

HDX-ADM-200 Monitoring and Troubleshooting Lab



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Bio

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Introduction

In this lab, you will learn how to monitor and troubleshoot your HCL Digital Experience deployment.

In this DX administrator lab, you play the role of Harry, an administrator for the fictitious Woodburn Studio company.



Harry Pappus, Administrator, based in Chicago (USA)

As a DX Administrator, you will learn how to access and analyze log files, enable tracing, analyze details, use support and prepare to open a support case.

Prerequisites

- Completion of <u>HDX-INTRO</u>, <u>HDX-BU-100</u> and <u>HDX-ADM-100</u> courses, as well as the previous lessons under <u>HDX-ADM-200</u> course, including the labs (you need the DXClient installed and up).
- 2. Have a running DX instance on CF221 or newer. The lab is using the DX Solution Modules in HCL SoFy (https://hclsofy.com/catalog/dx-solution-modules).
- 3. Access to download the Lab Resources. In the same place where you have found this lab, you will find corresponding resources which you may download and unzip in your Desktop. This helps you to run the lab more easily, and you may later replace it by your own ones.

You will be using the following user IDs and passwords:

Purpose	User	Password
SoFy Login	Your official email id	Your password
SoFy Solution Console Login	sol-admin	Get it from SoFy
DX Login Admin (Harry Pappus)	hpappus	HCL-Dem0
DX Solution Console Login Administrator	wpsadmin	wpsadmin

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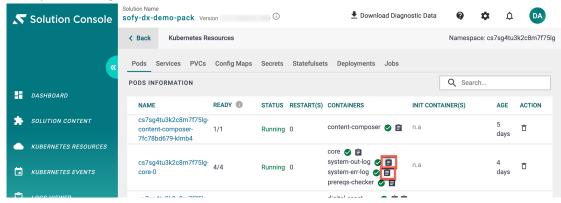
Lab Overview

In this lab, you will learn how to monitor and troubleshoot issues with your HCL Digital Experience deployment.

In this lab, there are three parts. These are shortly introduced now.

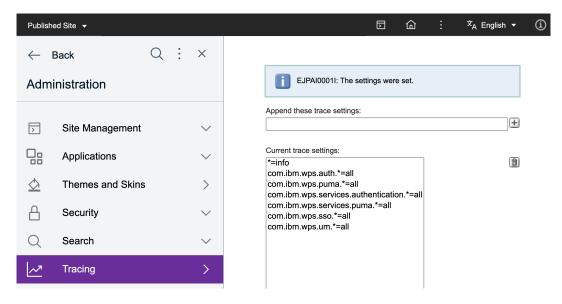
Part 1: Access and Analyze Log Files

You will first use the HCL SoFy Solution Console to access the log files and look at the SystemOut.log and SystemErr.log files.



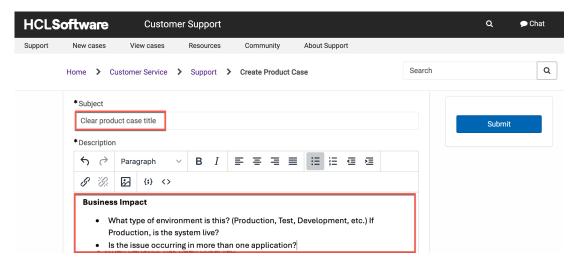
Part 2: Enable, Analyze Details and Use Help Center

Then, you will enable the tracing on access control, analyze the results in the trace.log and use the Help Center to find any details.



Part 3: Prepare to Open a Case with Support

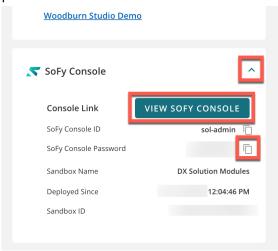
And then you learn how to prepare yourself to open a case with HCL Support.



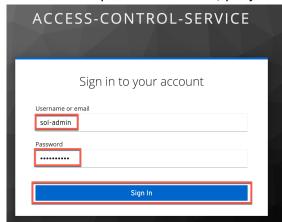
Part 1: Access and Analyze Log File

You will first use the HCL SoFy Solution Console to access the log files and look at the SystemOut.log and SystemErr.log files.

