CableLabs® DIGITAL CERTIFICATE AUTHORIZATION AGREEMENT For Devices Built in Compliance with the DOCSIS® 3.0, 3.1 & Remote PHY Specifications

This Digital Certificate Authorization Agreement ("Agreement"), is made effective as of ______ (the "Effective Date"), by and between Cable Television Laboratories, Inc. ("CableLabs"), a Delaware non-stock membership corporation with offices at 858 Coal Creek Circle, Louisville, Colorado 80027-9750, PHONE: 303-661-9100; FAX: 303-661-9199 and the party identified below ("Manufacturer").

Manufacturer Organization Name: (Full Legal Name of Entity executing this Agreement)	Legal Contact:	
Main Corporate Headquarters Address: (city, state or province, postal code, country)	Title:	
(cog, since of provinces, prominently)	Phone:	
	Fax:	
	E-mail:	

CableLabs maintains and operates a secure Public Key Infrastructure (PKI) for issuing Digital Certificates for use in a cable network. Digital Certificates assist the cable operator in deterring theft of cable services, or unauthorized access to cable services, and help protect subscriber privacy. CableLabs Code Verification Certificates allow for secure download of Device code into Devices operating on a cable network. CableLabs hereby grants to Manufacturer the right to obtain and use the Digital Certificates Code Verification Certificates to sign Manufacturer's code for download into its Devices in accordance with the terms and conditions of this Agreement.

CableLabs hereby grants to Manufacturer the right to obtain and use the appropriate Digital Certificates in its Devices in accordance with the terms and conditions of this Agreement. Please check one of the following options:

DOCSIS 3.0 or earlier only (Complete Exhibits A, B and C)

DOCSIS 3.1 only (Complete Exhibits A, D and E)

(if you already have DOCSIS 3.0 or earlier device certificates)

DOCSIS 3.0 and 3.1 (Complete All Exhibits, A through E)

Remote PHY Device Certs (Complete Exhibits A, and D)

Remote PHY CVC (Complete Exhibits A, and E)

Remote PHY Server Certs (Complete Exhibits A, and F)

MANUFACTURER HAS READ AND AGREES TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT, INCLUDING THOSE TERMS CONTAINED ON THE FOLLOWING PAGES HEREOF.

In consideration of the mutual promises and covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties have entered into this Agreement as of the Effective Date.

CABLE TELEVISION LABORATORIES, INC.	MANUFACTURER NAME:
By:	By:
Name:	Name:
Title:	Title:
Date:	Date:

Agreement

1.0 Definitions

- 1.1. "Certificate Manager" means a service manager identified by CableLabs that manages certain aspects of the CableLabs PKI.
- 1.2. "Compliant" means that the Device is Certified or Qualified (as defined in the CableLabs' Certification Wave Guidelines) by the DOCSIS Certification Board; or the device, in CableLabs' ultimate determination, is constructed to the appropriate DOCSIS specification.
- 1.3. "CVC" means a code verification certificate that is signed by the DOCSIS Root CA for DOCSIS 3.0 and earlier Devices, signed by the CableLabs CVC CA for DOCSIS 3.1 Devices or signed by the Remote PHY CA, as is appropriate. A CVC is a type of Digital Certificate.
- 1.4. "Device" means a Manufacturer's Compliant product.
- 1.5. "Device Certificate" means a Digital Certificate installed in a Device to authenticate the Device to the cable network.
- 1.6. "Digital Certificate" means an electronic identification key that allows for the authentication of Devices on the cable network or, in the case of a CVC, ensures secure software downloads from a cable operator to a cable subscriber.
- 1.7. "CA" means a Certification Authority, which is hosted by a third party and is signed by the Root CA.
- 1.8. "Root CA" means the highest CA in the DOCSIS PKI and is the trust point for all certificates that are issued by the DOCSIS PKI.
- 1.9. "Public Key Infrastructure" (PKI) means the architecture, organization, techniques, practices, and procedures that collectively support the implementation and operation of a digital certificate-based public key cryptographic system.
- 1.10. "Wrongful Use" means Manufacturer has knowingly or with gross negligence embedded a Digital Certificate in any other product or application that is not Compliant.

