



# InCommon Certificate Manager

Code Signing on Demand Cloud Version

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### **1** Introduction

- Code Signing on Demand (CSoD) offers customers a faster, more intuitive and highly secure way to digitally sign their software. The service is available in both hosted and cloud versions and is capable of signing EXE .DLL .CAB .MSI .OCX .SY, WAR, JAVA JAR and Android application files.
- InCommon CM is also capable of hash signing, whereby developers upload a hash of their files for signing instead of the files themselves. The developer then needs to embed the hash with their files.

Code signing on demand is available in two deployment options:

- In-House Hosted Mode
  - Developers upload software to a local portal. The code signing process is handled by a locally installed controller. The controller will generate CSoD enabled code-signing certificates for developers to sign files. The certificates and their private keys are stored in encrypted form in a local database created by the controller.
  - HSM integration. You can also configure the controller to generate and store the code-signing certificate on a local Hardware Security Module (HSM). Keys will be generated in PKCS # 11 format and saved in nonextractable format on the HSM device. HSM integration is mandatory if you use the controller in cluster mode. All CSoD agents should be configured to connect to a single HSM.
- Cloud Mode
  - The signing service is hosted on InCommon's highly secure cloud servers. The service generates CSoD enabled code signing certificates for developers to sign files. The certificates and their private keys are generated and stored in encrypted format in InCommon's data-center for the lifetime of the certificate, tightly protected by InCommon's military grade security infrastructure.
  - HSM integration. Please contact your account manager if you want to setup HSM integration while using cloud service mode.

This document describes how to setup and use the CSoD service in **Cloud Mode**.

**Note**: CSoD is not enabled by default. Please contact your account manager if you require the service.

#### **Process in brief**

- A new 'Code Signing on Demand' tab will appear in the InCommon CM title bar after the service is enabled.
- Admins need to assign a person as a 'Developer' in InCommon CM. Admins will request and approve the CSoD certificates on behalf of the developer. The developer will submit files for signing and subsequently collect the signed files.
- After enrolling for a code signing certificate, the CSoD service generates the certificate request and submits the request to InCommon CM.
- The service tracks the order and collects the certificate once issued.



• The developer can then upload files to the cloud portal for signing. After admin approval, the service will sign the code file and notify the developer to collect the signed file.

Please see the following links for help to set up the service:

- <u>The 'Code Signing on Demand' Interface</u>
- Add Developers
- Obtain a Code Signing Certificate For CSoD
- How to sign code using CSoD
- <u>Configure the CSoD service</u>

#### 1.1 The 'Code Signing on Demand' Interface

The 'Code Signing on Demand' area lets you manage 'Developers' and signing requests.

The interface is divided into two main sections:

- The 'Requests' tab View and approve/decline code signing requests from developers
- The 'Developers' tab Add and manage 'Developer' accounts in InCommon CM.

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Requests Developers								
Auto-Approve Code Signing Requ	ests							
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DEVELOPER	ORGANIZATION	DEPARTMENT	VERSION DIGEST	ALGORITHMS	SIGNING SERVICE	CREATE DATE	STATE	
			No data	1				

Visibility of the CSoD area is restricted to:

- MRAO administrators Can configure the controller, add developers and manage code signing requests for any
  organization or department.
- RAO Code Signing administrators Can add developers and manage code signing requests for organizations/departments that have been delegated to them.
- DRAO Code Signing administrators Can add developers and manage code signing requests for departments that have been delegated to them.

#### 1.2 Add Developers

A 'Developer' is a role in InCommon CM with permission to:



- Login to the CSoD service
- Upload files or hashes for code-signing
- Download the signed file or signed hash

You can create a developer as a new user, or add developer privileges to an existing InCommon CM user. An MRAO or RAO administrator will need to approve the developer's actual signing requests, unless you enable auto-approve in the <u>CSoD configuration</u> screen.

