC:E9:53:01:9D:F2:58:1E:DA:CA:B5:8B:E8:E1:43:FE:69:0A:7F:93:C2:8C:37:3C:20:76:27:F8:18:26:4E	TRUE Name Constraints
21	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=CEDEFOP CA R1	06:19:90:5C:92:CA:EC:89:78:8D:B5:57:AB:17:7B:0A:4C:D5:05:31:E3:ED:57:F2:73:70:B7:EC:8D:AC:1B:5A	TRUE Name Constraints
22	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Technological Educational Institute of Western Greece CA R1	0B:89:63:3F:12:2F:75:82:19:50:AE:27:E0:BA:DD:40:D4:9B:B5:0F:0C:B1:B7:5E:E4:F4:66:2A:CE:4C:B3:D8	TRUE Name Constraints
23	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Piraeus University of Applied Sciences CA R1	BA:8E:D1:90:E9:32:5A:ED:43:82:C6:84:46:31:02:50:1F:83:1B:96:F6:3E:88:CA:35:F2:FE:1B:BC:8C:22:C0	TRUE Name Constraints
24	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Harokopio University CA R1	26:F7:AD:B7:21:CC:2D:3E:26:DF:06:3A:6F:E2:87:39:89:4B:18:47:06:0C:35:1D:C6:F5:31:1C:57:DF:0B:5F	TRUE Name Constraints
25	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=University of Crete CA R3	FC:88:89:A4:11:D1:91:0B:7A:6D:E1:59:FB:32:8F:84:DF:FD:27:56:A3:9A:78:E9:1C:B9:BB:90:C6:FE:A6:E4	TRUE Name Constraints
26	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=International Hellenic University CA R1	88:4C:51:D6:43:BE:11:26:E7:2F:3B:1B:72:38:BA:57:E0:26:8C:1D:6C:4A:22:AC:DD:62:49:C1:75:8A:53:B6	TRUE Name Constraints
27	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Panteion University of Social and Political Sciences CA R1	23:D3:AA:2C:53:13:6F:78:9F:F7:C2:31:E9:2B:62:10:FC:C7:B8:0E:5D:A4:28:7C:5D:F1:BC:52:5B:4F:46:12	TRUE Name Constraints
28	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Eastern Macedonia and Thrace Institute of Technology CA R1	FB:EA:CB:1E:E5:BD:5F:33:51:5C:64:AC:75:2F:F0:78:22:4D:88:EE:40:64:74:C3:31:F9:54:3D:4B:72:18:46	TRUE Name Constraints
29	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions AdminCA R6	A3:07:71:25:D6:9F:C9:CD:99:B5:DA:A7:CF:E8:0A:0E:F2:B2:E9:84:E6:D7:1E:D0:78:BF:24:24:E9:A6:CF:D5	TRUE Name Constraints

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Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, Issue No: 0, Issue Date: May 23rd, 2019

