

Valencia, July 14<sup>th</sup>, 2018

#### **Independent Assurance Report**

To the management of AC Camerfirma SA. ("Camerfirma"):

#### Scope

We have been engaged, in a reasonable assurance engagement, to report on Camerfirma management's assertion that for its Certification Authority (CA) operations at Avila and Madrid, SPAIN, throughout the period 14<sup>th</sup> of April 2017 to the 13<sup>th</sup> of April 2018 for the root Certification Authority "Chambers of Commerce Root", "Global Chambersign Root", "Chambers of Commerce Root - 2008", "Global Chambersign Root – 2008", "CHAMBERS OF COMMERCE ROOT - 2016" and "GLOBAL CHAMBERSIGN ROOT - 2016" as enumerated in Appendix 1, Camerfirma has:

- disclosed its business, key lifecycle management, certificate lifecycle management, and CA environment control practices in:
  - DECLARACIÓN DE PRÁCTICAS DE CERTIFICACIÓN CERTIFICADOS DIGITALES AC CAMERFIRMA SA EIDAS-2016 – Version 1.2.3 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/C PS\_eidas\_v\_1\_2\_3.pdf
  - DECLARACIÓN DE PRÁCTICAS DE CERTIFICACIÓN CERTIFICADOS DIGITALES AC CAMERFIRMA SA - Versión 3.3 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/C PS\_v\_3\_3.pdf
  - POLÍTICA DE CERTIFICACIÓN CHAMBERS OF COMMERCE ROOT Version 1.0.1 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Chambers\_of\_Commerce\_Root\_1\_0\_1.pdf
  - POLÍTICA DE CERTIFICACIÓN GLOBAL CHAMBERSIGN ROOT -Versión 1.0 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Global\_Chambersign\_Root\_1.0.pdf
  - POLÍTICA DE CERTIFICACIÓN CAMERFIRMA FOR LEGAL PERSONS

     Version 1.0
     http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P
     C\_Camerfirma\_For\_Legal\_Persons.pdf



- POLÍTICA DE CERTIFICACIÓN CAMERFIRMA CODESIGN Version 1.0.2: http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Camerfirma\_CodeSign.pdf
- POLÍTICA DE CERTIFICACIÓN AC CAMERFIRMA FOR NATURAL PERSONS - Version: 1.0: http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Camerfirma\_For\_Natural\_Persons.pdf
- POLÍTICA DE CERTIFICACIÓN CERTIFICADO CAMERAL CAMERFIRMA DE PERSONA FÍSICA - Version: 1.1.5: http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_CAM\_PF\_1\_1\_5.pdf
- POLÍTICA DE CERTIFICACIÓN CERTIFICADO DE REPRESENTANTE PARA ADMINISTRACIONES PÚBLICAS - Version: 1.0 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Camerfirma\_Representante\_AAPP.pdf
- POLÍTICA DE CERTIFICACIÓN CERTIFICADO CAMERAL DE REPRESENTANTE - Version: 1.1.4 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_CAM\_PR\_1\_1\_4.pdf
- POLÍTICA DE CERTIFICACIÓN CERTIFICADO CAMERAL CAMERFIRMA DE APODERADO ESPECIAL - Version: 1.1.4 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_CAM\_AP\_1.1.4.pdf
- POLÍTICA DE CERTIFICACIÓN CERTIFICADO CAMERAL CAMERFIRMA DE PERSONA JURÍDICA - Version: 1.1.5 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_CAM\_PJ\_1\_1\_5.pdf
- POLÍTICA DE CERTIFICACIÓN CERTIFICADO CAMERAL CAMERFIRMA DE PERSONA FÍSICA PARA FACTURACIÓN ELECTRÓNICA - Version: 1.1.4 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_CAM\_PFF\_1\_1\_4.pdf
- POLÍTICA DE CERTIFICACIÓN RACER, RED DE ALTA CAPILARIDAD DE ENTIDADES DE REGISTRO - Version: 1.4.1 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_RACER\_1\_4\_1.pdf
- CERTIFICATION POLICY FOR WEBSITES Version 2.0 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Camerfirma\_For\_Websites.pdf
- POLÍTICA DE CERTIFICACIÓN CAMERFIRMA EXPRESS CORPORATE SERVER – Version 1.1.1 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Camerfirma\_Corporate\_Server\_1\_1\_1\_1.pdf



- CERTIFICATION POLICY CAMERFIRMA CORPORATE SERVER EV Version 1.0.1 http://docs.camerfirma.com/publico/DocumentosWeb/politicas/P C\_Camerfirma\_Corporate\_Server\_EV\_1\_0\_1.pdf
- maintained effective controls to provide reasonable assurance that:
  - Camerfirma's Certification Practice Statement(s) is (are) consistent with its Certificate Policies.
  - Camerfirma provides its services in accordance with its Certificate Policies and Certification Practice Statement(s)
- maintained effective controls to provide reasonable assurance that:
  - the integrity of keys and certificates it manages is established and protected throughout their lifecycles;
  - the integrity of subscriber keys and certificates it manages is established and protected throughout their lifecycles;
  - subscriber information is properly authenticated (for the registration activities performed by Camerfirma); and
  - $\circ$  subordinate CA certificate requests are accurate, authenticated, and approved
- maintained effective controls to provide reasonable assurance that:
  - logical and physical access to CA systems and data is restricted to authorized individuals;
  - $\circ$  the continuity of key and certificate management operations is maintained; and
  - CA systems development, maintenance, and operations are properly authorized and performed to maintain CA systems integrity

in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.0.

Camerfirma makes use of external registration authorities for specific subscriber registration activities as disclosed in Camerfirma's business practices. Our procedures did not extend to the controls exercised by these external registration authorities.

Camerfirma does not escrow its CA keys. Accordingly, our procedures did not extend to controls that would address those criteria.

#### **Certification authority's responsibilities**

Camerfirma's management is responsible for its assertion, including the fairness of its presentation, and the provision of its described services in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.0.

#### Our independence and quality control

We have complied with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.



Auren applies International Standard on Quality Control 1, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

#### Auditor's responsibilities

Our responsibility is to express an opinion on management's assertion based on our procedures. We conducted our procedures in accordance with International Standard on Assurance Engagements 3000, Assurance Engagements Other than Audits or Reviews of Historical Financial Information, issued by the International Auditing and Assurance Standards Board. This standard requires that we plan and perform our procedures to obtain reasonable assurance about whether, in all material respects, management's assertion is fairly stated, and, accordingly, included:

- (1) obtaining an understanding of Camerfirma's key and certificate lifecycle management business practices and its controls over key and certificate integrity, over the authenticity and confidentiality of subscriber and relying party information, over the continuity of key and certificate lifecycle management operations and over development, maintenance and operation of systems integrity;
- (2) selectively testing transactions executed in accordance with disclosed key and certificate lifecycle management business practices;
- (3) testing and evaluating the operating effectiveness of the controls; and
- (4) performing such other procedures as we considered necessary in the circumstances.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### **Relative effectiveness of controls**

The relative effectiveness and significance of specific controls at Camerfirma and their effect on assessments of control risk for subscribers and relying parties are dependent on their interaction with the controls, and other factors present at individual subscriber and relying party locations. We have performed no procedures to evaluate the effectiveness of controls at individual subscriber and relying party locations.

#### **Inherent limitations**

Because of the nature and inherent limitations of controls, Camerfirma's ability to meet the aforementioned criteria may be affected. For example, controls may not prevent, or detect and correct, error, fraud, unauthorized access to systems and information, or failure to comply with internal and external policies or requirements. Also, the projection of any conclusions based on our findings to future periods is subject to the risk that changes may alter the validity of such conclusions.