#### To add a developer

- Open the 'Developers' interface by clicking 'Code Signing on Demand' > 'Developers'
- Click the 'Add' button. This will open 'Add New Developer' dialog.

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- Add		
EMAIL		
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Add New Developer		>
CREDENTIALS	R	DLE
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CREDENTIAL S *-required fields Email* bumpsted@	edithercons.com	ABCD Corp
CREDENTIALS *-required fields Email* bumpsted@	Ddithercons.com	ABCD Corp Best Organization Capital Business Dithers Construction Company
CREDENTIALS *-required fields Email* bumpsted@	edithercons.com	ABCD Corp Best Organization Capital Business Dithers Construction Company Software Development

- Type the email address of the developer in the email field.
- Use the right-hand pane to select the Organization(s) / Department(s) to which the developer should belong.
- Click 'OK' to confirm your selection.

The developer will be added to the list. You can edit the user to change their Organization/Department, reset their password or to remove the developer.



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A notification email will be sent to the developer with the credentials to access the CSoD service. An example is shown below:

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Get Messages Write Chat Address Book Tag	Quick Filter Search <	Ctrl+K>			≥ ۹
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From support@cert-manager.com					
Subject Developer account was created successfully				11/17/201	.5 3:54 PM
To Bumpsted Dagwood					
Code Sign account was created for your mail. Login: <u>bumpsted@dithercons.com</u> New password: URL to access the service: <u>https://cert-manag</u>	er.com/customer/s	tatic/csf			
9 <u>4</u>				20 Today Pa	ne 🔺 🔡

#### 1.3 Obtain a code-signing certificate for CSoD

Prerequisites:

- You have created a 'Developer' role as explained in the preceding section.
- The domain from which the certificate is to be issued has been enabled for code signing certificates, and that the
  domain has been activated by your InCommon account manager. For example, if you wish to issue code signing
  certs to end-user@mycompany.com, then mycompany.com must have been validated by InCommon. All
  certificate requests made on validated domains or sub-domains are issued automatically. Certificate requests for
  new domains will first have to undergo validation.
- The domain has been delegated to an organization or department.
- An 'RAO Code-Signing' or 'DRAO Code-Signing' admin has been delegated control of the organization/ dept.



• The admin has enabled code signing certificates for the organization in the 'Code Signing tab' of the organization's settings (see screen-shot below). 'Edit' an organization to access these settings.

Edit Organization: Dithers Construction Company X						
General	Client Certificate	SSL Certificate	Code Signing Certificate	Email Template		
When chee Departmer	When checkbox is selected "Code Signing" certificates could be enrolled for this particular Organization or Department.					
	Enabled 🗹					
		ок	Cancel			

Optional. You can choose to generate and store keys on a HSM appliance.

#### **Procedure Overview:**

- 1. The administrator confirms completion of the prerequisite steps.
- 2. The administrator adds a new code-signing certificate for the developer from the 'Certificates' > 'Code Signing Certificates' interface, with 'Code Signing on Demand' enabled for the certificate. The CSoD service generates and stores the key pair on the secure cloud server and submits the CSR to InCommon CA. Once the certificate is issued, the service automatically downloads the certificate and stores it on the cloud server. If the HSM service is used, the key pair is generated and stored on the HSM. The service will collect the certificate after it is issued and will store it on the HSM.

#### To add a code signing certificate for the developer

- Click 'Certificates' > 'Code Signing Certificates' to open the 'Code Signing Certificates' interface
- Click the 'Add' button to open the certificate application form.
- Complete all required fields on the form, making sure:
  - The correct developers email address is used.
  - The correct organization and department are specified for the developer.
  - The 'Code Signing on Demand' box is checked.



