



MyID
Version 11.4

Credential Web Service

Lutterworth Hall, St Mary's Road, Lutterworth, Leicestershire, LE17 4PS, UK
www.intercede.com | info@intercede.com | [@intercedemyid](https://twitter.com/intercedemyid) | +44 (0)1455 558111

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Conventions Used in this Document

- Lists:
 - Numbered lists are used to show the steps involved in completing a task when the order is important
 - ♦ Bulleted lists are used when the order is unimportant or to show alternatives
- **Bold** is used for menu items and for labels.
 - For example:
 - ♦ “Record a valid email address in **‘From’ email address**”
 - ♦ Select **Save** from the **File** menu
- *Italic* is used for emphasis and to indicate references to other sections within the current document:
 - For example:
 - ♦ “Copy the file *before* starting the installation”
 - ♦ “See *Issuing a Card* for further information”
- ***Bold and italic*** are used to identify the titles of other documents
 - For example: “See the ***Release Notes*** for further information.”
 - Unless otherwise explicitly stated, all referenced documentation is available on the product media.
- A `fixed width` font is used where the identification of spaces is important, including filenames, example SQL queries and any entries made directly into configuration files or the database.
- **Notes** are used to provide further information, including any prerequisites or configuration additional to the standard specifications.
- For example:
 - Note:** This issue only occurs if updating from a previous version.
- Warnings are used to indicate where failure to follow a particular instruction may result in either loss of data or the need to manually configure elements of the system.
 - For example:

Warning: You must take a backup of your database before making any changes to it.

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1 Introduction

The Credential Web Service is an API that supports the following:

- Allow external sources to request the issuance of Mobile Devices and Microsoft Virtual Smart Cards (VSCs) by MyID®.
- Add and remove Additional Identities from MyID users.
- Unlock smart cards and tokens that support challenge/response unlocking.

This API contains no MyID authentication and relies instead on platform authentication such as mutual SSL on IIS. Details of configuring SSL on IIS can be found in the [Installation and Configuration Guide](#).

1.1 WSDL

You can obtain the WSDL for the web service by browsing to:

```
http://myserver.example.com/CredentialWebService/CredentialAPI.svc?singleWsd1
```

where `myserver.example.com` is the name of the server on which you have installed the Credential Web Service.

1.2 System architecture

To enable this API, select the **Credential Web Service** option when installing MyID.

The Credential Web Service is written as a WCF service in C#, with the intention that it is to be hosted on an IIS server with very restrictive access.

If the CWS is installed on a server that does not have the MyID application server software installed on it, you must install DCOM proxies to link it to a MyID application server. For information on setting up DCOM proxies, see the MyID [Installation and Configuration Guide](#).

1.3 Mobile identity issuance

If you want to use `RequestCredential` to enable issuing a mobile phone you must make sure that your system is configured for issuing mobile identities. See the [Mobile Identity Management Installation and Configuration Guide](#) for details.

1.4 Microsoft Virtual Smart Card issuance

If you want to use `RequestCredentialForDevice` to enable issuing a VSC you must make sure that your system is configured for issuing VSCs. See the MyID [VSC Integration Guide](#) for details.

1.5 Web server security

See the [System Security Checklist](#) for details of setting up security on MyID web services. You must set up security on the Credential Web Service in the same way as the other MyID server-to-server web services.

Note: By default, all methods on the CWS are locked down. You must enable them manually. See section 4, [Security](#) for details.

1.6 Change history

Version	Description
IMP1945-01	Released with MyID 11.0.
IMP1945-02	Released with MyID 11.1.
IMP1945-03	Released with MyID 11.2.
IMP1945-04	Released with MyID 11.3.
IMP1945-05	Released with MyID 11.4.

2 Setting up SMS Notifications

2.1 Configuring SMS messages

To allow MyID to send SMS messages, set the **SMS email notifications** on the **General** tab of the **Operation Settings** workflow to *Yes*.

2.2 Customizing the format of SMS messages

By default, SMS messages are sent to an Email to SMS gateway, in the format `<cellnumber>@<gateway>`, where:

- `<cellnumber>` – the cell phone number from the user's record.
- `<gateway>` – the URL from the **SMS gateway URL for notifications** option on the **General** tab of the **Operation Settings** workflow.

For example: 00447700900123@msggateway.com

If this is not suitable, you can customize the `sp_CustomPrepareSMS` stored procedure in the MyID database.