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30	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions Code Signing CA R1	68:49:4D:76:5B:5E:71:40:4F:56:D0:6A:1A:85:3A:27:C3:69:B9:6B:7D:40:5E:ED:9B:D7:9E:0F:C3:08:EB:0F	TRUE Code Signing
31	/C=GR/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA SSL Intermediate CA R1	F4:70:AE:8A:73:71:80:0F:C9:F3:94:EE:D7:16:7B:45:E6:AA:38:EA:B0:20:09:38:64:98:5C:15:C1:E8:B8:CB	FALSE Client Authentication Server Authentication
32	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions RootCA 2015	F2:8A:97:AC:28:CF:ED:10:A9:3A:7F:07:8F:97:8C:8F:62:04:C9:D8:45:1F:74:5D:5F:EB:BD:6E:0B:6D:4D:7C	FALSE Cross Certificate
33	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=Hellenic Academic and Research Institutions Time Stamping CA R1	F7:8A:AE:1D:F7:8D:40:3F:2B:3A:4E:FF:20:08:3E:18:99:25:78:0D:B3:FD:56:DE:CB:9C:61:33:71:4D:7F:3E	TRUE Name Constraints Time Stamping
34	/C=GR/L=Lamia/O=Technological Education Institute of Central Greece/CN=Technological Education Institute of Central Greece CA R1 REVOKED ON: 2019-03-18	08:65:86:9B:3F:C8:22:56:62:13:DE:93:3F:08:4C:FE:51:26:73:D2:A3:8E:39:9A:BA:EA:9C:EA:91:B3:40:B3	TRUE Name Constraints Client Authentication Server Authentication Secure Email
35	/C=GR/L=Athens/O=Academy of Athens/CN=Academy of Athens SSL CA R1 REVOKED ON: 2019-03-18	1B:17:31:E8:7D:86:E1:60:18:B8:AB:B8:A7:B9:EC:FA:73:10:1A:8C:D1:1A:CB:6D:65:5A:6F:B1:5C:66:F1:A8	TRUE Name Constraints Client Authentication Server Authentication
36	/C=GR/L=Athens/O=Academy of Athens/CN=Academy of Athens Client CA R1	DD:AA:5F:72:E1:0F:D3:AD:07:2A:D2:C0:D2:19:58:DB:F1:70:9E:7A:ED:13:B3:8C:26:47:28:FC:E5:C9:BA:1E	TRUE Name Constraints Client Authentication Secure Email Document Signing
37	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Legal Entities SubCA R1	93:AD:D7:C8:48:6B:F1:5A:41:69:49:E1:63:7B:C2:19:A3:45:5E:37:4E:0E:AF:98:01:53:03:5A:B1:7F:3E:C5	TRUE Name Constraints Client Authentication Secure Email Document Signing
38	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Natural Entities SubCA R1	35:75:54:CE:D3:C4:9B:A1:3D:DD:55:A5:68:26:29:B6:FC:E2:AC:FC:45:19:AB:2B:E0:4B:3A:86:01:A5:9F:2F	TRUE Name Constraints Client Authentication Secure Email Document Signing
39	/C=GR/L=Athens/O=Institute of Accelerating Systems and Applications/CN=Institute of Accelerating Systems and Applications SSL CA R1	91:8D:29:95:DA:1B:E2:19:E3:A7:E4:BA:2D:AF:A1:1A:02:5E:EB:F4:D4:A3:5A:3A:8B:2D:B9:9E:79:2C:68:7E	TRUE Name Constraints Client Authentication Server Authentication
40	/C=GR/L=Kerkyra/O=Ionian University/CN=Ionian University SSL CA R1	9D:F0:D3:D5:54:0D:EA:E9:96:C1:B2:6D:A3:1D:0E:D4:E6:0E:FD:F3:A3:DA:39:B6:3F:A8:38:1D:3B:A8:93:DA	TRUE Name Constraints Client Authentication Server Authentication

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Conformity Assessment Report - Root and Sub-CAs List: Annex B to Audit Attestation: 290617-7-R2-AA

Organization Name: Academic Network ("GUNET")

Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, Issue No: 0, Issue Date: May 23rd, 2019

