



COLLEGE of AMERICAN
PATHOLOGISTS

Structured Data Capture (SDC) System Manual

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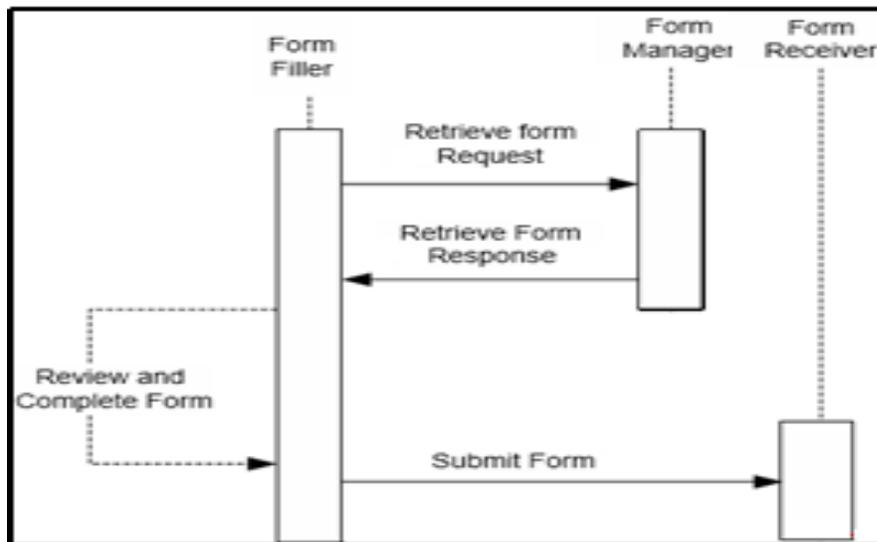
Table of Contents

- Structured Data Capture (SDC) System Manual..... 1
- Introduction.....2
 - Trademark and Copyright Notices3
- System Compatibility4
- Login Instructions5
 - Approach 1 – Via the CAP Website.....5
 - Approach 2 – Via Direct Login to the “CAP SDC” Web tool5
- CAP SDC Home Page.....6
 - Form Manager.....7
 - Form Filler16
 - Form Receiver29
 - Configuration31
 - Transaction Log.....35

Introduction

Structured Data Capture (SDC) allows for the creation of coherent standardized Question/Answer sets (QAS) in Data Entry Forms (DEFs). SDC includes the content and design of QAS items in DEFs on a computer screen, the behavior of DEFs during user-DEF interactions, the transfer and display of DEF user responses, storage of DEF-captured data, the allowance to re-edit the original DEF captured data as well as create reports based on the captured DEF data.

There are three primary actors in the SDC ecosystem, each of which is a diverse kind of node in an SDC transaction network:



1. Form Managers (FMs) store the Form Design Files (FDFs) in a repository and transfers them immediately in response to requests from Form Fillers (FFs). Form Creators upload FDFs to one or multiple Form Managers.

Form Fillers (FFs) retrieve FDFs from a Form Manager in the form of an HTML or URL from where the SDC HTML can be retrieved. FFs can also transform the XML as a DEF using programming languages, capture and validate the user-entered responses in the DEF, as well as implement rules that define the behaviors/actions of the forms in response to user interactions. Lastly, FFs can store and/or transfer the captured response data that is contained in the original FDF.

Form Receivers (FR) receive the SDC response data in an FDF-R (an FDF that contains user responses) file from the Form Filler and process the data according to their own needs. Form Receivers are also responsible for storing the SDC data as native SDC XML and/or in another storage format.

The CAP SDC tool is a browser-based tool that allows users to request an SDC form from the CAP Form Manager repository. The Form Filler can request available SDC packages in various formats such as XML, HTML and URI from the registered/authorized Form Manager. The Form Manager will process the request and returns the requested SDC form.

The Form Filler will input the data and submit the form response to the Form Receiver.

This user manual provides instructions for accessing the SDC tool from the CAP Server. It also provides an introduction to using the SDC tool, including instructions for viewing and interacting with various IHE transactions.

Comments and Contact Information

Please send comments/questions or feedback to the CAP SDT:

College of American Pathologists

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Phone: 847-832-7700

Trademark and Copyright Notices

©2018 College of American Pathologists. All rights reserved. "CAP SDT" is a trademark of the College of American Pathologists.

System Compatibility

The SDC web tool is compliant with the operating systems and browsers listed below.

<div style="border: 1px solid red; padding: 2px; margin-bottom: 5px;"> Windows 7, 8, 8.1 & 10 ✔ Compatible: ✘ Not Recommended </div> Websites and Applications	Microsoft Internet Explorer (10, 11)	Microsoft Edge	Mozilla Firefox	Google Chrome	Notes
SDC Web Tool	✔	✘	✔	✔	<ul style="list-style-type: none"> ▪ HOW TO ADJUST BROWSER SETTINGS ▪ Enable pop-ups ▪ Enterprise mode must be turned off (for IE11 only)

<div style="border: 1px solid red; padding: 2px; margin-bottom: 5px;"> Mac OSX ✔ Compatible: ✘ Not Recommended </div> Websites and Applications	Mac Safari (7.1, 8, 9)		Mozilla Firefox	Google Chrome	Notes
SDC Web Tool	✔		✔	✔	<ul style="list-style-type: none"> ▪ HOW TO ADJUST BROWSER SETTINGS ▪ Enable pop-ups ▪ For IE 11 Only: Enterprise mode must be turned off

Login Instructions

There are two approaches to access and navigate the “CAP SDC” web tool.

Approach 1 – Via the CAP Website

1. Click the following CAP website link <http://www.cap.org/capeCC>
2. Then click “**Access CAP SDC Tool**” on the right site. This will take you to the CAP SDC Tool Home page.

Approach 2 – Via Direct Login to the “CAP SDC” Web tool

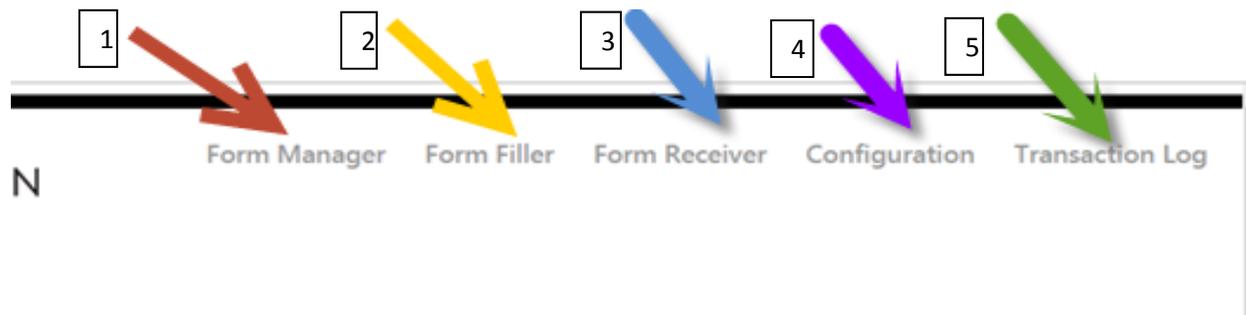
1. Click the following CAP SDC website link. This will take you to the **CAP SDC Tool** Home page.
<https://sdt.cap.org/SDCApp/Index.aspx>

CAP SDC Home Page

After launching SDC web tool in the browser, <https://sdt.cap.org/SDCApp/Index.aspx> Users will be presented with the SDC home page.

SDC home page includes various options at the right hand side top mentioned here-

1. [Form Manger](#) – Lists all the available packages and Option to upload new SDC forms.
2. [Form Filler](#) – Request SDC forms from authorized Form Manager in the specific content format with an option to send form to more than one form receiver.
3. [Form Receiver](#) – Receives form and displays submitted content of the received form.
4. [Configuration](#) – This option supports adding new form mangers and form receivers.
5. [Transaction Log](#) – Displays all the transactions that occurred between various actors.



Form Manager

After clicking on the “[Form Manager](#)” option at the top of the page, users will be presented with all the available forms in the Form Manager Repository.

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			Form Manager Form Filler Form Receiver Configuration Transaction Log							
Form Manager										
Available Packages										
Package Id	Package Name	Form Id	Form Name	Submit Endpoint	Validation Path	Transform Path	Date Uploaded	View XML	View HTML	Update
PKG_Adrenal	Adrenal Gland	FORM_Adrenal	ADRENAL GLAND	CDC	NewSchema	Working	11/14/2017 5:49:00 AM	View XML	View HTML	Update
PKG_Adrenal+Demog	Adrenal Gland w Demog	FORM_Adrenal	ADRENAL GLAND	CDC	NewSchema	Working	11/30/2017 2:28:00 PM	View XML	View HTML	Update
PKG_AmpullaofVater	AMPULLA OF VATER	131.100004300	AMPULLA OF VATER	CDC	NewSchema	Working	11/30/2017 2:22:00 PM	View XML	View HTML	Update
PKG_ANUSBx	ANUS Biopsy	133.100004300	ANUS	CDC	NewSchema	Working	11/30/2017 3:48:00 PM	View XML	View HTML	Update
PKG_AnusResection	ANUS Resection	134.100004300	ANUS	CDC	NewSchema	Working	11/30/2017 3:47:00 PM	View XML	View HTML	Update
PKG_APPENDIX	APPENDIX NEUROENDOCRINE TUMOR	193.100004300	APPENDIX NEUROENDOCRINE TUMOR	CAP-PROD	NewSchema	Working	3/20/2018 9:44:00 AM	View XML	View HTML	Update
PKG_Appendix_Net	APPENDIX NEUROENDOCRINE TUMOR	193.100004300	APPENDIX NEUROENDOCRINE TUMOR	CAP-PROD	NewSchema	Working	6/1/2018 11:49:00 AM	View XML	View HTML	Update
PKG_APPENDIXResection	APPENDIX: Resection	135.100004300	APPENDIX	CAP-PROD, CDC-ECR, CDC-CR	NewSchema	Working	3/20/2018 9:45:00 AM	View XML	View HTML	Update
PKG_Bone_Marrow	Bone Marrow	FORM_Bone	BONE MARROW	CDC	NewSchema	Working	11/28/2017 5:07:00 PM	View XML	View HTML	Update
PKG_Breast_Bmk	Breast Biomarker	FORM_Breast_Bmk	Breast Biomarker Reporting Template	CDC	NewSchema	Working	11/15/2017 2:12:00 PM	View XML	View HTML	Update
PKG_Breast_Bmk+Demog	Breast Biomarkers w Demog	FORM_Breast_Bmk	Breast Biomarker Reporting Template	CDC	NewSchema	Working	11/15/2017 2:28:00 PM	View XML	View HTML	Update
PKG_Colorectal_Bmk+Demog	Colorectal Bmk w Demog	FORM_Colon_Bmk	Colon and Rectum Biomarker Reporting Template	CDC	NewSchema	Working	2/22/2018 3:00:00 PM	View XML	View HTML	Update
PKG_ColorectalBiomarker	Colorectal Biomarker	228.100004300	Colon and Rectum Biomarker Reporting Template	CDC	NewSchema	Working	1/25/2018 10:31:00 AM	View XML	View HTML	Update
PKG_DISTAL_EXTRAHEPATIC_BILE_DUCTS	DISTAL EXTRAHEPATIC BILE DUCTS	142.100004300	DISTAL EXTRAHEPATIC BILE DUCTS	CAP-PROD	NewSchema	Working	3/20/2018 9:46:00 AM	View XML	View HTML	Update
PKG_INTRAHEPATIC_BILE_DUCTS	INTRAHEPATIC BILE DUCTS	194.100004300	INTRAHEPATIC BILE DUCTS	CAP-PROD	NewSchema	Working	3/20/2018 9:48:00 AM	View XML	View HTML	Update

CAP Form Manager displays all the available Packages with the following information:

- Package Id – Package Identifier (CAP prefixes all the packages with PKG_***)
- Package Name – Name of the Package
- Form Id - Name of the form Id (Ckey for eCC SDC forms)
- Form Name – Name of the SDC form
- Default Submission Endpoints registered with the package
- Date Uploaded- Displays when form was registered with the form manager
- Validation Path – SDC schema version

Note-SDC has gone through various phases and hence different versions are available, recommend using the latest versions, unless legacy support required.