2.3 Configuring CWS to send OTP codes through SMS

Note: You cannot use the **Send Mobile OTP via SMS** configuration option to send notifications – this option is used for mobile credentials requested through the MyID user interface only.

OTP codes sent from MyID for mobile credentials requested using CWS use the **Mobile Provisioning Code** email template. You can edit this template using the **Email Templates** workflow.

If you want to send the OTP code to the mobile device using SMS, you must edit the **Mobile Provisioning Code** email template and set the **Transport** option to **sms**.

If you do not want to send the OTP code to the end user (because the OTP is returned to the CWS method as the `CollectionCode`, and you have a system in place to relay this to the user) you can deselect the **Enabled** option on the **Mobile Provisioning Code** email template.

3 Naming

3.1 Terminology

Name	Description	Examples
Person	A user account within MyID that will require issuance of credentials to represent their identity.	Employees, system administrators, MyID operators.
Device	A physical entity (typically with some form of computer processor) that will require issuance of credentials to represent its identity. It may comprise of one or more Device Elements. These items are held within the <code>Carriers</code> database table in MyID.	Computers, mobile phones, tablets, routers, firewalls.
Profile	A definition within MyID of the credentials to be issued, the device element to be used, the lifetime of the credentials, issuance process to be used and access permissions to the profile. These are managed within the Credential Profiles workflow in MyID.	See the MyID Administration Guide for further details about configuring profiles.
Job	An action within MyID that can be executed at a later date. Jobs may require validation before they are allowed to be actioned.	Card Issuance Job, Card Cancellation Job, Replacement Card Job.
Identity	A single Additional Identity. This identity consists of a DN, UPN, email address, and certificate policy.	A user may have an additional identity with credentials to authenticate to a second network.
Identities	A collection of Identity items.	A user may have a series of Additional Identities to access many secure environments.

3.2 Naming conventions

The naming convention for classes are:

- `[Name]` – Enough information to uniquely identify an entity of type `[Name]`.
- `[Name]Details` – Enough information to register a new entity of type `[Name]`.
- `[Name]Response` – Details returned from the server about the consequences of what just happened.
- `[Name]s` – a collection of entities of type `[Name]`.

4 Security

4.1 Method lockdown

By default, all methods on CWS are blocked. Attempting to invoke one produces a HTTP 501 Error code. You can enable individual methods by modifying the `MethodAccessControl.xml` file in the `CredentialWebService` folder. This XML file allows you to explicitly enable or disable individual methods, and also to enable or disable any future methods implemented in later versions of the web service.

Note: Once you have modified and saved the `MethodAccessControl.xml` file, you must restart IIS for the settings to take effect.

Once deployed, this file is never updated by CWS upgrades. If CWS is updated to have new methods on it, those methods may not be enabled until you have manually adjusted this file.

4.2 Default settings

The default content of the `MethodAccessControl.xml` file is:

```
<?xml version="1.0" encoding="utf-8" ?>
<Methods default="no">
  <Method name="RequestCredential">no</Method>
  <Method name="RequestCredentialForDevice">no</Method>
  <Method name="AssignAdditionalIdentities">no</Method>
  <Method name="RemoveAdditionalIdentities">no</Method>
  <Method name="RemoveAllAdditionalIdentities">no</Method>
  <Method name="RequestUnlockCodeForDevice">no</Method>
  <Method name="RenewCertificate">no</Method>
</Methods>
```

To enable a method, change the corresponding value from `no` to `yes`. Any value other than `yes` (case sensitive) results in the method being blocked.

The attribute `default` on the root node dictates what should happen to methods not explicitly mentioned in the whitelist.

To allow all methods, and all future methods, you can modify the file to have the following content:

```
<?xml version="1.0" encoding="utf-8" ?>
<Methods default="yes" />
```

5 Interface definition

5.1 RequestCredential

```
ProfileRequestResponse RequestCredential(
    ProfileRequest profileRequest,
    UserAccount target);
```

Creates a job to issue a credential to a user. This is restricted to Identity Agent credentials. Requesting a credential that is not configured to be an Identity Agent credential will result in an error. See the [Mobile Identity Management Installation and Configuration Guide](#) for further details.

Note: Requests through the API do not honor validation or role restrictions assigned to the credential profile.