2.0 Digital Certificate Authorization

2.1. Upon receipt of a complete and executed Agreement, payment of appropriate fees (see section 5.0), the Manufacturer's information (see Exhibit A), the Naming Documents (see Exhibit B, C, D, E, & F), a Certificate Signing Request (CSR) file in PKCS#10 format (for Exhibit C & E), and verification of Manufacturer's identity for security purposes, CableLabs will authorize Manufacturer to receive Digital Certificates.

3.0 Use of Digital Certificates and Request/Receipt of Certificates

- 3.1. **Embedding of Digital Certificates.** Manufacturer shall not embed the Digital Certificates in any Device that is not Compliant or that is associated with a private key that Manufacturer knows or should have known was stolen, intercepted or otherwise compromised in any way.
- 3.2. **Security of Digital Certificate Private Keys.** Manufacturer shall safeguard the Digital Certificates and associated private keys to ensure that the private keys are not lost, stolen, embedded in a product other than a Device, or otherwise used in a manner that may compromise, or actually does compromise, the CableLabs PKI, as CableLabs may determine in its sole discretion.
- 3.3. Manufacturer is solely liable for all code signed with the Manufacturer's CVC. Manufacturer is responsible to ensure that the code signed with the Manufacturer's CVC works appropriately, does not cause harm to those who rely upon the code, that the code operations are lawful, and that the code does not infringe intellectual property rights. Manufacturer shall ensure that its CVC shall only be used to sign its own Device code.

- 3.4. **Automated Request/Receipt of Digital Certificates.** Within thirty (30) days after receipt of the Annual Maintenance Fee, CableLabs shall cause the Certificate Manager to activate a Manufacturer account for securely obtaining Digital Certificates in an automated fashion.
- 3.5. No Other Rights. CableLabs retains all right, title, and interest in and to CableLabs' Root CAs and CableLabs' Intermediate CAs and any associated trade secrets or other proprietary information associated therewith that is provided by CableLabs to Manufacturer herein. CableLabs grants no rights in any trademark, trade name, service mark, business name or goodwill in the trademarks "CableLabs" or "DOCSIS".

4.0 <u>Term and Termination</u>

- 4.1. **Term**. The term of this Agreement shall begin on the Effective Date and shall continue until terminated earlier under the provisions of this Section.
- 4.2. **Termination by Manufacturer.** Manufacturer may terminate this Agreement, with or without cause, by giving CableLabs sixty days written notice of such termination.
- 4.3. **Termination by CableLabs.** CableLabs may terminate this Agreement for material breach of this Agreement by Manufacturer, where such breach is not cured within sixty days of notice to Manufacturer; or, where such breach is incapable of cure at the time of the material breach. Examples of breach include, but are not limited to: Manufacturer's Device Certificate private keys have been lost, stolen, intercepted or otherwise compromised in any way, a court or governmental agency orders CableLabs to revoke Manufacturer authorization, or a series of non-material breaches of this Agreement by Manufacturer.
- 4.4. **Termination for Wrongful Use.** If this Agreement is terminated due to Wrongful Use, in addition to revoking CableLabs' authorization for Manufacturer to receive Digital Certificates, CableLabs shall receive all revenue Manufacturer receives from Wrongful Use. CableLabs' receipt of revenue from Wrongful Use is in addition to any damages CableLabs is entitled to receive by law.
- 4.5. Effect of Agreement Termination or Certificate Revocation. If this Agreement is terminated, or Digital Certificates are revoked, Manufacturer shall discontinue using such Digital Certificate(s) and cease embedding or otherwise using such Digital Certificate(s) in any or all affected Device(s). Manufacturer shall keep secret or destroy any unused or revoked Digital Certificates and any associated private keys, and take such other action as is reasonably directed by CableLabs. Notwithstanding any termination of this Agreement, un-revoked Digital Certificate(s) used in Device(s) that are no longer under the control of Manufacturer shall be valid until the expiration of their validity period as stated in the DOCSIS or Remote PHY specifications.

