SailPoint IdentityIQ

Integration Guide with Blue Prism

Version 1.0

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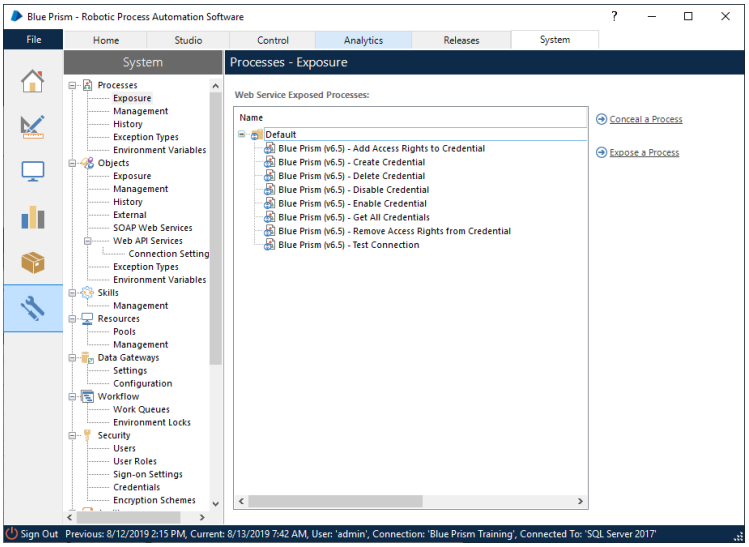
1. Integrating SailPoint IdentityIQ with Blue Prism

The following steps provide guidance on how to configure Blue Prism as a connected application within IdentityIQ. For more in-depth IdentityIQ information, please refer to SailPoint's knowledge base and documentation.

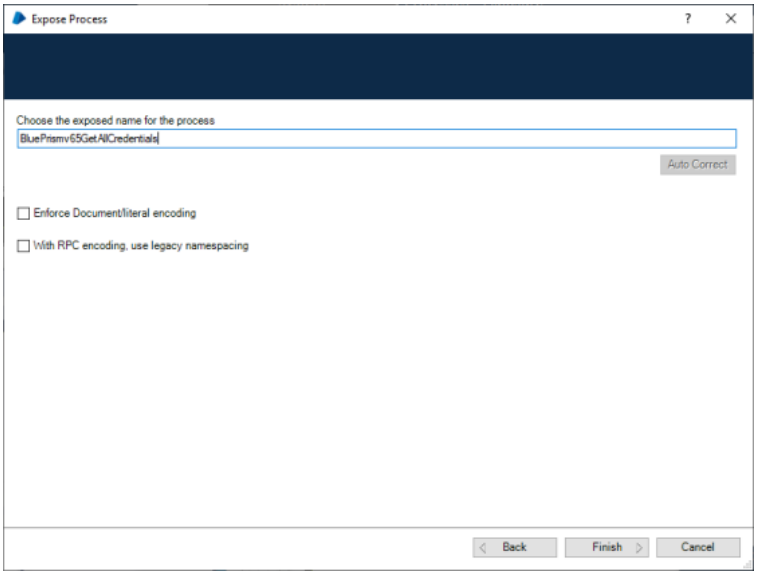
1.1. Expose Processes as Web Services

For additional guidance, please refer to the "v6.3 User Guide – Web Services" document on the Blue Prism portal. Essentially, each process in this package should be exposed as a Web Service by the following steps:

- Navigate to **System** > **Processes** > **Exposure** and select **Expose a Process**



- Select the process and click **Next**, followed by **Finish** to accept the default configuration.



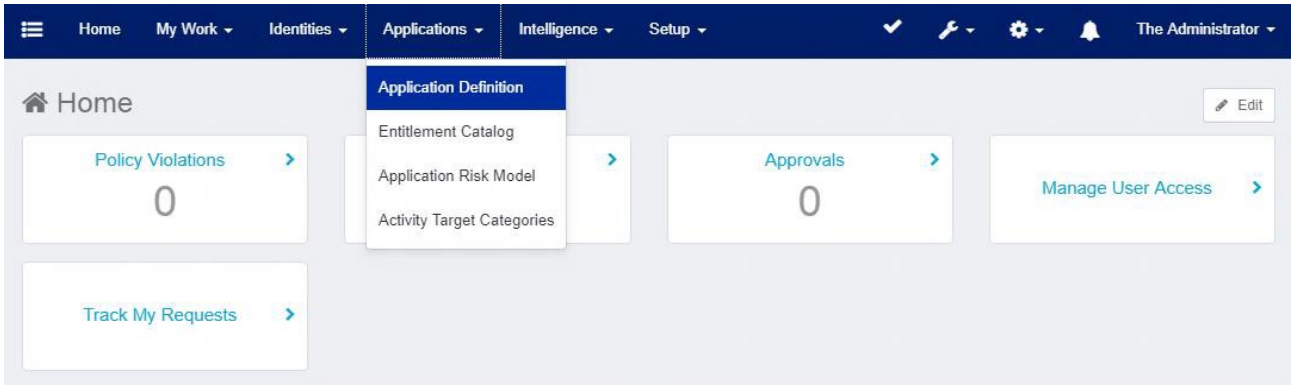
- Repeat the steps for each process included in the package.

1.2. Configure Blue Prism Processes in IdentityIQ

These steps will be carried out within IdentityIQ.

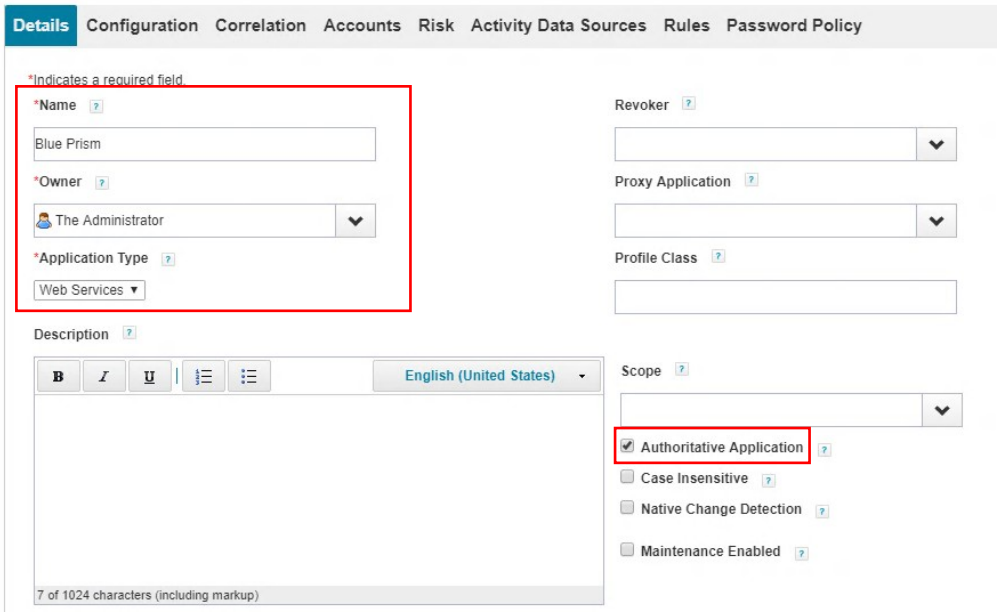
1.2.1. Create New Application in IdentityIQ