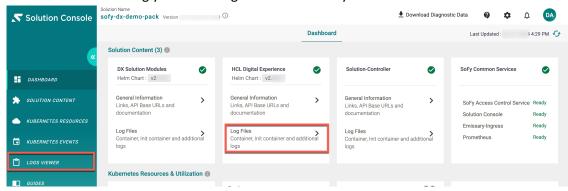
You have learned that there are many ways to access the log files. In HCL SoFy this is limited
though and the log files are only accessible through the SoFy Console for your DX Solution
Modules deployment. When you access it, you see the access details to the SoFy Console.
Use these credentials to login into your solution console. You may use the copy to clipboard
to simplify filling this out. The sol-admin may be easy to remember. Copy the (here hidden)
password and click VIEW SOFY CONSOLE.



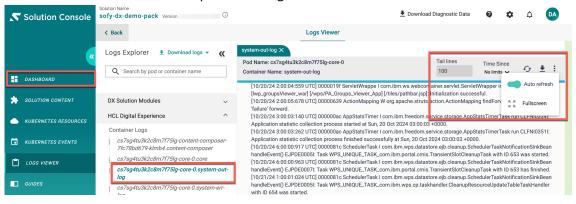
Enter as shown below and click Sign In.
 Username: <SoFy Console ID:> sol-admin
 Password: <SoFy Console Password, you just copied>



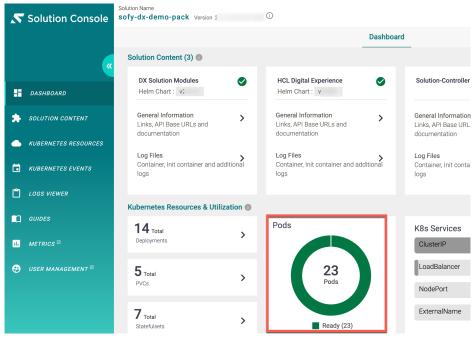
3. You now see all the details of the solution on the Kubernetes resources, pods, services, etc. There are several ways to access the log files. Both Log Files under HCL Digital Experience and LOGS VIEWER bring you to the Logs Viewer. Click any of them.



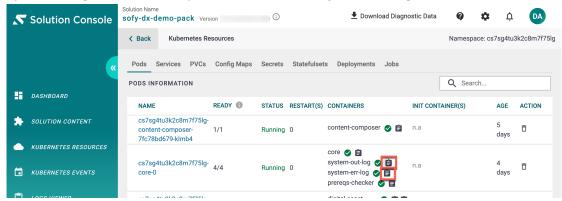
4. You see the full list of container logs. Have a look at the SystemOut.log. Click on the one that ends with ...core-0.system-out-log and check out the details. Notice and feel free to try out all options to indicate how many lines to show, from when, to refresh, download and even the auto refresh and fullscreen options. Then go back to the dashboard. Click **DASHBOARD**.



5. Then click the Pods.



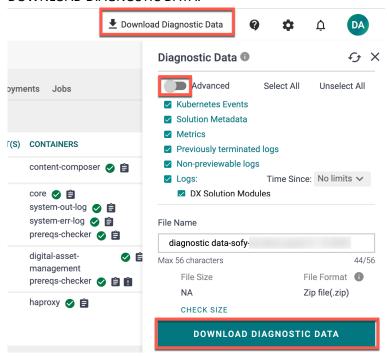
6. This also gives you easily access to all log files for each pod. E.g. the SystemOut.log and SystemErr.log for the DX Core pod. Click the icon **for system-out-log.**



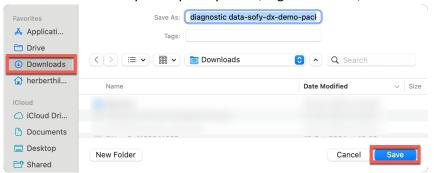
7. This gives you access to the same log information and options to show. Close it.



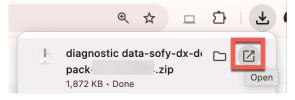
8. And to easily download all the files, you may use the Diagnostic Data. Click Download Diagnostic Data, notice with Advanced option you can select specific log files and click DOWNLOAD DIAGNOSTIC DATA.



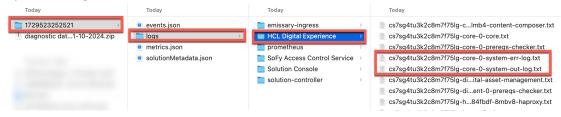
9. Select a folder where you may easily find it, e.g. Downloads, and click Save.