1. On this page, authorized user can add a new SDC Package by clicking on “choose file”, which is indicated by the **green arrow** below.
2. The user can view a previously uploaded package in the XML (**orange arrow**).
3. The user can view a previously uploaded package in the HTML (**red arrow**) format.
4. Update a package if they choose to do so by clicking on the underlined “update” option indicated by the **blue arrow**.

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Form Manager Form Filler Form Receiver Configuration Transaction Log

Form Manager

Available Packages

Package Id	Package Name	Form Id	Form Name	Submit Endpoint	Validation Path	Transform Path	Date Uploaded			
PKG_Adrenal	Adrenal Gland	FORM_Adrenal	ADRENAL GLAND	CAP_JBS	NewSchema	Working	11/14/2017 5:49:00 AM	View XML	View HTML	Update
PKG_Adrenal-Demog	Adrenal Gland w Demog	FORM_Adrenal	ADRENAL GLAND	CDC-CR	NewSchema	Working	11/30/2017 2:28:00 PM	View XML	View HTML	Update
PKG_AmpullaofVater	AMPULLA OF VATER	131.100004300	AMPULLA OF VATER	CDC-CR	NewSchema	Working	11/30/2017 2:22:00 PM	View XML	View HTML	Update
PKG_ANUSBx	ANUS Biopsy	133.100004300	ANUS	CDC-CR	NewSchema	Working	11/30/2017 3:48:00 PM	View XML	View HTML	Update
PKG_AnusResection	ANUS Resection	124.100004300	ANUS	CAP	NewSchema	Working	11/30/2017 3:47:00 PM	View XML	View HTML	Update
PKG_Appendix	APPENDIX NEUROENDOCRINE TUMOR	193.100004300	APPENDIX NEUROENDOCRINE TUMOR	CAP	NewSchema	Working	4/4/2018 11:17:00 AM	View XML	View HTML	Update
PKG_Bone_Marrow	Bone Marrow	FORM_Bone	BONE MARROW	CDC-CR	NewSchema	Working	11/28/2017 5:07:00 PM	View XML	View HTML	Update
PKG_Breast Invasive MEE	Breast Invasive MEE	189.100004300	INVASIVE CARCINOMA OF THE BREAST	CAP	NewSchema	Working	2/11/2018 2:35:00 PM	View XML	View HTML	Update
PKG_Breast VEK	Breast VEK	189.100004300	INVASIVE CARCINOMA OF THE BREAST	CDC-CR	Schema	Ver4	2/11/2018 2:42:00 PM	View XML	View HTML	Update
PKG_Breast-JLW	Breast-JLW	189.100004300	INVASIVE CARCINOMA OF THE BREAST	CDC-CR	NewSchema	Working	2/11/2018 2:33:00 PM	View XML	View HTML	Update
PKG_Breast_Bmk	Breast Biomarker	FORM_Breast_Bmk	Breast Biomarker Reporting Template	CDC-CR	NewSchema	Working	11/15/2017 2:12:00 PM	View XML	View HTML	Update
PKG_Breast_Bmk-Demog	Breast Biomarkers w Demog	FORM_Breast_Bmk	Breast Biomarker Reporting Template	CDC-CR	NewSchema	Working	11/15/2017 2:28:00 PM	View XML	View HTML	Update
PKG_Breast_Bmk_1.002.001	Breast Biomarker 1.002.001			CAP	NewSchema	Working	5/22/2018 4:40:00 PM	View XML	View HTML	Update
PKG_BreastBioMarkerEO	BreastBioMarkerEO	189.100004300	INVASIVE CARCINOMA OF THE BREAST	CDC-CR	Schema	Ver4	2/11/2018 2:36:00 PM	View XML	View HTML	Update
PKG_BreastInv_RWS	2018BreastInv_RWS	189.100004300	INVASIVE CARCINOMA OF THE BREAST	CDC-CR	Schema	Ver4	2/11/2018 2:38:00 PM	View XML	View HTML	Update

Upload New SDC Package

Choose File No file chosen

Package ID:

Package Name:

Submit Endpoint: CAP - https://pacprotds04.cap.org/SDCApp/Services/formreceiver.asmx
 CDC - https://10.242.12.31/tdsc/Service/Service.asmx
 CR - https://tdscprod.acurawebbase.net/SDCService.asmx
 JBS - https://interopdemo_ibsinformational.com/In/SubmitForm_Port_Boa012

Validation Path: Schema

Transform Path: Ver4

Upload

When uploading a new file, click on “choose file” and navigate the finder window to choose the SDC compliance file that needs to be uploaded. Only SDC-compliant files can be uploaded.

If no file is chosen then the error message shown below will pop up.

sdt.cap.org says

Please select a file to upload.



If a file is chosen that is not SDC-compliant, then “Invalid file format” error message will pop up, indicating that the file chosen is not SDC -compliant and a different file must be chosen to upload.

If No Package ID information is entered then the error message shown below will pop up.

sdt.cap.org says

Please enter package id.

OK

If No Package Name is entered then the error message shown below will pop up.

sdt.cap.org says

Please enter package name.

OK

If the user tries to upload a package without selecting a submit endpoint, this error message will appear:

sdt.cap.org says

Please select submit url(s) for this package

OK

User should fill out the remaining fields as shown in the example below of a Kidney Nephrectomy Package:

Upload New SDC Package

Choose File KidneyNeph... 1_SDC.xml

Name: KidneyNephrectomy_3.001.001_SDC.xml
Size: 46.55KB
Type: text/xml

Package ID

Package Name

Submit Endpoints
CAP - https://pappsnotds04.cap.org/SDCApp/Services/formreceiver.asmx
CDC - https://10.242.12.3/rfdscService/Service.asmx
CCR - https://sdc.pilot.azurewebsites.net/SDCService.asmx
JBS - https://interopdemo.jbsinternational.com/lhe/SubmitForm_Port_Soap12

Validation Path

Transform Path

1. For the Package ID (**orange arrow**), start by labeling the item with “PKG_[insert title]”.
2. The Package Name (**purple arrow**) can be a user chosen, user friendly form label.
3. The user then selects the endpoints for the package being uploaded which designates the destination of package (**red arrow**). The user is allowed to choose multiple endpoints.
4. Fill out Validation Path (**yellow arrow**).
5. Fill out Transform Path (**blue arrow**) from pick list choices as shown in the image above.
6. Then, click “upload” (**green arrow**), which is seen at the bottom of the image above.
7. The package will be added to the “Available Packages” list under the Form Manager page (**purple arrow**) below.
8. A confirmation of the upload will also be displayed at the top (**red arrow**).
9. The package will also display the date and time of upload (**green arrow**):

Form Manager

Available Packages

Package Id	Package Name
PKG_BreastInv_RWS	2018BreastInv_RWS
PKG_Colorectal_Bmk+Demog	Colorectal Bmk w Demog
PKG_ColorectalBiomarker	Colorectal Biomarker
PKG_Kidney	Kidney

Transform	Date Uploaded	View XML	View HTML	Update
Ver4	2/11/2018 2:38:00 PM	View XML	View HTML	Update
Working	2/26/2018 2:55:00 PM	View XML	View HTML	Update
Working	1/25/2018 10:31:00 AM	View XML	View HTML	Update
Working	6/1/2018 2:25:00 PM	View XML	View HTML	Update
Working	11/29/2017 2:42:00 PM	View XML	View HTML	Update
Working	2/11/2018 1:26:00 PM	View XML	View HTML	Update
Working	1/17/2018 6:25:00 AM	View XML	View HTML	Update
Ver4	3/14/2018 5:06:00 PM	View XML	View HTML	Update
Working	1/18/2018 6:24:00 AM	View XML	View HTML	Update
Working	5/31/2018 8:58:00 AM	View XML	View HTML	Update
Working	6/1/2018 11:49:00 AM	View XML	View HTML	Update

pappsnodts04.cap.org says
Form-ID:PKG_Kidney was uploaded.

OK

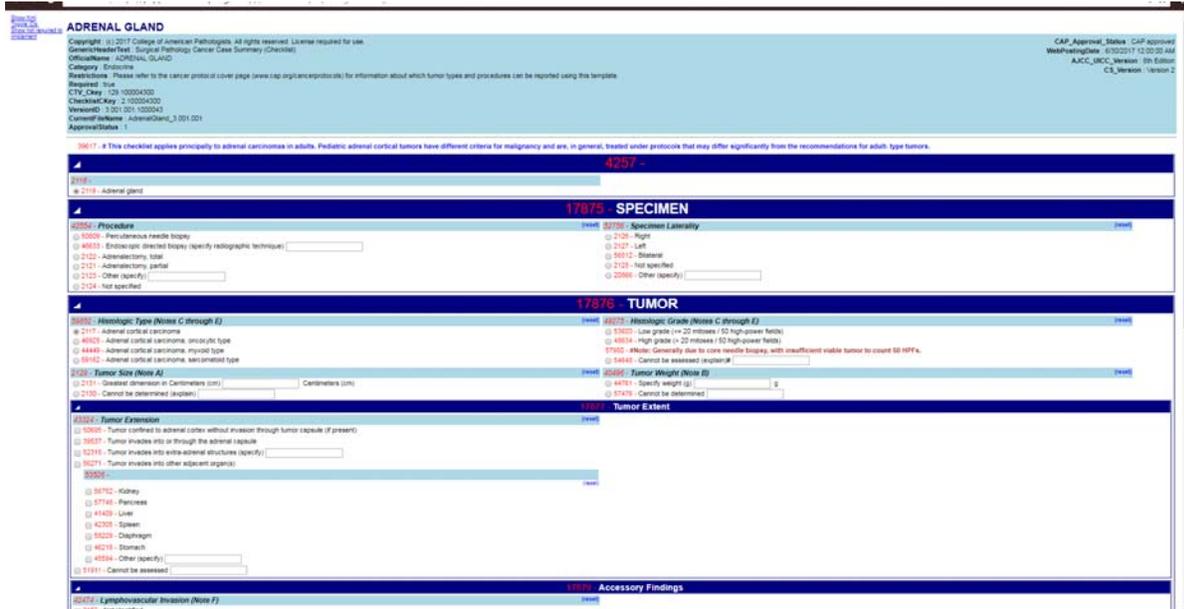
Form Name	Form ID	Form Path	Transform Path	Transform Package
ADRENAL GLAND	CAP, JBS	NewSchema	Working	Working
ADRENAL GLAND	CDC-CR	NewSchema	Working	Working
IMPUILLA OF VATER	CDC-CR	NewSchema	Working	Working
NIIC	CDC CR	NewSchema	Working	Working