Navigate to **Applications** > **Application Definition** from IdentityIQ's home page once logged in as an administrator.



Click **Add New Application**

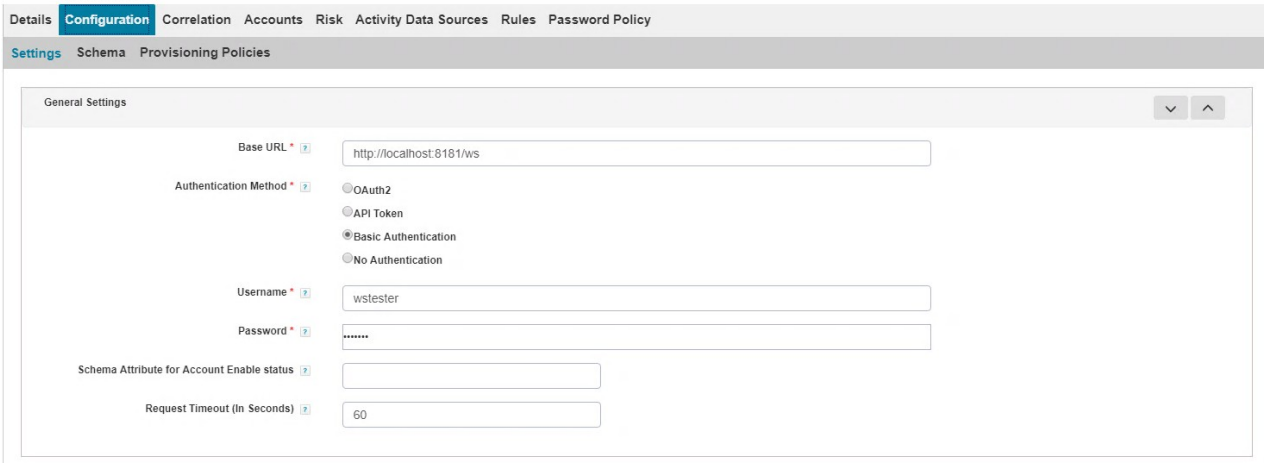
Fill out the basic details as highlighted below



1.2.2. Configure Blue Prism Web Service Settings in IdentityIQ

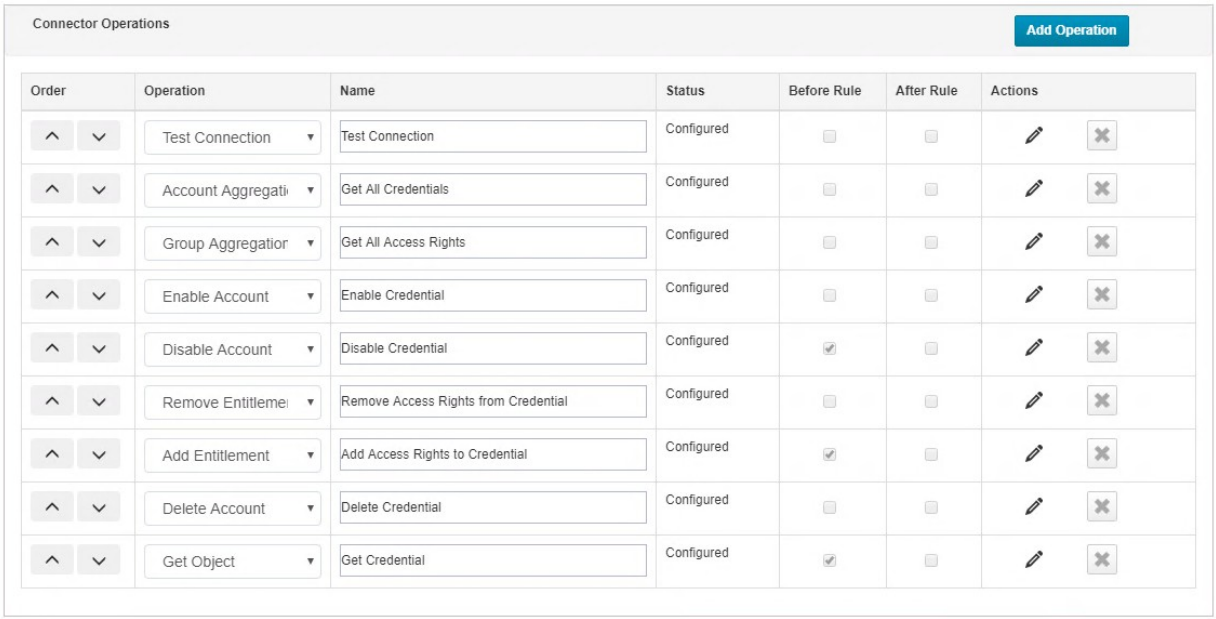
On the **Configuration**>**Settings** tab, enter the following general settings

- Base URL: **http://<hostname>:8181/ws/**
    - The hostname should be the name of the computer where Blue Prism is installed. If Blue Prism and IdentityIQ are installed on the same machine, a value of **localhost** can be used.
- Authentication: **Basic Authentication**
- Username: enter a Blue Prism username that possesses the ability to interact with credentials
- Password: enter the corresponding password for the Blue Prism username



1.2.3. Configure Blue Prism Operations

On the same **Configuration**>**Settings** page, each Blue Prism process should be configured as an IdentityIQ operation.