5.0 <u>Fees</u>

- 5.1. **Fees.** Manufacturer shall pay to CableLabs in advance. (Please contact CableLabs at Security@CableLabs.com for fee information). CableLabs may, upon thirty (30) days' prior notice, modify the Fees.
- 5.2. **Applicable Taxes**. CableLabs is exempt from income tax in the United States under Section 501(c)(6) of the Internal Revenue Code. The Fees paid by Manufacturer hereunder are exclusive of, and Manufacturer shall pay, all sales, use, value added, excise, income tax, withholding tax, and any and all other taxes (other than income taxes) or other costs or fees that may be levied upon either party by taxing authorities other than the United States in connection with this Agreement (except for taxes based on CableLabs' employees) and shall pay all income taxes that may be levied upon Manufacturer.

6.0 Warranty, Indemnity, Limitation of Liability

6.1. **Indemnification**. Manufacturer shall indemnify and hold harmless CableLabs, its members, directors, employees, and agents (including the entity that holds the Root Certificates and the CA Certificates that issue the CVCs and Device Certificates), for any claim arising from or related to Manufacturer's use and implementation of the Digital Certificates, including, without limitation, Wrongful Use. Such

- indemnification obligations shall be subject to: (i) CableLabs notifying Manufacturer, in writing of any such claim and (ii) Manufacturer having the sole control of the defense and all negotiations for any settlement or compromise of such claim, provided, however, that CableLabs may participate in such defense using counsel of its own choice and at its sole expense.
- 6.2. **Disclaimer of Warranties. TO THE MAXIMUM EXTENT PERMITTED BY LAW:** THE DIGITAL CERTIFICATES, USE OF WHICH IS AUTHORIZED HEREUNDER, ARE PROVIDED "AS IS" AND CABLELABS DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, FOR THE DIGITAL CERTIFICATES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, ACCURACY, SECURITY, OR NON-INFRINGEMENT.
- 6.3. Limitation of Liability. TO THE MAXIMUM EXTENT PERMITTED BY LAW: WITH THE EXCEPTION OF MANUFACTURER'S "WRONGFUL USE", IN NO EVENT WILL EITHER PARTY BE LIABLE UNDER THIS AGREEMENT FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL, OR PUNITIVE DAMAGES INCLUDING, WITHOUT LIMITATION, DAMAGES WHICH REFLECT LOST BUSINESS, PROFITS OR REVENUE OBTAINED OR LOST, OR THE COSTS OF RECONSTRUCTING DATA OR REBUILDING DEVICES, WHETHER DAMAGES OF THIS NATURE WERE FORESEEABLE OR NOT, AND EVEN IF THAT PARTY HAD BEEN ADVISED THAT DAMAGES OF THIS NATURE WERE POSSIBLE. IN NO EVENT SHALL EITHER PARTY BE LIABLE UNDER THIS AGREEMENT TO THE OTHER PARTY FOR ANY AMOUNT EXCEEDING THE FEES ACTUALLY RECEIVED BY CABLELABS FROM MANUFACTURER.
- 6.4. Manufacturer Liability for Manufacturer Supplied Information. Manufacturer is solely liable for the resulting Digital Certificates created from the information Manufacturer provides in the exhibits attached hereto and incorporated by this reference. Failure to completely and correctly complete the attached exhibits will result in incorrect Digital Certificates.

7.0 General

- 7.1. **Notices**. Any notices, required or permitted to be made or given to either party pursuant to this Agreement shall be in writing and shall be delivered to the address set forth on the first page, or to such other address as the receiving party may have designated by written notice given to the other party. Legal notices shall be sent to the person listed as the Legal Contact. Technical notices shall be sent to the name listed as the Technical Contact.
- 7.2. **Export**. Manufacturer shall not export or re-export (directly or, knowingly indirectly) any Digital Certificates, documentation, or other technical data without complying with the U.S. Export Administration Act and the associated regulations.
- 7.3. Audit. CableLabs or its duly authorized representatives shall be permitted, upon reasonable notice, and subject to appropriate non-disclosure terms, to inspect all records pertaining to the Digital Certificates, including, without limitation, records related or pertaining to the security, usage, and distribution of the Digital Certificates. The inspections may be made notwithstanding termination of this Agreement while any outstanding claim remains unsettled in the view of either party. In the event CableLabs needs to conduct an audit due to a discrepancy discovered in a prior audit, CableLabs may charge Manufacturer for reasonable airfare, meals and lodging for such subsequent audit.
- 7.4. **Irreparable Harm**. Manufacturer acknowledges and agrees that due to the unique and sensitive nature of the use of the Digital Certificates authorized hereunder, including any private keys therein, there can be no adequate remedy at law for breach of Manufacturer's obligations hereunder, that such breach or unauthorized use or release of the Digital Certificates will cause material damage and result in irreparable harm. Therefore, upon any such breach or any threat thereof, CableLabs shall be entitled to appropriate equitable relief in addition to whatever remedies it might have at law.
- 7.5. **Amendments**. No amendment or modification hereof shall be valid or binding upon the parties unless made in writing and signed by both parties hereto.

