

InCommon®



InCommon Certificate Manager

Reports Web Services API

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1 Introduction

Name : ReportService

Service EPR : <http://cert-manager.com/ws/ReportService>

OR

<http://cert-manager.com/private/ws/ReportService>

View WSDL : <http://cert-manager.com/ws/ReportService?wsdl>

OR

<http://cert-manager.com/private/ws/ReportService?wsdl>

Service Description : The Service allows the Administrator to get Activity Log Report, Client Certificates Report, SSL Certificates Report, Discovery Scan Log Report, Discovery Scan Detail Report and the Latest Discovery Scan Log Report.

2 Authentication

To access InCommon APIs, you first need to authenticate yourself to the InCommon CM service. You can authenticate via username/password, or via username + client certificate. The Reports Web Services API service uses the SOAP protocol.

- [Authentication via Username and Password](#)
- [Authentication via Username and a Client Certificate](#)

2.1 Authentication via Username and Password

Prerequisite

- Users should have InCommon CM login credentials and the correct customer login URI
- For the Web Service API, access must be enabled for the customer by InCommon and for each org/dept by admins on the client side.

The URI for the username/password authentication is:

- <https://cert-manager.com:443/ws/ReportService>

Authentication is performed by sending the AuthData parameter to the web service API. This includes the username, password and Customer URI. After successful authentication, the admin can proceed to the InCommon CM management interface. If authentication is not successful (login and/or password are incorrect, password has expired), the admin will see an error and will be denied access to the Reports Web Service API. The same admin could, however, still authenticate themselves via a client certificate (refer to the [next section](#)).

2.2 Authentication via Username and a Client Certificate

Prerequisite

- Admins should have the Customer URI
- For the Web Service API, access must be enabled for the customer by InCommon and for each org/dept by admins on the client side.
- Admins should have 'Certificate Auth' enabled. The authentication certificate must requested and issued via InCommon CM and active at the moment of authentication.

The URI for the username/client certificate authentication is:

- <https://cert-manager.com:443/private/ws/ReportService>

The certificate must be provided by the admin's client at the time of login. After receiving the authdata parameter (customer URI and login), InCommon CM will verify that the certificate matches the one specified in the 'Certificate Auth' area of the admin's profile. After successful authentication, the admin can proceed to the InCommon CM management interface. If authentication is not successful (username is incorrect, certificate is not correct/revoked), the admin will see an error and will be denied access to the Reports Web Services API. The same admin could, however, still authenticate themselves using the username and password method (see [previous section](#)).

3 Remote Functions

3.1 Function for Getting Activity Report

ActivityReportResponse getActivityReport(AuthData authData, Date from, Date to) throws InvalidAuthException, WSRuntimeException

3.1.1 Arguments

Variable Name	Type	Description
authData	AuthData	Authentication data for access. See section 3.1.1.1 AuthData type for more details.
from	Date	The Start date of Activity log
to	Date	The End date of Activity log

3.1.1.1 AuthData type

Method Name	Description
SetLogin(String value)	Set login name for account within CM. This is login of the Admin with role 'MRAO Admin' within CM account.
SetPassword(String value)	Set password for account within CM. This is login of the Admin with role 'MRAO Admin' within CM account.

Method Name	Description
SetURI(String value)	URI for logging into account within CM.

Note: If your [Certificate Manager](#) login portal is <https://cert-manager.com/customer/InCommon>, then 'InCommon' is your URI.

3.1.2 Return value – ActivityReportResponse

ActivityReportResponse - Object that contains get Activity Log Report operation status, message and ReportRowActivity object array if succeed.

Method Name	Possible value(s)
int getStatusCode()	0 = SUCCESSFUL;
String getMessage()	<i>null</i>
ReportRowActivity[] getReports()	If status code = 0, then ReportRowActivity object array if succeed, empty array otherwise.

3.1.2.1 ReportRow Activity

Name	Type	Description
id	int	Log id
action	WSAction	See section 3.1.2.2 WSAction
admin	WSAdmin	See section 3.1.2.2 WSAction
person	WSPerson	See section 3.1.2.4 WSPerson
org	WSOrganization	See section 3.1.2.5 WSOrganization
smime	WSSMIME	See section 3.1.2.6 WSSMIME
ssl	WSSSL	See section 3.1.2.7 WSSSL
notif	WSNotification	See section 3.1.2.8 WSNotification
description	String	Description of action
accessMethod	String	Client access way
Address	String	Client IP address