#### **Basis for qualified pinion**

During our procedures, we noted that discrepancies between CPS and CP. Specifically:

- Subscriber minimum key lengths differ between CPS and CP in some cases.
- Contact information differ between CPS and CP in some cases.
- There are discrepancies in the reuse of keys for the issuance of new certificates between CPS and CP in some cases.

This caused WebTrust Criterion 2.3 which reads:

The CA maintains controls to provide reasonable assurance that its Certification Practice Statement addresses the topics included in its Certificate Policy.

to not be met.

During our procedures, we noted that some CP do not disclose all topics in RFC 3647. Specifically:

- Some CP do not address Certificate modification
- Some CP do not address Certificate usage
- Some CP do not address Method of deactivating private key
- Some CP do not address Computer security controls neither Network security controls
- Although the CP address the Certificate, CRL, and OCSP profiles by reference to a separate profile definition we could not evidence this separate profile documents.
- Some CP do not address Individual notices and communications with participants

This caused WebTrust Criterion 1.2 which reads:

The CA discloses its business practices including but not limited to the topics listed in RFC 3647, RFC 2527, or WebTrust for Certification Authorities v1 (see Appendix A) in its Certificate Policy.

to not be met.

During our procedures, we noted that Camerfirma had issued certificates with errors. Specifically:

- Some certificates of the eIDAS context were issued with errors (QCP-n, QCP-I and QCP-w) according to the ETSI EN 319 412 series.
- Some certificates with the Extended Key Usage of id-kp-serverAuth were issued with errors according to the required CA/B Forum requirements.
- Some certificates were issued according to the x.509 profile.

This caused WebTrust Criterion 6.4 which reads:



The CA maintains controls to provide reasonable assurance that certificates are generated and issued in accordance with the CA's disclosed business practices.

to not be met.

During our procedures, we noted that Camerfirma had not revoked certificates within the time frame in accordance with the disclosed business practices.

This caused WebTrust Criterion 6.6 which reads:

The CA maintains controls to provide reasonable assurance that certificates are revoked, based on authorized and validated certificate revocation requests within the time frame in accordance with the CA's disclosed business practices.

to not be met.

During our procedures, we noted that certificate status information was inconsistent between the OCSP and CRL service under certain circumstances. Specifically:

- The revocation time differs between the OCSP service and CRL for a few certificates.
- The OCSP service responds good for some certificates revoked according to the CRL.

This caused WebTrust Criterion 6.8 which reads:

The CA maintains controls to provide reasonable assurance that timely, complete and accurate certificate status information (including Certificate Revocation Lists and other certificate status mechanisms) is made available to relevant entities (Subscribers and Relying Parties or their agents) in accordance with the CA's disclosed business practices.

to not be met.

#### **Qualified Opinion**

In our opinion, except for the matters described in the basis for qualified section above, throughout the period  $14^{th}$  of April 2017 to the  $13^{th}$  of April 2018, Camerfirma management's assertion, as referred to above, is fairly stated, in all material respects, in accordance with the WebTrust Principles and Criteria for Certification Authorities v2.0.

This report does not include any representation as to the quality of Camerfirma's services beyond those covered by the WebTrust Principles and Criteria for



Certification Authorities v2.0, nor the suitability of any of Camerfirma's services for any customer's intended purpose.

F. Mondragon, Auditor **auren** Valencia, SPAIN July 14<sup>th</sup>, 2018

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## **APPENDIX 1 List of CAs in Scope**

Root CAs
1 - CHAMBERS OF COMMERCE ROOT - 2016
2 - GLOBAL CHAMBERSIGN ROOT - 2016
3 - Chambers of Commerce Root - 2008
4 - Global Chambersign Root - 2008
5 - Chambers of Commerce Root
6 - Global Chambersign Root
OV SSL Issuing CAs
1.3 - AC CAMERFIRMA FOR WEBSITES - 2016
3.2 - Camerfirma Corporate Server II - 2015
3.3 - Camerfirma AAPP II - 2014
5.2 - AC Camerfirma Express Corporate Server v3
5.3 - AC CAMERFIRMA AAPP
EV SSL Issuing Cas
1.3 - AC CAMERFIRMA FOR WEBSITES - 2016
2.1.3 - AC CAMERFIRMA GLOBAL FOR WEBSITES - 2016
3.2 - Camerfirma Corporate Server II - 2015
3.3 - Camerfirma AAPP II - 2014
Other CAs
1.1 - AC CAMERFIRMA FOR LEGAL PERSONS - 2016
1.2 - AC CAMERFIRMA FOR NATURAL PERSONS - 2016
1.4 - AC CAMERFIRMA CODESIGN - 2016
1.5 - AC CAMERFIRMA TSA - 2016
2.1 - AC CAMERFIRMA - 2016
2.1.1 - AC CAMERFIRMA GLOBAL FOR NATURAL PERSONS - 2016
2.1.2 - AC CAMERFIRMA GLOBAL FOR LEGAL PERSONS - 2016,
3.5 - Camerfirma TSA II - 2014
4.1 - AC Camerfirma - 2009
4.1.1 - RACER - 2009
5.1 - AC Camerfirma Certificados Camerales
6.1 - AC Camerfirma, O=AC Camerfirma SA
6.1.1 - RACER
Legacy Inactive Cas
3.1 - Camerfirma Certificados Camerales - 2009 (revoked
01/29/2018)
3.4 - Camerfirma TSA - 2009 (revoked 01/29/2018)
5.4 - AC Camertirma TSA (revoked 12/04/2017)
15.5 - AC Cameriirma Codesign v2 (revoked 11/27/2017)