The immediate response will return the fields `CollectionLink` and `CollectionCode`. These are the values that will be sent to the user as part of the issuance process.

The system will send the user an email message containing the link to start the process, and an SMS message containing the OTP required to complete the process; alternatively, your system may be configured so that users do not receive notifications as you have your own method of relaying this information to your users.

5.1.1 Inputs

Class	Field	Data Type	Description	Allow Null?
ProfileRequest			Parameters defining the credentials to be requested.	No
	ProfileName	String	The name of the credential profile that the Mobile Identity is to receive. Profiles are defined in MyID using the Credential Profiles workflow. The latest version of the specified profile will be used.	No
	ExplicitExpiryDate	DateTime	If present, the credential will expire on the specified date. It is not possible for this to extend the life of a credential beyond its profile value.	Yes
	JobLabel	String	If present, this will be passed through to the Job and can be used to search for the job.	Yes
UserAccount			Parameters defining the user who is to be issued the Mobile Identity.	No
	LogonName	String	The identifier for the system account that will own the Device and the credentials. A Device (phone) can have only a single owner.	No
	EmailAddress	String	If specified this value will be used to update the user's current email address; if not specified their current email address will be left unchanged.	Yes

Class	Field	Data Type	Description	Allow Null?
	MobileNumber	String	If specified this value will be used to update the user's current mobile phone number; if not specified their current mobile phone number will be left unchanged.	Yes

5.1.2 Output

Class	Field	Date Type	Description	Allow Null?
ProfileRequestResponse			Reports the details of the Job created.	No
	JobID	Integer	The MyID identifier for the request.	No
	JobStatus	String	"Created" if a certificate is to be issued prior to collection. This will be accompanied by the <code>DelayedProcess</code> node. "Awaiting Issue" if it is ready for immediate collection.	No
	CollectionLink	String	The link that the user should click to initiate the provisioning of the Mobile Identity. It is also sent in an email.	No
	CollectionCode	String	The code that the user should enter to authenticate the provisioning of the Mobile Identity. It is also sent in an SMS.	No
	DelayedProcess	Boolean	If this has a value of <code>true</code> , the request requires MyID to issue a certificate before it can be collected. Typically this takes a minute.	No

5.2 RequestCredentialForDevice

```
ProfileRequestResponse RequestCredentialForDevice (
    ProfileRequest profileRequest,
    UserAccount target,
    DeviceDetails deviceDetails);
```

Creates a job to issue a credential to a user for a specific device. This is restricted to VSC credentials and Identity Agent credentials. Requesting a credential that is not configured to be a VSC or an Identity Agent will result in an error.

5.2.1 Inputs

Class	Field	Data Type	Description	Allow Null?
ProfileRequest			Parameters defining the credentials to be requested.	No

Class	Field	Data Type	Description	Allow Null?
	ProfileName	String	The name of the credential profile to use for the VSC. Profiles are defined in MyID using the Credential Profiles workflow. The latest version of the specified profile will be used.	No
	ExplicitExpiryDate	DateTime	If present, the credential will expire on the specified date. It is not possible for this to extend the life of a credential beyond its profile value.	Yes
	JobLabel	String	If present, this will be passed through to the Job and can be used to search for the job.	Yes
UserAccount			Parameters defining the user who is to be issued the credential.	No
	LogonName	String	The identifier for the system account that will be issued the credential.	No
	EmailAddress	String	Not used.	Yes
	MobileNumber	String	Not used.	Yes
DeviceDetails			Identifies the Device that will host of the VSC. This must include at a minimum a <code>SerialNumber</code> OR <code>DNS</code> .	No
	SerialNumber	String	A value to identify the Device uniquely. If not supplied, a GUID will be generated for the Device.	Yes
	Type	String	The category of the device; for example "Workstation", "Mobile", "Appliance". If not supplied, it will default to "Asset".	Yes
	Description	String	A text description of the Device.	Yes
	DNS	String	The DNS entry for the device on the network.	Yes
	DN	String	The DN for the device. If left blank this will be constructed from the DNS entry.	Yes
	Active	Boolean	Is the Device currently active? If blank defaults to false. Setting this to false will prevent it from being used in new requests.	Yes
	Model	String	The model of the device.	Yes
	OS	String	The operating system on the device.	Yes

Class	Field	Data Type	Description	Allow Null?
	Fields		A collection of additional fields describing the Device. These fields are defined with the Project Designer tool. The Fields is a List of the type ExtendedField. ExtendedField contains two strings – Name and Value.	Yes

