# Remediate software licensing

Lab 4.6 20-25 minute

## Lab objectives

You will achieve the following objectives:

- Adobe Systems Acrobat DC Professional is reconciled
- Purchase Order created for additional licenses of Citrix Systems XenApp Enterprise to become compliant

Lab Dependency: Requires the completion of Labs 1.1,2.1, 3.2, 3.3 and 4.4

Required Resources: None

## Scenario

Remediation actions are automatically generated for Software Model Results when software is reconciled. Rick Lemm, Software Asset Manager at Cloud Dimensions, Ltd. (CloudD), needs to improve their software compliance position by remediating licensing issues identified during reconciliation.

## **Requirements Summary**

### **User Stories**

STRY040601 – Eliminate non-compliant reconciliation results

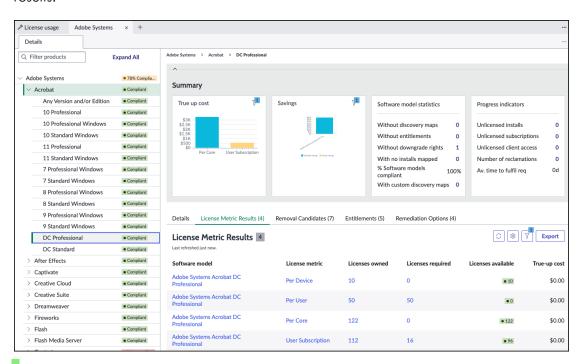
As a software asset manager, I need to remediate reconciliation issues, so that I can improve my compliance position.

## STRY040601 – Eliminate non-compliant reconciliation results

## Section 1 Remove allocations

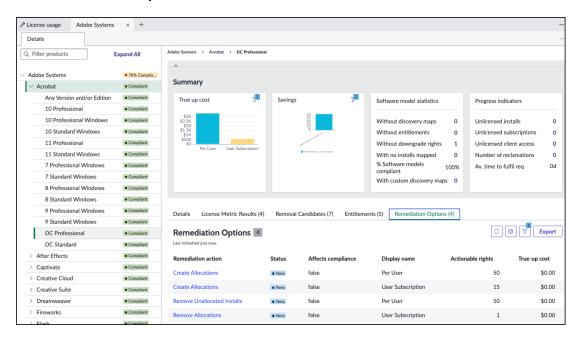
Allocations identify who or what should have installations of software. Allocations are useful in tracking where licenses are being consumed and how often. Rick wants to analyze his compliance for Adobe Acrobat Professional DC.

- 1. If not already, impersonate **Rick Lemm**.
- 2. Run a reconciliation for Adobe Systems.
- 3. Navigate to **Software Asset Workspace > License usage** then click on the **Publishers** tab.
- 4. Open the product result for **Adobe Systems Acrobat DC Professional** and observe the results.



**Note:** Your values may differ slightly from the screenshot above depending on when you run the lab. The important thing is that you learn how to resolve the reconciliation issues.

5. View Remediation Options.



- 6. Make a note of the status of each available remediation option.
- Since the allocated rights are not being used, click Remove Allocations to take back the rights.
- 8. Click Remove All Allocations.



Knowledge Check: Refer to the Answer Guide at lab's end.

1. What happened to the statuses of the available Remediation Options?

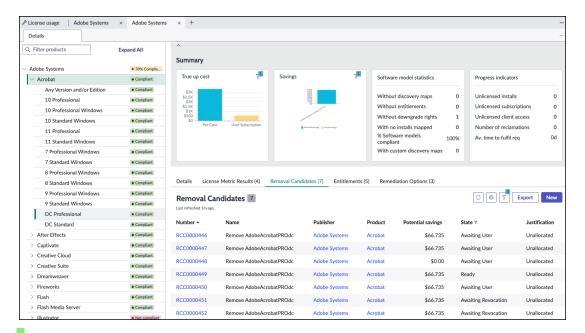
## Section 2 Remove unallocated installs

Rick now wants to manage the installations that are in use but have not been allocated for use.