- 7.6. **Waiver**. Any waiver by either party hereto of any breach of this Agreement shall not constitute a waiver of any subsequent or other breach.
- 7.7. **Survival**. Sections 1, 3.1, 3.2, 3.3,4.4, 4.5, 6, 7.3, 7.7, 7.9, 7.10, and 7.11 shall survive any termination of the Agreement.
- 7.8. **Assignment**. Manufacturer may not assign this Agreement without the express, prior written approval of CableLabs.
- 7.9. **Entire Agreement.** This Agreement embodies the entire understanding of the parties with respect to the subject matter hereof and merges all prior discussions between them, and neither of the parties shall be bound by any conditions, definitions, warranties, understandings or representations with respect to the subject matter hereof other than as expressly provided herein.
- 7.10. **Severability.** If any provision of this Agreement shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not be in any way affected or impaired thereby.
- 7.11. **Governing Law; Forum.** This Agreement shall be construed in accordance with the law of the state of Colorado, without regard to its conflict of laws rules. The parties here by agree to exclusive jurisdiction and venue in the federal/state courts located in the city and county of Denver, Colorado.

Date:	

EXHIBIT A MANUFACTURER INFORMATION

NOTE: PLEASE COMPLETE ALL FIELDS ACCURATELY WITH THE APPROPRIATE NAMES AND OTHER INFORMATION

Notes:

- 1) Fields marked with (*) are compulsory for the specified section.
- 2) When entering phone or fax numbers ensure that you include country and area codes.
- 3) Organization name is a compulsory field and MUST be the legally registered business name.
 - a. Use of special characters such as () & * % \$ # @ ! + = ^ is not permitted.

CORPORATE INFORMATION:	
Manufacturer Organization Name*: (Full Legal Name or Registered Trade Name)	
Legal Headquarters Address*: (city, state or province, postal code, country)	
D-U-N-S Number:	
	the Authentication process. If you do not know your company's b.com. Note: The Legal Company Name and Corporate Address the D-U-N-S Database.
MANUFACTURER'S CORPORATE CONTACT	Γ:
	his service and is responsible for the device manufacturing system acts including administrators who will request Certificates from egarding issues or events occurring with this service.
First Name*:	Last Name*:
Title*:	E-mail*:
Phone*:	Fax:
PRIMARY ADMINISTRATOR CONTACT: This is the person who is authorized to request and received Same as the Corporate Contact? YES	e certificates.
First Name*:	Last Name*:
Title*:	E-mail*:
Phone*:	Fax:
Address*:	City and State*:
Zip/Postal Code*:	Country*:

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^{*} The manufacturer's company name in the Cable Modem device certificate must match the company name in the CVC.

^{**} The NotAfter date may vary plus or minus a few days.

SECOND ADMINISTRATOR CONTACT:

This person is authorized to back-up the primary administrator contact. This person is also authorized to request and receive certificates.

First Name*:	Last Name*:
Title*:	E-mail*:
Phone*:	Fax:
Address*:	City and State*:
Zip/Postal Code*:	Country*:

MANUFACTURER'S TECHNICAL CONTACT

This is a technical contact, typically in development engineering, authorized to discuss technical issues related to the DOCSIS PKI with CableLabs.

First Name*:	Last Name*:
Title*:	E-mail*:
Phone*:	Fax:

MANUFACTURER'S LEGAL CONTACT

This person will receive a copy of any contractual related notices.