#### **CA Identifying Information for in Scope CAs**

#### serialN CA# Subject Issuer Key Type Sig Algorithm notBefore NotAfter SKI SHA256 Fingerprint umber CN=CHAMBERS OF COMMERCE CN=CHAMBERS OF COMMERCE 349A2DA rsaEncryption sha256WithRSA April 14 April 08 9E:2E:65:4F:3E:57:F5:AB 04:F1:BE:C3:69:51:BC:14:54:A9:04:CE:32 ROOT - 2016, O=AC ROOT - 2016, O=AC 18206B2 - 4096 bit Encryption 09:35:48 09:35:48 :7D:96:C6:8B:DF:B3:35:6 :89:0C:5D:A3:CD:E1:35:6B:79:00:F6:E6:2 CAMERFIRMA S.A, C=ES CAMERFIRMA S.A, C=ES 2040 GMT D:4A:E8:9E:8B D:FA:20:41:EB:AD:51 2016 GMT R3 CN=CHAMBERS OF COMMERCE April 14 C3:27:85:93:D7:2F:96:C5 3A:80:66:26:6D:28:BD:28:CC:D0:F5:64:C8 1.1 CN=AC CAMERFIRMA FOR 54B16EE rsaEncryption sha256WithRSA March 09 :1B:AC:76:33:D9:86:A2:4 LEGAL PERSONS - 2016, ROOT - 2016, O=AC 111245A - 4096 bit Encryption 10:33:07 10:33:07 :FB:C1:21:9B:4F:FA:E4:03:E0:1E:50:39:D 42 2040 GMT A:7D:68:14:42 O=AC CAMERFIRMA S.A., CAMERFIRMA S.A, C=ES 2016 GMT 3:0F:24:00:F0:EB:09 C=FS 1.2 CN = AC CAMERFIRMA FOR CN=CHAMBERS OF COMMERCE 51514CB rsaEncryption sha256WithRSA April 14 March 09 70:B8:F8:24:C7:51:CA:CE EE:DD:45:7A:F1:35:3D:76:F4:8E:7C:61:23 NATURAL PERSONS - 2016, 10:48:09 10:48:09 :22:80:92:08:C9:C0:68:2 :F3:91:40:E5:F9:A0:69:CA:51:B4:3E:EA:8 ROOT - 2016, O=AC 44FA454 - 4096 bit Encryption O=AC CAMERFIRMA S.A., CAMERFIRMA S.A, C=ES F5 2016 GMT 2040 GMT F:C1:47:58:51 6:15:C9:CE:C0:D4:BB C=ES 1.3 CN=AC CAMERFIRMA FOR CN=CHAMBERS OF COMMERCE 23CDF49 rsaEncryption sha256WithRSA Apr 18 March 13 EC:95:33:3B:71:C0:D2:B1 93:7D:7D:5D:0B:7F:B7:DB:03:93:99:BC:0B WEBSITES - 2016, O=AC 1B34348 - 4096 bit 17:43:54 :67:0C:C2:03:C7:AB:4E:33:2F:AE:45:3C:C ROOT - 2016, O=AC Encryption 17.43.54 :9C:58:23:0B:36:41:BC:5 CAMERFIRMA S.A., C=ES CAMERFIRMA S.A, C=ES 0в 2016 GMT 2040 GMT 4:9E:2C:92:1D 3:8E:C1:88:DD:EA:2B 1.4 CN=AC CAMERFIRMA CN=CHAMBERS OF COMMERCE 454A8B1 rsaEncryption sha256WithRSA Apr 14 March 09 A7:25:4A:06:4E:E5:60:90 49:08:F2:33:75:67:BE:50:5C:26:CC:01:A7 CODESIGN - 2016, O=AC ROOT - 2016, O=AC 1B4E135 - 4096 bit Encryption 10:17:54 10:17:54 :40:E4:9E:72:25:98:85:E :F0:7C:4B:80:21:32:A0:95:B2:BA:EE:EE:6 2016 GMT D:E2:08:83:08:8A:56 2040 GMT CAMERFIRMA S.A., C=ES CAMERFIRMA S.A, C=ES F2 A:3C:DF:FA:92 CN=AC CAMERFIRMA TSA -CN=CHAMBERS OF COMMERCE 15B7A58 sha256WithRSA Apr 14 March 09 1E:6D:B5:C6:3F:EF:92:55 BA:AE:2C:63:38:85:7D:50:20:0F:6F:73:DD 15 rsaEncryption 2016, O=AC CAMERFIRMA ROOT - 2016, O=AC A54FF02 - 4096 bit Encryption 12:42:09 12:12:09 :5E:37:FA:DB:FD:10:AA:B :45:E6:5A:A2:D8:95:BE:D4:67:5B:6E:39:6 S.A., C=ES CAMERFIRMA S.A, C=ES 82 2016 GMT 2040 GMT A:D9:3B:4E:2C B:72:22:E0:18:A9:B8

# CHAMBERS OF COMMERCE ROOT - 2016

## **GLOBAL CHAMBERSIGN ROOT - 2016**

CA#	Subject	Issuer	serialN umber	Кеу Туре	Sig Algorithm	notBefore	NotAfter	SKI	SHA256 Fingerprint
2	CN=GLOBAL CHAMBERSIGN	CN=GLOBAL CHAMBERSIGN	2DD22E5	rsaEncryption	sha256WithRSA	Apr 14	Apr 08	E8:9B:CD:7E:86:62:9B:7A	C1:D8:0C:E4:74:A5:11:28:B7:7E:79:4A:98
	ROOT - 2016, O=AC	ROOT - 2016, O=AC	030A65E	- 4096 bit	Encryption	09:50:06	09:50:06	:4D:8C:00:97:39:85:CF:1	:AA:2D:62:A0:22:5D:A3:F4:19:E5:C7:ED:7
	CAMERFIRMA S.A, C=ES	CAMERFIRMA S.A, C=ES	13			2016 GMT	2040 GMT	C:78:90:70:3A	3:DF:BF:66:0E:71:09
2.1	CN=AC CAMERFIRMA -	CN=GLOBAL CHAMBERSIGN	1108715	rsaEncryption	sha256WithRSA	Apr 14	March 09	D2:84:97:44:4D:D9:88:EE	37:1C:57:98:2C:F5:43:FB:F9:04:1E:DC:34
	2016, O=AC CAMERFIRMA	ROOT - 2016, O=AC	A574BA4	- 4096 bit	Encryption	13:23:49	13:23:49	:7C:25:BF:52:80:B3:29:4	:8A:2E:0A:CD:CD:E4:B6:EC:25:EC:24:2B:A
	S.A., C=ES	CAMERFIRMA S.A, C=ES	4D			2016 GMT	2040 GMT	8:9B:8B:18:84	C:84:F0:1D:AB:18:1C
2.1.1	CN=AC CAMERFIRMA GLOBAL	CN=AC CAMERFIRMA -	11087A2	rsaEncryption	sha256WithRSA	Apr 14	Feb 08	4E:36:56:A8:58:CE:1B:83	EF:41:1C:83:7A:C3:30:41:85:E5:39:13:FE
	FOR NATURAL PERSONS -	2016, O=AC CAMERFIRMA	1EF4A81	- 4096 bit	Encryption	17:13:34	17:13:34	:85:60:4C:D4:1B:A1:DF:7	:36:9B:F8:FF:65:98:C2:A5:2B:DB:1B:6E:2
	2016	S.A., C=ES	02			2016 GMT	2040 GMT	2:3D:AF:7B:5F	D:EA:B5:DC:C7:F0:6F
2.1.2	CN=AC CAMERFIRMA GLOBAL	CN=AC CAMERFIRMA -	3487D16	rsaEncryption	sha256WithRSA	Apr 14	Feb 08	80:21:DF:71:F1:EF:D4:6B	4D:20:C9:51:E1:34:89:3B:C5:90:1B:FA:F8
	FOR LEGAL PERSONS -	2016, O=AC CAMERFIRMA	B4118D1	- 4096 bit	Encryption	16:58:36	16:58:36	:DA:33:86:D1:0F:BE:C5:D	:E2:40:A5:BE:7D:00:59:6D:D3:1C:40:42:9
	2016, O=AC CAMERFIRMA	S.A., C=ES	A2			2016 GMT	2040 GMT	D:65:4C:84:5E	2:52:F2:E0:4F:8B:46
	S.A, C=ES								
2.1.3	CN = AC CAMERFIRMA	CN=AC CAMERFIRMA -	2EE3841	rsaEncryption	sha256WithRSA	Apr 18	Feb 12	F4:35:D1:DA:FD:FE:A4:11	99:BD:A6:79:2D:CA:ED:71:45:BF:9B:7F:46
	GLOBAL FOR WEBSITES -	2016, O=AC CAMERFIRMA	7DD54AF	- 4096 bit	Encryption	17:57:56	17:57:56	:06:C6:2C:3C:C2:FF:9C:F	:68:31:05:18:21:AE:F0:32:16:97:11:76:2
1	2016, O=AC CAMERFIRMA	S.A., C=ES	32			2016 GMT	2040 GMT	A:89:91:0F:6A	4:1A:FC:21:23:AB:84
	S.A, C=ES								