	Subject Distinguished Name	Certificate SHA-256 Fingerprint	Technically Constrained ¹
41	/C=GR/L=Athens/O=Institute of Accelerating Systems and Applications/CN=Institute of Accelerating Systems and Applications Client CA R1	DC:1A:B1:EF:CA:20:83:FE:1E:A6:D0:D3:DC:4A:78:79:D5:CC:6D:3D:A3:F0:A8:1E:94:C8:69:9D:3A:A7:CB:0E	TRUE Name Constraints Client Authentication Secure Email Document Signing
42	/C=GR/L=Kerkyra/O=Ionian University/CN=Ionian University Client CA R1	C9:5A:94:26:41:0E:11:E7:0E:ED:94:78:06:FD:87:F6:F0:DE:77:B9:8F:1C:45:4B:E1:0D:35:C4:44:2D:C1:DD	TRUE Name Constraints Client Authentication Secure Email Document Signing
43	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Code Signing ECC SubCA R1 REVOKED ON: 2019-03-06	B0:9A:8A:20:68:EE:09:98:28:0C:11:D7:73:EA:37:2F:BC:94:B1:34:41:80:3D:DC:2F:C1:35:1C:8B:13:49:48	TRUE Code Signing
44	/C=BE/L=Brussels/O=Agency for the Cooperation of Energy Regulators/CN=ACER Client RSA SubCA R1 REVOKED ON: 2018-06-14	24:F6:23:B2:85:DC:26:5F:96:2E:BD:AA:E3:33:AC:0F:52:E3:0C:F8:32:F8:91:D1:5E:A8:A9:73:83:1E:C9:B5	TRUE Client Authentication
45	/C=GR/L=Ioannina/O=University Ecclesiastical Academy of Vella of Ioannina/CN=Ecclesiastical Academy of Vella Client RSA SubCA R1	97:8B:CF:39:C3:C3:AA:CE:FE:10:48:FA:03:60:28:3D:C2:EB:FA:51:50:02:4C:5E:37:85:14:D3:E7:5E:72:95	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
46	/C=GR/L=Ioannina/O=University Ecclesiastical Academy of Vella of Ioannina/CN=Ecclesiastical Academy of Vella SSL RSA SubCA R1 REVOKED ON: 2019-03-18	58:E3:68:EE:4D:61:5B:88:8E:11:C5:52:B2:CB:3B:46:9F:30:AC:4B:F4:8D:8B:37:9B:51:00:9C:08:26:43:EC	TRUE Name Constraints Client Authentication OCSP Signing Server Authentication
47	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA SSL ECC SubCA R1 REVOKED ON: 2019-03-06	0F:1C:D5:06:D1:DA:C4:AF:C5:A8:B0:73:43:FC:8B:17:42:CF:29:83:F2:38:6D:1E:9C:A6:6E:86:B5:0C:1F:14	FALSE Client Authentication Server Authentication
48	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA SSL RSA SubCA R2 REVOKED ON: 2019-03-18	5F:2D:93:7F:92:1D:34:81:C5:6E:41:7F:14:BE:13:83:29:EE:D9:A6:FA:1F:FC:41:54:33:D1:ED:AB:6C:9F:F1	FALSE Client Authentication Server Authentication
49	/C=SI/L=Ljubljana/O=Agency for the Cooperation of Energy Regulators/CN=ACER Client RSA SubCA R2	EB:9D:CA:72:65:90:EB:81:29:9E:E2:24:80:70:41:D9:7A:AF:97:CF:94:25:A8:D1:46:D6:82:B5:02:87:1E:A5	TRUE Client Authentication
50	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA S/MIME RSA SubCA R1	E5:30:51:12:59:D3:3F:B3:ED:D3:8E:0E:79:9F:F9:E8:F9:9D:4D:B2:DA:0D:EE:08:EA:F5:A6:D1:5C:CE:9B:FC	TRUE Client Authentication Secure Email
51	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA S/MIME RSA SubCA R2	5C:97:E0:FD:1E:BD:6E:13:6A:71:62:6F:86:0A:B5:D6:5B:79:7E:7E:D3:C1:C1:BF:4E:65:38:22:37:5A:46:44	TRUE Client Authentication Secure Email
52	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA S/MIME ECC SubCA R1 REVOKED ON: 2019-03-06	7B:D1:08:E8:49:F4:66:3C:66:CA:B9:8C:83:DD:B6:7E:24:06:29:2E:64:CD:E8:90:EA:43:CA:CB:87:B4:A2:32	TRUE Client Authentication Secure Email

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Conformity Assessment Report - Root and Sub-CAs List: Annex B to Audit Attestation: 290617-7-R2-AA

Organization Name: Academic Network ("GUNET")

Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, Issue No: 0, Issue Date: May 23rd, 2019