InCommon Certificate Manager | Code Signing on Demand – Cloud Version



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Department	None		-		
Domain	dithercons.com				
Email Address*	bumpsted		@dithercons.com		
Term	1 year		•		
Full Name*	Bumpsted Dagwood				
Contact email			(i)		
Code Signing on Demand	☑ (i)				
Signature Algorithm	RSA		-		
Key Size	2048		•		
Subscriber Agreement					
EULA					
Print					
I agree.* Scroll to botto	m of the agreement to ac	tivate check box.			
	ОК	Cancel			



The following table explains the fields on the form:

Field	Description
Organization	Select the Organization to which the developer belongs.
Department	Select the Department to which the developer belongs.
Domain	Select the domain to which you want to issue the certificate. This will be a domain that is assigned to the organization/department
Term	Select the term of the certificate.
Email Address	Enter the email address of the developer.
Full Name	Full name of the applicant.
Contact Email	Enter the contact email address of the applicant that should be included in the certificate. The contact email address may be the customer facing email address like support@company.com, sales@company.com etc.
Code Signing on Demand	Enable to allow the certificate to be used by the CSoD service.
Signature Algorithm	Choose the signature algorithm to be used by the certificate.
Keysize	Choose the key-size (in bits) by the certificate. Recommended = 2048 bit or higher.
Subscriber Agreement	Displays the End-User License Agreement (EULA) for the certificate. Read through the EULA and accept to it by selecting the 'I agree' checkbox for the application to proceed.

Click 'OK' to submit the request.

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The certificate will be added with the state 'init', indicating that the certificate enrollment has been initiated.

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SSL Certificates CI	ient Certificates	ode Signing Certificate	es						
<b>Filter</b>									~
Add	Export Import fr	rom CSV Delete	View						
NAME	EMAIL	0	RDER NUMBER	STATE	ORGANIZATION	DEPARTMENT	EXPIRES	CODE SIG	NING ON-THE-FLY
Bumpsted Dagwood bumpsted@dithercons.com       Init     Dithers       Construction     Company									
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Once issued, the state of the certificate will change to 'Issued':



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NAME	EMAIL	ORDER NUMBER	STATE ORG	ANIZATION	DEPARTMENT	EXPIRES CODE S	IGNING ON-THE-FLY
Bumpsted Dagwood	bumpsted@dithercons.con	1503301	Issued Dithe Cons Comp	rs truction pany	1	1/20/2016 🔽	

The certificate can now be used to sign code submitted by your developer. Each signing action will, however, need to be approved by an administrator UNLESS you enable 'Auto-approve code signing requests' in <u>CSoD interface</u>.

#### Viewing and Downloading the certificate

• Select the certificate and click 'View' to see certificate details:



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<b>Filter</b>				
Add Export Import from	CSV Delete	View Rev	/oke	
NAME EMAIL		ORDER NUMBER	STATE	ORGANIZATION
Bumpsted bumpsted@dit	here.com 1	729430	Issued	Dithers Construction Company
Code Signing Certificate				×
Nan	ne Bumpsted			
Sta	ite Issued			
Order Numb	er 1729430			
Em	ail bumpsted@dith	iers.com		
Contact em	ail			
Organizati	on Dithers Constru	iction Company		
Departme	ent .			
Ter	m 1 year			
Invit	ed			
Collect	ed 08/28/2017			
Download	ed			
Expir	es 08/30/2018			
Serial Numb	er 87:98:8D:F4:18:	61:36:3C:D1:55:7F:	C4:2C:3C:66:A4	
Key Usa	ge Digital Signatur	e		
Extended Key Usa	ge 1.3.6.1.5.5.7.3.3	i.		
Download Certifica	te PKCS#7 Base6	54		
Suspend Notification	ns 🗆			
	Close			

Click the 'Download' button to download the certificate in PKCS#7 format

#### 1.4 How to sign code using CSoD

Once you have <u>created a developer</u> and <u>obtained at least one CSoD enabled code-signing certificate</u>, your developer is ready to upload files or hashes for signing.

 Code Signing – Developers can upload EXE .DLL .CAB .MSI .OCX .SY, JAVA JAR, WAR and Android application files.