In order to view the package in the XML format, click on the “View XML” option indicated by the orange arrow on page 8 of this User Guide. A new tab will automatically open up to display the XML format of the package:

```
<SDCPackage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:urn="urn:ietf:params:xml:ns:sdcc:2016" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xsi:schemaLocation="urn:ietf:params:xml:ns:sdcc:2016 ../Schemas/FPD-SDCRetrievalForm.ssd" packageID="PKG_Adenal"
  <OLPackage>
    <FormDesign xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:sdcid="http://www.w3.org/2001/XMLSchema" styleClass="left" ID="FORM_Adenal" baseURL="www.cap.org/eCC/SDC/ZHE" formTitle="ADRENAL GLAND" xmlns:urn="urn:ietf:params:xml:ns:sdcc:2016">
      <Property type="meta" order="1" proplname="Copyright" val="(c) 2017 College of American Pathologists. All rights reserved. License required for use." />
      <Property type="meta" order="2" proplname="CAP_Approval_Status" val="CAP Approved" />
      <Property type="meta" order="3" proplname="GeneralReaderText" proplclass="eCC_CAP_Protocol" val="Surgical Pathology Cancer Case Summary (Checklist)" />
      <Property type="meta" order="4" proplname="OfficialName" proplclass="eCC_CAP_Protocol" val="ADRENAL GLAND" />
      <Property type="meta" order="5" proplname="Category" proplclass="eCC_CAP_Protocol" val="Endocrine" />
      <Property type="meta" order="6" proplname="Restrictions" proplclass="eCC_CAP_Protocol" val="Please refer to the cancer protocol cover page (www.cap.org/cancerprotocols) for information about which tumor types and procedures can be reported using this template." />
      <Property type="meta" order="7" proplname="Required" proplclass="eCC_CAP_Protocol" val="true" />
      <Property type="meta" order="8" proplname="CV_Keep" proplclass="eCC" val="129.100004300" />
      <Property type="meta" order="9" proplname="ChecklistKey" proplclass="eCC" val="2.100004300" />
      <Property type="meta" order="10" proplname="VersionID" proplclass="eCC" val="3.001.001.1000043" />
      <Property type="meta" order="11" proplname="CurrentFileName" proplclass="eCC" val="AdrenalGland_3.001.001" />
      <Property type="meta" order="12" proplname="ApprovalStatus" proplclass="eCC" val="1" />
      <Property type="meta" order="13" proplname="EffectiveDate" proplclass="eCC_Dates" />
      <Property type="meta" order="14" proplname="EffectiveDate" proplclass="eCC_Dates" val="6/30/2017 12:00:00 AM" />
      <Property type="meta" styleClass="right" order="15" proplname="A3C_Version" proplclass="eCC_Data_Sources" val="8th Edition" />
      <Property type="meta" styleClass="right" order="16" proplname="CC_Version" proplclass="eCC_Data_Sources" val="Version 2" />
      <Property type="meta" styleClass="right" order="17" proplname="T200_Version" proplclass="eCC_Data_Sources" />
      <tbody ID="129.100004300_DefaultBodyGUID_074e0b01-0e70-4040-9f97-9046023202a">
        <ChildItems>
          <DisplayItem order="20" ID="104617.100004300" title="This checklist applies principally to adrenal carcinomas in adults. Pediatric adrenal cortical tumors have different criteria for malignancy and are, in general, treated under protocols that may differ significantly from the recommendations for adult-type tumors.">
            <Property order="21" proplname="reportText" val="(no text)" />
          </DisplayItem>
          <Section order="21" ID="4257.100004300" minCard="0">
            <ChildItems>
              <Question order="24" ID="2118.100004300" minCard="0" readOnly="true">
                <Property name="tum_site_25" order="25" proplname="reportText" val="(no text)" />
                <ListItems>
                  <List>
                    <ListItem order="28" ID="1119.100004300" title="Adrenal gland" selected="true">
                      <Property name="Adrenal_Gland_29" order="29" proplname="reportText" val="(no text)" />
                    </ListItem>
                  </List>
                </ListItems>
              </Question>
            </ChildItems>
          </tbody>
        </ChildItems>
      </FormDesign>
    </OLPackage>
  </SDCPackage>
```

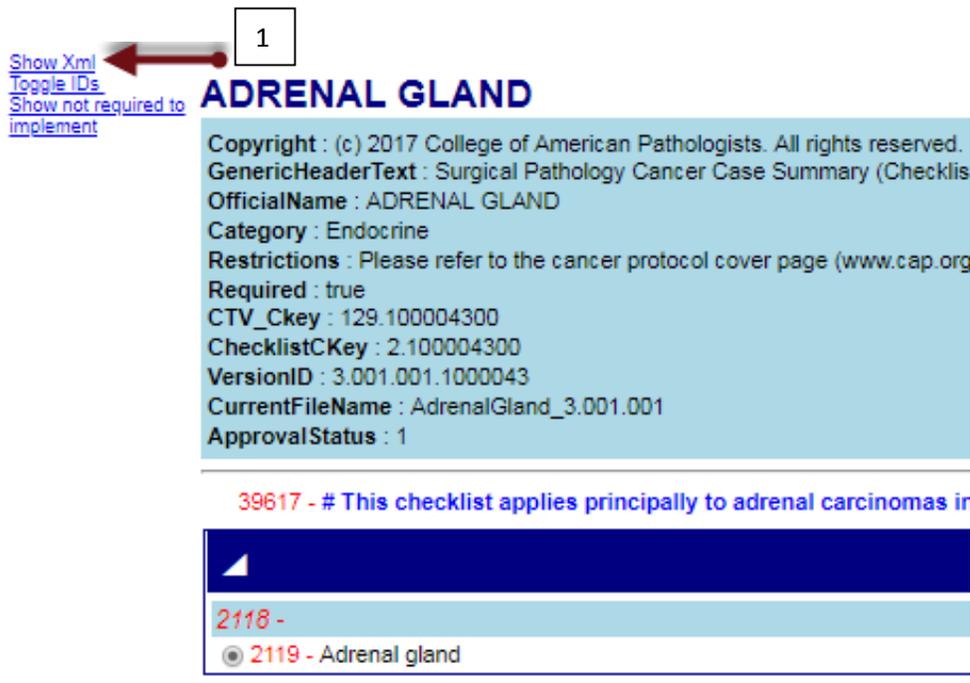
To view the package in the HTML format, click on the “View HTML” option indicated by the **red arrow**, also on page 8.

A new tab will automatically open up to display the HTML format of the package as shown below:

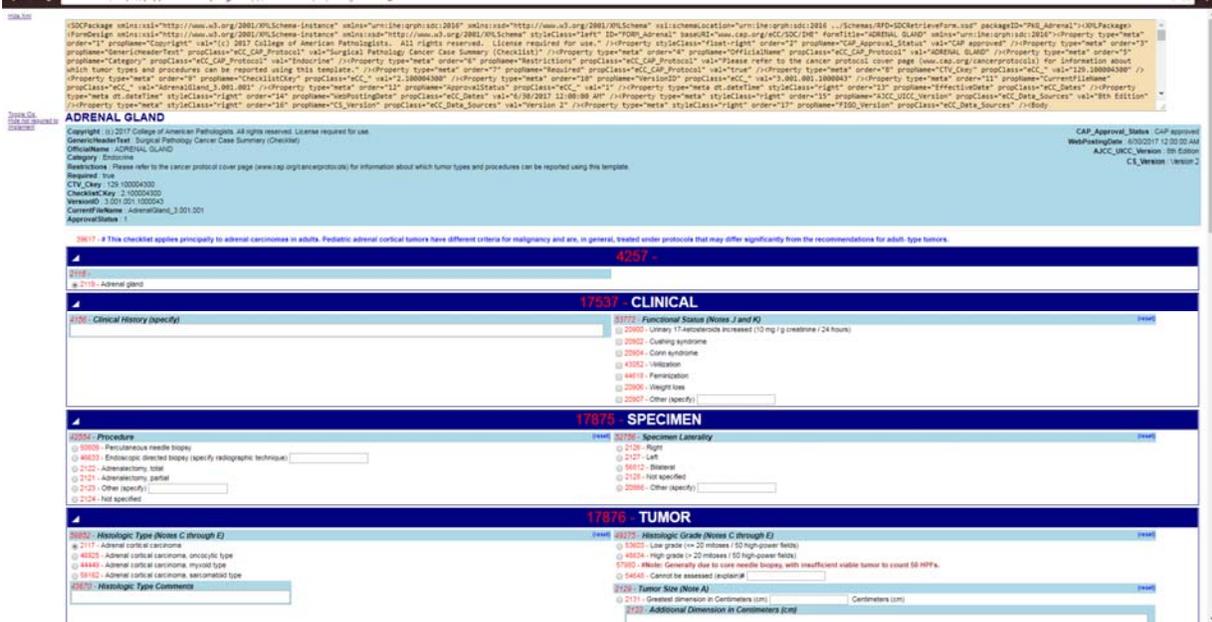


The HTML format allows the user to have some viewer options.

1. They can show the XML format above by clicking on the “Show Xml” option that is located in the top left corner and is indicated by the **dark red arrow**.

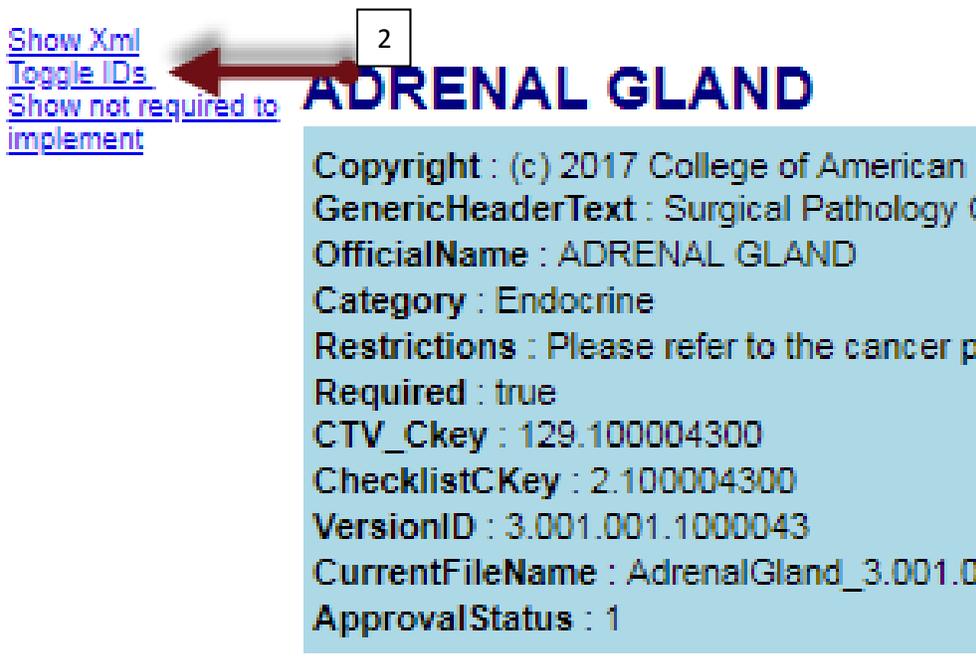


After clicking on “Show Xml”, user will be presented with the screen below (XML format of the package will be displayed as the HTML version).



User can hide the Xml format by clicking on the “Hide Xml” option which will appear in place of the “Show Xml” option.

2. User can click on “Toggle IDs” which is also located in the top left corner under the “Show Xml” option indicated by the **dark red arrow**.



After clicking on “Toggle IDs”, the page will look like this:

To view the Toggle IDs again, click “Toggle IDs” again and Ckey(identifier) will reappear.

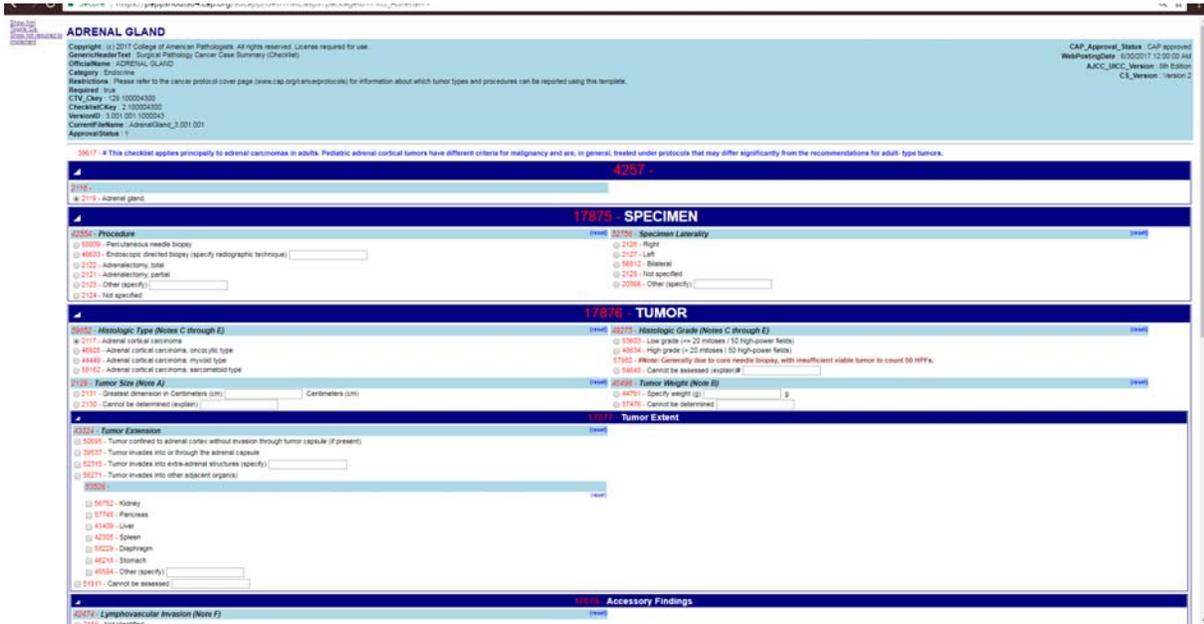
- To only view the sections that are required to fill out, click on “Hide not required to implement” option located under the “Toggle IDs” option which is indicated by the **dark red arrow below**.

