Register the schema - What you need to know

In this activity, you will add and register a new schema.

What is intent?

The term "intent" can be used to describe the XML file that is produced when a customer makes an order using external software, such as eCommerce sites, MIS systems, or planning systems. Intent describes what to print and how to print it. This typically includes information about which input files, process templates, and imposition files to use. It may also include instructions about how to name the job and where to store it (which server and job share).
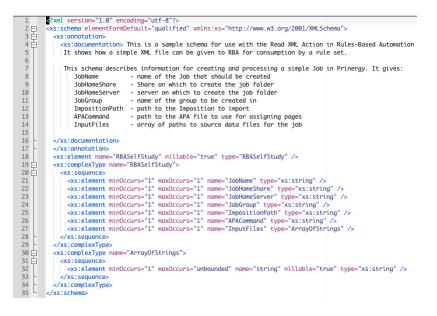An example of an XML "intent" file:

```
1   <?xml version="1.0" encoding="utf-8"?>
2   <RBASelfStudy xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
3       <JobName>XX_Job</JobName>
4       <JobHomeShare>AraxiVolume_HOSTNAME_DRIVELETTER</JobHomeShare>
5       <JobHomeServer>HOSTNAME</JobHomeServer>
6       <JobGroup>XX_Group</JobGroup>
7       <ImpositionPath>\\HOSTNAME\AraxiVolume_HOSTNAME_DRIVELETTER\RESOURCEDIRECTORY\AustraliaTour.pjtf</ImpositionPath>
8       <APACommand>ASSIGN="Aus Tours[#start]-[#end].p[#page].pdf" "*" [#start]+[#page]-1 1</APACommand>
9       <InputFiles>
10          <string>\\HOSTNAME\AraxiVolume_HOSTNAME_DRIVELETTER\RESOURCEDIRECTORY\Aus Tours1-16.ps</string>
11          <string>\\HOSTNAME\AraxiVolume_HOSTNAME_DRIVELETTER\RESOURCEDIRECTORY\Aus Tours17-32.ps</string>
12          <string>\\HOSTNAME\AraxiVolume_HOSTNAME_DRIVELETTER\RESOURCEDIRECTORY\Aus Tours33-48.ps</string>
13      </InputFiles>
14  </RBASelfStudy>
```

What is a schema?

A schema is a file that defines the attributes of the intent. This includes:

- The types of elements that are allowed in the document
- Their relationship to each other (for example, which elements contain other elements)
- The types of data that each element contains

An example of a schema:

```
1   <?xml version="1.0" encoding="utf-8"?>
2   <xs:schema elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3     <xs:annotation>
4       <xs:documentation> This is a sample schema for use with the Read XML Action in Rules-Based Automation
5       It shows how a simple XML file can be given to RBA for consumption by a rule set.
6
7       This schema describes information for creating and processing a simple Job in Prinergy. It gives:
8           JobName        - name of the Job that should be created
9           JobHomeShare   - Share on which to create the job folder
10          JobHomeServer  - server on which to create the job folder
11          JobGroup       - name of the group to be created in
12          ImpositionPath - path to the Imposition to import
13          APACommand     - path to the APA file to use for assigning pages
14          InputFiles     - array of paths to source data files for the job
15
16      </xs:documentation>
17     </xs:annotation>
18     <xs:element name="RBASelfStudy" nillable="true" type="RBASelfStudy" />
19     <xs:complexType name="RBASelfStudy">
20       <xs:sequence>
21         <xs:element minOccurs="1" maxOccurs="1" name="JobName" type="xs:string" />
22         <xs:element minOccurs="1" maxOccurs="1" name="JobHomeShare" type="xs:string" />
23         <xs:element minOccurs="1" maxOccurs="1" name="JobHomeServer" type="xs:string" />
24         <xs:element minOccurs="1" maxOccurs="1" name="JobGroup" type="xs:string" />
25         <xs:element minOccurs="1" maxOccurs="1" name="ImpositionPath" type="xs:string" />
26         <xs:element minOccurs="1" maxOccurs="1" name="APACommand" type="xs:string" />
27         <xs:element minOccurs="1" maxOccurs="1" name="InputFiles" type="ArrayOfStrings" />
28       </xs:sequence>
29     </xs:complexType>
30     <xs:complexType name="ArrayOfStrings">
31       <xs:sequence>
32         <xs:element minOccurs="1" maxOccurs="unbounded" name="string" nillable="true" type="xs:string" />
33       </xs:sequence>
34     </xs:complexType>
35   </xs:schema>
```

Why does the schema need to be registered for RBA?

Schemas enable RBA to interpret XML data submitted to a rule set. This makes it possible to integrate RBA with external systems, so that when an order is placed, processes run in Prinergy automatically.

For example, each time a customer places an order at an eCommerce site, the web site generates an XML file identifying the order details. When this XML file appears in a Prinergy hot folder, an RBA rule set uses the data in the file to automatically create a job, process the input file, and print the job.

Some eCommerce sites, for example, Kodak InSite Storefront, are already integrated with Prinergy and their schemas are automatically registered. However, other systems produce XML data that is not recognized by Prinergy. Their schemas need to be registered, so that Prinergy will be able to interpret their XML data.