For each operation created in IdentityIQ, click the Pencil icon to edit and fill out the configuration details for each operation as detailed in the following sections.

1.2.3.1 Test Connection

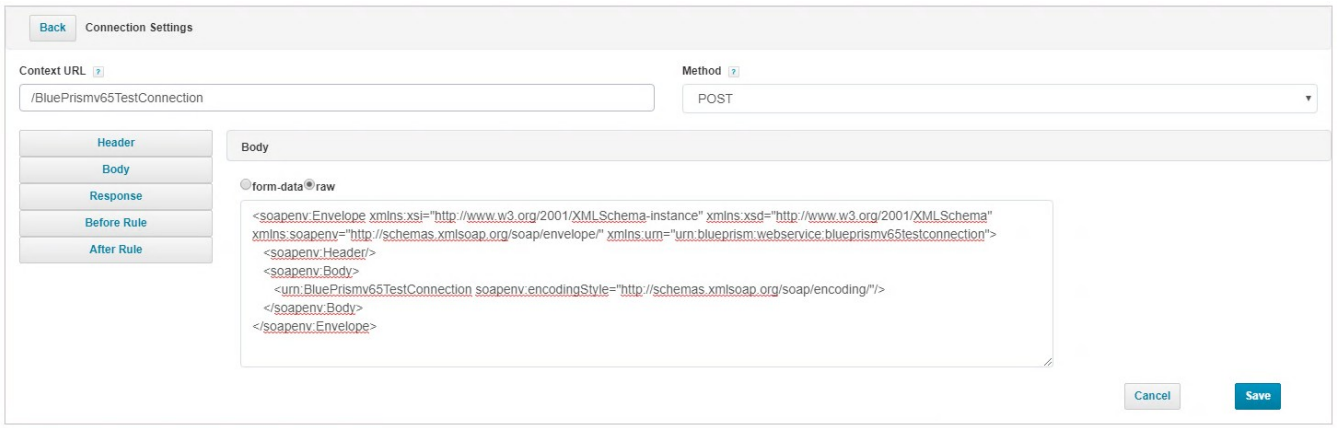
Set the following details on the configuration screen.

Context URL: `/BluePrismv65TestConnection`

Method: `POST`

Body:

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65testconnection">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65TestConnection
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
    </soapenv:Body>
</soapenv:Envelope>
```



1.2.3.2 Get All Credentials

This operation encompasses the Account Aggregation component in IIQ. It is called regularly to retrieve the updated list of all credentials and their current Access Rights in Blue Prism. Please note that the Response of this operation must be configured using XPath mapping as shown below for the Account Aggregation to function in IIQ.

Context URL: `/BluePrismv65GetAllCredentials`

Method: `POST`

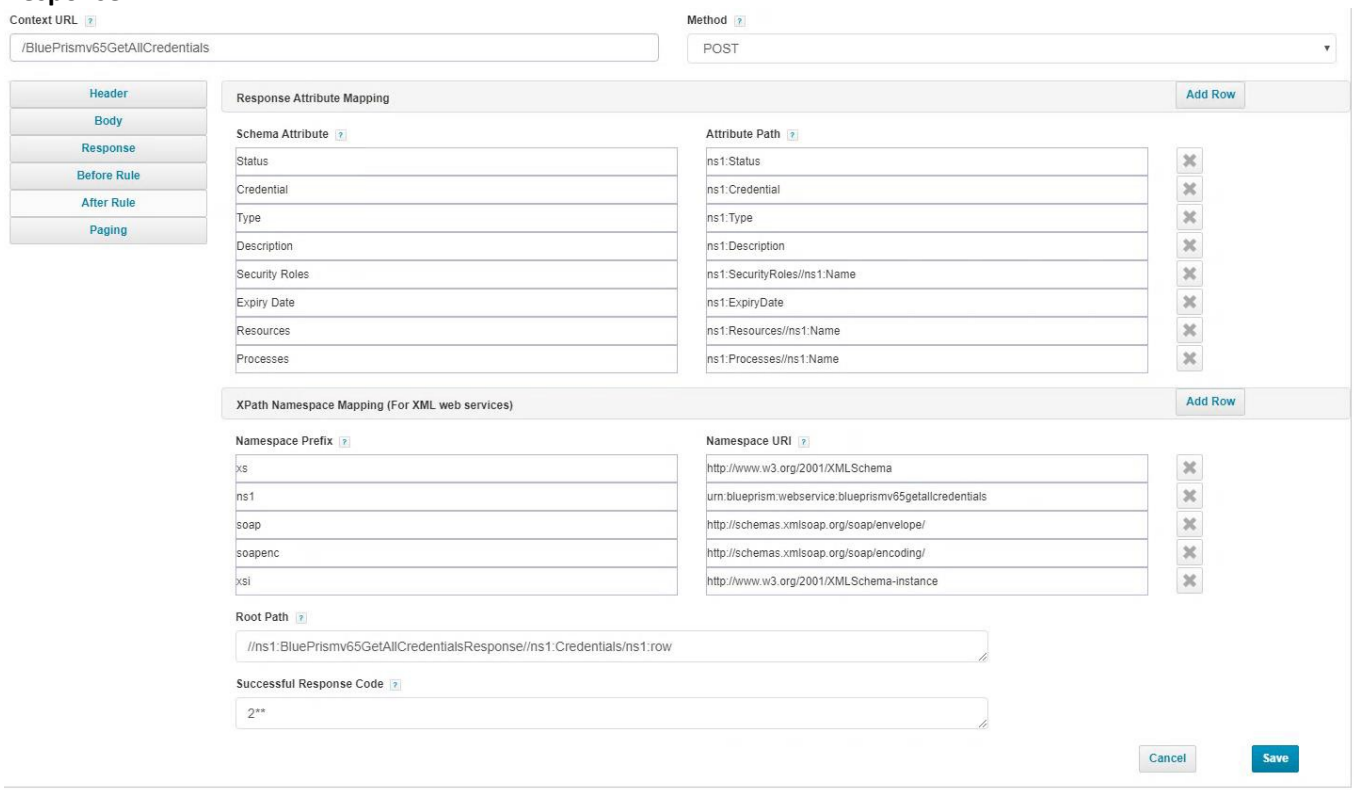
Body:

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65getallcredentials">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65GetAllCredentials
                soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
    </soapenv:Body>
</soapenv:Envelope>
```

Headers:

Key	Value
charset	utf-8
Accept	text/xml
Content-Type	text/xml

Response:



1.2.3.3 Get Credential

Context URL: `/BluePrismv65GetCredential`

Method: `POST`

Body:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65getcredential">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65GetCredential>
            <urn:SignInCredentialName>Blue Prism</urn:SignInCredentialName>
            <urn:SignInConnectionName>Default Connection</urn:SignInConnectionName>
            <urn:SingleSignOn>False</urn:SingleSignOn>
            <urn:CredentialName>$plan.nativeIdentity$</urn:CredentialName>
        </urn:BluePrismv65GetCredential>
    </soapenv:Body>
</soapenv:Envelope>
```

1.2.3.4 Get All Access Rights

This operation encompasses the Group Aggregation component in IIQ. It is called regularly to retrieve the updated list of all available Access Rights in Blue Prism. Please note that the Response of this operation must be configured using XPath mapping as shown below for the Group Aggregation to function in IIQ.

Context URL: `/BluePrismv65GetAllAccessRights`

Method: `POST`

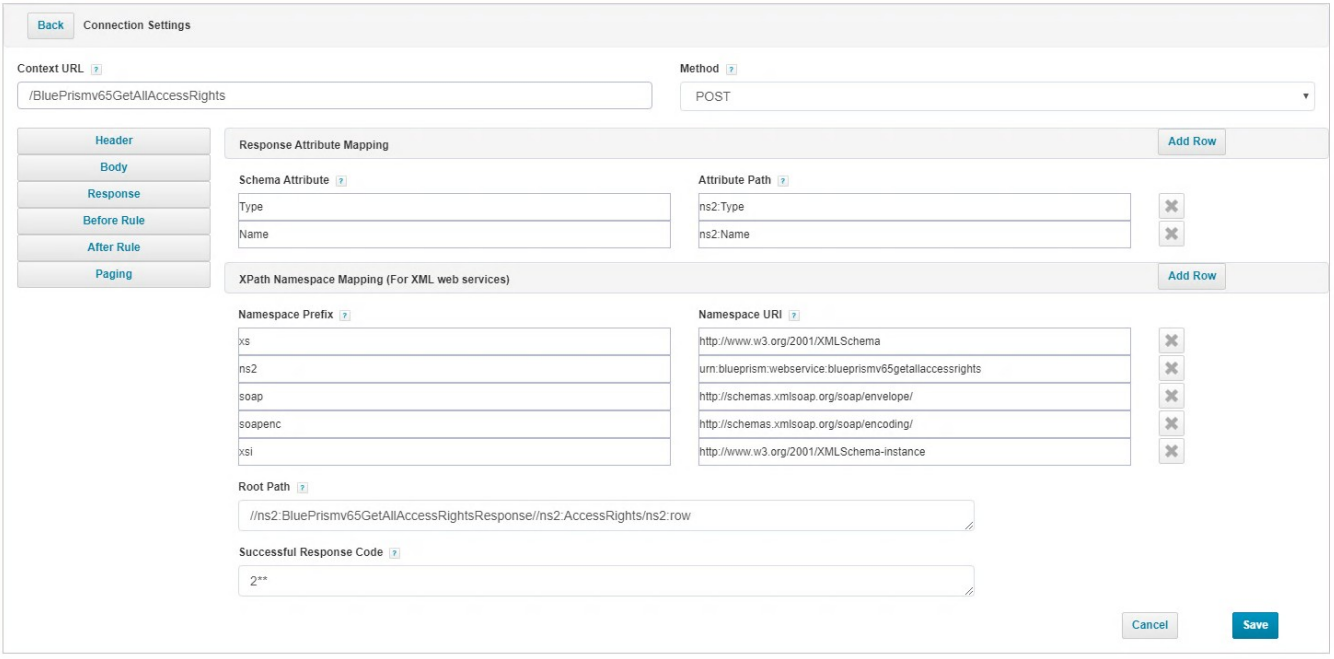
Body:

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65getallaccessrights">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65GetAllAccessRights
                soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>
    </soapenv:Body>
</soapenv:Envelope>
```

Headers:

Key	Value
charset	utf-8
Accept	text/xml
Content-Type	text/xml

Response:



1.2.3.5 Enable Credential

Context URL: `/BluePrismv65EnableCredential`

Method: `POST`

Body:

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65enablecredential">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65EnableCredential
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
            <SignInConnectionName xsi:type="xsd:string">Default Connection</SignInConnectionName>
            <SignInCredentialName xsi:type="xsd:string">Blue Prism</SignInCredentialName>
            <SingleSignOn xsi:type="xsd:boolean">False</SingleSignOn>
            <CredentialName xsi:type="xsd:string">$plan.nativeIdentity$</CredentialName>
        </urn:BluePrismv65EnableCredential>
    </soapenv:Body>
</soapenv:Envelope>
```

1.2.3.6 Disable Credential

Context URL: `/BluePrismv65DisableCredential`

Method: `POST`

Body:

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65disablecredential">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65DisableCredential
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
            <SignInConnectionName xsi:type="xsd:string">Default Connection</SignInConnectionName>
            <SignInCredentialName xsi:type="xsd:string">Blue Prism</SignInCredentialName>
            <SingleSignOn xsi:type="xsd:boolean">False</SingleSignOn>
            <CredentialName xsi:type="xsd:string">$plan.nativeIdentity$</CredentialName>
        </urn:BluePrismv65DisableCredential>
    </soapenv:Body>
</soapenv:Envelope>
```

1.2.3.7 Remove Access Rights

Context URL: /BluePrismv65RemoveAccessRights

Method: POST

Headers:

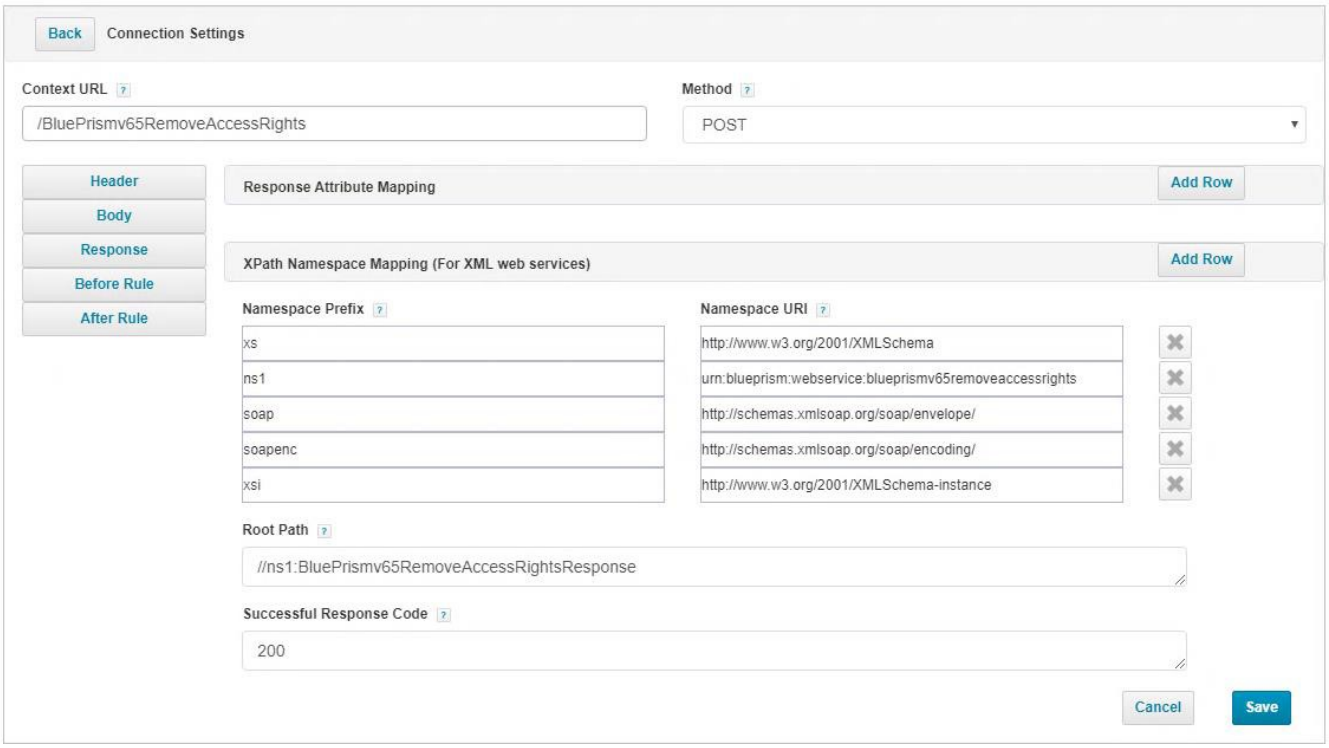
Key	Value
charset	utf-8
Accept	text/xml
Content-Type	text/xml

Body:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65removeaccessrights">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65RemoveAccessRights>
            <urn:SignInCredentialName>Blue Prism</urn:SignInCredentialName>
            <urn:SignInConnectionName>Default Connection</urn:SignInConnectionName>
            <urn:SingleSignOn>False</urn:SingleSignOn>
            <urn:CredentialName>$plan.nativeIdentity$</urn:CredentialName>
            <urn:SecurityRoles>
                  <urn:row>
                     <urn:Name>$plan.SecurityRoles$</urn:Name>
                     <urn:Enabled>False</urn:Enabled>
                  </urn:row>
               </urn:SecurityRoles>
            <urn:Processes>
                  <urn:row>
                     <urn:Name>$plan.Processes$</urn:Name>
                     <urn:Enabled>False</urn:Enabled>
                  </urn:row>
               </urn:Processes>
               <urn:Resources>
                     <urn:row>
                     <urn:Name>$plan.Resources$</urn:Name>
                     <urn:Enabled>False</urn:Enabled>
                  </urn:row>
               </urn:Resources>
            </urn:BluePrismv65RemoveAccessRights>
     </soapenv:Body>
  </soapenv:Envelope>
```

Remove Access Rights, continued

Response:



1.2.3.8 Add Access Rights

Context URL: `/BluePrismv65AddAccessRights`

Method: `POST`

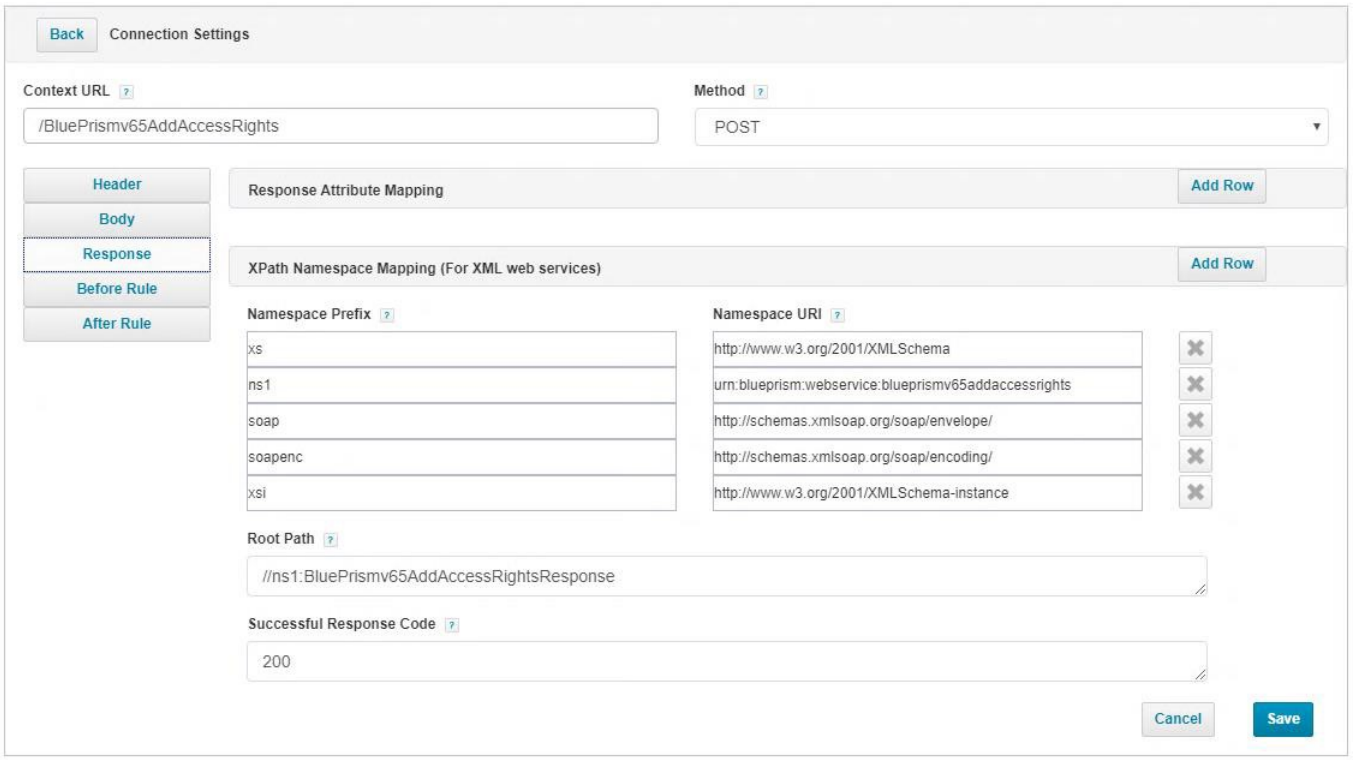
Headers:

Key	Value
charset	utf-8
Accept	text/xml
Content-Type	text/xml

Body:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65addaccessrights">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65AddAccessRights>
            <urn:SignInCredentialName>Blue Prism</urn:SignInCredentialName>
            <urn:SignInConnectionName>Default Connection</urn:SignInConnectionName>
            <urn:SingleSignOn>False</urn:SingleSignOn>
            <urn:CredentialName>$plan.nativeIdentity$</urn:CredentialName>
            <urn:SecurityRoles>
                <urn:row>
                    <urn:Name>$plan.SecurityRoles$</urn:Name>
                    <urn:Enabled>True</urn:Enabled>
                </urn:row>
            </urn:SecurityRoles>
            <urn:Processes>
                <urn:row>
                    <urn:Name>$plan.Processes$</urn:Name>
                    <urn:Enabled>True</urn:Enabled>
                </urn:row>
            </urn:Processes>
            <urn:Resources>
                <urn:row>
                    <urn:Name>$plan.Resources$</urn:Name>
                    <urn:Enabled>True</urn:Enabled>
                </urn:row>
            </urn:Resources>
        </urn:BluePrismv65AddAccessRights>
    </soapenv:Body>
</soapenv:Envelope>
```