10. Then open it (to unzip). Click Open icon.



11. And notice all resources that are part of this download, including the SystemOut.log and SystemErr.log.

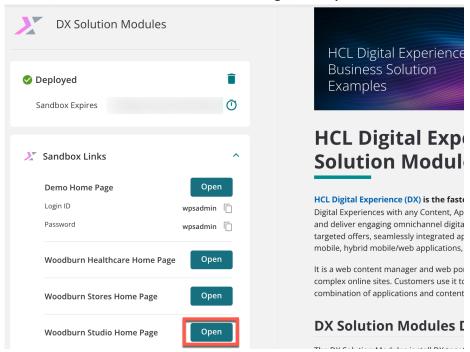


You have successfully learned how to access the different log files for DX using HCL SoFy.

Part 2: Enable Tracing, Analyze Details and Use Help Center

In this part, you will enable the tracing on access control, analyze the results in the trace.log and use the Help Center to find any details.

1. First log in to your DX server. On the server where the DX Solution Modules has been installed, next to **Woodburn Studio Home Page**, click **Open**.



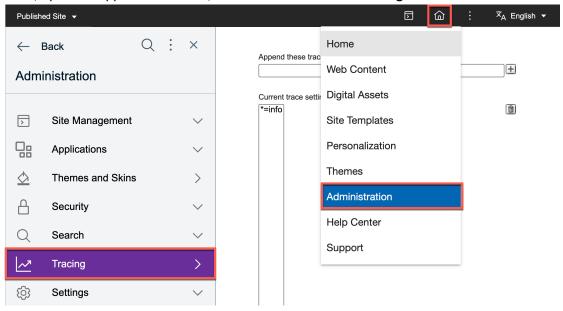
2. Now login as an administrator, Harry. Click on **Log In**. You may use **CRTL** + and **CRTL** – to zoom in and out. You may need to zoom out to see the navigation on the top. Otherwise, you'll find it under on the top right.



3. Use the credentials of Harry (User ID: **hpappus**, Password: **HCL-Dem0** – if you do not have these, you may use the default administrator account with User ID: **wpsadmin**, Password: **wpsadmin**).



4. Then, open the applications menu, select Administration – Tracing.



5. In the Help Center, you see what traces to enable tracing for authentication:

https://opensource.hcltechsw.com/digital-

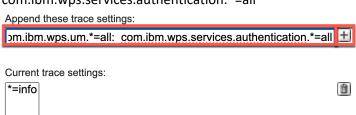
<u>experience/latest/deployment/manage/troubleshooting/logging and tracing/run logs/#aut hentication</u>. You need to add the following to the Append these trace settings and click + to add.

com.ibm.wps.services.puma.*=all: com.ibm.wps.puma.*=all: com.ibm.wps.auth.*=all:

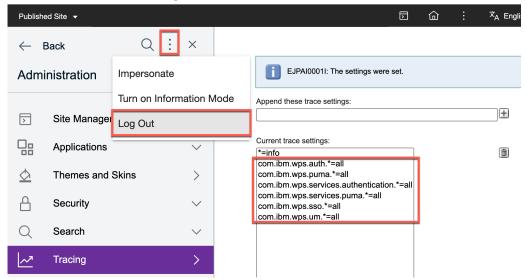
com.ibm.wps.sso.*=all:

com.ibm.wps.um.*=all:

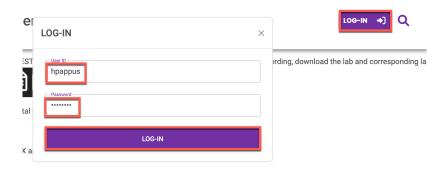
com.ibm.wps.services.authentication.*=all



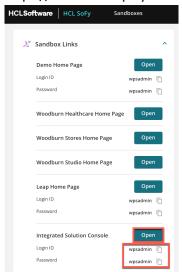
6. You should see that the current trace settings are set. Now log out to see it working. Open the more menu and click **Log Out**.



7. Then log in again with Harry. Click **LOG-IN**, enter User ID **hpappus**, Password **HCL-Dem0** and click **LOG-IN**.