5.2.2 Output

Class	Field	Date Type	Description	Allow Null?
ProfileRequestResponse			Reports the details of the Job created.	No
	JobID	Integer	The MyID identifier for the request.	No
	JobStatus	String	"Awaiting Issue" if it is ready for immediate collection. "Awaiting Validation" if it requires validation before it can be collected.	No
	CollectionLink	String	Not used.	No
	CollectionCode	String	Not used.	No
	DelayedProcess	Boolean	Not used.	No

5.3 AssignAdditionalIdentities

```
int AssignAdditionalIdentities(
    UserAccount target,
    Identities identities);
```

The target is assigned the provided identities in addition to any they already have. A card update job is then created for each device the target has assigned to them that supports Additional Identities. Collecting this job will issue the new identities to that device.

5.3.1 Inputs

Class	Field	Data Type	Description	Allow Null?
UserAccount			Parameters defining the user who is to be assigned the Identities.	No
	LogonName	String	The identifier defining the user who is to be assigned the Identities.	No
	EmailAddress	String	The email address for the user who is to be assigned the Identities.	Yes
	MobileNumber	String	The mobile number for the user who is to be assigned the Identities.	Yes

Class	Field	Data Type	Description	Allow Null?
Identities			A collection of Identity items.	No
> Identity				Yes
	DistinguishedName	String	The distinguished name for the Identity.	No
	UPN	String	The user principal name for the Identity.	No
	EmailAddress	String	The email address for the Identity.	No
	CertificatePolicy	String	The display name of the certificate policy that is to be issued, as displayed in the Certificate Authorities workflow; for example, "PIVAuthentication" or "CIVContentSigningCert on VIN2012R2DC15". Ensure the certificate policy is enabled for Identity Mapping in the Certificate Authorities workflow.	No

5.3.2 Output

The method returns an integer. This number is the number of device update jobs that were created as a result of this action.

Note: The method creates update jobs whether or not the **Automatically create card update jobs when additional identities are modified** configuration option is set; note, however, that the method reports only the number of update jobs created by the API itself; if the configuration option is set to Yes, the MyID server components create the update jobs, and the method reports that no update jobs have been created.

5.4 RemoveAdditionalIdentities

```
int RemoveAdditionalIdentities(
    UserAccount target,
    Identities identities);
```

The target will have the specified identities removed from their account. If the target has a matching identity, any certificates issued to it will be immediately revoked. A card update job is then created for each device the target has assigned to them that supports Additional Identities. Collecting this job will erase the removed identities from that device.

If no `CertificatePolicy` is specified for an Identity, all Identities that match the `DistinguishedName`, `UPN` and `EmailAddress` are removed, regardless of their `CertificatePolicy`.

If the target does not have a matching Identity, no action is taken against that target. A device update job is still created.

5.4.1 Inputs

Class	Field	Data Type	Description	Allow Null?
UserAccount			Parameters defining the user who is to have Identities removed.	No
	LogonName	String	The identifier defining the user who is to have Identities removed.	No

Class	Field	Data Type	Description	Allow Null?
	EmailAddress	String	The email address for the user who is to have Identities removed.	Yes
	MobileNumber	String	who is to have Identities removed.	Yes
Identities			A collection of Identity items.	No
> Identity				Yes
	DistinguishedName	String	The distinguished name for the Identity to be removed.	No
	UPN	String	The user principal name for the Identity to be removed.	No
	EmailAddress	String	The email address for the Identity to be removed.	No
	CertificatePolicy	String	The type of certificate that is to be issued. A blank value will match against all Identities.	Yes

5.4.2 Output

The method returns an integer. This number is the number of device update jobs that were created as a result of this action.

Note: The method creates update jobs whether or not the **Automatically create card update jobs when additional identities are modified** configuration option is set; note, however, that the method reports only the number of update jobs created by the API itself; if the configuration option is set to Yes, the MyID server components create the update jobs, and the method reports that no update jobs have been created.

5.5 RemoveAllAdditionalIdentities

```
int RemoveAllAdditionalIdentities(
    UserAccount target);
```

The target will have all Identities removed from their account. Any certificates issued to these identities will be immediately revoked. A card update job is then created for each device the target has assigned to them that supports Additional Identities. Collecting this job will erase the removed identities from that device.