Name	Type	Description
date	Date	Log Creation date

3.1.2.2 WSAction

Name	Type	Description
id	int	Action ID number
actionName	String	Action Name

3.1.2.3 WSAdmin

Name	Type	Description
login	String	Admin login
fCertificate Services ManagerullName	String	Admin full name
email	String	Admin email

3.1.2.4 WSPerson

Name	Type	Description
name	String	Person name
email	String	Person email
guid	String	Object GUID for autoenrollment

3.1.2.5 WSOrganization

Name	Type	Description
name	String	Organization name
department	String	The department of this organization
domain	String	Domain name for this organization
address1	String	Organization's address1
address2	String	Organization's address2

Name	Type	Description
address3	String	Organization's address3

3.1.2.6 WSSMIME

Name	Type	Description
person	WSPerson	See section 3.1.2.4 WSPerson
orderNumber	long	Order number (SASP)
ordered	Date	Ordered date
revoked	Date	Revocation date
collected	Date	Collection date
downloaded	Date	Downloaded date
expires	Date	Expiration date
state	SMIMEState	The status of SMIME
serialNumber	String	Certificate Serial number
subject	String	SMIME subject

3.1.2.7 WSSSL

Name	Type	Description
orderNumber	long	Order_number returned by InCommon CA when applied with CA
commonName	String	SSL common name
sslType	String	Cert Type that this ssl belongs to
term	int	Certificate term (years)

3.1.2.8 WSNotification

Name	Type	Description
description	String	Notification description

3.1.3 Throws Exceptions

Name	Description
WSRuntimeException	code: -14 = An unknown error occurred!;
InvalidAuthException	code: -100 = The URI of customer is invalid; -101 = The client admin is invalid; -102 = You are not authorized to execute get report service;

3.2 Function for Getting Client Certificates Report

ClientCertReportResponse getClientCertReport(AuthData authData, Date from, Date to, String organizationNames, String certificateStatus, String certificateDate) throws InvalidAuthException, CheckParamException, WSRuntimeException

3.2.1 Arguments

Variable Name	Type	Allowed Values	Description
authData	AuthData		Authentication data for access. See section 3.2.1.1 AuthData type
from	Date		The Start date of Activity log
to	Date		The End date of Activity log
organizationNames	String		organization names split by “,”
certificateStatus	String	0 = Any 1 = Requested 2 = Enrolled – Downloaded 3 = Revoked	Current Status value

Variable Name	Type	Allowed Values	Description
		4 = Expired 5 = Enrolled - Pending Download 6 = Not Enrolled	
certificateDate	String	0 = Enrolled Date 1 = Downloaded Date 2 = Revoked Date 3 = Expire Date 4 = Requested Date 5 = Issued Date	Date Selection value

3.2.1.1 AuthData type

Method Name	Description
setLogin(String value)	Set login name for account within CM. This is login of the Admin with role 'MRAO Admin', RAO SMIME Admin', or 'DRAO SMIME Admin' within CM account.
setPassword(String value)	Set password for account within CM. This is login of the Admin with role 'MRAO Admin', RAO SMIME Admin', or 'DRAO SMIME Admin' within CM account.
setURI(String value)	URI for logging into account within CM.

Note: If your Certificate Manager login portal is <https://cert-manager.com/customer/InCommon>, then 'InCommon' is your URI.

3.2.2 Return value – ClientCertReportResponse

ClientCertReportResponse - Object that contains get Client Certificates Report operation status, message and ReportRowClientCert object array if succeed.

Method Name	Possible value(s)
int getStatusCode()	0 = SUCCESSFUL;
String getMessage()	<i>null</i>

Method Name	Possible value(s)
ReportRowClientCert[] getReports()	If status code = 0, then ReportRowClientCert object array if succeed, empty array otherwise.

3.2.2.1 ReportRowClientCert

Name	Type	Description
id	int	SMIME id
person	WSPerson	See section 3.1.2.4 WSPerson
organization	WSOrganization	See section 3.1.2.5 WSOrganization
subject	String	SMIME subject
email	String	Person email
orderNumber	long	Order number (SASP)
enrolled	Date	Collection date
downloaded	Date	Downloaded date
revoked	Date	Revocation date
expire	Date	Expiration date
enrollType	String	Enroll from WEB-UI(1), API Enroll(2), auto enroll from Microsoft Exchange(3)

3.2.3 Throws Exceptions

Name	Description
WSRuntimeException	code: -14 = An unknown error occurred!
InvalidAuthException	code: -100 = The URI of customer is invalid; -101 = The client admin is invalid;