	Subject Distinguished Name	Certificate SHA-256 Fingerprint	Technically Constrained ¹
53	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Client Authentication RSA SubCA R1	D2:5B:6C:50:59:4F:61:19:DC:3A:B2: E5:9F:55:09:FC:90:4F:10:C4:FF:A7: 57:C0:12:9E:EB:DA:86:BF:FC:B1	TRUE Client Authentication
54	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Client Authentication RSA SubCA R2	15:DA:CB:49:F0:48:B9:54:08:A0:EE: C6:89:17:29:D9:23:5C:CA:E3:2F:45: CF:DA:07:17:54:02:BE:E7:83:00	TRUE Client Authentication
55	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Client Authentication ECC SubCA R1 REVOKED ON: 2019-03-06	1F:96:79:22:29:49:97:B8:CB:F2:C9: E7:18:8E:E8:B0:70:E4:0A:2B:15:D0: 77:EC:CB:4A:67:22:0F:1C:50:1C	TRUE Client Authentication
56	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Natural Entities ECC SubCA R1 REVOKED ON: 2019-03-06	92:A7:CD:B2:16:07:0F:12:DC:C8:A5: 98:6D:C4:28:43:E9:39:9B:4C:C7:D6: 24:F9:2A:0A:12:02:EC:BF:3B:50	TRUE Client Authentication Secure Email Document Signing
57	/C=GR/L=Athens/O=Greek Federation of Judicial Officers/CN=Greek Federation of Judicial Officers Client SubCA R1	2D:81:9A:F3:97:E2:89:DC:41:70:9C: 4A:AF:6D:A3:B1:90:47:49:C3:7A:99: 58:60:74:58:03:71:6D:7D:56:90	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
58	/C=GR/L=Athens/O=Greek Research and Technology Network/CN=GRnet SSL RSA SubCA R1 REVOKED ON: 2019-03-18	7C:09:28:9D:98:C9:A1:9E:85:FD:D8: 64:79:79:AC:D6:7B:9D:93:57:B9:13: 82:02:CF:4C:3F:FD:C3:02:12:E1	TRUE Name Constraints Client Authentication Server Authentication
59	/C=GR/L=Athens/O=Greek Research and Technology Network/CN=GRnet Client RSA SubCA R1	A1:A0:4E:4C:FC:56:FD:19:17:EB:48: 1F:C4:66:29:A2:E4:66:56:75:6F:A0: 8E:22:48:7F:54:B6:4E:1C:A3:E7	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
60	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Legal Entities SubCA R2	CD:F2:7E:EA:0C:3A:55:12:36:91:08: FD:74:63:5D:2D:4C:F5:0E:94:D6:CA: 19:9B:ED:7D:E8:1B:0D:09:A3:36	TRUE Client Authentication Secure Email Document Signing
61	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Natural Entities SubCA R2	09:4F:78:C5:3E:C5:D8:08:2B:C5:D5: AA:D1:B1:1D:5D:F9:52:BE:56:93:33: 58:DB:F5:96:35:42:91:3A:50:CD	TRUE Client Authentication Secure Email Document Signing
62	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Legal Entities ECC SubCA R1 REVOKED ON: 2019-03-06	EE:AB:E2:81:9D:DF:4E:7C:54:CC:5F: 3F:E5:A5:4E:D1:07:4A:7F:14:53:59: 8E:C4:35:EA:F4:5C:87:C1:CF:62	TRUE Client Authentication Secure Email Document Signing
63	/C=GR/L=Thessaloniki/O=Aristotle University of Thessaloniki/CN=Aristotle University of Thessaloniki Client RSA SubCA R1	66:3F:DE:94:F8:83:6A:1F:EB:D8:3B: E8:31:09:79:31:2D:65:FF:8C:1B:71: 63:94:E6:8F:41:D8:23:96:C1:F8	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing

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Conformity Assessment Report - Root and Sub-CAs List: Annex B to Audit Attestation: 290617-7-R2-AA

Organization Name: Academic Network ("GUNET")

Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, **Issue No:** 0, **Issue Date:** May 23rd, 2019