# Chambers of Commerce Root - 2008

CA#	Subject	Issuer	serialN umber	Кеу Туре	Sig Algorithm	notBefore	NotAfter	SKI	SHA256 Fingerprint
3	CN=Chambers of Commerce	CN=Chambers of Commerce	00A3DA4	rsaEncryption	sha1WithRSAEn	August 01	July 31	F9:24:AC:0F:B2:B5:F8:79	06:3E:4A:FA:C4:91:DF:D3:32:F3:08:9B:85
	Camerfirma S.A., C=ES	Camerfirma S.A., C=ES	AEDA	- 4090 DIC	стурстоп	2008 GMT	2038 GMT	D:02:9E:17:19	3:7E:E2:9D:96:93:C0
3.1	CN=Camerfirma Certificados Camerales - 2009, O=AC Camerfirma S.A., C=ES	CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., C=ES	02	rsaEncryption - 4096 bit	shalWithRSAEn cryption	March 16 19:40:20 2009 GMT	March 14 19:40:20 2019 GMT	1E:C4:5A:8A:84:6F:11:90 :58:B3:E2:09:D7:16:E6:E A:C3:24:E6:8D	2F:2B:32:E7:8F:C6:9D:2F:FC:64:5E:B6:06 :8E:07:4E:74:97:74:49:5F:DC:25:10:93:B 0:EE:E0:4E:FA:FD:17
3.2	CN = Camerfirma Corporate Server II - 2015, O=AC Camerfirma S.A., C=ES	CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., C=ES	621FF31 C489BA1 36	rsaEncryption - 4096 bit	sha256WithRSA Encryption	January 15 11:21:16 2015 GMT	December 15 11:21:16 2037 GMT	63:E9:F0:F0:56:00:68:65 :B0:21:6C:0E:5C:D7:19:0 8:9D:08:34:65	66:EA:E2:70:9B:54:CD:D1:69:31:77:B1:33 :2F:F0:36:CD:D0:F7:23:DB:30:39:ED:31:1 5:55:A6:CB:F5:FF:3E
3.3	CN=Camerfirma AAPP II - 2014, O=AC Camerfirma S.A., C=EU	CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., C=ES	1548D05 4B8A842 BA	rsaEncryption - 4096 bit	sha256WithRSA Encryption	Dec 16 13:59:01 2017 GMT	Dec 15 13:59:01 2037 GMT	5D:A1:55:A4:DC:4A:AC:83 :11:F9:AA:38:E5:F7:68:4 A:FE:15:15:4C	72:39:D2:F7:70:FA:FF:3B:1C:F8:BE:2A:05 :EC:03:ED:EA:AC:05:3B:55:4F:90:D3:69:2 1:15:5B:A8:05:19:81
3.4	CN=Camerfirma TSA - 2009, O=AC Camerfirma S.A., C=ES	CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., C=ES	05	rsaEncryption - 4096 bit	shalWithRSAEn cryption	March 16 19:45:26 2009 GMT	March 14 19:45:26 2019 GMT	0E:31:4D:5D:E9:E1:C2:5C :5B:BC:F5:2B:05:BA:AF:4 7:0D:16:AB:DC	4C:25:12:B5:DB:C0:D3:54:C7:21:42:50:B8 :25:6D:4B:FB:60:89:41:96:9B:8D:89:C4:2 1:50:21:E0:B2:B9:05
3.5	CN=Camerfirma TSA II - 2014, O=AC Camerfirma S.A., C=ES	CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., C=ES	25A454B C345512 38	rsaEncryption - 4096 bit	sha256WithRSA Encryption	Dec 16 16:45:33 2014 GMT	Dec 15 16:45:33 2037 GMT	17:C5:40:BC:2A:F8:45:B8 :AB:33:BF:F8:6F:49:6C:F 6:17:CA:B7:D4	65:69:5D:50:01:17:FD:72:70:F1:02:7E:D1 :21:F0:59:42:67:00:75:46:1D:33:7E:EE:C 7:F6:A5:B7:57:A4:7A

# Global Chambersign Root - 2008

CA#	Subject	Issuer	serialN umber	Кеу Туре	Sig Algorithm	notBefore	NotAfter	SKI	SHA256 Fingerprint
4	CN=Global Chambersign	CN=Global Chambersign	00C9CDD	rsaEncryption	shalWithRSAEn	Aug 01	July 31	B9:09:CA:9C:1E:DB:D3:6C	13:63:35:43:93:34:A7:69:80:16:A0:D3:24
	Root - 2008, O=AC	Root - 2008, O=AC	3E9D57D	- 4096 bit	cryption	14:31:40	14:31:40	:3A:6B:AE:ED:54:F1:5B:9	:DE:72:28:4E:07:9D:7B:52:20:BB:8F:BD:7
	Camerfirma S.A., C=ES	Camerfirma S.A., C=ES	23CE			2008 GMT	2038 GMT	3:06:35:2E:5E	4:78:16:EE:BE:BA:CA
4.1	CN=AC Camerfirma -	CN=Global Chambersign	02	rsaEncryption	shalWithRSAEn	March 16	March 11	C8:00:0F:FC:C6:52:FC:9F	B6:8D:5D:9B:4E:A6:35:95:7C:0C:32:15:C2
	2009, O=AC Camerfirma	Root - 2008, O=AC		- 4096 bit	cryption	19:16:25	19:16:25	:DB:3B:64:2E:32:B9:6E:2	:0D:35:B2:21:7B:69:E3:49:C7:A3:04:C4:F
	S.A., C=ES	Camerfirma S.A., C=ES				2009 GMT	2029 GMT	E:71:F3:65:79	9:7F:20:C4:08:1F:88
4.1.1	CN=RACER - 2009, O=AC	CN=AC Camerfirma -	03	rsaEncryption	shalWithRSAEn	March 25	March 23	AC:16:D7:10:D1:6F:75:F6	47:CF:DE:E3:76:09:72:5C:FF:03:7B:56:A0
	Camerfirma S.A., C=ES	2009, O=AC Camerfirma		- 4096 bit	cryption	12:47:09	12:47:09	:84:88:68:E6:44:25:11:7	:71:C4:3A:A0:58:69:A8:44:28:A5:D8:61:F
		S.A., C=ES				2009 GMT	2019 GMT	2:CA:B3:1B:80	F:92:B9:45:02:92:AA



