

# DxPulse FAQ



Frequently Asked Question	Answer
<b>General</b>	
Is DxPulse free to use?	Yes, DxPulse is open source and freely available
What is the license for DxPulse?	Dx Pulse is built on DHIS2 and therefore subject to the DHIS2 license (a BSD 3-Clause "New" or "Revised" License ) which can be found <a href="#">here</a>
What is the difference between DxPulse and DHIS2?	DHIS2 is used as the database and analytics platform for Diagnostics Network Optimization (DNO) data which is stored as aggregated records. DHIS2 also provides the login platform to the system  DxPulse is an app installed on DHIS2, which provides the user interface for users to interact with their data
What is the state of DxPulse development?	DxPulse development has just completed its first release. There is functionality which need to be completed to allow users to use the system completely independently (such as adding metadata and upload data) DxPulse also currently only cater for tuberculosis, HIV, cancer and malaria testing
Who is supporting DxPulse development & maintenance?	FIND & HISP SA
How can I contribute to DxPulse development?	Contact FIND at: <a href="mailto:DxPulse@finddx.org">DxPulse@finddx.org</a> if you are interested in contributing to the development of DxPulse
What do I do if I have suggestions to improve DxPulse?	Contact FIND at: <a href="mailto:DxPulse@finddx.org">DxPulse@finddx.org</a> if you have suggestions on how to improve DxPulse
What do I do if I encounter bugs or missing functionality when using DxPulse?	Contact FIND at: <a href="mailto:DxPulse@finddx.org">DxPulse@finddx.org</a> if you encounter bugs or find missing functionality when using DxPulse
How are updates to DxPulse managed?	DxPulse updates are made to the DHIS2 instance or the DxPulse App by HISP SA and released as part of metadata or the app release. Currently the system is run from a central instance, so updates are affected on that central instance
What are the options for deploying DxPulse?	DxPulse can be deployed either on a central cloud-based server (hosted and managed on your behalf) or within a country instance of DHIS2
What are the pros and cons of a privately hosted DxPulse instance?	<b>Pros:</b> - This is a suitable hosting approach for countries that have specific data security requirements for diagnostic network related information such as laboratories,

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	<p>diagnostic device placement related details and tests done</p> <ul style="list-style-type: none"> <li>- Subject to funding availability, available DxPulse capabilities can be further customized, according to country requirements</li> </ul> <p><b>Cons:</b></p> <ul style="list-style-type: none"> <li>- Privately hosted DxPulse installations can often result in a lag in versions between the latest available DxPulse version and the installed version</li> <li>- Privately hosted DxPulse installations can potentially miss out on critical updates and patches that are routinely published by the core development team</li> </ul>
<p>What are the pros and cons of a centrally hosted DxPulse instance?</p>	<p><b>Pros:</b></p> <ul style="list-style-type: none"> <li>- It is an affordable and managed approach to hosting DxPulse without the burden of incurring maintenance costs</li> <li>- Newly published DxPulse features and updates are immediately available to all users</li> </ul> <p><b>Cons:</b></p> <ul style="list-style-type: none"> <li>- It may be a challenge to develop unique product features that are requested by one country without, without considering our countries that are utilizing the same DxPulse instance</li> </ul>
<p>What are the costs involved to deploy DxPulse?</p>	<p>Costs vary based on a number of factors including the hosting option, size of the deployment, training and support needs. Contact FIND at: <a href="mailto:DxPulse@finddx.org">DxPulse@finddx.org</a> if you would like more information on how to cost a deployment in your setting</p>
<p>Can I run DxPulse without DHIS2? How would it work?</p>	<p>DHIS2 is currently the backend database for DxPulse visualizations. If you want to de-couple the application from DHIS2 a database would need to be developed for the data and the application would need to be re-directed to pull from that database</p>
<p>If a country is already using DHIS2, what is the best way to implement DxPulse?</p>	<p>Two options exist – the country could contract through FIND for support to get their data into the central hosted DxPulse instance</p> <p>OR</p> <p>the country can request a copy of the blank database and then install the instance in their</p>

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	infrastructure and request minimal support from FIND to get training on managing the system. Minimal development work is required to finalize the import of data to run independently but once that is done the country will be able to run the system independently after training of a System Administrator
<b>Installation &amp; Setup</b>	
How do I use the documentation supplied with DxPulse source code?	The Instance Management document describes the configuration of the DHIS2 instance so to use the DxPulse app in DHIS2 the system administrator needs to pay close attention to metadata configuration described in this document for the DxPulse app visualizations to display correctly on all the screens
How do I install this software? Are there step-by-step installation instructions available?	The software requires the hosting of a DHIS2 instance with the DxPulse DHIS2 database loaded using War 2.40 (and can later be upgraded if required) and then the installation of the DxPulse DHIS2 WebApp
What dependencies does this software require?	DHIS2 installation and the DxPulse app
Will DxPulse slow DHIS2 if I deploy using a country instance of DHIS2?	It should not slow down a DHIS2 instance if deployed but note that the startup sequence of the DxPulse app does pre-load some data into the browser and that can take a few mins
<b>Data input &amp; templates</b>	
Where can I find the Data Template?	In DxPulse, from the left-hand side menu navigate to Data Management and choose Template. The link to Data Template will be displayed with a download link provided
What if I don't have all the data required in the Data Template?	If all the data in the data template is not available when importing certain visualizations on the DxPulse app will not show as these are dependent on the data in the template and calculations using that data
How do I input data into the system for the first time? How do I regularly add data to the system?	Currently data is inputted through the Excel template each time that you want to input data and this excel template is then run through a processing file which makes calculations and outputs the DHIS2 import file
When setting up a country instance, how do I choose which tests should be included?	DxPulse is disease and test agnostic. However, DxPulse is currently configured for tuberculosis, HIV, cancer and malaria and you need to use the dropdowns on the input template for selecting tests and devices. If new devices and tests need to be

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	added to the input template, HISP SA will support the process
How often should data be updated for DxPulse?	Data periods are monthly, but users can decide how often they want to update data
What do I do if a test is not available on the data template dropdown?	You are able to add the test but as indicated above the DHIS2 metadata also needs to be amended. HISP SA will support the process
What do I do if a device is not available on the data template dropdown?	The device can be added on the input template, but it also needs to be added to the DHIS2 metadata. HISP SA will support the process
<b>Integration</b>	
Does DxPulse integrate with Laboratory Information Systems (LIS)?	Currently (v1.0) does not integrate into LIS systems. Contact FIND at: <a href="mailto:DxPulse@finddx.org">DxPulse@finddx.org</a> if you would like to support the development of APIs for DxPulse integration
<b>Deployment</b>	
Is there user training available for DxPulse?	Yes, training can be accessed through the training app on the DxPulse instance and there is another DxPulse Training app available which includes the app and training videos which can be installed on the instance under App Management. Alternatively, it is recommended that in-person training be arranged through FIND
Can I restrict access to DxPulse based on user profile?	Yes. User Access permissions exist for administrators vs data users for entering data and users for reports. Additionally, all users are assigned to a hierarchy e.g. District / Region etc. Limiting access by disease is also possible
How do I keep DxPulse updated?	The DHIS2 instance should be kept within the last 3 support versions which can be obtained from the DHIS2 website. In addition, any changes to DxPulse in terms of new developments or bugs can be reported to FIND
How frequently should I update DxPulse with diagnostic data?	This is dependent on your needs. The more frequently DxPulse is updated the more real-time & relevant the dashboards will be. Monthly updating should be considered the minimum