#### Section 2.1 Create removal candidates

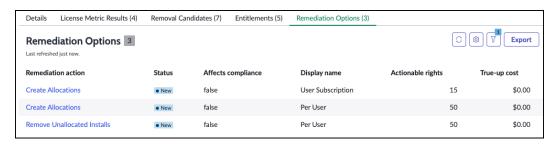
- 1. As Rick Lemm, navigate to Software Asset Workspace > License Usage.
- 2. Click Run Reconciliation.
- 3. Run the reconciliation only for Adobe Systems.
- When the reconciliation is complete, view the results for Adobe Systems Acrobat DC Professional again on the license usage view.
- 5. View Removal Candidates.



**Knowledge Check:** Refer to the Answer Guide at lab's end.

- 2. How many records are identified on this tab? Why?
- 6. View Remediation Options.
- 7. Make a note of the status of each available remediation option.

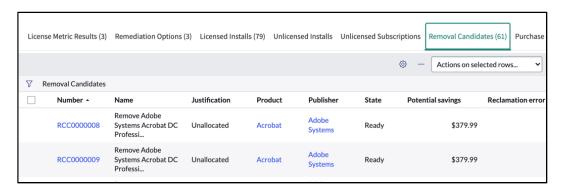
#### 8. Click Remove Unallocated Installs.



9. Click Create All Removal Candidates.

**Knowledge Check:** Refer to the Answer Guide at the lab's end.

- 3. How many actionable rights still need to be resolved for Remove Unallocated Installs?
- 4. What happens to the Statuses of the available Remediation Options? Why?
- 10. View the updated list of Removal Candidates.



**Note:** Some installations may have multiple reasons to be removed from the environment.

**Note:** You may have to click the DC Professional Software Model on the navigator to refresh current displays.

### **Section 2.2 Remove installations**

To simulate the removal of the software, you run a script that was created for this lab to remove the unallocated software installations associated with the Removal candidates. This needs to be performed as a System Administrator.

- 1. Impersonate **System Administrator**.
- 2. Navigate to System Definition > Fix Scripts.
- Open Remove installs for Removal Candidates from the list of Fix Scripts and review the description of the script as well as the text highlighted in yellow.

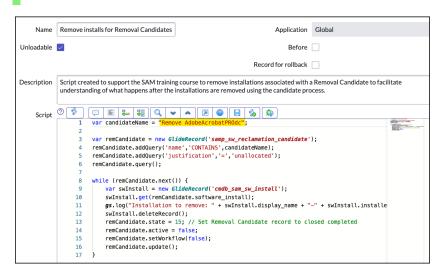
**Note:** The text highlighted in yellow(below in the script), is taken from the removal candidate list.



**Note:** The script will take the value "Remove AdobeAcrobatPROdc" and find all records in the Removal Candidate [sam\_sw\_reclamation\_candidate] table that match and has a justification value = "unallocated".

**Note:** The script then performs the following for each matched record:

- 1. Deletes the associated Software Installation [cmdb sam sw install] record.
- 2. Sets the state of the Removal Candidate record to Closed Complete.



- 4. Click Run Fix Script.
- 5. Click Proceed.
- 6. View the results of the script log.



**Note:** The results of your script log will likely look different than the image above.

#### 7. Click Close.

**Challenge:** Challenge (Required):

Navigate back to the License usage view and review the Removal Candidates for Acrobat DC Professional. Modify and run the Remove installs for Removal Candidates Fix Scripts to remove the remaining Removal Candidates. Finally, navigate back to the License usage for Acrobat DC Professional and verify there are no more Removal Candidates. **Hint** – You will change the candidateName to Remove Adobe Systems Acrobat DC Professional

**Important:** If you need assistance, refer to the Lab Challenge Verification section at lab's end for detailed steps. Remember to execute the section below, validate unallocated install removal, before moving on the exercise C.

