

호스트 인증서 신청 방법

How to Request Host Certificate

2007.10.01

파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)

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Introduction

Welcome to KISTI Grid Certificate Authority web site.

KISTI Grid Certificate Authority is operated by the Grid Technology Research Team of KISTI (Korea Institute of Science and Technology Information).

The authority satisfies requirements from APGrid PMA.

Certificate issues by the KISTI Grid CA are compatible with the Globus Toolkit middleware.

The public key cryptography is the basis of grid security architecture.

Certificate Authority(CA) is a mandatory component of public key infrastructure(PKI).

Please read "[Overview of the Grid Security Infrastructure](#)" from Globus site.

Best viewed with [Firefox browser](#).

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http://ca.gridcenter.or.kr/request/certificate_request.php



로그인

Fill out the subscription form.

2. Interview with a RA with the application form. ([RA contact information](#))

Provide the following information when interview with a RA:

- o the application form
- o proof of identity (work ID card, passport, national ID card, etc.)

3. Keep the PIN number of the application form securely.

The RA should fill the PIN number field in the form.

Fax the form to the number specified in the form.

4. Please send an notification e-mail to ca@gridcenter.or.kr after sending a FAX.

5. KISTI Grid CA staff will respond immediately when we receive your request form.

6. KISTI Grid CA will send an Web Access Client Certificate(WACC) to your e-mail, if everything is okay.

Install this certificate in your web browser to access to the on-line certificate request service web site.

Your PIN number is the password for your WACC.

Follow [this instruction](#) to install the web access certificate(WACC) in your browser.

Step 2. Request a Grid Certificate from KISTI GRID CA

- If you are applying for a **user certificate**,

Click [User Certificate Request](#)

- If you are applying for a **host/service certificate**,

Click [Host/Service Certificate Request](#)

Best viewed with [Firefox browser](#).

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Instruction for requesting an Host or Service Certificate

By requesting a certificate, you indicate that you accept the [Certificate Policy](#) and [Certificate Practice Statement](#) and that you agree to the [Subscriber Obligation](#) specified in the document.

Step 1. Enroll KISTI CA

Before requesting user certificate from KISTI GRID CA, you are required to enroll KISTI GRID CA.

Step 2. On-line Certificate Request

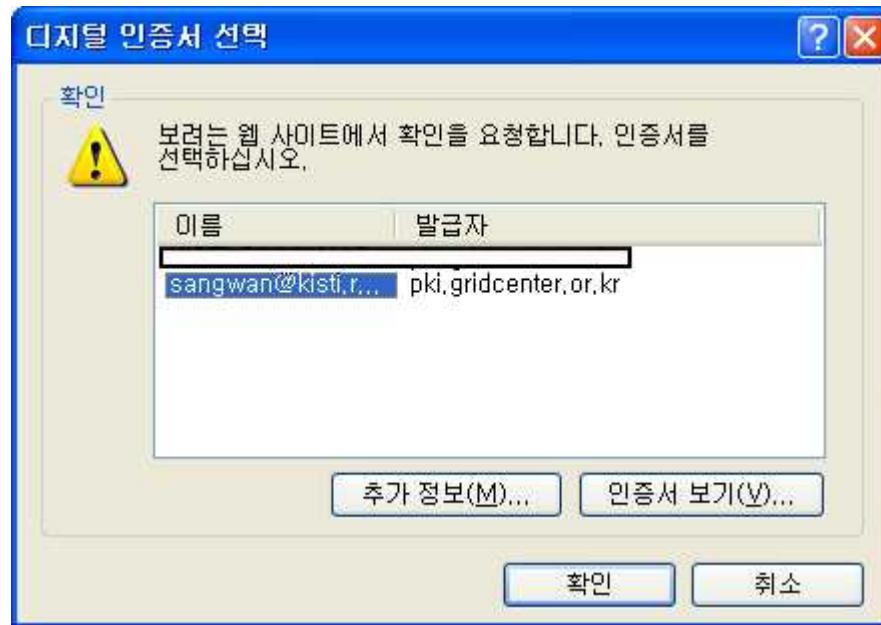
[Click here to request service or host certificate in the Online Request Service](#)

If you don't have a WACC in your browser, the access to the web page is not permitted.