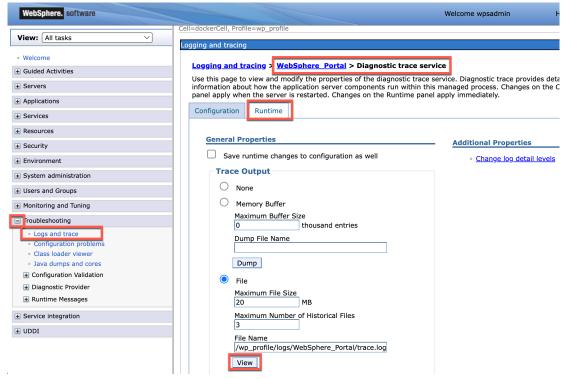
8. And then have a look at the trace.log. On HCL SoFy, this is exposed only using the Integrated Solution Console. From your sandbox, you may easily access this and find the right login ID and password to use. Click **Open**. It opens a URL like https://dx.sbx0000.play.hclsofy.com/ibm/console



9. And log in with the user ID and password. This may log out your current user, if you use the same browser. You could use a private or incognito window to avoid this.



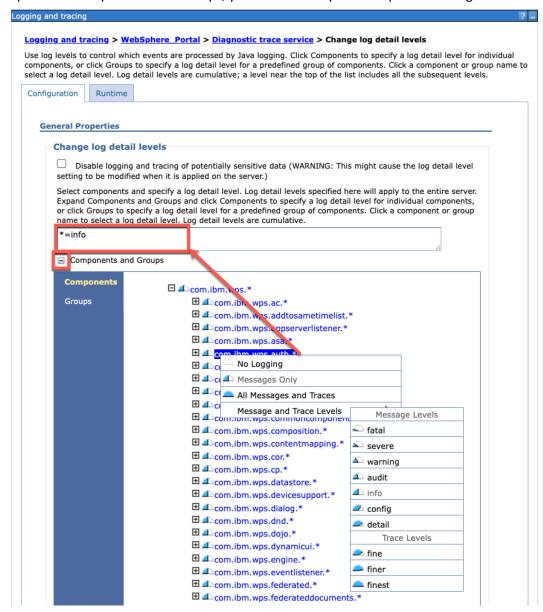
10. Then view the trace.log. Open **Troubleshooting**, click **Logs and trace**, **WebSphere_Portal**, **Diagnostic Trace**, **Runtime** and **View**.



11. And see the full trace of your authentication. Notice you can filter the number of lines to show. You can also easily select and copy the content.



12. Then go back to change the log details level. Click **WebSphere_Portal**, **Diagnostic trace service**, **Change log detail levels**. Notice you may change the log detail levels here and if you expand the Components and Groups, you'll see all the possible options and log levels.

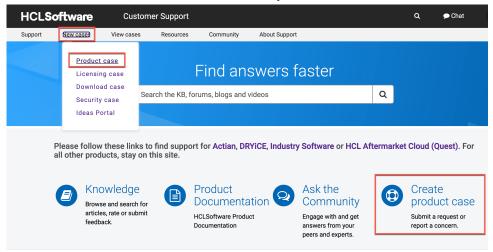


Congratulations! You successfully enabled tracing for authentication and checked their traces in the trace.log file.

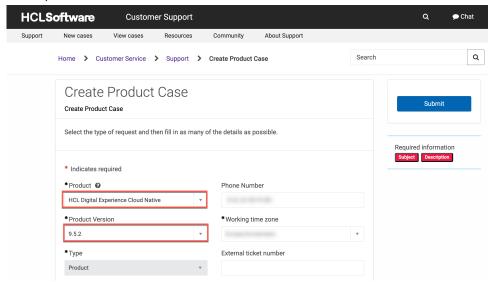
Part 3: Prepare to Open a Case with Support

In this part, you learn how to prepare yourself to open a case with HCL Support.

You first need to check if the problem is known. Use log files and data collection on the topic to learn more on the issue. Check the Help Center https://hclsw.co/dx-product-documentation and Product Knowledge Base, use the Product Forum https://hclsw.co/dx-support-forum and DXers User Group https://dxers.ug. If you do not find a solution, then you may open a support case using the HCLSoftware Customer Support portal https://support.hcl-software.com/csm. Ensure your you are correctly registered. If not follow this guidance: https://support.hcl-software.com/csm?id=kb_article&sysparm_article=KB0010165. Then create your product case. Click New case, Product case or Create product case.