Name	Description
	-102 = You are not authorized to execute get report service;
CheckParamException	code: -103 = The type of certificate status is invalid; -104 = The date of certificate is invalid;

3.3 Function for Getting SSL Certificates Report

SSLReportResponse getSSLReport(AuthData authData, Date from, Date to, String organizationNames, String certificateStatus, String certificateDate) throws InvalidAuthException, CheckParamException, WSRuntimeException

3.3.1 Arguments

Variable Name	Type	Allowed Values	Description
authData	AuthData		Authentication data for access. See section 3.3.1.1 AuthData type
from	Date		The Start date of Activity log
to	Date		The End date of Activity log
organizationNames	String		organization names split by “,”
certificateStatus	String	0 = Any 1 = Requested 2 = Enrolled – Downloaded 3 = Revoked 4 = Expired 5 = Enrolled - Pending Download 6 = Not Enrolled	Current Status value
certificateDate	String	0 = Enrolled Date	Date Selection value

Variable Name	Type	Allowed Values	Description
		1 = Downloaded Date 2 = Revoked Date 3 = Expiry Date 4 = Requested Date 5 = Issued Date	

3.3.1.1 AuthData type

Method Name	Description
setLogin(String value)	Set login name for account within CM. This is login of the Admin with the role 'MRAO Admin', 'RAO SSL Admin' or 'DRAO SSL Admin' within CM account.
setPassword(String value)	Set password for account within InCommonCM. This is login of the Admin with the role 'MRAO Admin', 'RAO SSL Admin' or 'DRAO SSL Admin' within CM account.
setURI(String value)	URI for logging into account within CM.

Note: If your Certificate Manager login portal is <https://cert-manager.com/customer/InCommon>, then 'InCommon' is your URI.

3.3.2 Return value – SSLReportResponse

SSLReportResponse - Object that contains get SSL Certificates Report operation status, message and ReportRowSSL object array if succeed.

Method name	Possible value(s)
int getStatusCode()	0 = SUCCESSFUL;
String getMessage()	<i>null</i>
ReportRowSSL[] getReports()	If status code = 0, then ReportRowSSL object array if succeed, empty array otherwise.

3.3.2.1 ReportRowSSL

Name	Type	Description
id	int	SSL id
type	String	Cert Type that this ssl belongs to

Name	Type	Description
commonName	String	SSLs common name
subject	String	Subject Alternative Names
status	String	Current state
requester	String	Person requester
approver	WSAdmin	See 3.1.2.3 WSAdmin
organization	WSOrganization	See 3.1.2.5 WSOrganization
orderNumber	long	Order_number returned by CA when applied with CA
servers	int	Servers count
serverType	String	Server type
term	int	Certificate term (years)
comments	String	Comment of this ssl
requested	Date	Requested date
approved	Date	Approved by client admin or super admin date
issued	Date	Collected from CA date
downloaded	Date	User downloaded date
expires	Date	Expiration date
revoked	Date	Revocation date if revoked
replaced	Date	Replaced date if replaced

3.3.3 Throws Exceptions

Name	Description
WSRuntimeException	code: -14 = An unknown error occurred!;

Name	Description
InvalidAuthException	code: -100 = The URI of customer is invalid; -101 = The client admin is invalid; -102 = You are not authorized to execute get report service;
CheckParamException	code: -103 = The type of certificate status is invalid; -104 = The date of certificate is invalid;

3.4 Function for Getting Discovery Scan Log Report

DiscoveryReportResponse `getDiscoveryReport(AuthData authData, Date from, Date to, Integer cdAuditLogId, String agentIds)` throws **InvalidAuthException**, **CheckParamException**, **WSRuntimeException**

3.4.1 Arguments

Variable Name	Type	Description
authData	AuthData	Authentication data for access. See section 3.3.1.1 AuthData type
from	Date	The Start date of Activity log
to	Date	The End date of Activity log
cdAuditLogId	Integer	not use, should be 0
agentIds	String	CD Agent ids split by “,”

3.4.2 Return value – DiscoveryReportResponse

DiscoveryReportResponse - object that contains get Discovery Scan Log Report operation status, message and ReportRowDiscovery object array if succeed.

Method Name	Possible value(s)
<code>int getStatusCode()</code>	0 = SUCCESSFUL;

Method Name	Possible value(s)
String getMessage()	<i>null</i>
ReportRowDiscovery[] getReports()	If status code = 0, then ReportRowDiscovery object array if succeed, empty array otherwise.