[Show Xml](#)
[Toggle IDs](#)
[Hide not required to implement](#)

ADRENAL GLAND

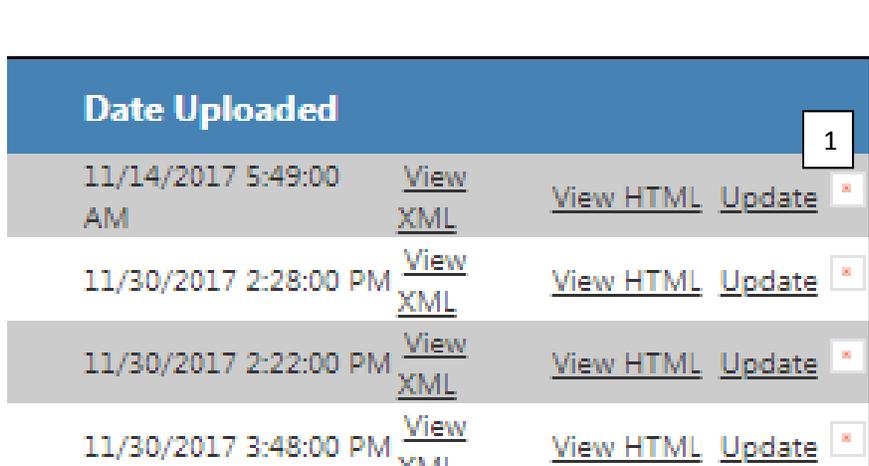
Copyright : (c) 2017 College of American Pathologists
 GenericHeaderText : Surgical F
 OfficialName : ADRENAL GLAND
 Category : Endocrine
 Restrictions : Please refer to th
 Required : true
 CTV_Ckey : 129.100004300
 ChecklistCKey : 2.100004300
 VersionID : 3.001.001.1000043
 CurrentFileName : AdrenalGlan
 ApprovalStatus : 1

After clicking on “Hide not required to implement”, the window should look something like this:



Essentially, some items will disappear from the screen, like the “Clinical” section, because this section was not required for fill in. To see those items again, click on the “Show not required to implement” option which appears in place of “Hide not required to implement”.

1. To update a package, click on the “update” option shown below:

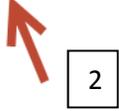


Use will be presented with the below screen with the option to modify the following fields:

- XML
- Package Id and Package Name
- Submit Endpoints etc.

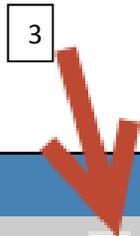
```
protocols that may differ significantly from the recommendations for adult- type tumors.">
  <Property order="21" propName="reportText" val="{no text}" />
</DisplayedItem>
<Section order="22" ID="4257.100004300" minCard="0">
  <ChildItems>
    <Question order="24" ID="2118.100004300" minCard="0" read
```

Package ID	PKG Adrenal
Package Name	Adrenal Gland
Submit Endpoints	CAP - https://pappsnodts04.cap.org/SDCApp/Services/formreceiver.aspx CDC - https://10.242.12.3/rfdscService/Service.aspx CCR - https://sdc.pilot.azurewebsites.net/SDCService.aspx JBS - https://interopdemo.jbsinternational.com/lhe/SubmitForm_Port_Soap12
Validation Path	NewSchema <input type="button" value="Validate"/>
Transform Path	Working <input type="button" value="Save"/> <input type="button" value="Close"/>



2. User clicks “save” button to updates the information in the CAP-SDC System.

3. To delete a Package from the “Available Packages” section, click the “x” button that is placed to the far right of each row:



View XML	View HTML	Update	<input type="button" value="x"/>
View XML	View HTML	Update	<input type="button" value="x"/>
View XML	View HTML	Update	<input type="button" value="x"/>
View XML	View HTML	Update	<input type="button" value="x"/>
View XML	View HTML	Update	<input type="button" value="x"/>
View XML	View HTML	Update	<input type="button" value="x"/>

Package will be deleted from the CAP-SDC System.

Form Filler

1. Click on the “Form Filler” option to the right of the “Form Manager” option.



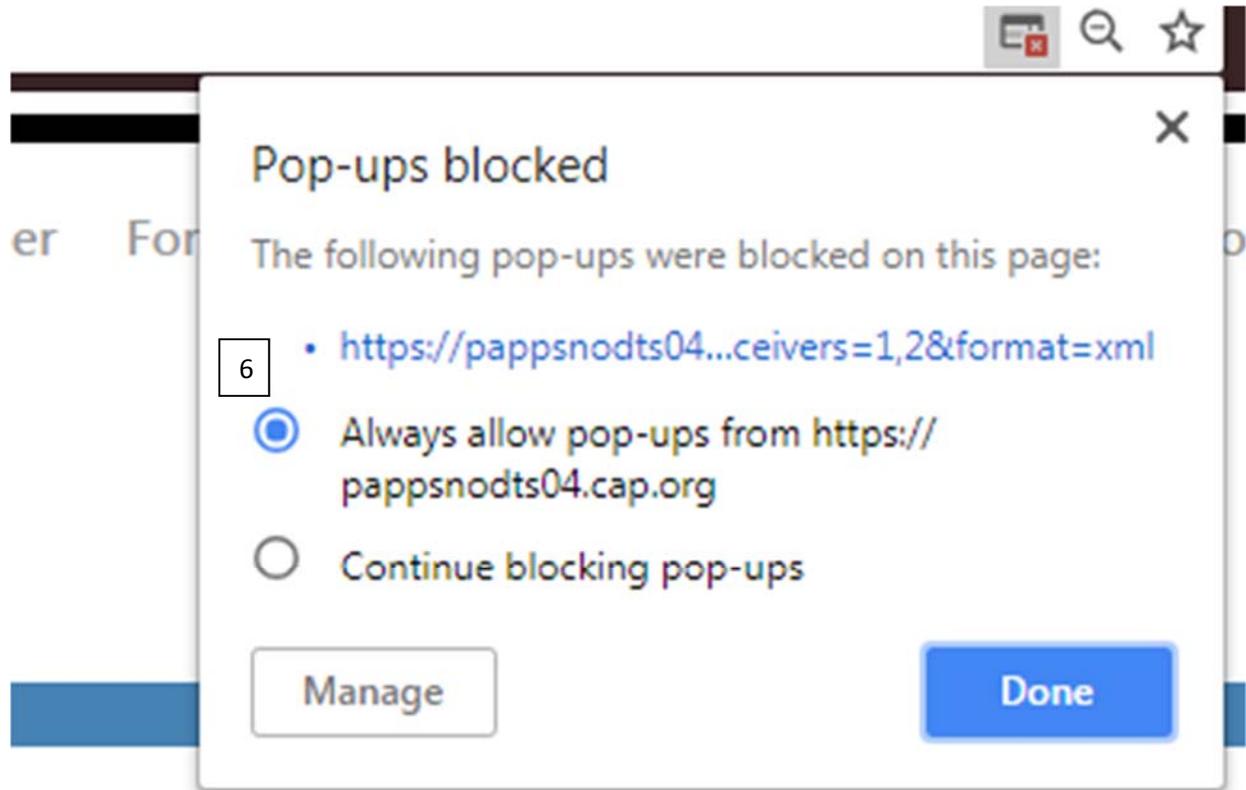
Location Path	Transform Path	Date Uploaded	
chema	Working	11/14/2017 5:49:00 AM	View XML
chema	Working	11/30/2017 2:28:00 PM	View XML
chema	Working	11/30/2017 2:22:00 PM	View XML

The screen will look something like this:

Here, the user can request to submit a specific form from one site to one or multiple sites.

1. The user must indicate the company from which the form will be coming from – Form Manager (blue arrow).
2. Then, the user must indicate the content format which is shown by the red arrow.
3. After clicking on a content format, click on “Get Available Packages” to choose the specific package that needs to be sent to the form receivers.

4. The user should then choose the form receivers, which is indicated by the **green arrow**.
5. Lastly, in order to submit the request for the retrieval of the forms from the specific company, click on “Retrieve”, which is indicated by the **orange arrow**.
6. After clicking “Retrieve”, the user must unlock pop-ups from this software. Click “Always allow pop-ups from this software.” and then click “Done”.



For an XML format, the user may enter items as shown below:



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Form Filler

Select a form manager

CAP JBS mTuitive Local

Select content format

XML HTML URL

Get Available Packages

Select a package:

- PKG_Adrenal
- PKG_Adrenal+Demog
- PKG_AmpullaofVater
- PKG_ANUSBx
- PKG_AnusResection
- PKG_Appendix
- PKG_Bone_Marrow
- PKG_Brain
- PKG_Breast Invasive MEE
- PKG_Breast VEK
- PKG_Breast-JLW
- PKG_Breast_Bmk

Select one or more form receivers

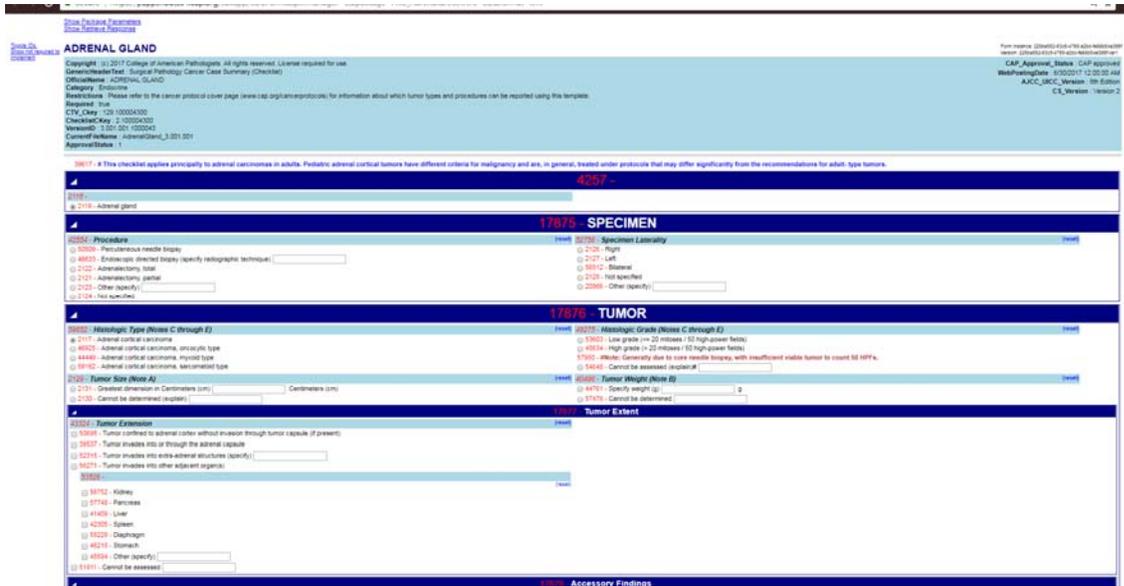
CAP CDC CCR JBS Local CDC-ECR CDC-CR TEST

Prepop Data

Select a package from the available packages list above or enter a package id below and click Retrieve.

PKG_Adrenal **Retrieve**

The screen will appear like this after clicking “Retrieve”:



The filler can then fill out the form accordingly.

1. For the XML format, if the user chooses “PKG_Adrenal+Demog”, then the user has the option of pasting in Prepop Data, which allows for the easy insertion of demographic data:

Form Filler

Select a form manager

- CAP
- JBS
- mTuitive
- Local

Select content format

- XML
- HTML
- URL

Get Available Packages

Select a package:

- PKG_Adrenal
- PKG_Adrenal+Demog**
- PKG_AmpullaofVater
- PKG_ANUSBx
- PKG_AnusResection
- PKG_Appendix
- PKG_Bone_Marrow
- PKG_Brain
- PKG_Breast Invasive MEE
- PKG_Breast VEK
- PKG_Breast-JLW
- PKG_Breast Bmk

1

- Next, click on “Prepop Data” and **paste in CCDA data**, the pasted prepop data will be parsed and mapped out by the Form Manager to display in the form properly.

PKG_Breast Invasive M+E
 PKG_Breast VEK
 PKG_Breast-JLW
 PKG_Breast_Bmk

Select one or more form receivers

CAP CDC CCR JBS Local CDC-ECR CDC-CR TEST

Prepop Data

Paste a valid CDA document content here to pre-populate demographics data. Do not include the PrepopData element.

```

    </component>
  </organizer>
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
    
```

Select a package from the available packages list above or enter a package id below and click Retrieve.