Chambers of Commerce Root
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CA#	Subject	Issuer	serialN umber	Кеу Туре	Sig Algorithm	notBefore	NotAfter	SKI	SHA256 Fingerprint
5	CN = Chambers of Commerce Root, O=AC Camerfirma SA CIF A82743287, C=EU	CN = Chambers of Commerce Root, O=AC Camerfirma SA CIF A82743287, C=EU	00	rsaEncryption - 2048 bit	shalWithRSAEn cryption	Sep 30 18:13:43 2003 GMT	Sep 30 18:13:44 2037 GMT	E3:94:F5:B1:4D:E9:DB:A1 :29:5B:57:8B:4D:76:06:7 6:E1:D1:A2:8A	OC:25:8A:12:A5:67:4A:EF:25:F2:8B:A7:DC :FA:EC:EE:A3:48:E5:41:E6:F5:CC:4E:E6:3 B:71:B3:61:60:6A:C3
5.1	CN=AC Camerfirma Certificados Camerales, O=AC Camerfirma SA, C=ES	CN = Chambers of Commerce Root, O=AC Camerfirma SA CIF A82743287, C=EU	05	rsaEncryption - 2048 bit	shalWithRSAEn cryption	Feb 09 17:42:47 2004 GMT	Feb 09 17:42:47 2034 GMT	B6:1F:4E:9D:1C:68:91:2E :37:72:60:E1:46:8F:5A:A 5:2A:31:31:B9	C7:D8:43:81:E1:1F:7C:57:46:77:1A:F5:B0 :50:DC:51:FC:6F:DA:D6:F6:F3:5B:B5:3A:3 D:E9:13:82:2E:A0:9E
5.2	CN=AC Camerfirma Express Corporate Server v3, O=AC Camerfirma SA, C=ES	CN = Chambers of Commerce Root, O=AC Camerfirma SA CIF A82743287, C=EU	0A	rsaEncryption - 2048 bit	sha1WithRSAEn cryption	Jan 20 12:18:12 2009 GMT	Jan 18 12:18:12 2019 GMT	0A:4A:C0:CA:98:12:EF:97 :59:DD:F7:A4:AF:B0:14:A 4:39:AE:AE:4A	F3:A9:74:1B:86:72:38:87:5E:0A:3B:55:98 :A3:BC:91:1D:87:56:3A:C6:EA:47:CE:F8:5 0:32:FF:94:8B:EA:31
5.3	CN=AC CAMERFIRMA AAPP, O=AC Camerfirma SA, C=ES	CN = Chambers of Commerce Root, O=AC Camerfirma SA CIF A82743287, C=EU	0D	rsaEncryption - 2048 bit	shalWithRSAEn cryption	Feb 23 10:46:37 2010 GMT	Feb 20 10:46:37 2022 GMT	E5:46:50:E8:43:A0:B2:F7 :1C:E4:B6:FF:D8:00:04:2 0:F7:1F:A4:0B	83:90:E7:03:57:E9:B5:73:CA:3D:D2:9D:ED :DC:23:7E:CA:F9:36:78:2C:A3:38:9C:79:4 3:FB:C2:B7:FA:A0:B6
5.4	CN=AC Camerfirma TSA CA, O=AC Camerfirma SA, C=ES	CN = Chambers of Commerce Root, O=AC Camerfirma SA CIF A82743287, C=EU	12	rsaEncryption - 2048 bit	sha1WithRSAEn cryption	May 19 09:20:50 2005 GMT	May 20 09:20:50 2035 GMT	BF:FA:7E:AE:B9:9D:AA:65 :69:72:C6:32:16:8D:E0:1 0:2E:A5:9B:22	BE:A3:BC:AC:53:71:13:18:7D:05:BD:39:24 :40:8F:60:00:5D:85:08:DF:F4:83:28:BC:0 6:E7:9A:14:B8:E4:9A
5.5	CN=AC Camerfirma Codesign v2, O=AC Camerfirma SA, C=ES	CN = Chambers of Commerce Root, O=AC Camerfirma SA CIF A82743287, C=EU	0C	rsaEncryption - 2048 bit	shalWithRSAEn cryption	Jan 20 12:20:19 2009 GMT	Jan 18 12:20:19 2019 GMT	69:1A:94:72:A0:D1:96:FF :3D:56:2A:D8:FE:2B:47:1 8:15:9D:B0:EE	9B:C4:F1:71:FF:9A:A2:24:F0:0C:79:9E:80 :49:0E:31:01:0E:34:75:A0:8F:E6:4D:C9:A 9:C4:19:2E:B0:C0:B1

# Global Chambersign Root

CA#	Subject	Issuer	serialN umber	Кеу Туре	Sig Algorithm	notBefore	NotAfter	SKI	SHA256 Fingerprint
6	CN=Global Chambersign Root, O=AC Camerfirma SA CIF A82743287, C=EU	CN=Global Chambersign Root, O=AC Camerfirma SA CIF A82743287, C=EU	00	rsaEncryption - 2048 bit	sha1WithRSAEn cryption	Sep 30 18:14:18 2003 GMT	Sep 30 18:14:18 2037 GMT	43:9C:36:9F:B0:9E:30:4D :C6:CE:5F:AD:10:AB:E5:0 3:A5:FA:A9:14	EF:3C:B4:17:FC:8E:BF:6F:97:87:6C:9E:4E :CE:39:DE:1E:A5:FE:64:91:41:D1:02:8B:7 D:11:C0:B2:29:8C:ED
6.1	CN=AC Camerfirma, O=AC Camerfirma SA, C=ES	CN=Global Chambersign Root, O=AC Camerfirma SA CIF A82743287, C=EU	02	rsaEncryption - 2048 bit	shalWithRSAEn cryption	Nov 14 15:49:08 2003 GMT	Nov 14 15:49:08 2033 GMT	70:C1:95:FA:5D:A5:16:BE :62:E8:A4:7D:E3:D4:64:5 F:C4:E1:3E:9D	EF:3D:71:12:DD:3C:3C:46:A3:DC:4D:2E:01 :29:21:EA:D8:3E:FC:91:5C:A6:DE:3A:CE:7 2:F3:91:37:5B:F0:6A
6.1.1	CN=RACER, O=AC Camerfirma SA, C=ES	CN=AC Camerfirma, O=AC Camerfirma SA, C=ES	01	rsaEncryption - 2048 bit	shalWithRSAEn cryption	Dec 04 19:26:41 2003 GMT	Dec 04 19:26:41 2023 GMT	BE:BC:08:D4:2E:BA:00:4C :80:DC:26:67:B4:A5:D8:D D:C3:4A:1A:F9	F1:71:21:77:93:5D:BA:40:BD:BD:99:C5:F7 :53:31:9C:F6:29:35:49:B7:28:47:41:E4:3 9:16:AD:3B:FB:DD:75

#### MANAGEMENT ASSERTION REGARDING ITS BUSINESS PRACTICES AND CONTROLS OVER ITS CERTIFICATION AUTHORITY OPERATIONS DURING THE PERIOD FROM APRIL 14<sup>TH</sup>, 2017 THROUGH APRIL13<sup>TH</sup>, 2018

July 12<sup>th</sup>, 2018

The Certification Authority AC Camerfirma, S.A. (hereinafter Camerfirma) operates as a Root Certification Authority (CA) through the hierarchies "Chambers of Commerce Root" and "Global Chambersign Root" and its 2008 and 2016 updates, with their corresponding Subordinate Certification Authorities linked to the above and defined in Annex 1 of this assertion, that provide the following Certification Authorities services:

- Subscriber registration.
- Issuing of certificates.
- Renewal of certificates.
- Distribution of certificates.
- Suspension of certificates.
- Revocation of certificates.
- Processing of information on the status of Certificates (employing an online repository).
- Life cycle management of integrated circuit cards.

In order to provide the certification service, Camerfirma uses Registration Authorities for the identification of applicants for certificates, in agreement with the regulations of the Certification Practices Statement (CPS) and the agreement subscribed with Camerfirma.

The Management of Camerfirma is responsible for establishing and maintaining effective controls on the operations of the CA of Camerfirma, including the Statements of their Business Practices as a CA, Service Integrity (which includes the life cycle management controls for certificates and their keys) and CA Environmental Controls. These controls include monitoring mechanisms and actions are taken to rectify any issue found.

There are inherent limitations to certain controls, including the possibility of human error and the evasion or cancellation of controls. Consequently, even effective controls can only provide reasonable security regarding the operations of Camerfirma as a Certification Authority. In addition, due to changes in the conditions, the effectiveness of controls may vary from time to time.