3.4.2.1 ReportRowDiscovery

Name	Type	Description
id	int	cd_log id
startDate	Date	Start date
endDate	Date	End date
ipsScanned	int	IPs scanned
sslsFound	int	SSLs found
newSslsFound	int	New SSLs found
CMCertsFound	int	CM certificates found
newCMCertsFound	int	New CM certificates found
otherFound	int	Other found
newOtherFound	int	New other found
selfSignedFound	int	Self-signed found
newSelfSignedFound	int	New self-signed found
scanType	String	Scan Type
completionStatus	String	Completion Status
failReason	String	Fail Reason
requestedBy	String	Requested by
canceledBy	String	Canceled by
cancelReason	String	Cancel Reason

Name	Type	Description
settings	String	Settings

3.4.3 Throws Exceptions

Name	Description
WSRuntimeException	code: -14 = An unknown error occurred!;
InvalidAuthException	code: -100 = The URI of customer is invalid; -101 = The client admin is invalid; -102 = You are not authorized to execute get report service;

3.5 Function for Getting Discovery Scan Detail Report

DiscoveryDetailReportResponse `getDiscoveryDetailReport(AuthData authData, Date from, Date to, Integer cdAuditLogId, String agentIds)` throws **InvalidAuthException**, **CheckParamException**, **WSRuntimeException**

3.5.1 Arguments

Variable Name	Type	Description
authData	AuthData	Authentication data for access. See section 3.3.1.1 AuthData type .
from	Date	The Start date of Activity log
to	Date	The End date of Activity log
cdAuditLogId	Integer	CD AuditLog Id which you want to get details
agentIds	String	CD Agent ids split by “,”

3.5.2 Return value – DiscoveryDetailReportResponse

DiscoveryDetailReportResponse - object that contains get Discovery Scan Detail Report operation status, message and ReportRowDiscoveryDetail object array if succeed.

Method Name	Possible value(s)
int getStatusCode()	0 = SUCCESSFUL;
String getMessage()	<i>null</i>
ReportRowDiscoveryDetail[] getReports()	If status code = 0, then ReportRowDiscoveryDetail object array if succeed, empty array otherwise.

3.5.2.1 ReportRowDiscoveryDetail

Name	Type	Description
foundTime	Date	Date and Time found
commonName	String	Common Name
vendor	String	Vendor
issuedBy	String	Issued By
ipAddress	String	IP Address:Port
term	int	Term (years)
expires	Date	Expires
serialNumber	String	Serial Number
cdAgent	String	CD Agent name

3.5.3 Throws Exceptions

Name	Description
WSRuntimeException	code: -14 = An unknown error occurred!;
InvalidAuthException	code: -100 = The URI of customer is invalid; -101 = The client admin is invalid; -102 = You are not authorized to execute get report service;

3.6 Function for Getting Latest Discovery Scan Log Report

LastedCDLogResponse `getLatestCDLog(AuthData authData, String agentNames)` throws **InvalidAuthException**, **WSRuntimeException**

3.6.1 Arguments

Variable Name	Type	Max. Length (chars)	Description
authData	AuthData		Authentication data for access. See section 3.6.1.1 AuthData type
agentNames	String		CD Agent Name

3.6.1.1 AuthData type

Method Name	Description
setLogin(String value)	Set login name for account within CM. This is the login of the Admin with role 'MRAO Admin, RAO SSL Admin' or 'DRAO SSL Admin' within CM account.
setPassword(String value)	Set password for account within CM. This is the login of the Admin with role 'MRAO Admin, RAO SSL Admin' or 'DRAO SSL Admin' within CM account.
setURI(String value)	URI for logging into account within CM.

Note: If your Certificate Manager login portal is <https://cert-manager.com/customer/InCommon>, then 'InCommon' is your URI.

3.6.2 Return value – LastedCDLogResponse

LastedCDLogResponse - Object that contains get Latest Discovery Scan Log Report operation status, message and ReportRowCDLog object array if succeed.

Method Name	Possible value(s)
int <code>getStatusCode()</code>	0 = SUCCESSFUL;
String <code>getMessage()</code>	<i>null</i>
ReportRowCDLog[] <code>getReports()</code>	If status code = 0, then ReportRowCDLog object array if succeed, empty array otherwise.