Response:



1.2.3.9 Delete Credential

Context URL: `/BluePrismv65DeleteCredential`

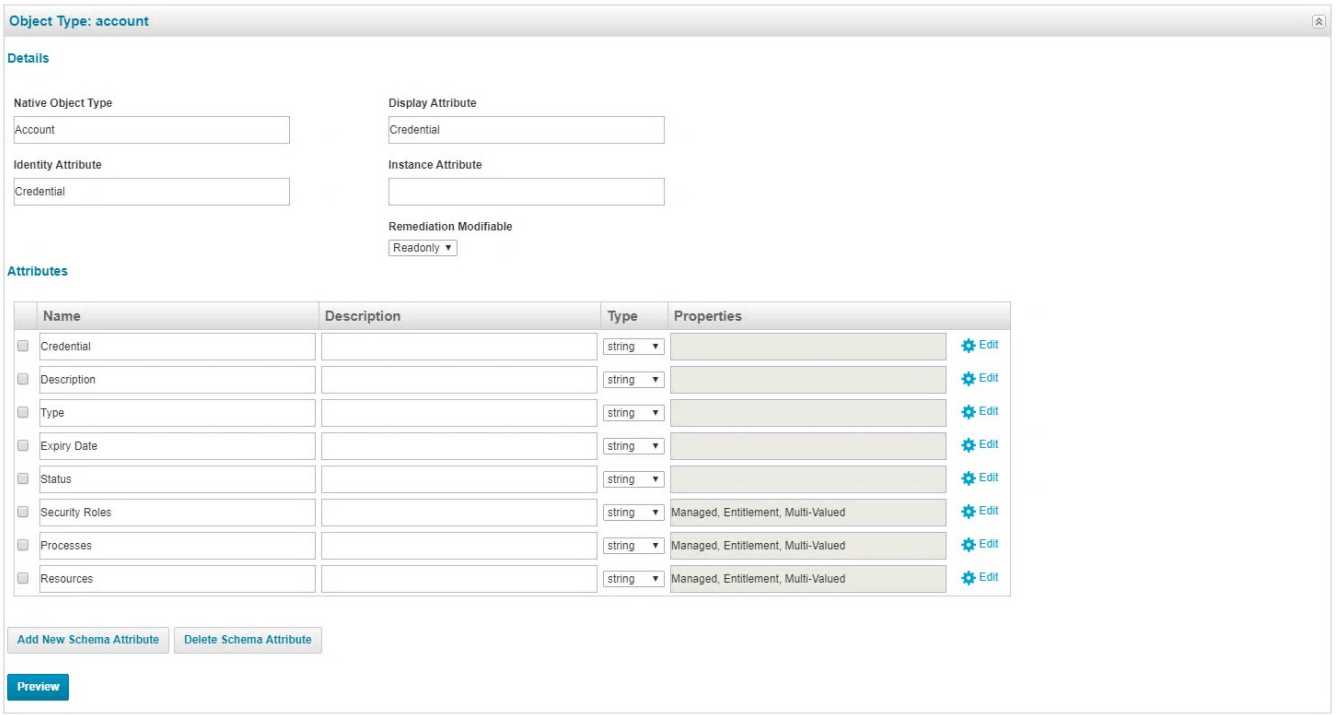
Method: `POST`

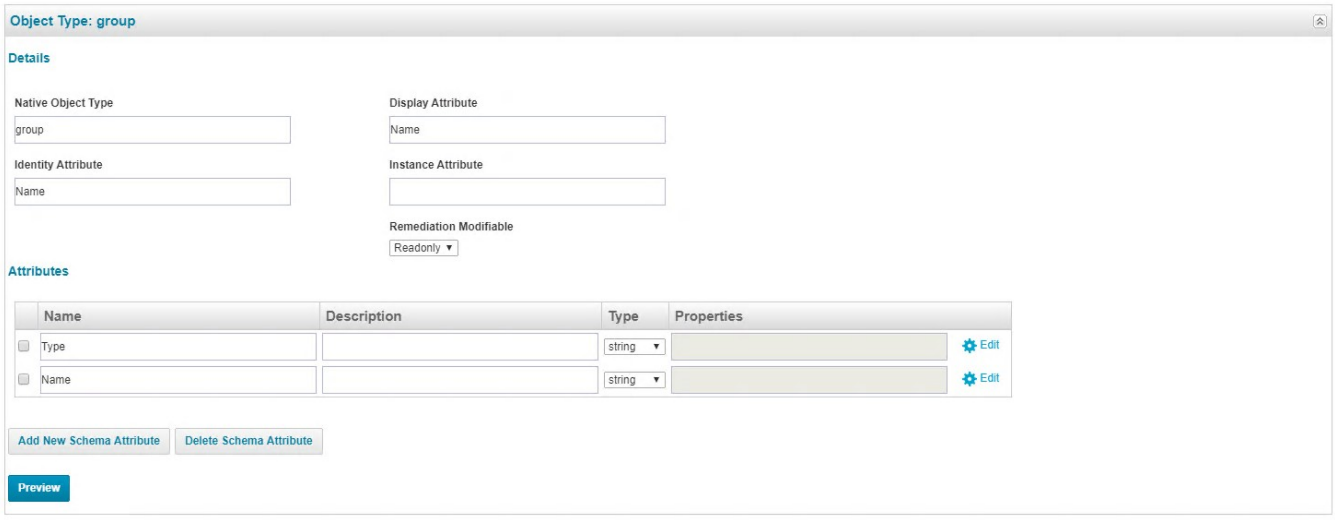
Body:

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:urn="urn:blueprism:webservice:blueprismv65deletecredential">
    <soapenv:Header/>
    <soapenv:Body>
        <urn:BluePrismv65DeleteCredential
soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
            <SignInConnectionName xsi:type="xsd:string">Default Connection</SignInConnectionName>
            <SignInCredentialName xsi:type="xsd:string">Blue Prism</SignInCredentialName>
            <SingleSignOn xsi:type="xsd:boolean">False</SingleSignOn>
            <CredentialName xsi:type="xsd:string">$plan.nativeIdentity$</CredentialName>
        </urn:BluePrismv65DeleteCredential>
    </soapenv:Body>
</soapenv:Envelope>
```