The Management of Camerfirma has evaluated the controls on its operations as a CA with the root certification authority "Chambers of Commerce Root" and "Global Chambersign Root" and its 2008 and 2016 updates, and the Delegate Certification Authorities related to the above and defined in the Annex of this Manifestation. On the basis of this evaluation, in the opinion of the Management of Camerfirma, during the period between April 14<sup>th</sup> 2017 and April 13<sup>th</sup> 2018:

• It has announced its Business Practices regarding the management of the Life Cycle of the certificates and their keys, and its practices regarding the

confidentiality of information and provided such services in accordance with the practices expressed.

If no information is found on the PC or the PC itself, CPS always will be taken into account.

- Name: CPS\_eidas\_EN\_v\_1\_2\_3.pdf
- Link: <u>https://goo.gl/jzM81N</u>
- Version: 1.2.3
- Name: CPS\_EN\_v\_3\_3.pdf
- Link: https://goo.gl/qBmG3E
- Version: 3.3
  - PC\_Camerfirma\_For\_Legal\_Persons.pdf
  - Link: <u>https://goo.gl/fHGJBg</u>
  - Version: 1.0
  - PC\_Camerfirma\_CodeSign.pdf
  - Link: <u>https://goo.gl/BVPqdg</u>
  - Version 1.0.2
  - Name: PC\_Camerfirma\_For\_Natural\_Persons.pdf
  - Link: <u>https://goo.gl/KjkmND</u>
  - Version: 1.0
  - PC\_Chambers\_of\_Commerce\_Root\_1\_0\_1.pdf
  - Link: <u>https://goo.gl/7WG3T2</u>
  - Version: 1.0.1
  - PC\_CAM\_PF\_1\_1\_5.pdf
  - Link: <u>https://goo.gl/HnmmRx</u>
  - Version 1.1.5
  - PC\_Camerfirma\_Representante\_AAPP.pdf
  - Link: <u>https://goo.gl/pnGT25</u>
  - Version 1.0
  - PC\_CAM\_PR\_1\_1\_4.pdf
  - Link: <u>https://goo.gl/C5DCn9</u>
  - Version 1.1.4
  - PC\_CAM\_AP\_1.1.4.pdf
  - Link: <u>https://goo.gl/g2cqBc</u>
  - Version 1.1.4
  - PC\_CAM\_PJ\_1\_1\_5.pdf
  - Link: <u>https://goo.gl/tMvVNd</u>
  - Version: 1.1.5
  - PC\_CAM\_PFF\_1\_1\_4.pdf
  - Link: <u>https://goo.gl/eDS5Y7</u>
  - Version: 1.1.4
  - PC\_Global\_Chambersign\_Root\_1.0.pdf
  - Link: <u>https://goo.gl/FrrwpX</u>
  - Version: 1.0

- PC\_RACER\_1\_4\_1.pdf
- Link: <u>https://goo.gl/dWppSX</u>
- Version: 1.4.1
- PC\_Camerfirma\_For\_Websites.pdf
- Link: <u>https://goo.gl/GTBe36</u>
- Version 2.0
- PC\_Camerfirma\_Corporate\_Server\_1\_1\_1.pdf
- Link: <u>https://goo.gl/G42Amh</u>
- Version 1.1.1
- PC\_Camerfirma\_Corporate\_Server\_EV\_1\_0\_1.pdf
- Link: <u>https://goo.gl/tycnG3</u>
- Version 1.0.1
- It has maintained effective controls for providing reasonable guarantee that:
  - The information on the subscriber is properly authenticated (by the registration activities carried out by Camerfirma).
  - The integrity of the certificates and their keys is established and protected throughout their entire life cycles.
  - Information on subscribers and trusted parties is restricted to authorized personnel and is protected against uses not specified in the Camerfirma AC business practice statements.
  - Continuity in the certificate and key life cycle management operations is maintained; and
  - The tasks of operation, maintenance and development of the systems of the CA systems are suitably authorized and implemented in order to maintain the integrity thereof.

All the above is in accordance with the AICPA/CPA Canada Web Trust for Certification Authorities, including the following:

#### CA business practices disclosure

#### Service integrity

Key Life cycle Management Controls:

- CA Key Generation
- CA Key Storage, Backup and Recovery
- CA Public Key Distribution
- CA Key Usage
- CA Key Destruction
- CA Key Archival
- CA Cryptographic Hardware Life Cycle Management

#### Certificate Life Cycle Management Controls:

- Subscriber registration
- Certificate Rekey
- Certificate Issuance
- Certificate Distribution
- Certificate Revocation
- Certificate Status Information Processing

#### **CA Environmental Controls:**

- Certification Practice Statement and Certificate Policy Management
- Security Management
- Asset Classification and Management
- Personnel Security
- Physical and Environmental Security
- Operations Management
- System Access Management
- Systems Development and Maintenance
- Business Continuity Management
- Monitoring and Compliance
- Event Journaling

Alfonso Carcasona García Chief Executive Officer AC Camerfirma, S.A.

#### ANNEX I

#### STRUCTURE OF CERTIFICATION AUTHORITIES PROPERTY OF CA CAMERFIRMA S.A.

AC Camerfirma manages six hierarchical structures (Chambers of Commerce Root JCC, Global Chambersign Root JCS, Chambers of Commerce Root - 2008 JCC-2008, Global Chambersign Root - 2008 JCS-2008, CHAMBERS OF COMMERCE ROOT – 2016 JCC-2016, GLOBAL CHAMBERSIGN ROOT – 2016 JCS-2016).

#### a) Chambers of Commerce Root Hierarchy (ICC)

This hierarchy is designed to build a trusted network, where the RAs are managed by the Cámaras de Comercio, Industria y Navegación of Spain, with the primary objective of issuing digital certificates of corporate identity.



Intermediate Certification Authorities that form the hierarchy are:

#### a.1) Camerfirma Corporate Server

From the Root Entity (JCC) depends one intermediate Certification Authority called "Camerfirma Corporate Server" that issues two types of certificates:

- Secure server certificates for HTML pages (OV) 1.3.6.1.4.1.17326.10.11.2 and Corporate Server EV 1.3.6.1.4.1.17326.10.14.2 these digital certificates are issued to HTML pages servers with HTTPS protocol. In this case the issuance of certificates is governed by a policy of certification subject to the requirements of the "CA/Browser Forum".
- Electronic seal certificate for company (1.3.6.1.4.1.17326.10.11.3)

#### a.2) Code Signing 1.3.6.1.4.1.17326.10.12

#### a.3) Timestamps 1.3.6.1.4.1.17326.10.13

#### a.4) AC Camerfirma Certificados Camerales.

The final certificates are addressed to:

Company membership	1.3.6.1.4.1.17326.10.9.2
Representation.	1.3.6.1.4.1.17326.10.9.3
Special empowerment	1.3.6.1.4.1.17326.10.9.5
Legal Persons	1.3.6.1.4.1.17326.10.9.4
Electronic Invoice	1.3.6.1.4.1.17326.10.9.7
Encryption	1.3.6.1.4.1.17326.10.9.6

#### a.5) AC Camerfirma Public Administration.

Certificates issued under the Law 11/2007 of 22 June, of Acceso Electrónico de los Ciudadanos a los Servicios Públicos (LAECSP). It establishes in Chapter II, Title Second, the mechanisms to be applied by the Public Administrations for the identification and electronic signature based on electronic certificates.

