

# CableLabs' Process for UDCP Developers: Getting Started

PHASE I - DEVELOPMENT PHASE - HOW DO I GET DFAST TECHNOLOGY?	
<p>A) Manufacturer, including OEM, signs the DFAST Technology License Agreement For Unidirectional Digital Cable Products  <a href="http://www.cablelabs.com/opencable/udcp/downloads/DFAST_Tech_License.pdf">http://www.cablelabs.com/opencable/udcp/downloads/DFAST_Tech_License.pdf</a>. Please Fax this completed agreement to the attention of Legal at 303-661-3800, or you can scan it in and e-mail it to <a href="mailto:legal-agreements@cablelabs.com">legal-agreements@cablelabs.com</a>. It is not necessary to provide CableLabs with your PGP key at this time.</p>	<p>CableLabs will provide an invoice for the \$5000 fee, upon receiving your signed DFAST license.</p> <p>Refer to the Important Note at the end of this "Getting Started" document if you are an Original Equipment Manufacturer (OEM).</p>
<p>B) Manufacturer, including OEM, submits one-time fee (\$5000) to CableLabs. Manufacturers who previously paid the fee under the PHILA are not required to submit a second payment under the DFAST Technology License.</p>	<p>Within about 5 business days of receiving your payment, CableLabs will ship a CD-ROM containing <i>evaluation</i> DFAST secrets and one <i>evaluation</i> X.509 certificate to be used by manufacturer, including OEM, for product development purposes. The CD also contains a sample implementation and technical descriptions.</p>
<p>C) Manufacturer, including OEM, independently develops the UDCP product. A few resources for test tools and development support may be found on <a href="http://www.cablelabs.com/opencable/support_and_security.html">http://www.cablelabs.com/opencable/support_and_security.html</a> under the "Developer and Testing Support" link.</p>	<p>Be sure to follow the DFAST Robustness Rules in your product design. The optional checklist may be downloaded at: <a href="http://www.cablelabs.com/opencable/udcp/downloads/Robustness_Checklist.pdf">http://www.cablelabs.com/opencable/udcp/downloads/Robustness_Checklist.pdf</a>.</p>
<p>D) Manufacturer, including OEM, may also visit CableLabs during their development cycle under the CableLabs Development Support Lab Use program.</p>	<p>Refer to: <a href="http://www.cablelabs.com/cablemodem/downloads/DevLab_Guidelines.pdf">http://www.cablelabs.com/cablemodem/downloads/DevLab_Guidelines.pdf</a>.</p>
PHASE II - PREPARING FOR PRODUCT VERIFICATION TESTING	
<p>A) UDCP devices may be submitted at any time and do not need to follow the regular wave schedule.</p>	<p>The Fee Schedule is here: <a href="http://www.cablelabs.com/opencable/udcp/downloads/Fees.pdf">http://www.cablelabs.com/opencable/udcp/downloads/Fees.pdf</a></p>
<p>B) Advise CableLabs of your expected date to participate in a test wave by providing submission information via the web-form: <a href="https://www.cablelabs.com/certwave/login.php">https://www.cablelabs.com/certwave/login.php</a></p>	<p>To request a manufacturer login/password to access the web-based application, please contact <a href="mailto:se-mail@cablelabs.com">se-mail@cablelabs.com</a>.</p> <p>Manufacture will be invoiced for the Verification Testing Fee.</p>
<p>C) If you are submitting your product for Practice Run testing only, you can submit product anytime. Payment is due the day you submit product for Practice Run testing. For Practice Runs only, it is not necessary to complete steps D through H below. For full Verification Testing, you <i>must</i> complete steps D through H below.</p>	<p>Products submitted for a Practice Run are not required to have <i>production</i> DFAST secrets or <i>production</i> digital certificates. At manufacturer's or OEM's option, Practice Run products may include the <i>evaluation</i> DFAST secrets and X.509 certificate provided by CableLabs in steps A and B of Phase I above. Manufacturers, including OEMs, choosing this method of Practice Run testing can skip steps D through H below.</p>
<p>D) At least 4 weeks (but not more than 10 weeks) ahead of the Test Wave, Manufacturer must sign and return the "Activation Notice" under its DFAST license (Exhibit D in the DFAST Technology license), <i>and send us your PGP key</i>.</p>	<p>CableLabs will use your PGP key to encrypt the production DFAST secrets on a CD-ROM, which will be shipped to you within about 5 business days of receiving your Activation Notice and PGP key.</p>