PKG_Adrenal+Demog 3

- Click “Retrieve” (Red arrow). The screen should then look like this:

[Show Package Parameters](#)
[Show Retrieve Response](#)

[Toggle IDs](#)
[Show not required to implement](#)

ADRENAL GLAND

Copyright : (c) 2017 College of American Pathologists. All rights reserved. License required for use.
 GenericHeaderText : Surgical Pathology Cancer Case Summary (Checklist)
 OfficialName : ADRENAL GLAND
 Category : Endocrine
 Restrictions : Please refer to the cancer protocol cover page (www.cap.org/cancerprotocols) for information about which tumor types and pro
 Required : true
 CTV_Ckey : 129.100004300
 ChecklistCKey : 2.100004300
 VersionID : 3.001.001.1000043
 CurrentFileName : AdrenalGland_3.001.001
 ApprovalStatus : 1

4  **+ Demographics**

39617 - # This checklist applies principally to adrenal carcinomas in adults. Pediatric adrenal cortical tumors have different criteri

2118 -
 2119 - Adrenal gland

42554 - Procedure
 50809 - Percutaneous needle biopsy
 46633 - Endoscopic directed biopsy (specify radiographic technique)
 2122 - Adrenalectomy, total

The arrow indicates the Demographics section of the data.

- 4. Click the “+” button that is right next to the “Demographics” section, green arrow above. The screen will then look like this:

The screenshot shows a web-based form titled "37508 - Demographic Information". The form is organized into several sections, each with a green header bar and a "+" button on the left. The sections are: "Patient", "Patient's Race Code", "Patient's Ethnicity Code", and "Author".

Red arrows point to the following fields:

- 37333 - Date/Time of Report
- 37355 - Patient's First Name (Lizzie)
- 37357 - Patient's Middle Name (B)
- 37359 - Patient's Country (777622 - USA)
- 37479 - Patient's City (Atlanta)
- 37485 - Patient's Phone Number (tel:+1206955-2414)
- 37501 - Patient's Social Security Number (363956474)
- 37503 - Patient's Additional Race Code (37504 - American Indian or Alaska Native)
- 37511 - Patient's Gender Code (37519 - Female)
- 37489 - Author NPI (4829010403)
- 37493 - Author Last Name (Kieper)
- 37505 - Author Organization Name
- 37489 - Author Name (April)
- 37484 - Author Number (MD)
- 37504 - Author Organization NPI

The Prepop Data functionality allows the user to populate patient available data a lot faster and more efficiently than re-entering patient data.

All of that the information indicated by the red arrows above was parsed by form manager automatically after providing Prepop Data with the form request.

1. For an HTML form request, user will select “HTML” as content format.
2. Select specific form manager.
3. Select the package name.
4. In the case of “HTML” option, the Form Manger makes the decision regarding the Form Receiver using destination end points and selected Form Receiver by Form-Filler will be ignored.

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Form Filler

Select a form manager 2

CAP
 JBS
 mTuitive
 Local

Select content format

XML
 HTML
 URL

1

Get Available Packages

Select a package:

- PKG_Adrenal 3
- PKG_Adrenal+Demog
- PKG_AmpullaofVater
- PKG_ANUSBx
- PKG_AnusResection
- PKG_Appendix
- PKG_Bone_Marrow
- PKG_Brain
- PKG_Breast Invasive MEE
- PKG_Breast VEK
- PKG_Breast-JLW
- PKG_Breast_Bmk

Select one or more form receivers 4

CAP
 CDC
 CCR
 JBS
 Local
 CDC-ECR
 CDC-CR
 TEST

Prepop Data

Select a package from the available packages list above or enter a package id below and click Retrieve.

5

5. User will click “retrieve” button to receive requested form as shown below:

The screenshot shows a web-based form titled "ADRENAL GLAND". At the top, there is a header with copyright information and a CAP approval status. The form is divided into several sections, each with a "retrieve" button. The sections include:

- 17875 - SPECIMEN:** Contains checkboxes for specimen laterality (Right, Left, Bilateral, Not specified, Other) and procedure types (Percutaneous needle biopsy, Endoscopic directed biopsy, Adrenalectomy total, Adrenalectomy partial, Other).
- 17876 - TUMOR:** Contains checkboxes for histologic type (Adrenal cortical carcinoma, Adrenal cortical carcinoma oncocytic type, Adrenal cortical carcinoma myxoid type, Adrenal cortical carcinoma sarcomatous type), tumor size (Greatest dimension in Centimeters), tumor weight (Specify weight in grams), and histologic grade (Low grade, High grade, Cannot be assessed).
- 17877 - Tumor Extent:** Contains checkboxes for tumor extension (Tumor confined to adrenal cortex, Tumor invades into or through the adrenal capsule, Tumor invades into extra-adrenal structures, Tumor invades into other adjacent organs) and site (Kidney, Pancreas, Liver, Spleen, Diaphragm, Stomach, Other, Cannot be assessed).
- 17879 - Accessory Findings:** Contains a checkbox for lymphovascular invasion (Not identified).

The Form-Filler can then fill out the form data and submit the form to pre-selected form receivers.

1. For a URL form request, user will select “URL” as content format.
2. Select specific form manager.
3. Select the package name.
4. In case of “URL” option, form manger will use pre-defined destination end points so that the submitted form will be received by pre-selected form receiver.

This option launches the URL and operation gets handled by form manager system and no additional configuration or development is required at form-filler side.



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Form Filler

2

Select a form manager

CAP JBS mTuitive Local

Select content format

XML HTML URL

1

Get Available Packages

Select a package:

PKG_Adrenal
PKG_Adrenal+Demog
PKG_AmpullaofVater
PKG_ANUSBx
PKG_AnusResection
PKG_Appendix
PKG_Bone_Marrow
PKG_Brain
PKG_Breast Invasive MEE
PKG_Breast VEK
PKG_Breast-JLW
PKG_Breast_Bmk

3

Select one or more form receivers

4

CAP CDC CCR JBS Local CDC-ECR CDC-CR TEST

Prepop Data

Select a package from the available packages list above or enter a package id below and click Retrieve.

PKG_AmpullaofVater

Retrieve

5

5. Click “retrieve”. The screen will look like this:

pappsnodts04.cap.org says

For the URL option, form receivers are supplied by the form manager, selected receivers will be ignored.

OK

6

The popup message displayed above explains that for URLs, the Form Manager chooses the receivers. Thus, some of the receivers chosen by the user may be ignored.

6. Click "OK". The screen will then display a URL:

Visit: <https://pappsnodts04.cap.org/sdcwebapi/API/Forms/cccb4134-99ff-4da3-9b83-f250aa92eebd>

Clicking on the URL will display the HTML form on the screen:

AMPULLA OF VATER

Copyright © (c) 2017 College of American Pathologists. All rights reserved. License required for use.
 GenericHeaderText : Surgical Pathology Cancer Case Summary (Checklist)
 OfficialName : AMPULLA OF VATER
 Category : Digestive System
 Restrictions : Please refer to the cancer protocol cover page (www.cap.org/cancerprotocols) for information about which tumor types and procedures can be reported using this template.
 Required : true
 CTV_Key : 131 100004300
 ChecklistKey : 4 100004300
 VersionID : 3 000 002 1000043
 CurrentRefName : AmpullaofVater_3 000 002
 ApprovalStatus : 1

15906 - Procedure

- 15907 - Ampullectomy
- 2229 - Pancreaticoduodenectomy (Whipple resection)
- 18908 - Other (specify) _____
- 18909 - Not specified

15910 - TUMOR

15910 - Tumor Site (Note A)

- 2224 - Intra-ampullary _____
- 33469 - Pan-ampullary / ampullary duodenal arising from duodenal surface of the papilla _____
- 33480 - Intra-ampullary and peri-ampullary mixed type _____
- 15911 - Other (specify) _____
- 15912 - Cannot be determined _____
- 2237 - Not specified

15915 - Histologic Type (Note C)

- 2245 - Adenocarcinoma
- 27003 - Adenocarcinoma, pancreaticobiliary type
- 2247 - Adenocarcinoma, intestinal type
- 33462 - Mucillary carcinoma
- 33463 - Invasive papillary adenocarcinoma
- 3249 - Mucinous adenocarcinoma
- 2290 - Clear cell adenocarcinoma
- 2251 - Signet-ring cell carcinoma
- 3252 - Adeno-squamous carcinoma
- 15914 - Squamous cell carcinoma
- 30320 - Hepatoid adenocarcinoma
- 27000 - Large cell neuroendocrine carcinoma
- 27001 - Small cell neuroendocrine carcinoma
- 49904 - # Note: Select this option only if large cell or small cell cannot be determined.
- 45287 - Neuroendocrine carcinoma (poorly differentiated)#
- 33463 - Undifferentiated carcinoma
- 33464 - Undifferentiated carcinoma with osteoclast giant cells
- 33465 - Mixed adeno-neuroendocrine carcinoma
- 2253 - Other histologic type not listed (specify) _____
- 2254 - Carcinoma, not otherwise specified

15918 - Histologic Grade (Note D)

- 2250 - G1 - Well differentiated
- 2289 - G2 - Moderately differentiated
- 2260 - G3 - Poorly differentiated
- 2262 - Other (specify) _____
- 2287 - GX - Cannot be assessed _____
- 2256 - Not applicable

16209 - Tumor Extent

- 15920 - No evidence of primary tumor
- 15927 - Carcinoma in situ / high-grade dysplasia
- 15925 - Tumor limited to ampulla of Vater or sphincter of Oddi
- 49054 - Tumor invades beyond sphincter of Oddi (pancreatic invasion)
- 50120 - Tumor invades into duodenal submucosa
- 57051 - Tumor invades into muscularis propria of the duodenum
- 62964 - Tumor directly invades pancreas up to 0.5 cm

The Filler can then fill out the form accordingly.

1. The bottom of the form has a "submit" button (**purple arrow**).
2. The **green arrow** is the indication of where this form will be going to:

20895 - ?Not applicable - pM cannot be
 2151 - pM1: Distant metastasis
 2152 - ?Specify Site(s), if known

Submit

Submit Endpoints:
CAP
CDC

After filling the form out, and clicking “submit”. The screen will then notify the user if there are required sections that have not been filled out yet.

3. Click “OK” (orange arrow):

pappsnodts04.cap.org says
Error: You have not answered all required questions.

OK

The screen will then ask if the user would still like to continue and submit the form.

4. Click “OK” (blue arrow) to submit.
5. Click “Cancel” (purple arrow) to return to the form and fill out the required sections.

pappsnodts04.cap.org says
Do you want to submit this form with errors? Click Ok to submit or Cancel to fix errors.

OK Cancel

After successfully submitting the form, the screen will look like this:



The screenshot displays a SOAP response from the URL `https://pappsnodts04.cap.org/SDCApp/Services/formreceiver.asmx`. The response is shown in a yellow background. A "Back" button is visible in the top right corner. The XML content is as follows:

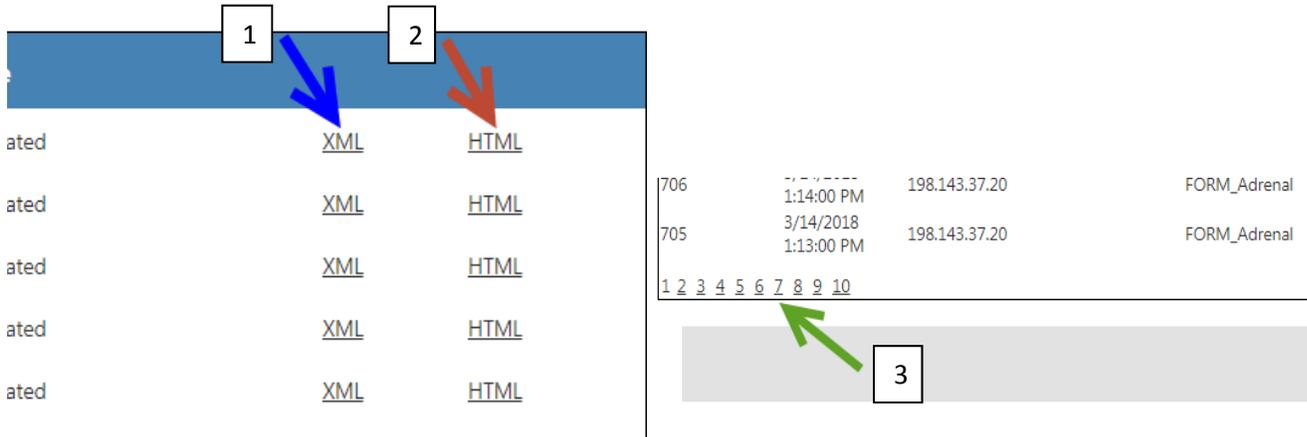
```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:wsa="http://www.w3.org/2005/08/addressing">
  <soap:Header>
    <wsa:To>https://pappsnodts04.cap.org/SDCApp/Services/formreceiver.asmx</wsa:To>
    <wsa:MessageID>urn:uuid:877c4a3f-8e81-4dca-8a50-f5749b1fcefe</wsa:MessageID>
    <wsa:Action soap:mustUnderstand="1">urn:ihe:iti:rfd:2007:SubmitFormResponse</wsa:Action>
  </soap:Header>
  <soap:Body>
    <SubmitFormResponse xmlns="urn:ihe:iti:rfd:2007">Submitted form validated successfully.</SubmitFormResponse>
  </soap:Body>
</soap:Envelope>
```

A red circle highlights the text "Submitted form validated successfully." within the `<SubmitFormResponse>` element. A black arrow points from a box containing the number "6" to this highlighted text. In the bottom right corner, the text "Submit Endpoints: CAP CDC" is visible.