The final certificates are addressed to:

Administrative electronic site, high level.	1.3.6.1.4.1.17326.1.3.2.1
Administrative electronic site, medium level.	1.3.6.1.4.1.17326.1.3.2.2
Electronic Seal for Automated Performance, high level.	1.3.6.1.4.1.17326.1.3.3.1
Electronic Seal for Automated Performance, medium level.	1.3.6.1.4.1.17326.1.3.3.2
Public Employee, high level, signature	1.3.6.1.4.1.17326.1.3.4.1
Public Employee, high level, authentication	1.3.6.1.4.1.17326.1.3.4.2
Public Employee, high level, encryption	1.3.6.1.4.1.17326.1.3.4.3
Public Employee, medium level	1.3.6.1.4.1.17326.1.3.4.4

### b) Chambersign Global ROOT Hierarchy (ICS)

This hierarchy is created for the issuance of certificates where the Registry Authorities do not belong to the scope of the Chambers of Commerce, or where the certification policies require that the certificates issued are business oriented.



#### b.1) AC Camerfirma (Spain).

The first intermediate certification authority corresponds to CA Camerfirma (Spain) whose function is to issue certificates in the Spanish regulatory framework.

**b.1.a) RACER** (Red de Alta Capilaridad de Entidades de Registro), whose main feature is that it can use any agent as a Registration Authority, as long as the RA has previously received the proper training and it has been audited to verify that the RA is able to apply properly the "obligations" stipulated in the relevant Certification Policies.

**RACER** is a general-purpose multi-policy AC not applied to any particular sector that issues end-entity certificates.

Legal Person of Linkage Certificate - belonging	1.3.6.1.4.1.17326.10.8.2

Legal Person of Linkage Certificate - representation	1.3.6.1.4.1.17326.10.8.3
Legal Person Certificate	1.3.6.1.4.1.17326.10.8.4
Electronic Seal Certificate	1.3.6.1.4.1.17326.10.8.5
Legal Person Certificate - Entrepreneur Citizen	1.3.6.1.4.1.17326.10.8.6
Legal Person Certificate - Linking Electronic Invoice.	1.3.6.1.4.1.17326.10.8.7
Legal Person Certificate - Linking Bonding Agent	1.3.6.1.4.1.17326.10.8.8
Legal Person Certificate - Encryption	1.3.6.1.4.1.17326.10.8.9

#### c) Chambers of Commerce Root – 2008 Hierarchy (JCC-2008)

This Hierarchy is identical to the **Chambers of Commerce Root Hierarchy (JCC)** and is intended to replace the latter.

#### d) Chambersign Global Root – 2008 Hierarchy (JCS-2008)

This hierarchy is created for the issuance of certificates where the Registry Authorities do not belong to the scope of the Chambers of Commerce, or where the certification policies require that the certificates issued are business oriented.



#### d.1) AC Camerfirma (Spain).

The first intermediate certification authority corresponds to AC Camerfirma (Spain) whose function is to issue certificates in the Spanish regulatory framework.

**d.1.a) RACER** (Red de Alta Capilaridad de Entidades de Registro), whose main feature is that it can use any agent as a Registration Authority, as long as the RA has previously received the proper training and it has been audited to verify that the RA is able to apply properly the "obligations" stipulated in the relevant Certification Policies.

**RACER** is a general-purpose multi-policy AC not applied to any particular sector that issues end-entity certificates.

l certificates are addressed to:	
Legal Person of Linkage Certificate - belonging	1.3.6.1.4.1.17326.10.8.2
Legal Person of Linkage Certificate - representation	1.3.6.1.4.1.17326.10.8.3
Legal Person Certificate	1.3.6.1.4.1.17326.10.8.4
Electronic Seal Certificate	1.3.6.1.4.1.17326.10.8.5
Legal Person Certificate - Entrepreneur Citizen	1.3.6.1.4.1.17326.10.8.6
Legal Person Certificate - Linking Electronic Invoice.	1.3.6.1.4.1.17326.10.8.7

Legal Person Certificate - Linking Bonding Agent	1.3.6.1.4.1.17326.10.8.8
Legal Person Certificate - Encryption	1.3.6.1.4.1.17326.10.8.9

### d.2.b) CA of Organización Médica Colegial

Out of scope.

#### **d.3) Entidad de Certificación de la Administración Pública Andorrana.** Out of scope.

**d.4) AC CAMERFIRMA PORTUGAL - 2015.** Out of scope.

### d.5) GLOBAL CORPORATE SERVER

Out of scope.

### e) CHAMBERS OF COMMERCE ROOT – 2016 Hierarchy (JCC-2016)

This hierarchy is designed to build a trusted network, where the RAs are managed by the Cámaras de Comercio, Industria y Navegación of Spain, with the primary objective of issuing digital certificates of corporate identity. This hierarchy is intended to replace the **JCC** and **JCC-2008** hierarchies.



Intermediate Certification Authorities that form the hierarchy are:

#### e.1) AC CAMERFIRMA FOR LEGAL PERSONS

From the Root Entity (JCC-2016) depends one intermediate Certification Authority called "**AC CAMERFIRMA FOR LEGAL PERSONS - 2016**".

#### The final certificates are addressed to:

Qualified Certificate of Electronic Seal in QSCD	1.3.6.1.4.1.17326.10.16.2.1.1
Qualified Certificate of Electronic Seal	1.3.6.1.4.1.17326.10.16.2.1.2
Electronic Seal Certificate	1.3.6.1.4.1.17326.10.16.2.3.2
Electronic Seal Certificate. High Level.	1.3.6.1.4.1.17326.10.16.2.2.1.3.3.1
Electronic Seal Certificate. Medium Level.	1.3.6.1.4.1.17326.10.16.2.2.1.4.3.1

#### e.2) AC CAMERFIRMA FOR NATURAL PERSONS

From the Root Entity (JCC-2016) depends one intermediate Certification Authority called "AC CAMERFIRMA FOR NATURAL PERSONS - 2016".

Qualified Citizen Certificate in QSCD	1.3.6.1.4.1.17326.10.16.1.1.1
Qualified Citizen Certificate	1.3.6.1.4.1.17326.10.16.1.1.2
Qualified Corporate Certificate in QSCD	1.3.6.1.4.1.17326.10.16.1.2.1
Qualified Corporate Certificate	1.3.6.1.4.1.17326.10.16.1.2.2
Qualified Certificate of Representative of Legal Person with General Representation Powers in QSCD	1.3.6.1.4.1.17326.10.16.1.3.1.1
Qualified Certificate of Representative of Legal Person with General Representation Powers	1.3.6.1.4.1.17326.10.16.1.3.1.2
Qualified Certificate of Representative of Entity	1.3.6.1.4.1.17326.10.16.1.3.1.1
Without Legal Personality with General Representation Powers in QSCD	
Qualified Certificate of Representative of Entity Without Legal Personality with General Representation Powers	1.3.6.1.4.1.17326.10.16.1.3.1.2
Qualified Certificate of Representative of Legal Person for Procedures with Public Authorities in QSCD	1.3.6.1.4.1.17326.10.16.1.3.2.1
Qualified Certificate of Representative of Legal Person for Procedures with Public Authorities	1.3.6.1.4.1.17326.10.16.1.3.2.2
Qualified Certificate of Representative of Entity Without Legal Personality for Procedures with Public Authorities in QSCD	1.3.6.1.4.1.17326.10.16.1.3.2.1
Qualified Certificate of Representative of Entity Without Legal Personality for Procedures with Public Authorities	1.3.6.1.4.1.17326.10.16.1.3.2.2
Qualified Certificate of Representative of Legal Person for Proxies in QSCD	1.3.6.1.4.1.17326.10.16.1.3.3.1
Qualified Certificate of Representative of Legal Person for Proxies	1.3.6.1.4.1.17326.10.16.1.3.3.2
Qualified Certificate of Representative of Entity Without Legal Personality for Proxies in QSCD	1.3.6.1.4.1.17326.10.16.1.3.3.1
Qualified Certificate of Representative of Entity Without Legal Personality for Proxies	1.3.6.1.4.1.17326.10.16.1.3.3.2
Qualified Certificate of Public Employee for Signature. High Level.	1.3.6.1.4.1.17326.10.16.1.5.1.3.4.1
Qualified Certificate of Public Employee for Authentication. High Level.	1.3.6.1.4.1.17326.10.16.1.5.1.3.4.2
Qualified Certificate of Public Employee for Encryption. High Level.	1.3.6.1.4.1.17326.10.16.1.5.1.3.4.3
Qualified Certificate of Public Employee. Medium Level.	1.3.6.1.4.1.17326.10.16.1.5.1.3.4.4
Qualified Certificate of Public Employee with	1.3.6.1.4.1.17326.10.16.1.5.1.3.4.1
Pseudonym for Signature. High Level.	
Qualified Certificate of Public Employee with	1.3.6.1.4.1.17326.10.16.1.5.1.3.4.2
Cualified Contificate of Dublic Encolories with	
Pseudonym for Encryption High Level	1.3.0.1.4.1.1/320.10.10.1.3.1.3.4.3
Oualified Certificate of Public Employee with	1.3.6.1.4.1.17326 10 16 1 5 1 3 4 4
Pseudonym. Medium Level.	