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<p>E) Manufacturer signs Agreement for Manufacturer Receipt of Digital Certificates Under DFAST License (<a href="http://www.cablelabs.com/opencable/udcp/downloads/DFAST_License.pdf">http://www.cablelabs.com/opencable/udcp/downloads/DFAST_License.pdf</a>). Please Fax this completed agreement to the attention of Security Group at 303-664-8131, or you can scan it in and e-mail it to <a href="mailto:t.gratz@cablelabs.com">t.gratz@cablelabs.com</a>. The completed agreement that is sent to us should include Enclosure D.</p>	<p>At least four weeks (but not more than ten weeks) prior to the start of the Test Wave in which manufacturer intends to submit product(s), Manufacturer must sign the Agreement For Manufacturer Receipt Of Digital Certificates Under DFAST License ("DFAST Certificate Agreement").</p> <p>Manufacturer's executed DFAST Certificate Agreement <i>must</i> include an accurate and complete "Device Certificate Naming Application" (included as an exhibit in the agreement). <b>INCOMPLETE OR INACCURATE DOCUMENTATION OR INFORMATION WILL RESULT IN DELAY AND MAY CAUSE MANUFACTURER TO MISS THE TEST WAVE INTENDED.</b></p>
<p>F) Manufacturer submits P.O. to CableLabs for initial annual maintenance fee (\$20,000), At this time you can also send your initial order of digital certificates (\$0.07 each; minimum order quantity = 10,000 certificates). The account will come preloaded with 100 certificates. Additional certificates will be loaded once verification has been achieved.</p>	<p>CableLabs will provide an invoice once a P.O. is received</p>
<p>G) Manufacturer must submit full payment for the initial annual maintenance fee to CableLabs (\$20,000) in order to obtain <i>production</i> X.509 digital certificates.</p>	<p>After receiving your payment, CableLabs and the Certificate Authority (Verisign) will authenticate the contacts listed in your "Naming Application". This usually requires only a few days to complete, but is highly dependent on the availability of the contacts listed in your Naming Application.</p> <p>Once your contacts are authenticated, Verisign will ship you the Administrator Kit which will enable you to access your "Certificate Requesting Agent" (CRA) for installation on a standard Internet-connected PC. Your account will be "activated" five business days from the shipment date. Prior to full product "verification" you will only be able to download a <u>maximum of 100</u> (one hundred) production digital certificates, regardless of the quantity that you previously paid for. You will need to download the CableLabs Manufacturer Root CA <u>and</u> Manufacturer CA 04 from: <a href="http://www.cablelabs.com/certqual/security/">http://www.cablelabs.com/certqual/security/</a> These downloads are under the "OpenCable Certificates &amp; Related Data" heading on that web page.</p>

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<p>H) Manufacturer must submit product(s) <u>and full payment</u> to CableLabs for testing no later than the <i>Submission Date</i> for the applicable Test Wave.</p>	<p>Products submitted for Verification <u>must include <i>production X.509</i> certificates</u> (from the batch of 100 that are initially available through your CRA), <u>as well as <i>production DFAST</i> secrets</u> delivered to you from CableLabs after you signed the Activation Notice and provided your PGP key.</p>
<p><b>PHASE III - WHAT HAPPENS WHEN MY PRODUCT IS VERIFIED?</b></p>	
<p>A) Manufacturer may order and pre-pay for production quantities of <i>production</i> digital certificates at the time of signing the "Agreement for Manufacturer's Receipt of Digital Certificates Under DFAST," and any time thereafter providing that the annual maintenance fee is paid in full. All orders for digital certificates must be pre-paid to CableLabs.</p>	<p>If the independent UDCP Verification Panel verifies your company's product, CableLabs will advise Verisign. Within about five (5) business days, Verisign will activate your account and notify you that all of your pre-paid digital certificates are available for download using your CRA.</p>
<p>B) Once your company is in full production, remember to order sufficient quantities of digital certificates with sufficient lead-time to keep your lines flowing. All orders must be pre-paid to CableLabs, and the approximate order processing lead-time is about two weeks after receipt of payment.</p>	
<p>C) Remember to report your usage of certificates per the "Agreement for Manufacturer's Receipt of Digital Certificates Under DFAST". There is an example certificate reporting spreadsheet at: <a href="http://www.cablelabs.com/certqual/security/cert_reporting_spreadsheet.xls">http://www.cablelabs.com/certqual/security/cert_reporting_spreadsheet.xls</a>. Email your completed reports to <a href="mailto:cablelabs-repository@verisign.com">cablelabs-repository@verisign.com</a></p>	
<p>D) CableLabs will automatically invoice your company about 60 days prior to the expiration of your annual maintenance agreement for digital certificates.</p>	
<p>E) Once a manufacturer has successfully completed verification for one UDCP DTV product, subsequent UDCP DTV models may be self-verified. Manufacturer must complete the online UDCP Self Verification Form at (<a href="https://www.cablelabs.com/certwave/login.php">https://www.cablelabs.com/certwave/login.php</a>) and submit to CableLabs prior to commercial deployment as a Digital Cable Ready product.</p>	
<p>F) Manufacturer has the option of appearing on our certified product list on the CableLabs website. Please mark the appropriate check box on the application form.</p>	<p><a href="http://www.cablelabs.com/opencable/udc/downloads/OC_PNP.pdf">http://www.cablelabs.com/opencable/udc/downloads/OC_PNP.pdf</a></p>

### Important Note for OEMs:

If your company is manufacturing a product that will be labeled, marketed and sold under a different company's name, you are an Original Equipment Manufacturer (OEM), and your customer is the "Manufacturer" as used throughout this "Getting Started" document. Production digital certificates must bear the name of either the Manufacturer or the OEM but not both. As a result, either the Manufacturer or the OEM, must complete steps D through H of Phase II above, as well as all of Phase III. Both the OEM and the Manufacturer must complete steps A and B of Phase I.