

# WebDAV for XML Data Archiving

SAP Integration & Certification Center

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## WebDAV for XML Data Archiving Certification (Technical Name BC-DAR 6.40)

The WebDAV certification is a new certification module that – together with the existing "HTTP Content Server certification" and "HTTP Content Server Load certification" modules – forms the overall **Data Archiving Certification**.

WebDAV, which is an extension to the HTTP protocol, stands for "Web Distributed Authoring and Versioning" and allows clients to perform remote Web content authoring operations. In addition to these authoring features WebDAV is particularly valuable for its state-of-the-art communication protocol, which addresses several limitations of HTTP by providing capabilities, for example, for creating hierarchies (collections) and managing metadata (properties).

The aim of the WebDAV certification is to certify that an external storage or archive system – or to be more precise, its interface with the SAP system – meets all the criteria considered to be essential for the communication with XML DAS, SAP's XML-based data archiving technology. The certification is purely aimed at the requirements of data archiving scenarios.

Even though the communication is based on the WebDAV protocol according to RFC 2518, data archiving does not make use of all WebDAV features. Therefore, to be certified a WebDAV server implementation must only meet a subset of the RFC 2518 requirements. To give an example, the storage system interface must support a specific character subset, which is required to form the segments of the URIs, the "Uniform Resource Identifiers" used for addressing the WebDAV resources and collections. If this criterion is not met, the certification will fail. In addition to the WebDAV-specific features, there are also certain basic features of the underlying HTTP protocol that the storage system must support to pass the certification.

## Test Procedure

Certification tests are performed by means of the XML Data Archiving Certification Suite, a client (browser based) application developed by members of the data archiving core team. It is based on a test plan in which the developers describe the system configuration (according to the "Configuration Guide for J2EE Applications") as well as the individual steps that must be performed to verify if a storage system complies with the data archiving requirements.

There are two major building blocks that make up the test procedure:

- Acceptance Test
- Load Test

In the **acceptance test**, also called functional or qualitative test, the certification candidate has to prove its ability to cope with a large variety of WebDAV functions required for the handling of resources, for example, Create, Put, Get, Pack and Unpack, Delete, and so on. These functions are performed automatically by the Certification Suite. The acceptance test is considered passed if every single function performed returns an "OK". In this case the summary message "Acceptance Test passed" is displayed.

To pass the **load test** the candidate must be able to process resource packages of three different sizes: one resource of 500MB, 10,000 resources of 100KB each, and 100,000 resources of 100KB each. The program calculates the processing times, which include XML DAS processing and the network overhead added by the WebDAV server connection, and displays them on the screen. Usually, they sum up to at least 5, 20, and 300 minutes, respectively.

The Certification Suite provides an additional set of functions that can be used for further testing. These functions, however, are not mandatory for the certification. In addition to the screen output, the test results are logged and can be accessed using the Log Viewer of the SAP J2EE Engine's Visual Administrator. The usual XML DAS log and trace records may also be helpful for resolving problems that arise during testing.

## Interface Certificates

The certificates are issued by the SAP Integration and Certification Center (ICC), see quick links <http://service.sap.com/icc> and <http://www.sdn.sap.com/sdn/icc.sdn>. The certified functions are "WebDAV for Data Archiving, Server functionality" and "Data Archiving LOAD Test performed". The certificates contain the exact results from each test step performed.

With the new WebDAV certification for XML data archiving, which together with the other certification modules mentioned above completes the suite of data archiving relevant certifications, vendors now have the opportunity to pass a clear message to the customers letting them know that their products are fully "data archiving enabled". Given the increased importance of data archiving for legal compliance issues, we expect the number of vendors taking the test to increase in the near future.

The Data Archiving Certification enables our hardware partners to further increase their technological commitment in the area of data archiving. As a result, our customers will benefit through improved storage and data management solutions.

## Information Sources

### Request assistance

For EMEA: [icc@sap.com](mailto:icc@sap.com)  
For Americas: [icc-americas@sap.com](mailto:icc-americas@sap.com)  
For APA: [icc-apa@sap.com](mailto:icc-apa@sap.com)

### Integration Services:

Apply for services online <http://www.sap.com/partners/apply>  
Please select "Interface Certification" as application type

SAP Integration & Certification Center <https://www.sdn.sap.com/sdn/icc.sdn>

### General Development Tools

SAP Interface Repository <http://ifr.sap.com>  
SAP Developer Network <http://sdn.sap.com>  
SAP Help Portal <http://help.sap.com>

### Partner Services

SAP Partner & Product Directory <http://www.sap.com/softwarepartnerdir>  
SAP Service Marketplace <http://service.sap.com/partnerportal> (user-ID after certification)

### SAP Solutions

SAP NetWeaver <http://www.sap.com/netweaver>