3.6.2.1 ReportRowCDLog

Name	Type	Description
id	int	cd_log id
requestor	WSAdmin	See section 3.1.2.3 WSAdmin
canceller	WSAdmin	See section 3.1.2.3 WSAdmin
cancelReason	String	Cancel reason
requestorSA	WSAdmin	See section 3.1.2.3 WSAdmin
cancellerSA	WSAdmin	See section 3.1.2.3 WSAdmin
created	Date	Create Date
settings	String	settings
cdAgents	WSCDAgent[]	See section 3.6.2.2. ReportRowCDAgentLog

3.6.2.2 ReportRowCDAgentLog

Name	Type	Description
id	int	CD Agent id
name	String	CD Agent name

3.6.3 Throws Exceptions

Name	Description
WSRuntimeException	code: -14 = An unknown error occurred!;
InvalidAuthException	code: -100 = The URI of customer is invalid;

3.7 Utility Function for Getting Short Information about Web Service (name, version, etc.)

String getWebServiceInfo()

3.8 Function for Getting Domains Report

DomainReportResponse getDomainReport(AuthData authData)

3.8.1 Arguments

Variable Name	Type	Description
authData	AuthData	Authentication datat for access. See section 3.6.1.1.AuthData type

3.8.2 Return value - DomainReportResponse

DomainReportResponse - object that contains get Domains Report operation status, message and ReportRowDomain object array if succeed.

Method Name	Possible values(s)
int getStatusCode()	0=SUCCESSFUL;
String getMessage()	null
ReportRowDomain[] reportRowDomains	If status code=0, then ReportRowDomain object array is succeed, empty array otherwise

3.8.2.1 ReportRowDomain

Name	Type	Description
id	int	Domain Id
name	String	Domain name
status	String	Domain status
requested	Date	Domain requested date
dcvState	String	Domain DCV state
stickyUntill	Date	Domain sticky until date
dcvMethod	String	Domain DCV method

3.8.2.2 Throws Exceptions

Name	Description
WSRuntimeException	code: -14 = An unknown error occurred!;
InvalidAuthException	code: -100 = The URI of customer is invalid; -101 = The client admin is invalid; -102 = You are not authorized to execute get report service;

3.9 Function for Getting Device Certificate Report

getDeviceCertReport (AuthData authData, Date from, Date to, String certificateStatus, String certificateDate)

3.9.1 Arguments

Parameter	Type	Description
authData	AuthData	Authentication data for access. See section 3.6.1.1.AuthData type
from	Date	The Start date of Activity log.
to	Date	The End date of Activity log.
organizationNames	String	Organization names separated by ','. In case of department, use [Organization]/[Department] mask.
certificateStatus	String	The status of the certificate. Use the following values: 0 = Any; 1 = Requested; 2 = Enrolled, Downloaded; 3 = Revoked; 4 = Expired;

		5 = Enrolled, Pending Download; 6 = Not Enrolled.
certificateDate	String	Date which should be used for check, use the following values: 0 = Enrolled Date; 1 = Downloaded Date; 2 = Revoked Date; 3 = Expire Date; 4 = Requested Date; 5 = Issued Date.

3.9.2 Return value - DeviceCertReportResponse

DeviceCertReportResponse - Generated report object that contains get Device Certificate Report operation status, message and ReportRowDeviceCert object array if succeed.

Method Name	Possible values(s)
int getStatusCode()	0=SUCCESSFUL;
String getMessage()	null
ReportRowDeviceCert[] deviceCertsReports	If status code=0, then ReportRowDeviceCert object array is succeed, empty array otherwise

3.9.2.1 ReportRowDeviceCert

Name	Type	Description
id	int	Device Certificate Id
commonName	String	Common Name
organization	WSOrganization	See section 3.1.2.5 WSOrganization
subject	String	Subject Name
email	String	E-mail
city	String	City

state	String	State
country	String	Country
orderNumber	long	Order Number
serialNumber	String	Serial Number
caId	int	CA Identifier
caName	String	CA Name
certTypeName	String	Device Certificate Type Name
keyUsage	String	Key Usages
extendedKeyUsage	String	Extended Key Usages
enrolled	Date	Certificate enrollment date
downloaded	Date	Certificate downloaded date
revoked	Date	Certificate revocation date
expire	Date	Certificate expiration date
enrollType	String	Certificate enrollment type
keySize	int	Key Size
keyAlgorithm	String	Key Algorithm
signatureAlgorithm	String	Signature Algorithm

3.9.2.2 Throws Exceptions

Method Name	Description
WSRuntimeException int getCode()	-14 = An unknown error occurred.
InvalidAuthException int getCode()	-100 = The URI of customer is invalid; -101 = The client admin is invalid; -102 = You are not authorized to execute get report service.
CheckParamException int getCode()	-103 = The type of certificate status is invalid; -104 = The date of certificate is invalid.