If the target does not have a matching Identity, no action is taken against that target. A device update job is still created.

5.5.1 Inputs

Class	Field	Data Type	Description	Allow Null?
UserAccount			Parameters defining the user who is to have Identities removed.	No
	LogonName	String	The identifier defining the user who is to have Identities removed.	No
	EmailAddress	String	The email address for the user who is to have Identities removed.	Yes
	MobileNumber	String	who is to have Identities removed.	Yes

5.5.2 Output

The method returns an integer. This number is the number of device update jobs that were created as a result of this action.

Note: The method creates update jobs whether or not the **Automatically create card update jobs when additional identities are modified** configuration option is set; note, however, that the method reports only the number of update jobs created by the API itself; if the configuration option is set to Yes, the MyID server components create the update jobs, and the method reports that no update jobs have been created.

5.6 RequestUnlockCodeForDevice

```
UnlockCodeResponse RequestUnlockCodeForDevice(
    Device target, string challenge);
```

Most devices support a challenge/response mechanism to unblock the user PIN. Supplying the device details and a challenge from a device will calculate and return the unlock code for that device.

If the end user has more than one device, you can use the Reporting web service API to retrieve a list of devices per person, and then allow the user to select the device they want to unlock.

MyID supports this unlock method for all smart cards and tokens that you can issue in MyID, with the exception of the following device families:

- Android System Store
- Android Work Profile Store
- Android Work Profile Wi-Fi
- Citrix Certificates Vault
- Citrix SecureVault
- HID Prox
- iOS System Store
- MobileIron AppConnect
- MyID Platform TPM v1.2
- Windows Hello

Note: Your system may not support these types of device. This list contains device families that are available in the current version of MyID, were available in a previous version of MyID, or are currently available only as proof-of-concept in MyID, and is not to be interpreted as a list of device families that are currently supported in MyID.

5.6.1 Inputs

Class	Field	Data Type	Description	Allow Null?
Device			Describes the device to be unlocked.	No
	SerialNumber	String	A value to identify the device uniquely.	No
	DeviceTypeName	String	The type of the device.	No
challenge		String	The challenge code generated by the device. This must not include formatting. This is case sensitive.	No

5.6.2 Output

The output contains details about the device that the unlock code is for, and the unlock code itself. The unlock code is unformatted and case sensitive.

If the specified device is either unknown, unissued, or disabled, an error is returned.

Class	Field	Date Type	Description	Allow Null?
UnlockResponse				No
	SerialNumber	String	The unique identifier for the device.	No
	DeviceTypeName	String	The type of the device.	No
	UnlockCode	String	The unlock code for the device. This is unformatted and case sensitive.	No

5.7 RenewCertificate

```
int RenewCertificate(CertificateDetails certificate);
```

The `RenewCertificate` method requests a certificate renewal job for the given certificate. This follows the normal certificate renewal rules with the following additional rules:

- The auto renewal status of the certificate is ignored. Any valid certificate is a candidate for renewal.
- Revoked or partially issued certificates are not allowed to be renewed.
- Expired certificates are allowed to be renewed only if the configuration flag **Renew Expired Certs Via API** (on the **Certificates** tab of the **Operation Settings** workflow) is set to **Yes**.
- There is no minimum lifetime for the certificate before it can be renewed. This allows the renewal process to also be used for certificate re-issuance or migration.
- Due to inconsistent behavior between CAs, it is unreliable to identify a certificate based on its serial number.

Note: If the certificate renewal process results in the creation of a card renewal job because the target device is due to expire soon, an exception will be thrown.

5.7.1 Inputs

Class	Field	Data Type	Description	Allow Null?
CertificateDetails				No
	SerialNumber	String	The serial number of the device to which the certificate is to be issued. Maps to: <code>Certificates.DeviceSerialNo</code>	No
	DeviceTypeName	String	The device type name of the device to which the certificate is to be issued. Maps to: <code>Certificates.DeviceTypeName</code>	No

Class	Field	Data Type	Description	Allow Null?
	Policy	String	The name for the certificate policy with which the certificate was issued. Maps to: <code>Certificates.CertPolicy</code>	No

The certificate that will be renewed will be the most recently issued certificate of the specified policy, on the specified device.