Best viewed with Firefox browser.

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WACC 인증서를 이용하여 Online Request Service 에 접속합니다.



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KISTI Grid Certificate Authority

Request Host Certificate

Step 1. Generate a CSR for your host.

Step 2. Upload the CSR using the following form.

Country:	KR
Organization:	KISTI
Organization:	GRID
Organization:	<input type="text"/>
Host FQDN:	<input type="text"/> (max. 30 characters) e.g.) hostname.example.co.kr

Copy and paste your CSR block below:

CSR:

Upload CSR

기관을 선택하고 Host FQDN을 입력합니다.

CSR을 생성하여 입력하는 부분입니다.

OpenSSL을 이용한 CSR 생성방법

RSA 1024 비트키로 DES로 암호화 하지 않습니다.

```
openssl req ₩
  -new -sha1 -newkey rsa:1024 -nodes ₩
  -keyout hostkey.pem ₩
  -out hostcert_request.pem ₩
  -subj "/C=KR/0=KISTI/0=GRID/0=ORGANIZATION/CN=host₩/grid.example.com"
```

KISTI CA가 발급하는 인증서에 공통적입니다.

신청자 본인의 기관명과 호스트명으로 바꾸십시오.

globus 소프트웨어의 경우 호스트 인증서는 ‘host/’ 가 호스트명 앞에 붙습니다.

성공적으로 실행이되면 hostkey.pem 와 hostcert_request.pem 파일이 생성됩니다.

OpenSSL을 이용한 CSR 생성방법

예를 들어 KISTI 사용자가 test.kisti.re.kr라는 호스트의 호스트인증서를 신청할 때

```
openssl req -new -sha1 -newkey rsa:1024 -nodes -keyout hostkey.pem -out hostcert_request.pem -subj "/C=KR/0=KISTI/0=GRID/0=KISTI/CN=host/test.kisti.re.kr"
```

성공적으로 실행이되면 hostkey.pem과 hostcert_request.pem 파일이 생성됩니다.
hostkey.pem 파일은 인증서와 쌍을 이루는 개인키 정보를 담고 있으므로,
잘 보관하시기 바랍니다.

생성된 CSR을 확인합니다.

```
openssl req -in hostcert_request.pem -text -noout
```

```
Certificate Request:  
Data:  
    Version: 0 (0x0)  
    Subject: C=KR, O=KISTI, O=GRID, O=KISTI, CN=host/test.kisti.re.kr  
    Subject Public Key Info:  
        Public Key Algorithm: rsaEncryption  
        RSA Public Key: (1024 bit)  
            Modulus (1024 bit):  
                00:c0:c0:8a:0d:90:3d:f2:df:d1:a3:2d:0e:79:cf:  
                27:10:1e:9c:ab:6c:e6:cb:d7:55:3e:9d:2e:a0:88:  
                73:6a:e9:76:cc:03:6c:a1:22:67:da:30:12:3d:98:  
                9a:20:7e:8a:ae:68:f6:25:ab:60:7d:99:4f:4a:d8:  
                d2:c4:77:70:d0:9a:5b:aa:7b:6b:2b:a2:48:74:54:  
                b4:a3:a1:fc:b6:3d:0a:df:95:4b:ae:e8:80:0a:8f:  
                9d:76:f5:91:83:21:0b:10:1d:b9:27:5c:af:63:81:  
                b0:fe:3a:f4:f1:8f:1d:3a:07:34:cf:42:08:4b:52:  
                03:41:2d:51:d0:1e:2c:36:cb  
            Exponent: 65537 (0x10001)  
    Attributes:  
        a0:00  
Signature Algorithm: sha1WithRSAEncryption  
    b0:bd:15:d6:69:6d:36:72:ce:55:41:dd:21:da:dc:03:8b:2e:  
    d3:21:82:11:e5:e2:3c:04:2e:47:57:bf:3f:cb:75:e3:6d:8f:  
    c4:98:fd:3a:79:ac:62:f9:cc:23:a0:f8:a4:35:51:eb:c3:10:  
    93:a3:65:06:69:cc:1a:ed:ce:ea:4a:17:58:ee:b7:cc:93:5b:  
    be:6c:7b:d5:2d:d0:43:9a:a3:45:c8:30:07:b1:90:2e:f8:6d:  
    5f:c2:5b:83:e0:d7:c4:e8:6c:74:df:64:cd:41:d5:4f:09:e3:  
    21:e6:d3:53:bf:62:77:3c:30:cf:0c:1b:03:ad:c2:9c:c9:55:  
    cc:a6
```