	Subject Distinguished Name	Certificate SHA-256 Fingerprint	Technically Constrained ¹
64	/C=GR/L=Thessaloniki/O=Aristotle University of Thessaloniki/CN=Aristotle University of Thessaloniki SSL RSA SubCA R1 REVOKED ON: 2019-03-18	48:EB:9C:C3:FF:E5:CF:6B:49:A5:EA: 2F:99:06:C3:96:75:6E:42:51:93:50: B0:FA:DE:93:23:70:71:AE:EE:FE	TRUE Name Constraints Client Authentication Server Authentication
65	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Administration Client ECC SubCA R1 REVOKED ON: 2019-03-07	7C:B8:88:EF:74:0D:CB:FC:0C:20:BD: A4:4F:2C:26:19:F6:D0:D4:59:8F:B9: 32:D0:37:DA:F2:78:07:77:73:A5	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
66	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Code Signing ECC SubCA R2	01:39:32:46:5E:E4:FC:24:48:D0:C9: AE:EE:A0:49:DE:90:63:AF:5E:77:3E: 8A:50:1A:B6:26:F0:95:7E:13:45	TRUE Code Signing
67	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Client Authentication ECC SubCA R2	4D:63:F8:74:7A:96:80:F8:18:82:B6: 2D:0F:A9:93:C3:35:81:D3:14:C5:B5: 96:FA:37:3D:F9:2B:2C:65:D4:FF	TRUE Name Constraints Client Authentication Server Authentication
68	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Administration SSL ECC SubCA R1 REVOKED ON: 2019-03-07	B5:23:94:21:E3:34:51:AA:60:88:1C: 9A:C5:97:8B:FD:BE:5A:16:B2:6F:6B: 15:7D:DB:17:DD:05:F4:F0:30:74	TRUE Client Authentication
69	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Legal Entities ECC SubCA R2	DD:5B:AC:4F:1B:B5:35:6A:E9:8D:3F: 0C:8E:24:C5:9D:F8:41:99:A5:6F:78: F1:C1:61:19:6A:AD:70:28:30:94	TRUE Client Authentication Secure Email Document Signing
70	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Natural Entities ECC SubCA R2	4D:96:1A:EE:0D:2D:D0:AD:F4:33:B4: AA:C2:61:CE:58:71:66:5C:F3:9F:CA: 1B:48:38:AE:66:20:DA:68:50:46	TRUE Client Authentication Secure Email Document Signing
71	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA S/MIME ECC SubCA R2	9C:D0:72:90:E8:BE:DD:99:CF:73:97: F9:4C:B0:12:B2:2E:EC:13:DA:52:ED: 94:F3:01:7A:2E:A4:14:6E:A9:8D	TRUE Client Authentication Secure Email
72	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA SSL ECC SubCA R2	11:D5:EF:46:0D:AB:35:82:B7:42:12: 31:27:12:7D:54:04:0F:B1:C2:06:E2: 6F:02:5C:B5:84:58:F2:25:11:1A	FALSE Client Authentication Server Authentication
73	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Administration Client ECC SubCA R2	7A:52:94:5F:59:02:D5:3C:0D:B7:6A: 20:0E:B9:F8:5C:7C:42:4B:23:F9:39: FF:E1:40:C5:DB:D0:B1:F2:C7:D8	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
74	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Administration SSL ECC SubCA R2	3E:14:79:80:47:65:A6:2B:B7:BD:4F: 0D:DE:BB:55:A9:46:A2:06:3C:D2:88: 2F:05:46:1B:17:54:F1:B6:67:B1	TRUE Name Constraints Client Authentication Server Authentication

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Conformity Assessment Report - Root and Sub-CAs List: Annex B to Audit Attestation: 290617-7-R2-AA

Organization Name: Academic Network ("GUNET")

Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, **Issue No:** 0, **Issue Date:** May 23rd, 2019