### Section 2.3 Validate unallocated install removal

- 1. Impersonate Rick Lemm.
- Navigate to Software Asset Workspace > License usage > Reconciliation.



- 3. Click **Run reconciliation** and run the reconciliation only for **Adobe Systems**.
- When the reconciliation is complete, view the results for Adobe Systems Acrobat DC Professional again on the License usage view.

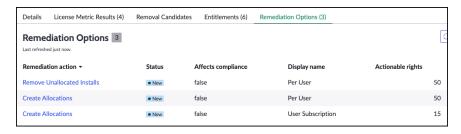
Knowledge Check: Refer to the Answer Guide at lab's end.

6. Why does the Software Model Result still show Remediation Options?

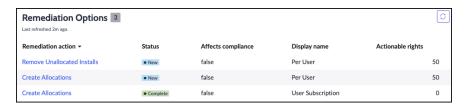
## **Section 3 Create allocations**

Allocation creation affects compliance for Per Device, Per User, and User Subscription entitlements. As this software model is using all of these entitlement license metrics, Rick needs to fully reconcile all unallocated in-use rights to be compliant.

1. As **Rick Lemm** on the Acrobat DC Professional software model results, view the **Remediation Options**.



- For the fifteen (15) remaining unallocated User Subscription installations, click Create Allocations.
- 3. Click Create All Allocations.
- 4. Navigate back to the **Remediation Options** tab. The status of the Create Allocations Remediation action for the User Subscription installations is set to Complete and the Actionable rights are now 0.



- 5. Run a reconciliation only for **Adobe Systems** and, when complete, view the results for **Adobe Systems Acrobat DC Professional** again on the License usage.
- 6. Using the knowledge gained in the previous steps, remove the allocations for the last remaining **Per User** rights that remain for Adobe Systems Acrobat DC Professional.

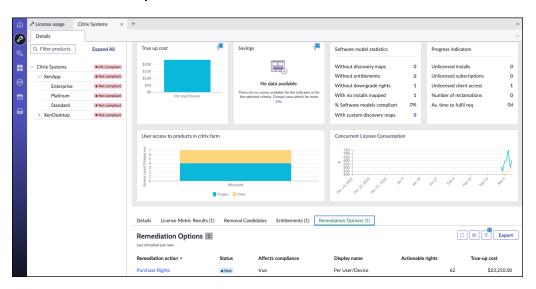
## **Section 4 Purchase rights**

The most common remediation action taken today by companies to ensure compliance is to purchase more rights to use the software. This approach assumes ensured compliance through over-licensing is better than an audit, but it can lead to large overpayment. Other remediation options should be explored first, with data and processes put in place to support those efforts.

As Rick Lemm, navigate to Software Asset Workspace > License usage > Publishers.

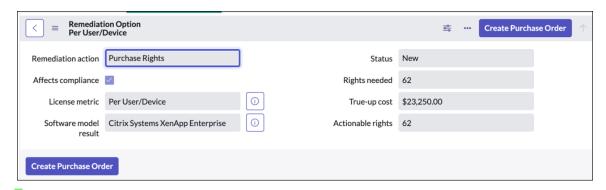


- 2. Open the product result for Citrix Systems XenApp Enterprise.
- 3. View Remediation Options.



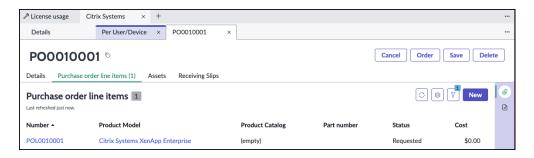
4. Click Purchase Rights.