6. The section that is highlighted by the red circle shows that the form has been submitted successfully.

Form Receiver

The Form Receiver page can be viewed by clicking on “Form Receiver” option, located adjacent to the “Form Filler” option. After clicking “Form Receiver”, the screen below will be displayed:



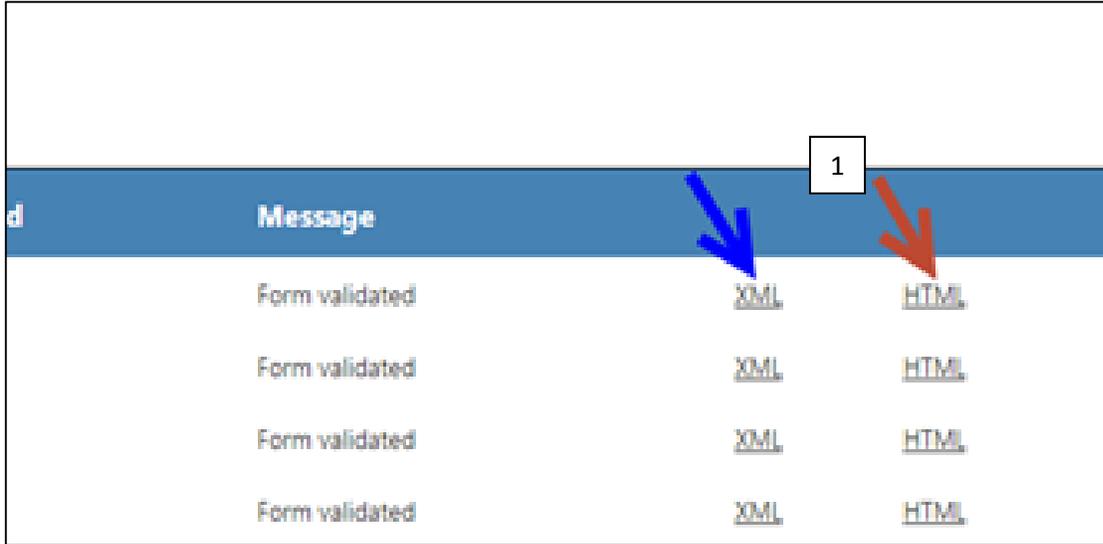
The Form Receiver page displays all of the forms that have been received by date.

1. The Form Receiver page also allows the user to view the forms in an XML format (blue arrow)
2. The Form Receiver page allows the user to view an HTML format (red arrow). Both options are located to the right of each form.
3. Paging can also be used to see previous or later records (green arrow).

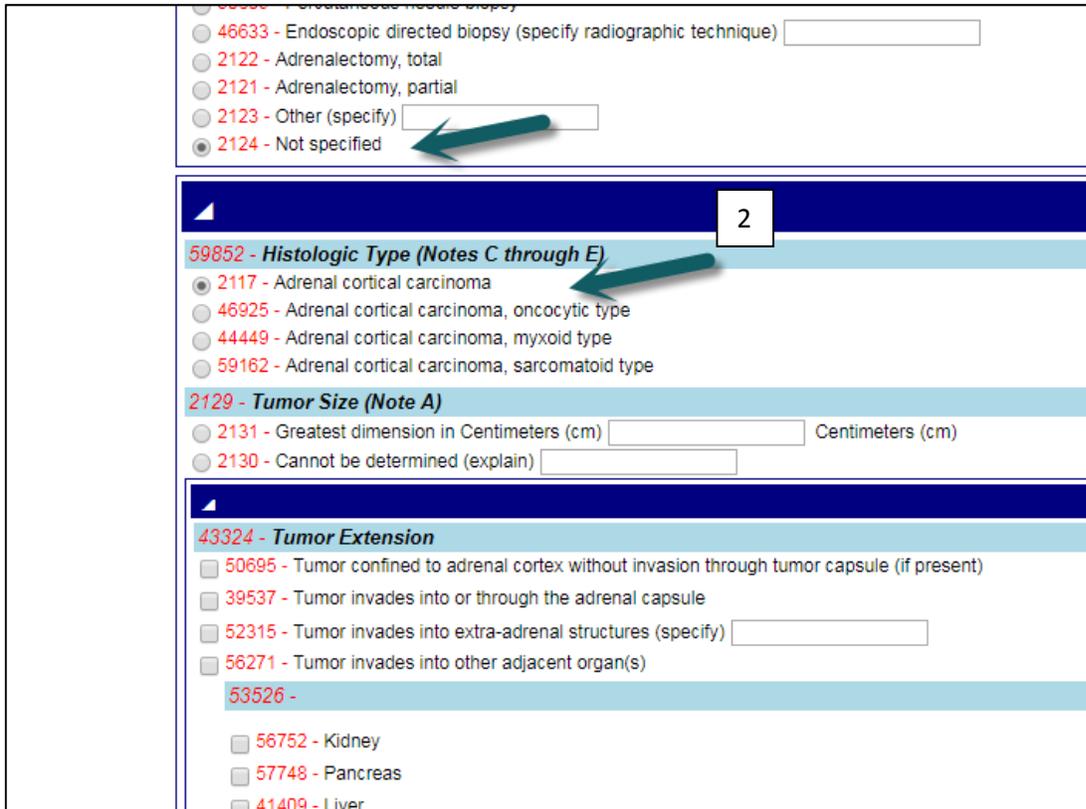
After clicking on “XML”, this screen will be shown:



1. User will be presented with the submitted data in the XML format shown (teal arrow). The user can also simply highlight the text and copy that information wherever the user deems necessary.
2. User can click “Close” button to go back to the Form Receiver page.



1. After clicking on “HTML” link (red arrow), user will be presented as shown below:



2. As shown above, the user can view the submitted data by Form-Filler in an HTML format (**teal arrows**).

User can also use “Toggle IDs” and “Show not required to implement” options to see ids and optional elements.

Configuration

The Configuration option can be used to register a new Form Manager or Form Receiver to the list of managers and receivers. This option will also be used to update or Remove an existing Form Manager or Form Receiver.

The screen below will be displayed when user clicks on the “Configuration” option:

Endpoint	Retrieve Endpoint		
p.org/sdcwebapi/api/forms	https://pappsnotds04.cap.org/SDCApp/services/FormManager.asmx	<input type="checkbox"/>	Edit
	https://interopdemo.jbsinternational.com/The/FormManager_Port_Soap12	<input type="checkbox"/>	Edit
azurewebsites.net/api/formmanager	http://sdcformmanager.azurewebsites.net/FormManager.asmx	<input type="checkbox"/>	Edit
ebapi/api/forms	https://sdt.cap.org/SDCApp/services/FormManager.asmx	<input type="checkbox"/>	Edit
			Add

Endpoint	Supports CORS		
p.org/SDCApp/Services/formreceiver.asm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edit
bsites.net/SDCService.asmx	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edit
sinternational.com/The/SubmitForm_Port_S	<input type="checkbox"/>	<input type="checkbox"/>	Edit
\pp/Services/formreceiver.asmx	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edit
ltinggroup.com/RFDSDCService/service.as	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edit
ltinggroup.com/rfdsdcservicectr/Service.as	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edit
lcService/Service.asmx	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edit
			Add

1. The user can then add in the information required to add a Form Manager – **teal arrow**.
2. To add a Form Receiver, the user must fill in the required information that is indicated by the **orange arrow**. After submitting the necessary information, the user must click “add”. This information will then be added to the list of Form Managers or Form Receivers in the table above.
3. To add a Form Manager, fill out the Form Manager name
4. Fill out Form List REST API Endpoints
5. Fill out Retrieve Endpoints information
6. Click the “add” button.

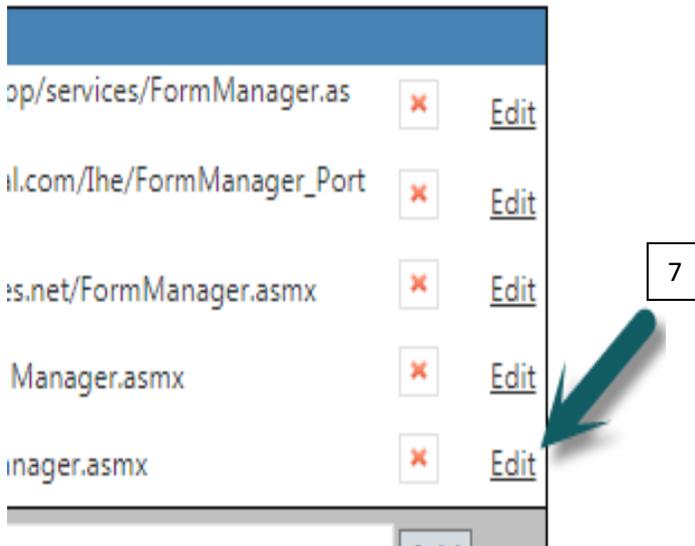
Form Filler Configuration

Form Managers

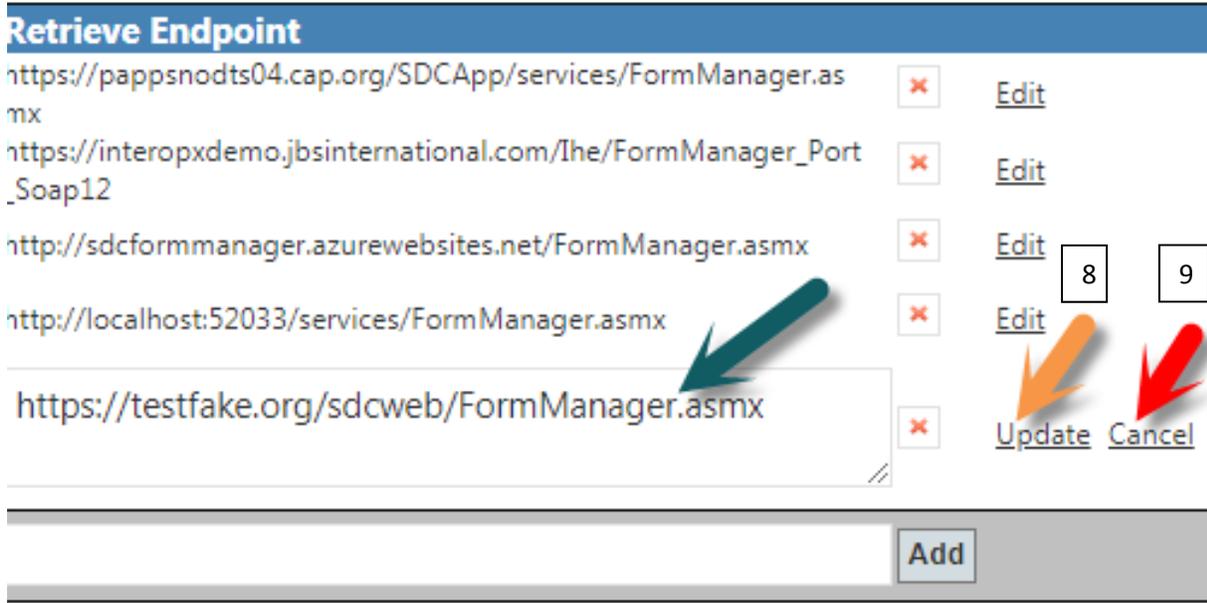
Form Manager	Form List REST API Endpoint	Retrieve Endpoint		
CAP	https://pappsnodts04.cap.org/sdcwebapi/api/forms	https://pappsnodts04.cap.org/SDCApp/services/FormManager.asmx		Edit
JBS		https://interopdemo.jbsinternational.com/Ihe/FormManager_Port_Soap12		Edit
mTuitive	3 http://sdcformmanager.azurewebsites.net/api/formmanager	4 http://sdcformmanager.azurewebsites.net/FormManager.asmx	5	Edit
Local	https://pappsnodts04.cap.org/sdcwebapi/api/forms	http://localhost:52033/services/FormManager.asmx		Edit
CAP	https://testfake.org/sdcweb/forms	https://testfake.org/sdcweb/FormManager.asmx		Add 6

After clicking “add”, the new Form Manager will be added.