	Subject Distinguished Name	Certificate SHA-256 Fingerprint	Technically Constrained ¹
75	/C=GR/L=Thessaloniki/O=Aristotle University of Thessaloniki/CN=Aristotle University of Thessaloniki SSL RSA SubCA R2	0E:E8:2C:EB:7E:CA:24:1C:CC:29:D4: E5:88:06:2C:43:E4:47:ED:E6:C6:96: F1:35:AC:C4:11:96:61:26:BA:83	TRUE Name Constraints Client Authentication Server Authentication
76	/C=GR/L=Athens/O=Academy of Athens/CN=Academy of Athens SSL SubCA R2	DC:94:55:CA:47:F5:FD:9B:F3:BB:AB: BE:AC:F8:8F:3D:EB:3B:58:BF:A8:5A: F4:04:DF:D2:16:17:CE:90:A0:DD	TRUE Name Constraints Client Authentication Server Authentication
77	/C=GR/L=Ioannina/O=University Ecclesiastical Academy of Vella of Ioannina/CN=Ecclesiastical Academy of Vella SSL RSA SubCA R2	CD:FF:27:AF:A3:DA:F9:F7:06:AA:7A: C5:30:29:83:37:E5:20:C8:B1:0A:22: F6:51:4E:00:E2:1F:D2:87:3B:79	TRUE Name Constraints Client Authentication Server Authentication
78	/C=GR/L=Athens/O=Greek Research and Technology Network/CN=GRnet SSL RSA SubCA R2	C1:61:F5:AA:DE:40:FB:C9:72:3F:08: 92:DE:96:3D:4D:10:40:55:61:A6:BD: C6:9A:72:79:8F:91:8B:ED:19:CD	TRUE Name Constraints Client Authentication Server Authentication
79	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA SSL RSA SubCA R3	70:B6:A1:0C:0C:A7:6D:EC:E7:AD:BE: 97:0B:76:A3:7D:8A:02:85:7B:13:4C: 75:05:B1:84:EB:D5:FC:A4:F3:EA	FALSE Client Authentication Server Authentication
80	/C=GR/L=Athens/O=Academy of Athens/CN=Academy of Athens Client SubCA R2	BE:68:63:CB:0D:3B:B5:73:14:EE:4B: 62:7F:B3:46:E8:CD:20:58:1D:E1:7F: E0:78:2A:FB:43:8E:F0:34:AC:0B	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
81	/C=GR/L=Thessaloniki/O=Aristotle University of Thessaloniki/CN=Aristotle University of Thessaloniki Client RSA SubCA R2	48:39:5F:71:CC:26:F6:42:74:BD:06: C7:EB:15:91:F9:D4:EC:62:B6:4F:A6: C1:65:31:F3:CB:72:C2:46:9D:82	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
82	/C=GR/L=Ioannina/O=University Ecclesiastical Academy of Vella of Ioannina/CN=Ecclesiastical Academy of Vella Client RSA SubCA R2	77:BB:AB:D8:E1:C2:AA:51:AF:CE:71: D6:AD:94:0E:21:96:47:B9:32:02:45: C4:BB:BD:6B:31:DD:28:E1:F3:2C	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
83	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Legal Entities SubCA R3	C6:CB:08:B5:D6:DF:E4:61:AE:CE:9A: A3:CF:03:AF:7F:ED:13:41:C9:E6:EE: 00:52:12:9C:27:CA:75:49:33:F2	TRUE Client Authentication Secure Email Document Signing

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Conformity Assessment Report - Root and Sub-CAs List: Annex B to Audit Attestation: 290617-7-R2-AA

Organization Name: Academic Network ("GUNET")

Certification Authority Name: Hellenic Academic & Research Institutions Certification Authority (HARICA)

Reference Number: 290617-7-R2-CAR, **Issue No:** 0, **Issue Date:** May 23rd, 2019

	Subject Distinguished Name	Certificate SHA-256 Fingerprint	Technically Constrained ¹
84	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA Qualified Natural Entities SubCA R3	AD:DB:E8:8B:46:81:54:CF:8F:77:73: 28:8C:8C:50:F7:60:87:9E:49:08:92: AA:92:72:81:5B:81:4E:72:1E:7D	TRUE Client Authentication Secure Email Document Signing
85	/C=GR/L=Athens/O=Greek Research and Technology Network/CN=GRnet Client RSA SubCA R2	1C:C3:F7:B1:36:8F:47:60:10:DB:B2: 54:B3:97:0B:85:9C:94:52:4C:6B:62: EB:CE:94:6C:8A:E6:39:39:E6:8F	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
86	/C=GR/L=Athens/O=Greek Federation of Judicial Officers/CN=Greek Federation of Judicial Officers Client SubCA R2	0E:F3:96:0A:08:11:49:0F:4D:53:E3: 3F:AF:C4:1F:5C:94:EE:B1:66:7A:1A: 2C:C9:6B:F3:F2:9D:61:9C:AF:88	TRUE Name Constraints Client Authentication Secure Email Document Signing OCSP Signing
87	/C=GR/L=Athens/O=Hellenic Academic and Research Institutions Cert. Authority/CN=HARICA S/MIME RSA SubCA R3	59:3C:4A:B6:06:6C:DF:61:85:06:7F: 56:26:77:FD:DF:F5:33:65:6D:B4:BD: 2D:57:77:35:30:17:04:15:02:18	TRUE Client Authentication Secure Email