- Hash Signing Developers can upload a text file containing the SHA or MD5 hash value of their software which will be signed with their code signing certificate. Developers can embed the signed hash and certificate with their binary. This is useful if:
  - The source files are large and the developer wishes to avoid longer upload times
  - Company policy allows code signing of binaries to be performed only within a local system

See Obtain a code-signing certificate for CsoD if you need help with getting a code-signing certificate.

**Note**: The 'Hash Signing' feature is only available if enabled for your account. Please contact your InCommon account manager if you wish to add this service.

Overview of steps:

- <u>Step 1 Upload the files to be Signed</u> The developer logs-in to the CSoD service portal, enters the details of the file(s) to be signed, selects the signing service and uploads their code or hash. This will create a request which can be viewed in the 'Code Signing on Demand' > 'Requests' interface.
- <u>Step 2 Approve the Code Signing Request (optional)</u> An administrator views the request, checks the files to be signed and approves the request from the 'Code Signing on Demand' > 'Requests' interface. Note - this step can be skipped if 'Auto-Approve Code Signing Requests' is enabled in the CSoD interface.
- <u>Step 3 Download Code-Signed files</u> After the signing process is complete, the status of the request will change to 'Signed'. A notification mail is sent to the developer with a URL to download the signed files.

#### Step 1 - Upload the files to be Signed

- Once a developer has been added, they will be able to login to InCommon CM using the link in their confirmation email.
- By default, the format of this URL is https://cert-manager.com/customer/InCommon/csod.

Create Code Signing request		
Email: *		
Password: *		
	AUTHORIZE	

• Developers can then upload files using the following form:



Create Code Signing request		
Email: *	bumpsted@dithers.com	
Password: *	•••••	
Organization: *	Dithers Construction Company	
Department: *	None	
	□MD5 IZISHA1	
Digest Algorithms: *		
	SHA512	
Version: *		
Signing Service: *	Microsoft Authenticode	
	Browse No files selected.	
	CREATE RESET	

- **Organization** The organization(s) to which the developer belongs. The organization selected here will be shown in the certificate as the publisher of the software.
- **Department** Allows the developer to choose a department If departmental information is also required in the certificate.
- **Digest Algorithm** Select the algorithm you wish to use to create the file hash-code (aka 'digest). The hash-code is used by client software to verify the integrity of your signed code. Recommended = SHA256 and upwards.
- Version Developer should type the version number of the software they wish to sign
- Signing Service Select the appropriate signing service for the type of file you want to sign:
  - i. Files Choose 'Microsoft Authenticode', 'Java' or 'Android' as the signing service
  - ii. *Hash values* Choose 'Hash Signing' as the signing service. You need to generate a hash-code of your file with the SHA or MD5 algorithm (to generate a .sha or .md5 file). Alternatively, create a .txt file containing the hash value.

**Note:** 'Hash Signing' is only available if the service is enabled for your account. Contact your account manager if you want to enable 'Hash Signing'.

**Browse...** - Choose the files or hashes you want to upload for signing. Multiple files can be uploaded.



The developer should complete the form and click the 'Create' button to submit the signing request to the CSoD service.

#### A confirmation dialog will be displayed:

Info	
6	Code Signing Request has been created. You will be notified when your files will be signed.

- The code signing request can be seen in 'Code Signing on Demand' > 'Requests'.
- By default, the request needs to be approved by the appropriate MRAO, RAO or DRAO administrator before the signing will take place.
- If 'Auto-Approval' of Code Signing Requests is enabled, the service will sign the code immediately. See 'Configure the CSoD service' to enable this feature.

#### Step 2 - Approve the Code Signing Request

A code signing request will appear in 'Code Signing on Demand' > 'Requests' after a developer has uploaded files for signing. Under default settings, an administrator needs to review and approve the request before the service will actually sign the files.