 Select the right product and product version. You will find the possible public versions, once selected a product. In this example, the selected product is HCL Digtal Experience Cloud Native, version 9.5.2.



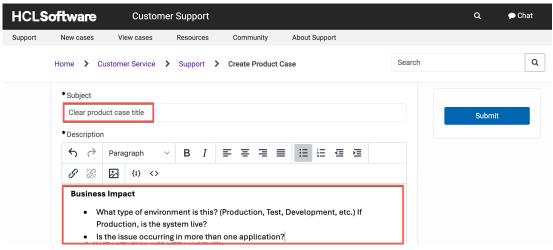
3. Select the appropriate priority, e.g. 2 - High.



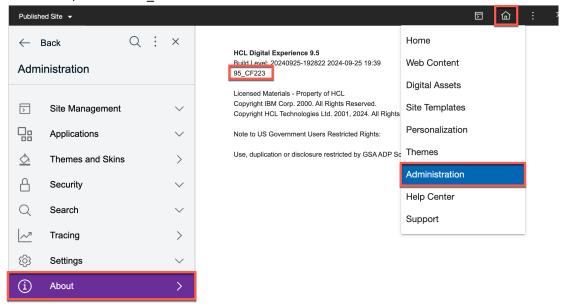
With these possible options.

Priority	Business Impact	Definition
1	Critical	An issue with the product or service that impacts critical business functionality in your production environment and requires immediate attention. No procedural workaround is available.
		Note : 24x7 assistance requires you to ensure availability of necessary technical resources to assist HCLSoftware Support with any requests related to problem determination for the case.
2	Significant	An issue with the product or service that significantly limits functionality and requires prompt attention. A business deadline may be in jeopardy.
3	Minor	An issue or question related to the product or service that has low impact to business operations.
4	None	A question (possibly non-technical) that has no impact to your business operations.

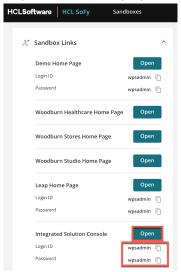
4. Then provide clear title and description. The title should summary the problem you have and may contain the error code. The description should provide Business Impact details which may include the type of environment (Production, Test, Development, etc.), specific target date(s) related to case (Go-Live, Project deadline, etc.), the number of users affected, frequency of issue and workarounds available, etc. This helps the support team understand the priority of your case. You may use the HCLSoftware Support Case for HCL Digital Experience document from your downloaded resources to help completing this. Open it, copy its content for Business Impact, Environment and Description and paste it in the description field. Then use it to complete each topic.



5. Also provide more detailed information on your environment, like the current DX server version, OS, DB, WAS and Java. You may get this from the Administration – About page. Open the applications menu, click **Administration**, **About** and you'll find the version details. In this case, it shows 95_CF223 which means it is on version 9.5 CF223.



6. In some cases, for a traditional deployment of DX, you may be asked for the WAS version. You can get that using the Integrated Solution Console. From your sandbox, you may easily access this and find the right login ID and password to use. Click **Open**. It opens a URL like https://dx.sbx0000.play.hclsofy.com/ibm/console



7. And log in with the user ID and password. This may log out your current user, if you use the same browser. You could use a private or incognito window to avoid this.



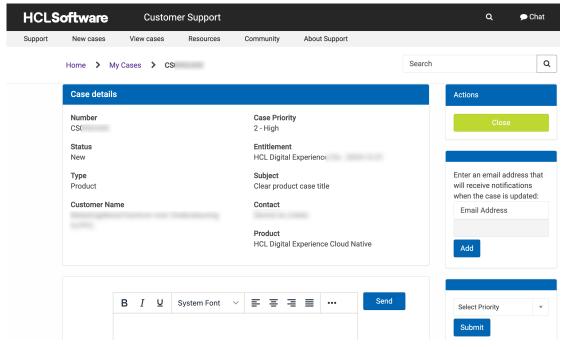
8. You easily see the WebSphere Application Server version, here 9.0.5.20.