- The user can then edit the Form Manager by clicking the “edit” option as shown below:



- To update after entering in the new material, click “update” as shows below (orange arrow).
- To cancel the edits made, click “Cancel” and the Form Manager will go back to the way it was in the table:

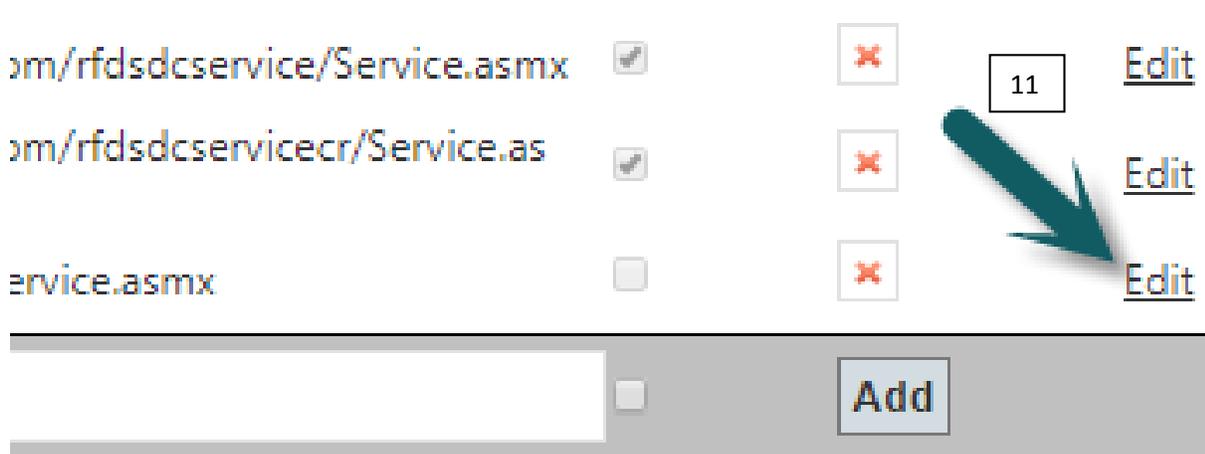


10. To add a Form Receiver, fill out the three sections in the chart and click “add”:



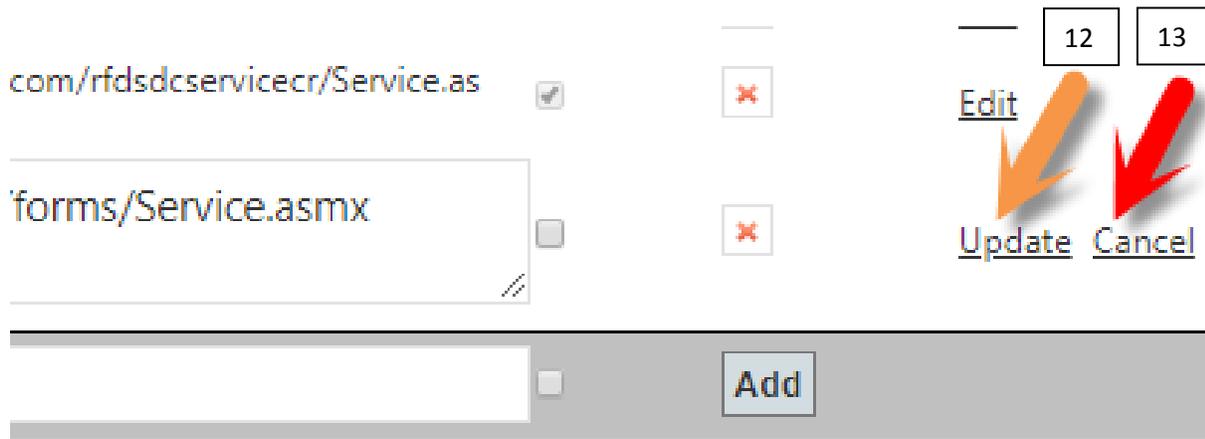
After clicking “add”, the new Form Receiver will be added in the system.

11. The use can then edit the Form Receiver by clicking “edit” option:



12. To update after entering in the new material, click “update” as shows below (orange arrow).

13. To cancel the edits made, click “Cancel” and the Form Receiver will go back to the way it was in the table:



14. To delete a certain Form Manager or Form Receiver, click the “x” button that is located to the right of each row:

Form Filler Configuration

Form Managers

Form Manager	Form List REST API Endpoint	Retrieve Endpoint		
CAP	https://pappsnodts04.cap.org/sdcwebapi/api/forms	https://pappsnodts04.cap.org/SDCApp/services/FormManager.asmx	<input type="checkbox"/>	Edit
JBS		https://interopxdemo.jbsinternational.com/!he/FormManager_Port_Soap12	<input type="checkbox"/>	Edit
mTuitive	http://sdcformmanager.azurewebsites.net/api/formmanager	http://sdcformmanager.azurewebsites.net/FormManager.asmx	<input type="checkbox"/>	Edit
Local	https://pappsnodts04.cap.org/sdcwebapi/api/forms	http://localhost:52033/services/FormManager.asmx	<input type="checkbox"/>	Edit
			<input type="button" value="Add"/>	

Form Receivers

Form Receiver	Submit Endpoint	Supports CORS		
CAP	https://pappsnodts04.cap.org/SDCApp/Services/formreceiver.aspx	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Edit

Diagram annotations: A box labeled '14' with a green arrow points to the delete icon in the Form Managers table. Another box labeled '14' with a green arrow points to the delete icon in the Form Receivers table.

The server will then prompt the user to confirm their intention to delete the form.

15. Click "OK" to delete.
16. Click "Cancel" to keep the form.

pappsnodts04.cap.org says

Are you sure you want to delete this event?

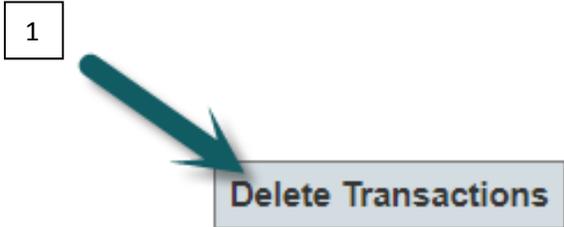
Diagram annotations: A box labeled '15' with a green arrow points to the OK button. A box labeled '16' with a red arrow points to the Cancel button.

Transaction Log

The Transaction Log is where the user can view all requests/submissions of forms as well as all of their details.

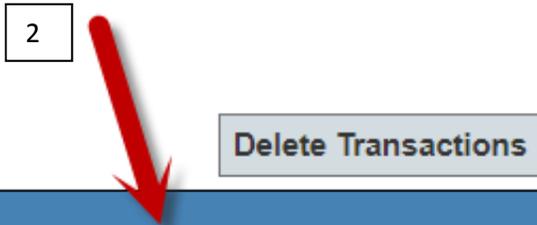
1. In order to delete these transactions, click on the "Delete Transactions" option at the top right corner of the table:

m Receiver Configuration Transaction Log



Transaction Log	
26:00 AM	View Log Message
26:00 AM	View Log Message
26:00 AM	View Log Message
26:00 AM	View Log Message
25:00 AM	View Log Message
25:00 AM	View Log Message
25:00 AM	View Log Message

- 2. To view the Log Message, which entails the Transaction ID, the Transaction Type as well as the code for the form, click on "View Log Message" which is pointed out by the **red arrow** below:



Transaction Log	
6:00 AM	View Log Message
6:00 AM	View Log Message
6:00 AM	View Log Message
6:00 AM	View Log Message
5:00 AM	View Log Message
5:00 AM	View Log Message
5:00 AM	View Log Message
5:00 AM	View Log Message
2:00 AM	View Log Message
2:00 AM	View Log Message

After clicking on "View Log Message", a new tab will open up that looks like this:

Transaction Id: 22
 Transaction Type: RetrieveFormResponse, format=application/xml+sd
 Message

```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:wsa="http://www.w3.org/2005/08/addressing">
  <soap:Header>
    <wsa:MessageID>urn:uuid:761f97bf-5f73-413c-9c09-341ecb7f5049</wsa:MessageID>
    <wsa:Action soap:mustUnderstand="1">urn:ihe:iti:rfd:2007:RetrieveFormResponse</wsa:Action>
  </soap:Header>
  <soap:Body>
    <RetrieveFormResponse xmlns="urn:ihe:iti:rfd:2007">
      <form>
        <Structured>
          <SDCPackage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:ihe:qrph:sd:2016" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xsi:schemaLocation="urn:ihe:qrph:sd:2016
            ../Schemas/RFD-SDCRetrieveForm.xsd" packageID="PKG_Breast_Bmk_1.002.001"><XMLPackage><FormDesign xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
            xmlns:xsd="http://www.w3.org/2001/XMLSchema" styleClass="left" ID="169.100004300" baseURI="www.cap.org/eCC/SDC/IHE" formTitle="Breast Biomarker Reporting Template"
            xmlns="urn:ihe:qrph:sd:2016" formInstanceURI="fb325564-c216-4385-a90b-4c00c155f850" formInstanceVersionURI="fb325564-c216-4385-a90b-4c00c155f850/ver1"><Property type="meta"
            styleClass="copyright" order="6247" propName="Copyright" val="(c) 2018 College of American Pathologists. All rights reserved. License required for use." /><Property styleClass="float-right"
            order="6248" propName="CAP_Approval_Status" val="CAP approved" /><Property type="meta" styleClass="left" order="6249" propName="GenericHeaderText" propClass="eCC_CAP_Protocol" val="Cancer
            Biomarker Reporting Template" /><Property type="meta" order="6250" propName="OfficialName" propClass="eCC_CAP_Protocol" val="Breast Biomarker Reporting Template" /><Property type="meta"
            order="6251" propName="Category" propClass="eCC_CAP_Protocol" val="Breast" /><Property type="meta" order="6252" propName="Restrictions" propClass="eCC_CAP_Protocol" val="This biomarker
            template is not required for accreditation purposes but may be used to facilitate compliance with CAP Accreditation Program requirements." /><Property type="meta" order="6253"
            propName="Required" propClass="eCC_CAP_Protocol" val="true" /><Property type="meta" order="6254" propName="CTV_Key" propClass="eCC_" val="169.100004300" /><Property type="meta" order="6255"
            propName="ChecklistKey" propClass="eCC_" val="119.100004300" /><Property type="meta" order="6256" propName="VersionID" propClass="eCC_" val="1.002.001.1000043" /></Property type="meta"
            /></Structured>
          </form>
        </RetrieveFormResponse>
      </soap:Body>
    </soap:Envelope>
```

Base64 Decoder: Enter base64 string below to decode, or leave empty to decode base64-encoded HTMLPackage content of RetrieveFormResponse from above.

Decode Base64

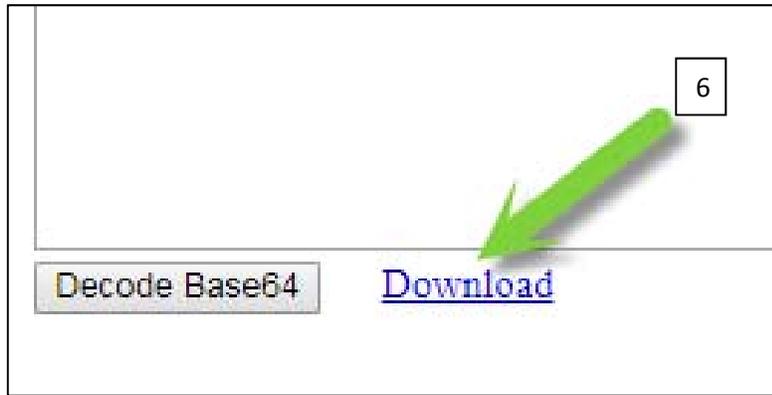
3. Here, the user can scroll down and see the rest of the code (red arrow).
4. Enter base64 string below to decode (orange arrow).
5. Click on “Decode Base64” (purple arrow).
6. Download the code (green arrow).