First Name*:	Last Name*:
Title*:	E-mail*:
Phone*:	Fax:
Address*:	City and State*:
Zip/Postal Code*:	Country*:

MANUFACTURER'S BILLING CONTACT:

This is the person responsible for payment and notifying CableLabs of any billing changes, for example an accounts payable representative.

First Name*:	Last Name*:
Title*:	E-mail*:
Phone*:	Fax:
Address*:	City and State*:
Zip/Postal Code*:	Country*:

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^{*} The manufacturer's company name in the Cable Modem device certificate must match the company name in the CVC.

EXHIBIT B

DOCSIS® CABLE MODEM DEVICE CERTIFICATE NAMING APPLICATION

(for use with DOCSIS 3.0 and earlier devices)

NAMING DOCUMENT FOR END-ENTITY DEVICE CERTIFICATES

Please complete the Requestor Information section and the Subject DN of the Certificate Format.

Ren	mestor	Informa	tion:
1/64	ucsivi	11111011116	เนบม.

requestor informatio	/11•					
Manufacturer Organia	zation Nam	e:				
Contact Name:	et Name: Phone:					
Contact E-mail:						
Certificate Format:						
To Be Completed by	Manufactı	ırer				
Base Certificate						
Subject DN	c=					
	o=					
	ou=					
	cn=	<(MAC A	Address (to l	be entered via the accoun	t requesting portal)>	
E C-bl-I -b1 C	74 II O	1				
For CableLabs and C	A Use On	Ť				
Version Serial number		v3	Dogitivo Inte	acon assistant has the CA		
		_	Positive inte	eger assigned by the CA		
Issuer DN	c=US					
		o=CableLabs ou=DOCSIS				
		ou=DCSIS ou=D CA00003				
		cn=CableLabs Cable Modem Certificate Authority			hority	
notBefore				Key Ceremony Date)		
notAfter			1235959Z (2			
Public Key Algorithm				ption (1 2 840 113549 1	15)	
Keysize		1024-bit	•	1	,	
Parameters		NULL				
Standard Extensions	OID	Include	Criticality	Value		
keyUsage	{id-ce 15}		FALSE	n/a		
digitalSignature	,			Set		
keyEncipherment				Set		
authorityKeyIdentifier	{id-ce 35}	X	FALSE	Calculated per Method 1		
keyIdentifier				<same as="" subjectkeyide<="" td=""><td>ntifier in CA certificate></td></same>	ntifier in CA certificate>	
as noted above.	-			·	evice Certificates to the extension	
Approved by Custome	rs recnnic	aı or Adn	ıırııstrator C	ontact	Date	

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^{*} The manufacturer's company name in the Cable Modem device certificate must match the company name in the CVC.

^{**} The NotAfter date may vary plus or minus a few days.

EXHIBIT C

DOCSIS MANUFACTURER (SIGNER) CVC NAMING APPLICATION

(for use with DOCSIS 3.0 and earlier devices)

C4:6:4-4-:	DOCCIC Mon	footswar (Ciaran) CVC		
Certificate to issue:		ufacturer (Signer) CVC		
Date of this application	1:			
Company name:				
Contact name:				
Contact phone:				
Contact e-mail:				
Certificate Format and	Extensions:			
Base Certificate	Value			
Version	2			
Serial Number	Integer			
Issuer DN	c= US			
		er Cable Services Interfa	ce Specifications	
	ou= Cable M			
Subject DN		Cable Modem Root Cer	rtificate Authority	
Subject DN	c= o=			
	ou= DOCSIS			
		rification Certificate		
notBefore		000000Z (Key Ceremon	v Date)	
notAfter		235959Z (10 years)	,	
Public Key Algorithm	sha1with	RSAEncryption (1 2 84	0 113549 1 1 5)	
Keysize	2048-bit			
Parameters	NULL			
Standard Extensions	OID	Include	Criticality	Value
extendedKeyUsage	{id-ce 37}	X	TRUE	n/a
id-kp-codeSigning				1.3.6.1.5.5.7.3.3
*The manufacturer's cocertificate. By signing this documentabove.				
Approved by Customer			Da	ate

Important! Please send your CSR (PKCS# 10) file to: security@cablelabs.com.