1.2.4. Configure Account and Group Aggregation

In the **Configuration**>**Schema** tab, set the following values for Account Aggregation and Group Aggregation.





1.2.5. Configure Enable and Disable Custom Rule

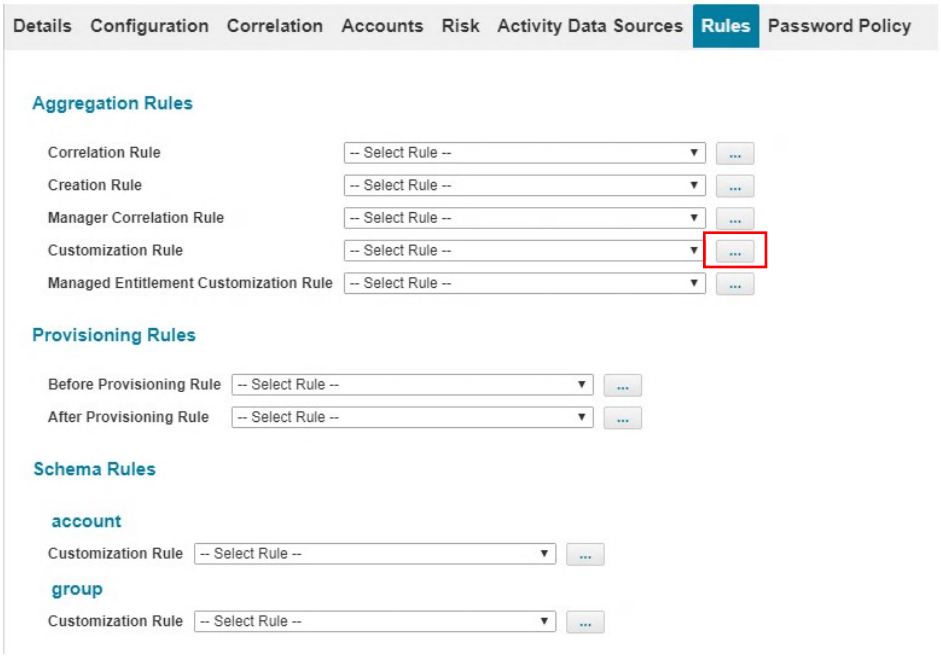
In order for the IdentityIQ interface to accurately reflect whether a Blue Prism credential is enabled or disabled (i.e. the "Mark as Invalid" checkbox is unchecked or checked, respectively), a custom rule must be created to set the "**IIQDisabled**" attribute for the credential when it changes status.

To do so, click **Applications** > **Application**

Definition Select the Blue Prism application

Select **"Rules"**

Within the **Aggregation Rules** heading, select the **ellipses button** to open the editor for the Customization Rule



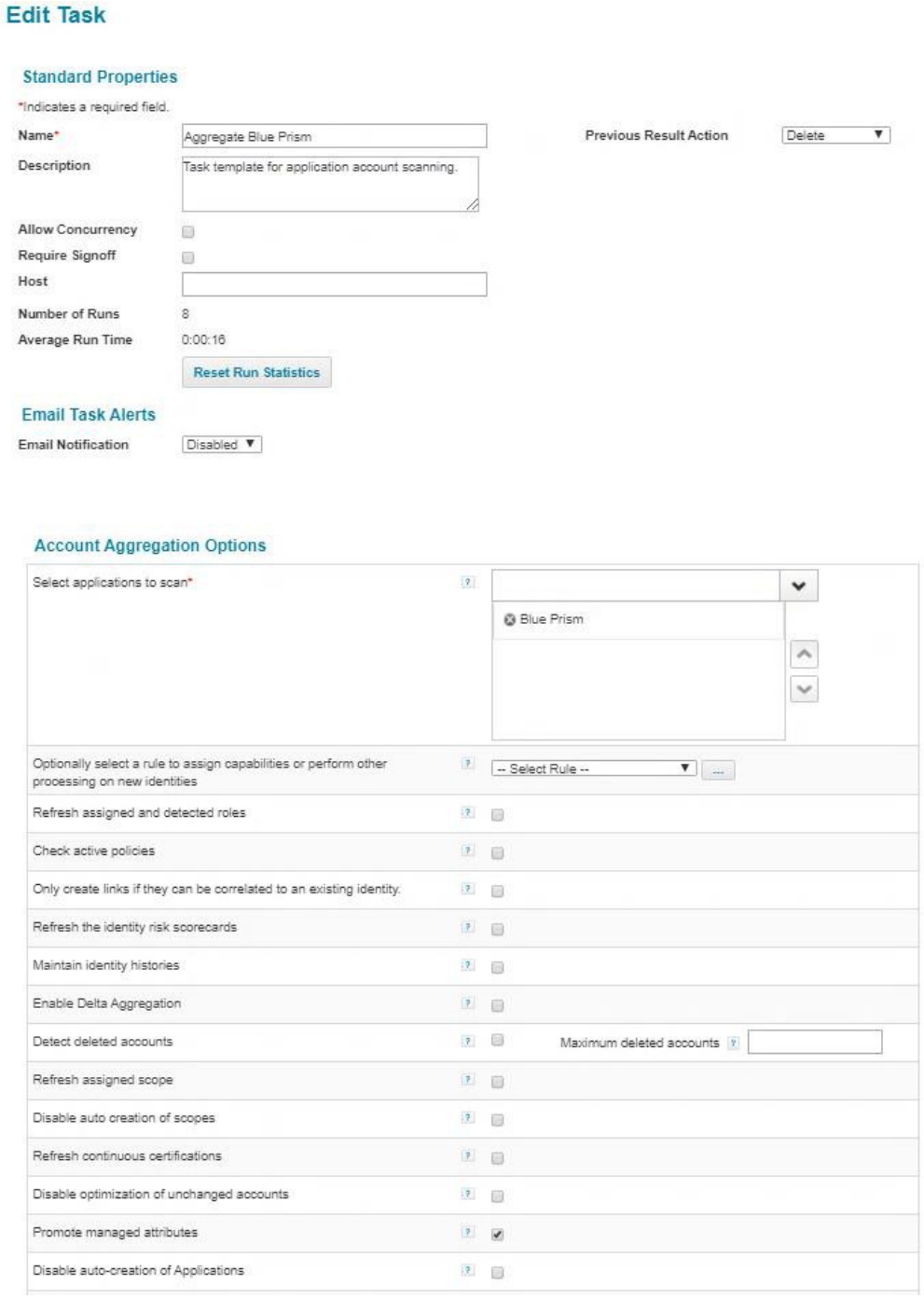
Give the rule a title, enter the following code, and save the rule:

```
String acctName = object.getIdentity();
// If Status has been populated with "Invalid" set the account to disabled.
String statusString = object.getAttribute("Status");
if ( (null != statusString) && (0 != statusString.length()) ) {
   if ("Invalid".equalsIgnoreCase(statusString)) {
      object.put("IIQDisabled", true);
   }
}
return object;
```

1.2.6. Configure Aggregation Task in IdentityIQ

The final step is to configure the Account and Group Aggregation operations as a Task in IdentityIQ. Once complete, this task will be able to execute the Blue Prism processes and gather the Credentials and Access Rights for usage in IdentityIQ.

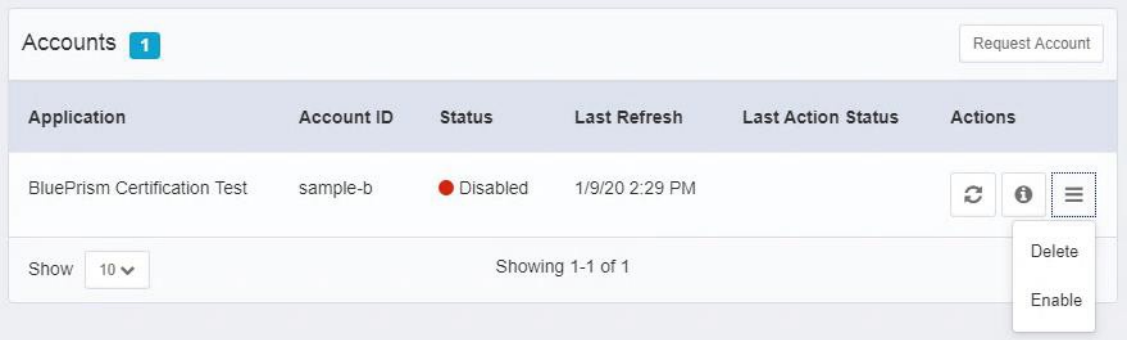
- Navigate to **Setup** > **Tasks** from the topmost toolbar in IdentityIQ.
- Select Create **New Task** > **Account Aggregation**
- Complete the form to match the following information and Save.



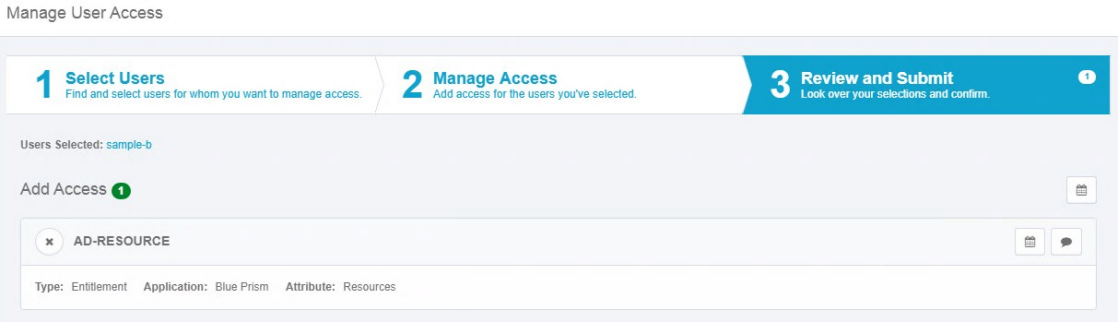
1.3. End to End Checklist

With the integration steps completed, the following actions should be functional within IdentityIQ

1. Enable, disable, and delete credentials from **Manage Access** > **Manage Accounts**



2. Add and Remove Access Rights from a Credential from **Manage Access** > **Manage User Access**



3. The Aggregation Task (in Setup > Tasks) can execute and gather current information about each Blue Prism credential and Access Rights.

2. Support

Support for this integration can be found in Compass.

SailPoint's knowledgebase, downloads, forums, requests for new Compass logins, and other useful information can be accessed on our Compass community: https://community.sailpoint.com/
If you have any issues with your Compass account or need to reset your password, please either use the links provided or send an email to compass@sailpoint.com. Please do not raise a ticket with Support as our Support organization does not administer Compass.