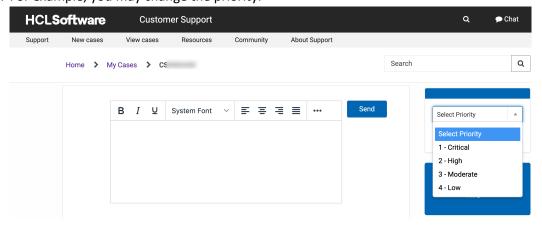
9. You may store these updates as part of your version of the HCL Software Support Case for HCL Digital Experience document, so each new case, you have this ready and up to date. And of course, you should provide a description of your case, that includes the expected and actual behavior, when behavior has been observed, the symptoms and steps to reproduce. Once completed, you can submit. Click Submit.



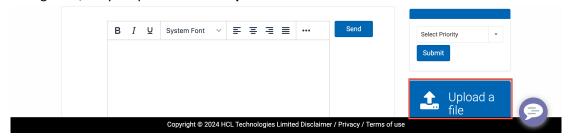
10. Now your case has been created and you may add more information.



11. For example, you may change the priority.



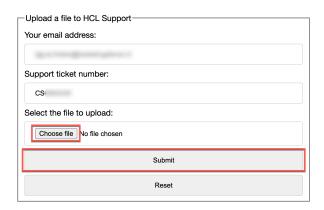
12. You also provide any additional supporting information which may include product log files, system log files including traces or error messages, screenshots, recorded videos of the problem and, if applicable, the output file of a collector tool, like wpcollector and mustgather, for your problem. Click **Upload a file**.



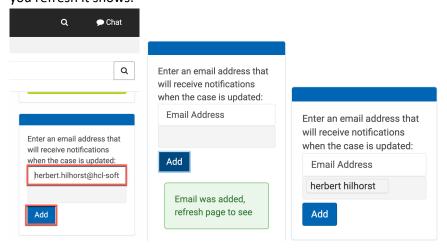
13. Then choose the file and send. Click Choose file, select your file and click Submit.



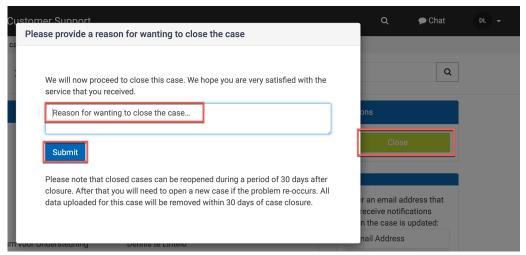
Welcome to HCL Software Support file upload application



14. And to keep other team members involved on your case, you may add them to the watchlist. Add their e-mail addresses one by one and click **Add**. You get notified it is added and when you refresh it shows.



15. Once your case is solved, close it with a reason. Click **Close**, provide your reason and click **Submit**.



Congratulations! You successfully learned how to open a new case to get fast and good assistance.

Conclusion

You have learned how to monitor and troubleshoot issues with your HCL Digital Experience deployment.

While there are many ways to access the log files, you learned how to access the log files and look at the SystemOut.log and SystemErr.log files on HCL SoFy using the HCL SoFy Solution Console.

You also learned how to enable the tracing on access control, analyze the results in the trace.log and use the Help Center to find any details.

And you learned how to prepare yourself to open a case with HCL Support.

Resources

Refer to the following resources to learn more:

HCL Digital Experience Home - https://hclsw.co/dx

HCL Digital Experience on HCL Solutions Factory (SoFy) - https://hclsofy.com/

HCL Software - https://hclsw.co/software

HCL Product Support - https://hclsw.co/product-support

HCL DX Product Documentation - https://hclsw.co/dx-product-documentation

HCL DX Support Q&A Forum - https://hclsw.co/dx-support-forum

HCL DX Video Playlist on YouTube - https://hclsw.co/dx-video-playlist

HCL DX Product Ideas - https://hclsw.co/dx-ideas

HCL DX Product Demos - https://hclsw.co/dx-product-demo

HCL DX Did You Know? Videos - https://hclsw.co/dx-dyk-videos

HCL DX GitHub - https://hclsw.co/dx-github

HCL DX Web Developer Toolkit - https://github.com/HCL-TECH-SOFTWARE/WebDevToolkitForDx

Legal statements

This edition applies to version 9.5, release 221 of HCL Digital Experience and to all subsequent releases and modifications until otherwise indicated in new editions. It uses the DX Solution Modules with additional resources in HCL SoFy.

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