Transaction Id: 22
 Transaction Type: RetrieveFormResponse, format=application/xml+sd
 Message

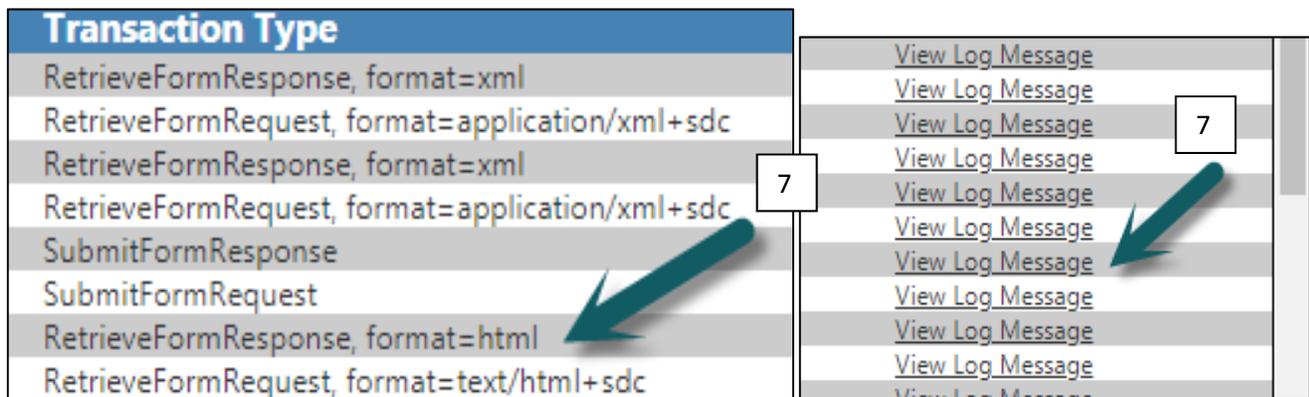
```
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:wsa="http://www.w3.org/2005/08/addressing">
  <soap:Header>
    <wsa:MessageID>urn:uuid:761f97bf-5f73-413c-9c09-341ecb7f5049</wsa:MessageID>
    <wsa:Action soap:mustUnderstand="1">urn:ihe:iti:rfd:2007:RetrieveFormResponse</wsa:Action>
  </soap:Header>
  <soap:Body>
    <RetrieveFormResponse xmlns="urn:ihe:iti:rfd:2007">
      <form>
        <Structured>
          <SDCPackage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:ihe:qrph:sd:2016" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xsi:schemaLocation="urn:ihe:qrph:sd:2016
            ../Schemas/RFD-SDCRetrieveForm.xsd" packageID="PKG_Breast_Bmk_1.002.001"><XMLPackage><FormDesign xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
            xmlns:xsd="http://www.w3.org/2001/XMLSchema" styleClass="left" ID="169.100004300" baseURI="www.cap.org/eCC/SDC/IHE" formTitle="Breast Biomarker Reporting Template"
            xmlns="urn:ihe:qrph:sd:2016" formInstanceURI="fb325564-c216-4385-a90b-4c00c155f850" formInstanceVersionURI="fb325564-c216-4385-a90b-4c00c155f850/ver1"><Property type="meta"
            styleClass="copyright" order="6247" propName="Copyright" val="(c) 2018 College of American Pathologists. All rights reserved. License required for use." /><Property styleClass="float-right"
            order="6248" propName="CAP_Approval_Status" val="CAP approved" /><Property type="meta" styleClass="left" order="6249" propName="GenericHeaderText" propClass="eCC_CAP_Protocol" val="Cancer
            Biomarker Reporting Template" /><Property type="meta" order="6250" propName="OfficialName" propClass="eCC_CAP_Protocol" val="Breast Biomarker Reporting Template" /><Property type="meta"
            order="6251" propName="Category" propClass="eCC_CAP_Protocol" val="Breast" /><Property type="meta" order="6252" propName="Restrictions" propClass="eCC_CAP_Protocol" val="This biomarker
            template is not required for accreditation purposes but may be used to facilitate compliance with CAP Accreditation Program requirements." /><Property type="meta" order="6253"
            propName="Required" propClass="eCC_CAP_Protocol" val="true" /><Property type="meta" order="6254" propName="CTV_Key" propClass="eCC_" val="169.100004300" /><Property type="meta" order="6255"
            propName="ChecklistKey" propClass="eCC_" val="119.100004300" /><Property type="meta" order="6256" propName="VersionID" propClass="eCC_" val="1.002.001.1000043" /></Property type="meta"
            /></Structured>
          </form>
        </RetrieveFormResponse>
      </soap:Body>
    </soap:Envelope>
```

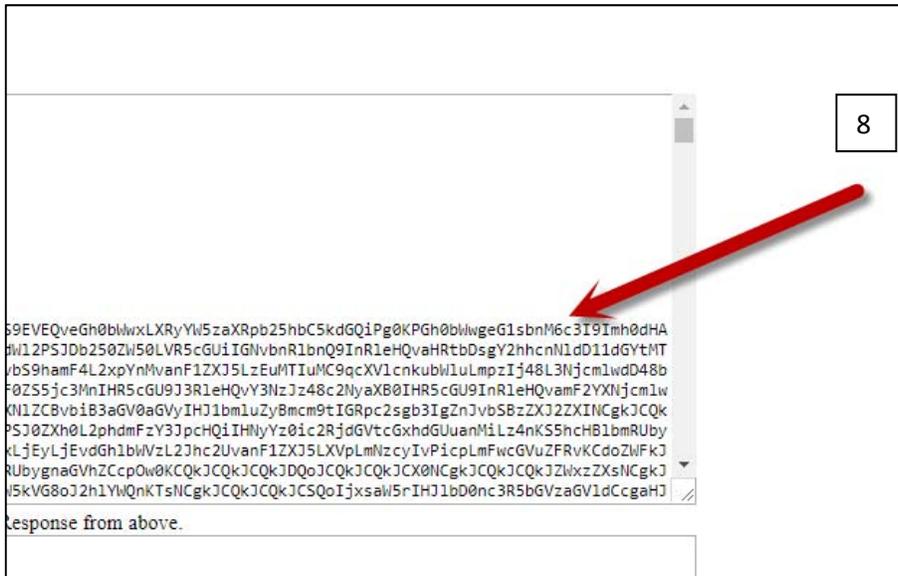
Base64 Decoder: Enter base64 string below to decode, or leave empty to decode base64-encoded HTMLPackage content of RetrieveFormResponse from above.

Decode Base64

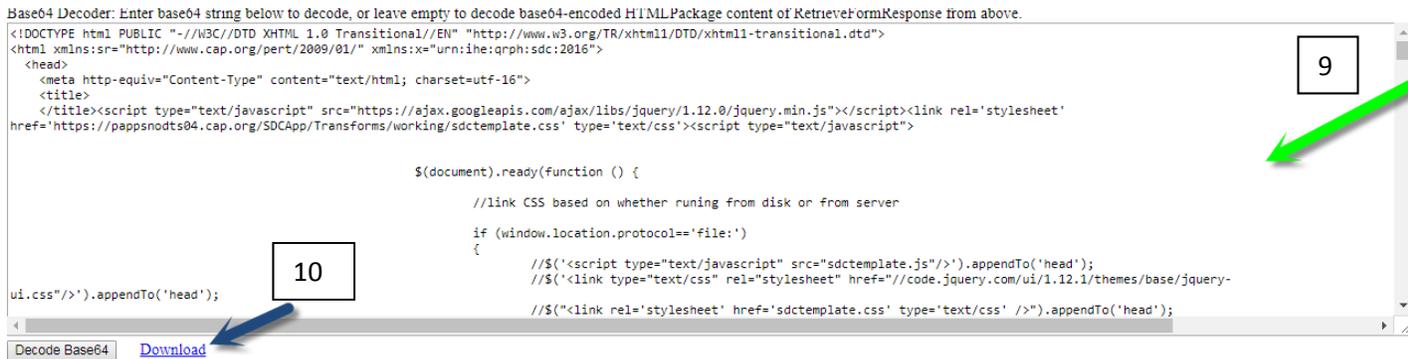


7. Specifically, with an HTML form (teal arrow) below, after clicking on “View Log Message”, a screen will be displayed with binary data.
8. This binary data (red arrow) below allows the user to successfully click on “Decode Base64” (purple arrow) above and view the decoded data.

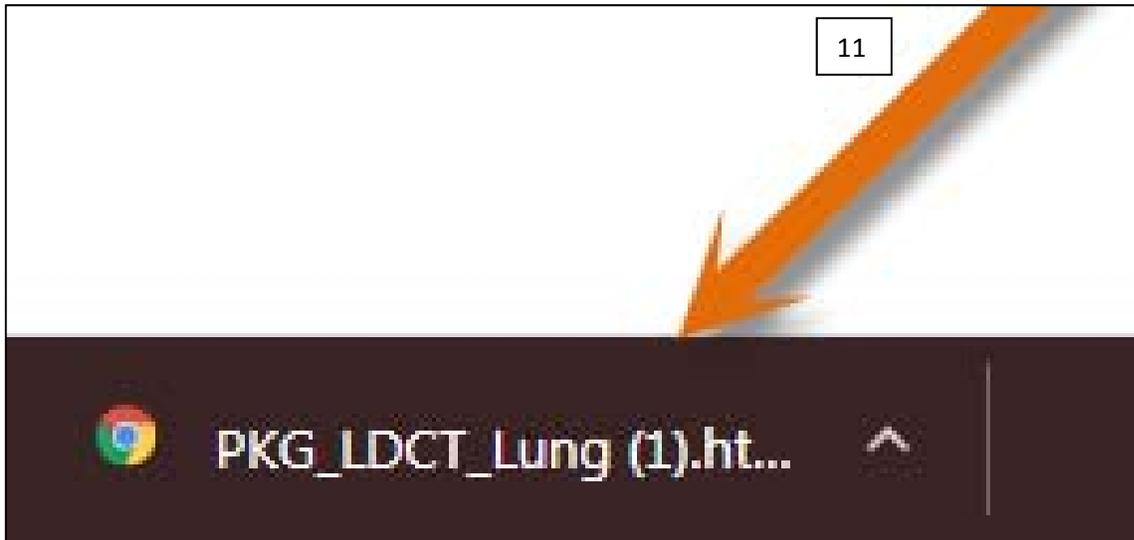




After clicking “Decode Base 64”, users will see the following:



9. Now, the user can easily read the binary data from above in the decoded message indicated by the **green arrow**.
10. The user can then download this data by clicking on the “Download” option at the bottom (**blue arrow**).
11. The new HTML file will be downloaded at the default location based on system/user configuration. After clicking on the download (**orange arrow**), the user will be able to view the HTML version of the file.



The HTML Download appears as follows:

Lung Cancer Screening Template

OfficialName: LDCT Lung Cancer Screening Reporting Template
Category: Thoracic
Restrictions: Protocol LDCT Lung Cancer Screening
Required: True
CTV: Other
ChecklistKey:
VersionID: 1.1
CurrentRelease: LDCT Lung Screening Plat ver 1.1
ApprovalStatus: 0

Approval: CCO Cancer Imaging Program approved
EffectiveDate: 2017-02-24

CLINICAL INFORMATION

Clinical Information: Reason for exam:
 Baseline scan
 12 month recall
 6 month follow-up
 3 month follow-up
 Other follow-up

COMPARISON STUDIES

Comparison Study:
 None Available
 Previous CT Exam

IMAGING PROCEDURE DESCRIPTION

Overall Image Quality: Adequate
 Suboptimal
 Non-diagnostic
Procedure protocol:
 LDCT Study Protocol
 Other:
All measurements obtained on axial CT lung reconstruction series:

FINDINGS

Modules

Number of lung nodules present in total (any size):
(Any size. If more than 10 nodules please enter "10")
The 10 most dominant nodules (> 4 mm) need to be measured.
Number of dominant nodules (> 4mm):
(Call up module macro if 1 or more dominant nodules)

Module Number:	Image Number:
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>