^{*} The manufacturer's company name in the Cable Modem device certificate must match the company name in the CVC.

^{**} The NotAfter date may vary plus or minus a few days.

EXHIBIT D

DEVICE CERTIFICATE NAMING APPLICATION

(for use with DOCSIS 3.1 & Remote PHY devices)

NAMING DOCUMENT FOR END-ENTITY DEVICE CERTIFICATES

Requestor Information:

Company Name:

Please complete the <u>Requestor Information</u> section and the Subject DN of the <u>Certificate Format</u>. Failure to complete these sections will result in delay.

Contact Name:		Phone:				
Contact E-mail:						
Certificate Format:						
To Be Completed by 1	Manufact	urer				
Base Certificate						
Subject DN	c=					
	o=					
	ou=					
	cn=	<(MAC A	Address (to	be entered via the accoun	t requesting portal)>	
E C-11-I -1 1 C	14 II O	1				
For CableLabs and C Version	A Use Un	v3				
Serial number			Docitivo Inte	eger assigned by the CA		
Issuer DN		c=US	1 OSILIVE IIIU	eger assigned by the CA		
Issuer DN			J obc			
	o=CableLabs ou=Device CA01					
		cn=CableLabs Device Certificate Authority				
notBefore		_	yymmdd000000Z (Key Ceremony Date)			
notAfter			yymmdd235959Z (20 years**)			
Public Key Algorithm				cryption (1 2 840 113549	1 1 11)	
Keysize		2048-bit		J1 (,	
Parameters		NULL				
Standard Extensions	OID	Include	Criticality	Value		
keyUsage	{id-ce 15}	X	TRUE			
digitalSignature				Set		
keyEncipherment				Set		
authorityKeyIdentifier	{id-ce 35}	X	FALSE			
keyIdentifier		Calculated per Method 1				
By signing this docum as noted above.	ent you ar	e hereby a	authorizing	CableLabs to set your Do	evice Certificates to the extension	
Approved by Custome	r				Date	

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DOCSIS Digital Certificate Authorization Agreement

^{*} The manufacturer's company name in the Cable Modem device certificate must match the company name in the CVC.

^{**} The NotAfter date may vary plus or minus a few days.

EXHIBIT E

CVC NAMING APPLICATION

(for DOCSIS 3.1/Remote PHY)

Requestor Informatio	n:				
Organization Name:					
Date of Application:				Phone:	
Contact Name:					Email:
Certificate Format:					
To Be Completed by	Subscribe	r			
Subject DN c=					
	cn=	Coc	le Verification	on Certific	cate
For CableLabs and C	CA Use On				
Version		v3			
Serial number		_	Positive Int	eger assig	gned by the CA
Issuer DN		c=US			
		o=Cab			
			C CA01		
					ation Authority
notBefore			dd000000Z (•
notAfter			ld235959Z (
Public Key Algorithm				ncryption ((1 2 840 113549 1 1 11)
Keysize		2048-b	its		
Parameters		NULL			
Standard Extensions OID		Includ	e Criticality	Value	
extKeyUsage	{id-ce 37}	X	TRUE		
codeSigning				Set	
authorityKeyIdentifier	{id-ce 35}	X	FALSE		
keyIdentifier				Calculate	ed per Method 1
certificate.					abs to set your CVC to the extensions as not
Approved by Custome	er				Date

Important! Please send your CSR (PKCS# 10) file to: security@cablelabs.com.

^{*} The manufacturer's company name in the Cable Modem device certificate must match the company name in the CVC.

^{**} The NotAfter date may vary plus or minus a few days.