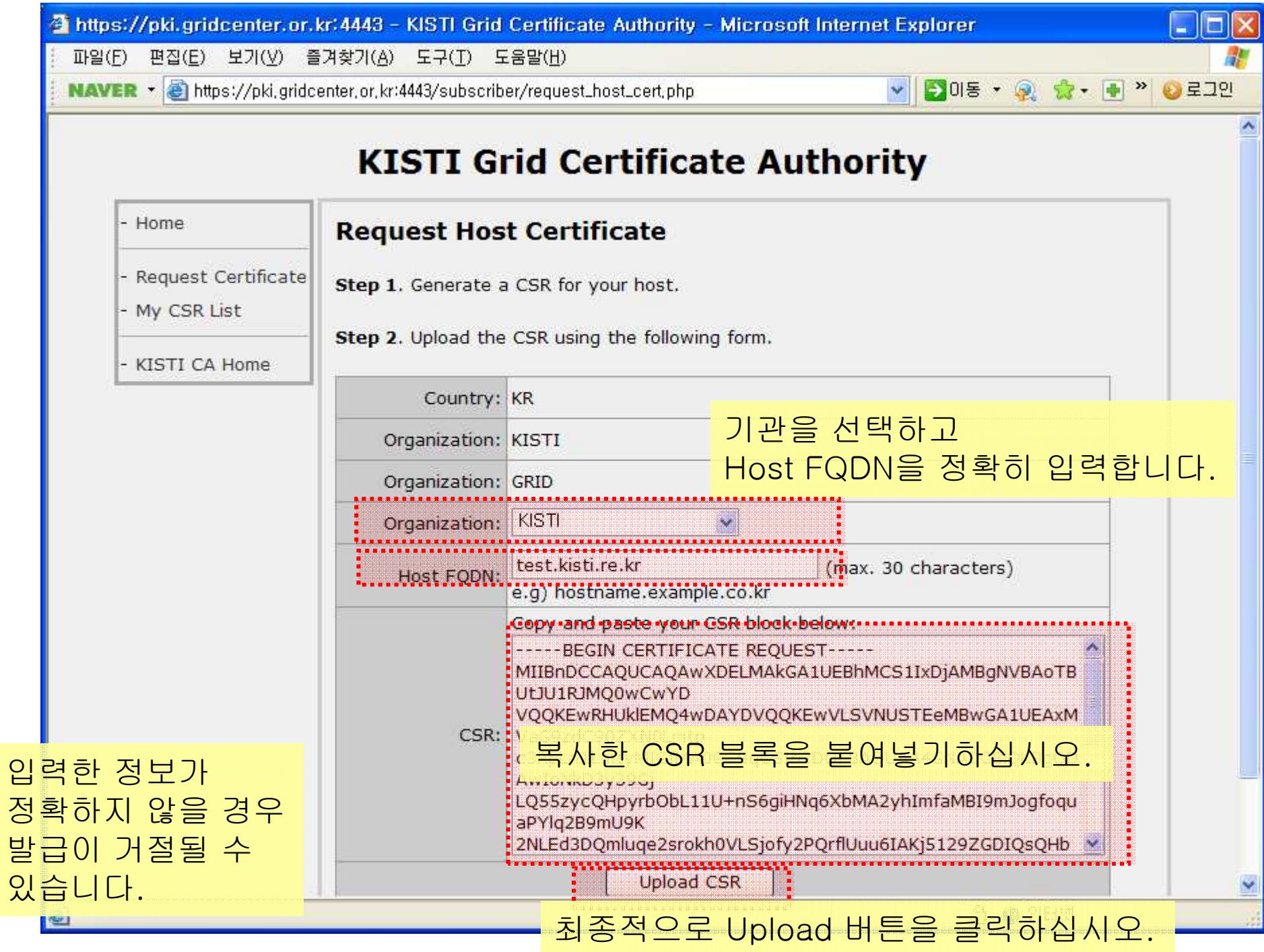
CSR의 subject를 확인하십시오.