5. Click Create Purchase Order.

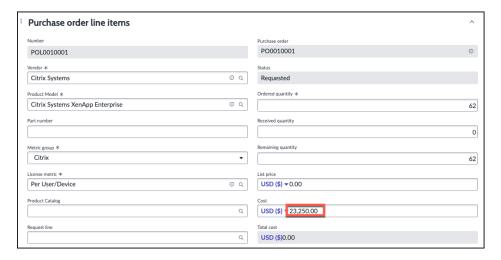


**Note:** This feature is only available if the ServiceNow Procurement product is enabled.

6. Select the **Purchase order line items** tab, and then click the line **Number** for the purchase order.



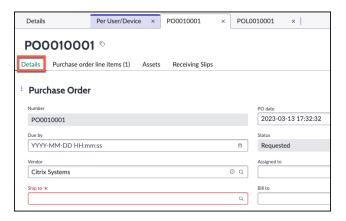
7. Update Cost to \$23,250.



8. Make a note of the quantity being ordered.

**Note:** The cost here represents the **cost per right**.

- 9. Click **Save**.
- 10. Navigate to the **Details** tab of the purchase order.



- 11. Update Ship to field to San Diego Border Pickup/Dropoff.
- 12. Click Save.

**Note:** This is simply a purchase order <u>request</u> to an organization's purchasing department. The approval and actual "cutting" of the PO to the appropriate vendor is based on defined workflows and an organization's policies and processes.

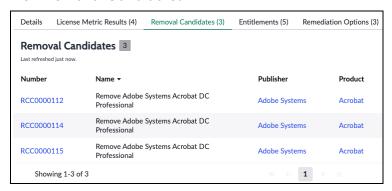
**Important:** If you run another reconciliation at this point, Citrix Systems XenApp Enterprise will still show as Not Compliant because the purchase order has not yet been processed and the licenses obtained. Once the licenses are obtained and assigned to the individual users, running another reconciliation would show the product as being Compliant.

## Lab Challenge Verification

This section provides screenshots of steps performed in the lab challenge.

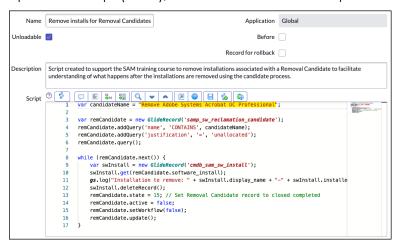
**Challenge:** Navigate back to the License usage view and review the Removal Candidates for Acrobat DC Professional. Modify and run the Remove installs for Removal Candidates Fix Scripts to remove the last Removal Candidates. Finally, navigate back to the License usage view for Acrobat DC Professional and verify there are no more Removal Candidates.

View Removal Candidates

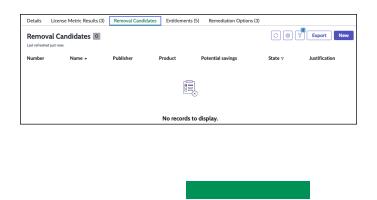


**Note:** You will need to update the Fix Script with the name "Remove Adobe Systems Acrobat DC Professional" for the final 3 Removal Candidates.

Update Fix Script (line 1); remember to save the script after updating it!



- Run modified Fix Script
- Verify there are no more Removal Candidates



Congratulations! You have completed this lab!

You are now ready to begin learning about Software Product Lifecycles.

## **Knowledge Check Answer Guide**

### 1. What happened to the statuses of the available Remediation Options?

- Remove Allocations Changed from New to Complete
- All others remain in New status

### 2. How many records are identified on this tab? Why?

- 7
- There are pre-existing removal candidates identified that are running unallocated software.

### 3. What's the status of Remove Unallocated Installs? Why?

- In Progress
- Some, but not all, have been removed.

### 4. How many actionable rights still need to be resolved for Remove Unallocated Installs?

• 0

### 5. What happens to the Statuses of the available Remediation Options? Why?

- Remove Unallocated Installs Remained In Progress they are only marked as removals. A process still needs to occur to remove them.
- Create Allocations (Per User) Changed from New to Void this option is now unavailable since the records were all processed by the Remove Unallocated Installs action.

### 6. Why does the Software Model Result still show Remediation Options?

There are still User Subscription issues that need to be resolved.

# Lab takeaways



- What would be a good way to avoid unlicensed and unallocated software?
- What is the value of creating and removing allocations?