- Click the 'Code Signing on Demand' tab and choose the 'Requests' sub tab
- A list of requests will be displayed:

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Requests De	velopers								
Auto-Approve C	ode Signing Requests								
🜳 Filter									~
Details	Approve Decline								ж
DEVELOPER	ORGAI	IZATION DEP	ARTMENT	VERSION	DIGEST ALGORITHMS	SIGNING SERVICE	CREATE DATE	STATE	
bumpsted@di	thers.com Dithers Constru Compar	ction Ty		1.1	[MD5]	Java	08/31/2017 15:25:46	Created	
O bumpsted@di	Dithers thers.com Constru Compar	ction 19		1.0	[MD5]	Hash Signing	08/30/2017 17:13:46	Signed	

Click 'Details' to view the specifics of the request:



Request Details			×
I	Developer bumpsted(	@dithers.com	
	Version 1.1		
Signir	ng Service Java		
Or	ganization Dithers Co	nstruction Company	
D	epartment		
FILENAME	MD5 HASH	SHA1 HASH	
sample.war	570f196c4a1025a7	80f5053b166c69d81697	t Copy direct link
	Close		

The details dialog shows the developer's name, file details, and the MD5 and SHA1 hash values of the files.

- · Click the file name to download the file for examination
- Select the request and click 'Approve' to allow the signing process to go ahead



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Requests Developers					
Auto-Approve Code Signing	Requests				
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DEVELOPER	ORGANIZATION	DEPARTMENT	VERSION	DIGEST A	LGORITHMS
bumpsted@dithers.com	Dithers Construction Company		1.1	[MD5]	
bumpsted@dithers.com	Dithers Construction Company		1.0	[MD5]	
Approve Code Signir	ng Request Developer bumps Version 1.1	ted@dithers.com		×	:
	Message				
FILENAME	MD5 HASH	I SHA1 HAS	н		
sample.war	570f196c	4a1025a7 80f5053b16	66c69d81 <u>Copy</u>	direct link	
	ОК	Cancel			

- Enter an approval message in the 'Message' field and click 'OK'
- The request will be approved and its state will change to 'In Progress':



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Auto-Approve Co	de Signing Requests						
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Details	]						
	3						
DEVELOPER	ORG/	NIZATION DEP	ARTMENT VERSION	DIGEST AL GO	RITHMS SIGNING S	ERVICE CREATE DATE	STATE
bumpsted@dit	Dithers ners.com Constr Compa	uction any	1.1	[MD5]	Java	08/31/2017 16:25:	46 In Progress
<ul> <li>bumpsted@dit</li> </ul>	hers.com Constr Compa Diffees	uction iny	1.0	[MD5]	Hash Signi	ng 08/30/2017 17:13	46 Signed

- The request state will change to 'Signed' once the signing process is complete.
- A notification mail will be sent to the developer to download the signed file.
- The Developer must download the signed files within three days of the notification. The files will be removed from the database three days after signing.
- · If required, you can resend the email by clicking 'Resend Signed Notification'

	🕗 Dashboard	🔵 Certificates	😥 Disc	covery 🔀	Code Signing on D	lemand C	Reports	<u>0</u> 2 Admins	Settings	🟥 About
1	Requests Deve	opers								
1	Auto-Approve Cod	e Signing Requests								
1.423	🌱 Filter									
100	Details									
	DEVELOPER	ORG/	ANIZATION	DEPARTMENT	MERSION	DIGEST AL GORI	ITHMS SH	GNING SERVICE	CREATE DATE	STATE
<	bumpsted@dith	ers.com Constr Compa	s ruction any		1.1	[MD5]	Java	1	08/31/2017 16:25:46	Signed
	<ul> <li>bumpsted@dith</li> </ul>	ers.com Constr	uction		1.0	[MD5]	Has	h Signing	08/30/2017 17:13:46	Signed

**Note**. As mentioned earlier, administrators have the option to forgo the approval process by enabling 'Auto-Approve Code Signing Requests' in the 'Code Signing on Demand' interface.