RSA 키 사이즈를 확인하십시오.

생성된 CSR에 문제가 없다면,
앞 단계에서 홈페이지 입력 폼에 CSR 정보를 입력합니다.

hostcert_request.pem 파일의 내용을 복사해 두십시오.

```
5f:c2:5b:83:e0:d7:c4:e8:6c:74:df:64:cd:41:d5:4f:09:e3:  
21:e6:d3:53:bf:62:77:3c:30:cf:0c:1b:03:ad:c2:9c:c9:55:  
cc:a6  
[sangwan@gridnew ~]$ more hostcert_request.pem  
-----BEGIN CERTIFICATE REQUEST-----  
MIIBnDCCAQCAQAwXDELMAKGA1UEBhMCS1IxDjAMBgNUBAoTBUTJU1RJM08wCwYD  
UQQKEwRHUK1EMQ4wDAYDVQQKEwULSUNUSTeMBwGA1UEAxMUaG9zdC90ZXN0Lmtp  
c3RpLnJ1LmtvMIGFMA0GCSqGSIb3DQEBAQUAA4GNADCBiQKBgQDAwIoNkD3y39Gj  
LQ55zycQHpyrb0bL11U+nS6giHNq6XbMA2yhImFaMBI9mJogfoquaPYlq2B9mU9K  
2NLEd3DQmluqe2srokh0ULSjofy2PQrf1Uuu6IAKj5129ZGDIQsQHbknXK9jgbD+  
0vTxjx06BzTPQghLUgNBLVHQHiw2ywIDAQABoAAwDQYJKo2IhvcNAQEFBQADgYE  
sL0U1mltNnLOVUHdIdrcA4su0yGCEeXiPAQuR1e/P8t1422PxJj90nmsYvnMI6D4  
pDUR68MQk6N1BmnMGu306koXW063zJNbvmx71S3QQ5qjRcgwB7GQLvhtX8Jbg+DX  
x0hsdN9kzUHUTwnjIebTU79idzwwzwwbA63CnM1UzKY=  
-----END CERTIFICATE REQUEST-----  
[sangwan@gridnew ~]$
```



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KISTI Grid Certificate Authority

- Home
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- My CSR List
- KISTI CA Home

Your CSR has been requested to KISTI CA.
KISTI CA will review your CSR, before issuing your certificate.
Your CSR is sent to your email **sangwan@kisti.re.kr**.
After KISTI CA issue your certificate, a notification e-mail will be sent to you.

CSR 정보 입력이 완료되었고, 이메일로 안내메시지가 전송되었다고 알려줍니다.

KISTI Grid Certificate Authority

완료 인터넷

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KISTI Grid Certificate Authority

My Certificate Signing Request List

ID	Type	Form Information	Date	Status	View
1	user	O=KISTI CN=80864141 Sangwan Kim	2007-07-21 15:44:39	issued	[show] / [hide]
14	host	O=KISTI CN=test.kisti.re.kr	2007-10-02 11:25:03	upload	[show] / [hide]

신청하신 CSR 목록은 왼쪽 메뉴 My CSR List 를 보시면 됩니다.

KISTI Grid Certificate Authority