5.7.2 Output

The output is the job ID for the newly-created renewal job. Any failures to create this job will result in an exception being thrown. Possible error scenarios are:

- Certificate Not Found
- Certificate Revoked
- Certificate Expired
- Certificate Unsuitable
- Device Renewal Job Created

6 Error Messages

The following table lists the error messages that appear, and the requests that may cause them.

Message	Request
An unknown error has occurred.	Any
Only identity agent issuance is currently supported.	RequestCredential
Identity agent issuance is currently disabled.	RequestCredential
Credential profile has not been found.	RequestCredential RequestCredentialForDevice
The user has not been found.	RequestCredential RequestCredentialForDevice
The user has no contact details specified.	RequestCredential
The device must specify a DNS or SerialNumber.	RequestCredentialForDevice
More than one device was found, please make your criteria more specific.	RequestCredential
The device could not be created.	RequestCredentialForDevice
Credential profile is incompatible with this device.	RequestCredentialForDevice
The device must be active to request a credential.	RequestCredentialForDevice
The maximum number of Additional Identities has been exceeded.	AssignAdditionalIdentities
Credential is unknown.	RequestUnlockCodeForDevice
Credential is not issued.	RequestUnlockCodeForDevice
Credential is disabled.	RequestUnlockCodeForDevice
Unlock codes are not supported for this credential.	RequestUnlockCodeForDevice
Certificate Not Found.	RenewCertificate
Certificate is Revoked.	RenewCertificate
Certificate has Expired.	RenewCertificate
Certificate is Unsuitable.	RenewCertificate
Card Renewal Job created.	RenewCertificate

6.1 Further information

For details of the supported devices and credential profile configuration, see the [Mobile Identity Management Installation and Configuration Guide](#) and the [MyID Administration Guide](#).

For mobile credentials, recipient user accounts must have an email address, and, for SMS-based notifications, a cell phone number.

For further assistance, contact Intercede customer support.

7 Data Types

When passing optional parameters into the API it is quite forgiving when the data type is a `String` but for other data types it is not so forgiving.

The following examples pass an empty string as the parameter value:

```
<JobLabel/>
<JobLabel></JobLabel>
```

If the intention is to pass a null value then the node must be omitted entirely.

The following example will generate an error as the `ExplicitExpiryDate` is a data type `DateTime` which cannot accept an empty string so must contain a valid date or not be included.

```
<RequestCredential>
  <ProfileRequest>
    <ProfileName>My Credential Profile</ProfileName>
    <ExplicitExpiryDate/>
    <JobLabel/>
  </ProfileRequest>
  <UserAccount>
    <LogonName>Joe Bloggs</LogonName>
    <EmailAddress></EmailAddress>
    <MobileNumber/>
  </UserAccount>
</RequestCredential>
```

The following is a valid example with the optional nodes missing entirely.

```
<RequestCredential>
  <ProfileRequest>
    <ProfileName>My Credential Profile</ProfileName>
  </ProfileRequest>
  <UserAccount>
    <LogonName>Joe Bloggs</LogonName>
  </UserAccount>
</RequestCredential>
```

8 Troubleshooting

- Issue with notifications not being sent

If, after installing the Credential Web Service, you experience a problem with email or SMS notifications not being sent, restart the MyID application server to refresh the cache and pick up the Credential Web Service configuration changes.

- Phone number not appearing on screen

If you experience an issue with the mobile phone number not appearing on the stage immediately before sending the SMS (which is required to confirm that the SMS is being sent to the correct mobile device), make sure that the **Mobile Provision Via SMS** option (on the **Devices** tab of the **Operation Settings** workflow) is set to *Yes*.

- Certificate policy eligibility

The eligibility for a certificate policy to be used for an Additional Identity is checked at the point of issuance, not at the point of assignment. Ensure that only certificate policies that are configured in MyID to allow Identity Mapping are used when assigning identities to users.

8.1 Known issues

- **IKB-278 – Incorrect count of number of jobs returned after requesting addition or removal of additional identities**

If the calling system requests creation or removal of additional identities using the following methods:

- ♦ `AssignAdditionalIdentities`
- ♦ `RemoveAdditionalIdentities`
- ♦ `RemoveAllAdditionalIdentities`

the response will be either an error response or an integer. The integer may not accurately represent the number of jobs created; however, any integer (including 0) in this response does indicate that at least one job has been created. The number reported will be accurate only if the configuration option **Automatically create card update jobs when additional identities are modified** is set to *No*.