EXHIBIT F

CableLabs Remote PHY SERVER CERTIFICATE NAMING APPLICATION

Requestor Name: Requestor E-mail: Date of Application: Certificate Format: To Be Completed by Subscriber Subject DN — CSR file must c= contain all of this information Version Serial number Unique Positive Integer assigned by the CA Issuer DN C=US O=CableLabs O=Cable	tificate Format: te Completed by Subscriber eet DN - CSR file must c=	Organization Name:				
To Be Completed by Subscriber Subject DN - CSR file must contain all of this information Cene Contain all of this information Cene Contain all of this information Cene Contain all of this information Contain all of this inform	ificate Format: ise Completed by Subscriber eet DN - CSR file must c= mation cn=	Requestor Name:			Phone:	
Subject DN - CSR file must c=	tect DN - CSR file must capable content of this mation CableLabs and CA Use Only tion v3 In number Unique Positive Integer assigned by the CA or DN cableLabs ou Service Provider CA01 cna CableLabs Service Provider Certification Authority efore yymmdd000000Z (Key Ceremony Date) fiter yymmdd235959Z (5 years) ic Key Algorithm Sha256WithRSAEncryption (1 2 840 113549 1 1 11) fize 2048-bits meters NULL dard Extensions OID Include Criticality Value [Sage {id-ce 15} X TRUE] talSignature Set DrityKeyldentifier {id-ce 35} X FALSE [Identifier CatchlName] talCond True Calculated per Method 1 Calculated per Method 1 Calculated per Method 1 Calculated per Method 1	Requestor E-mail:			Date of Application:	
Subject DN – CSR file must c= contain all of this information For CableLabs and CA Use Only Version Serial number Unique Positive Integer assigned by the CA Issuer DN c=US o=CableLabs ou= Service Provider CA01 cn= CableLabs Service Provider Certification Authority notBefore notAfter yymmdd000000Z (Key Ceremony Date) yymmdd235959Z (5 years) Public Key Algorithm Keysize Parameters NULL Standard Extensions OID Include Criticality Value keyUsage digitalSignature keyEncipherment authorityKeyIdentifier subjectAltName {id-ce 17} X FALSE Calculated per Method 1 Set	cableLabs and CA Use Only ion v3 I number Unique Positive Integer assigned by the CA or DN c=US o=CableLabs ou=Service Provider CA01 cn= CableLabs Service Provider Certification Authority efore yymmdd000000Z (Key Ceremony Date) fter yymmdd235959Z (5 years) ic Key Algorithm Sha256WithRSAEncryption (1 2 840 113549 1 1 11) izize 2048-bits meters NULL dard Extensions OID Include Criticality Value Isage {id-ce 15}	Certificate Format:				
contain all of information Cn =	CableLabs and CA Use Only ion v3 Inumber Unique Positive Integer assigned by the CA or DN c=US o=CableLabs o=Cable	To Be Completed by	Subscriber	•		
For CableLabs and CA Use Only Version Serial number Unique Positive Integer assigned by the CA Issuer DN c=US o=CableLabs ou= Service Provider CA01 cn= CableLabs Service Provider Certification Authority notBefore notAfter yymmdd0000002 (Key Ceremony Date) notAfter yymmdd235959Z (5 years) Public Key Algorithm Sha256WithRSAEncryption (1 2 840 113549 1 1 11) Keysize Parameters NULL Standard Extensions OID Include Criticality Value keyUsage {id-ce 15} X TRUE digitalSignature keyEncipherment authorityKeyIdentifier {id-ce 35} X FALSE keyIdentifier subjectAltName {id-ce 17} X FALSE Calculated per Method 1 Service Provider CA01 cr= CableLabs ou= Service Provider Certification Authority Calculated per Method 1	CableLabs and CA Use Only ion v3 I number Unique Positive Integer assigned by the CA or DN c=US o=CableLabs ou= Service Provider CA01 cn= CableLabs Service Provider Certification Authority efore yymmdd0000002 (Key Ceremony Date) fiter yymmdd235959Z (5 years) fite Key Algorithm Sha256WithRSAEncryption (1 2 840 113549 1 1 11) fize 2048-bits meters NULL dard Extensions OID Include Criticality Value Isage {id-ce 15} X TRUE ItalSignature Set Encipherment Set Encipherment Set Identifier (id-ce 35) X FALSE Identifier Calculated per Method 1 ExtAltName {id-ce 17} X FALSE					
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DOCSIS Digital Certificate Authorization Agreement

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^{*} The manufacturer's company name in the Cable Modem device certificate must match the company name in the CVC.

^{**} The NotAfter date may vary plus or minus a few days.