**e.3) AC CAMERFIRMA FOR WEBSITES** From the Root Entity (JCC-2016) depends one intermediate Certification Authority called "AC CAMERFIRMA FOR WEBSITES - 2016".

OV Website Certificate	1.3.6.1.4.1.17326.10.16.3.2.2
Qualified Certificate of EV Website	1.3.6.1.4.1.17326.10.16.3.4.2
Administrative Electronic Site. High Level. EV	1.3.6.1.4.1.17326.10.16.3.6.1.3.2.1
Administrative Electronic Site. Medium Level. EV	1.3.6.1.4.1.17326.10.16.3.6.1.3.2.2

#### e.4) AC CAMERFIRMA CODESIGN

From the Root Entity (JCC-2016) depends one intermediate Certification Authority called "**AC CAMERFIRMA CODESIGN - 2016**".

The final certificates are addressed to:

Code Signing Certitficate in QSCD	1.3.6.1.4.1.17326.10.16.4.1.1
Code Signing Certificate	1.3.6.1.4.1.17326.10.16.4.1.2
EV Code Signing Certitficate in QSCD	1.3.6.1.4.1.17326.10.16.4.2.1

#### e.5) AC CAMERFIRMA TSA

From the Root Entity (JCC-2016) depends one intermediate Certification Authority called "**AC CAMERFIRMA TSA - 2016**".

The final certificates are addressed to:

Qualified TSU Certificate in QSCD	1.3.6.1.4.1.17326.10.16.5.1.1
TSU Certificate	1.3.6.1.4.1.17326.10.16.5.1.2

**e.6) IVSIGN CA** Out of scope.

e.7) EC-OMC

Out of scope.

#### f) GLOBAL CHAMBERSIGN ROOT – 2016 Hierarchy (JCS-2016)



This hierarchy is designed to build a trusted network, where the RAs are managed by entities outside the scope of the Cámaras de Comercio, Industria y Navegación of Spain, with the primary objective of issuing digital certificates of corporate identity. This hierarchy is intended to replace the **JCS** and **JCS-2008** hierarchies.

Intermediate Certification Authorities that form the hierarchy are:

#### f.1) AC CAMERFIRMA GLOBAL FOR LEGAL PERSONS

From the Root Entity (JCS-2016) depends one intermediate Certification Authority called "AC CAMERFIRMA GLOBAL FOR LEGAL PERSONS - 2016".

The final certificates are addressed to:

Electronic Seal Certificate in QSCD	1.3.6.1.4.1.17326.20.16.1.2.1.1.1
Electronic Seal Certificate	1.3.6.1.4.1.17326.20.16.1.2.1.1.2

#### f.2) AC CAMERFIRMA GLOBAL FOR NATURAL PERSONS

From the Root Entity (JCS-2016) depends one intermediate Certification Authority called "**AC CAMERFIRMA GLOBAL FOR NATURAL PERSONS - 2016**".

The final certificates are addressed to:

Citizen Certificate in QSCD	1.3.6.1.4.1.17326.20.16.1.1.1.1
Citizen Certificate	1.3.6.1.4.1.17326.20.16.1.1.1.2
Corporate Certificate in QSCD	1.3.6.1.4.1.17326.20.16.1.1.2.1
Corporate Certificate	1.3.6.1.4.1.17326.20.16.1.1.2.2
Certificate of Representative of Legal Person in QSCD	1.3.6.1.4.1.17326.20.16.1.1.3.1.1
Certificate of Representative of Legal Person	1.3.6.1.4.1.17326.20.16.1.1.3.1.2
Certificate of Representative of Entity Without Legal Personality in	1.3.6.1.4.1.17326.20.16.1.1.3.2.1
QSCD	
Certificate of Representative of Entity Without Legal Personality	1.3.6.1.4.1.17326.20.16.1.1.3.1.2

#### f.3) AC CAMERFIRMA GLOBAL FOR WEBSITES

From the Root Entity (JCS-2016) depends one intermediate Certification Authority called "**AC CAMERFIRMA GLOBAL FOR WEBSITES - 2016**".

The final certificates are addressed to:

EV Website Certificate	1.3.6.1.4.1.17326.10.8.12.1.2
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#### f.4) AC CAMERFIRMA GLOBAL TSA

From the Root Entity (JCS-2016) depends one intermediate Certification Authority called "**AC CAMERFIRMA GLOBAL TSA - 2018**".

The final	certificates are addressed to:	
	GLOBAL TSU certificate	1.3.6.1.4.1.17326.20.16.1.3.1

#### f.5) AC CAMERFIRMA COLOMBIA

From the Root Entity (JCS-2016) depends one intermediate Certification Authority called "AC CAMERFIRMA COLOMBIA - 2016" and then "AC CITISEG – 2016".

The final certificates are addressed to:

Certificate for Academic Community	1.3.6.1.4.1.17326.20.1.1.2
Certificate for Public Function	1.3.6.1.4.1.17326.20.1.2.2
Certificate for Legal Person	1.3.6.1.4.1.17326.20.1.3.2
Certificate for Natural Person	1.3.6.1.4.1.17326.20.1.4.2
Corporate Certificate	1.3.6.1.4.1.17326.20.1.5.2
Certificate for Professional Title	1.3.6.1.4.1.17326.20.1.6.2
Certificate of Representative of Legal Person	1.3.6.1.4.1.17326.20.1.7.2

#### f.6) AC CAMERFIRMA PERÚ

From the Root Entity (JCS-2016) depends one intermediate Certification Authority called "AC CAMERFIRMA PERÚ - 2016" and then "AC CAMERFIRMA PERÚ CERTIFICADOS – 2016".

Corporate Certificate	1.3.6.1.4.1.17326.30.16.0.1
Certificate of Representative of Legal Person	1.3.6.1.4.1.17326.30.16.10.1
Certificate for Legal Person	1.3.6.1.4.1.17326.30.16.20.1
Certificate for Electronic Invoice	1.3.6.1.4.1.17326.30.16.30.1
Certificate for Natural Person	1.3.6.1.4.1.17326.30.16.40.1
Electronic Seal Certificate	1.3.6.1.4.1.17326.30.16.50.1