ODPi Compliance
FAQ

Benefits of Compliance

- Provide a common specification against which to certify apps, reducing the complexities of interoperability.
- Ensure a level of compatibility and standardization across distribution and application offerings for easier management and integration.
- Boost brand and customer trust with the ODPi compliant mark by aligning with industry standards.
- Join a growing network of companies and ODPi compliant distributions.

How to Become Compliant

1. Prepare
   a. Learn about the compliance requirements and technical instructions are to perform pre-certification testing on your product.

2. Test
   a. Apache Hadoop distributions submit product test results through a GitHub repository for specific review. The ODPi Apache Hadoop Distribution Certification Process can be found at https://github.com/odpi/specs/wiki/ODPiCompliance.

3. Evaluate
   a. An Apache Hadoop Distribution submits test results to the ODPi TSC for approval.

4. Promote
   a. Include the ODPi Compliant mark on your product and marketing materials.
FAQ

What is ODPi Compliant?
ODPi Specifications outline an standard model over which the industry can build enterprise-class big data solutions. It specifies how Apache components should be installed and configured and provides a set of tests for validation to make it easier to create big data solutions and data-driven applications.

To become ODPi compliant, the Apache Hadoop distributions submit test results through a GitHub repository for specific products. To assist with compliance, ODPi provides a test suite and a reference build. The ODPi validation test suite guarantees that a distribution of Apache Hadoop from a compliant vendor or an end-user deployment of Apache Hadoop complies with the ODPi-defined specifications. The test framework and self-certification aligns closely with the Apache Software Foundation by leveraging Apache BigTop for comprehensive packaging, testing, and configuration.

Do I need to be a member of ODPi to be compliant? Is there a fee?
Membership is not required to self-certify your product and no fee is required.

Why should I become ODPi compliant?
The current Hadoop market requires that application developers wishing to address the entire market invest inordinate resources in multi-distro certification and regression testing. This reduces the resources these developers can direct toward developing more sophisticated applications. The more standardization and compatibility there is across different Hadoop distros, the easier it is for application vendors to deliver Hadoop-based innovation that drives business value.

ODPi helps the big data ecosystem:
- Hadoop Platforms: ODPi complaint guidelines enable ODPi-compatible software to run successfully on their solutions. The guidelines allow providers to patch their customers in an expeditious manner to deal with emergencies.
- ISVs/SIs: ODPi compatibility guidelines allows ISVs and SIs to “test once, run everywhere,” eliminating the burden and cost of certification and testing across multiple distributions. They can have a predictable release cadence to reduce maintenance and support costs.
- Enterprises: ODPi compatibility provides enterprises the ability to run any “ODPi-compatible” big data software on any “ODPi-compliant” platform and have it work.
How does compliance work?
Products undergo a 4-step process (Prepare, Apply, Test, Verified) and when they pass, they are granted “ODPi Compliant” status.

How is testing administered?
Testing is self-administered currently. To become ODPi compliant, vendors must submit test results for the product release they would like evaluated. They do not have to comply with every specification for every product release.

This [GitHub repository](https://github.com) is where vendors can commit their ODPi spec test runs to let others know when the distro is compliant. Instructions on how to report self-certification are also included.

How long is the testing process to become ODPi Compliant?
The tests will take only 20 minutes, making a 1-2 day effort at most overall.

Does being “ODPi Complaint” mean my product is “ODPi Certified”?
No, certification implies your product has been tested by a third-party validator. This is not the case since products are tested by the ODPi TSC.

What is the difference between being “Runtime Compliant” and “Operations Compliant”?
The primary compliance level with ODPi is the Runtime Specification, which as a vendor you will be able to guarantee that your Apache Hadoop distro provides the base level expectations outlined in the ODPi Runtime Specification. Descending from Apache Hadoop 2.7, the first ODPi Runtime Specification covers HDFS, YARN, and MapReduce components.

Later this year, ODPi will introduce the Operations Specification, which ensures there is a standard way for ISV, SIs, and end users to deploy, configure, and manage applications installed onto an Apache Hadoop cluster.

As mentioned, some versions can be ODPi compliant and other versions may not. There will be no mandate that vendors must be compatible throughout to use the brand name of ODPi compliant; however, vendors must clarify which versions are compliant for end users.

I have successfully passed testing. Am I immediately compliant?
No. An Apache Hadoop Distribution is eligible to promote a version of the distribution as ODPi Compliant only after the tested version has been approved by the ODPi TSC.

If I change my product, does it need to be tested again?
Yes. All new distribution versions must be re-tested for compliance.

It is recommended to integrate the ODPi acceptance test suite into your continuous integration and/or regression testing framework to help make compliance testing a standard part of your development process. ODPi can help any distro provider looking to do this.

**Under what circumstances may I use the ODPi Compliant mark?**

Once an Apache Hadoop Distribution vendor has successfully tested a version of their distribution using the ODPi Runtime test harness, they may request the ODPi Runtime Compliant logo from ODPi. They may use this logo on their product collateral and web pages for the compliant version. They may also use the term “ODPi Runtime Compliant” in their literature, and online, to describe the compliant version in compliance with the ODPi Trademark Policy.

This means that ISVs, SIs and end users can easily identify products that they know will interoperable. The full ODPi Compliant Guidelines can be viewed [here](#).

**How long can I use the "ODPi Compliant" mark with my product?**

For as long as the product does not change in ways that would compromise the “ODPi Compliant” mark. All new distribution versions must be re-tested for compliance.