#### Step 3 - Download Code-Signed files

After completing the signing process, the developer will receive an email with links to download each signed file. An example is shown below.

La Inbox Vour request was signed s ×
<u>File Edit View Go M</u> essage <u>T</u> ools <u>H</u> elp
Get Messages Write Chat Address Book Tag Quick Filter Search < Ctrl+K>
From support@cert-manager.com
Subject Your request was signed successfully 12:54
To Bumpsted Dagwood Other Actions *
Dear Customer, Your request was signed successfully. Please download your files following the links below: <u>https://cert-manager.com/customer/static/57BF77F2A950249AC640A21868B8B1A5</u>

If a hash was uploaded, the developer can download the signed hash and embed it into the binary to create a digitally signed file.

**Note**: The developer must download the signed files within three days of the notification. The files will be removed from the database three days after signing.

Administrators can also download signed files from the 'Details' dialog of the request.

• Choose the request from the 'Code Signing on Demand' > 'Requests' interface and click 'Details'



🕜 Dashboard 🛛 🧕 Certifi	cates 😥 Di	scovery 🔣 C	ode Signing on	Demand (	y Repor
Requests Developers					
Auto-Approve Code Signing Re	quests				
<b>Filter</b>					
Details Resend Sig	ned Notification				
DEVELOPER	ORGANIZATION	DEPARTMENT	VERSION	SIGNING SER	VICE C
bumpsted @dithercons.com	Dithers Construction Company		1.1	Microsoft Authenticode	11/
Request Details				×	
	Developer bumps	ted@dithercons.co	m		
	Version 1.1				
Sig	ning Service Microso	oft Authenticode	av.		
	Department	construction compar	,,		
FILENAME	MD5 HA SH	SHA1 HASH	l		
	57bf77f2a95	0249ac6 b0fd3b86a6	3b2524f1 <u>Copy d</u>	irect link	
	Clo	se			

• Click the file name in the 'Request Details' dialog to download the signed file.

#### To check whether the file is signed

- Right click on the file and choose 'Properties'
- Choose the 'Digital Certificates' tab



Signature list           Name of signer:         E-mail address:         Timestamp           Dithers Constr         Not available         25 November 2015 1]	ieneral Co pital Signatures	ompatibility	Archive	Comment
Signature list          Name of signer:       E-mail address:       Timestamp         Dithers Constr       Not available       25 November 2015 1         Details       Details		Security	Details	Flevious version
Name of signer:       E-mail address:       Timestamp         Dithers Constr       Not available       25 November 2015 1         Dithers Constr       Not available       25 November 2015 1	ignature list			
Dithers Constr Not available 25 November 2015 1 <u>D</u> etails	Name of signer:	E-mail address:	Timesta	imp
Details	Dithers Constr	Not available	25 Nov	ember 2015 1
			201101	
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				<u>D</u> etails

The details of the signer will be displayed.

#### 1.5 Configure the CSoD service

• By default, code signing requests from developers must be approved by an MRAO, RAO or DRAO administrator. Requests can be viewed, managed and approved in the 'Code Signing on Demand' > 'Requests' interface.

#### To configure the CSoD service

Click the 'Code Signing on Demand' tab then 'Requests'

🕢 Dashboard	Certificates	😥 Discovery	Code Signing on Demand	🕑 Reports	02 Admins	Settings	1 About	
Requests Develo	opers							
Auto-Approve Code	e Signing Requests	>						
🕎 Filter								~
.0								×
DEVELOPER	ORGA	NZATION DEPART	MERT VERSION DIGEST.	ALGORITHMS S	ICMING SERVICE	CREATE DATE	STATE	

Auto-Approve Code Signing Requests - Enable this setting if you want signing to commence without
administrator approval. The service will start the signing process immediately after files are uploaded by the
developer. See <u>How to sign code using CSoD</u> for more details.