

Workshare Compare Server 9.6

Admin Guide

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Chapter 1: Product Overview

This chapter provides an overview of Workshare Compare Server as well as a list of system requirements. It includes the following sections:

- What is Workshare Compare Server?, page 4, introduces Compare Server and its key functionality.
- **System Requirements**, page 5, describes the system attributes required to run Compare Server.

What is Workshare Compare Server?

Workshare Compare Server is a web service that performs server-side document comparison and exposes APIs (Application Programming Interfaces) to allow a range of client applications to exploit this functionality. The APIs enable software developers to write custom software that compares two Microsoft Word, RTF, PDF, TXT or HTML documents and produces a redline document that describes the differences between the two documents. Compare Server is installed on a server.

Compare Server exposes simple APIs that allow for integration into a range of client applications and server-based solutions. For example, it can be used by custom solutions that run on your internet site, intranet site, internal network or your email system. Clients can be developed in Java, C#, C++, VB.NET and other languages to integrate Compare Server into your desktop, DMS or document applications.

What to expect with PDF comparison

Compare Server provides fast and accurate comparison of Word and PDF files. However, the comparison of PDF files may not be as accurate as the comparison of Word documents for the following reasons:

- In order to display a PDF comparison as a redline, Compare Server converts PDF documents back into Word documents, then applies traditional document comparison (Word to Word) to the resulting documents. Converting a PDF into a Word document is an imprecise process because there is not enough information available (in the PDF file) to pin down a unique Word document that is the one and only possible output for that particular PDF file.
- Scanned PDFs add another layer of complexity because in order to compare the
 text, Compare Server must first perform OCR on the file. The quality of the scan
 can have a big impact on the comparison results. The OCR engine used can also
 impact the resulting output and therefore accuracy of the comparison. No OCR
 engine will ever be 100% perfect with every scanned PDF particularly low quality
 scans.

System Requirements

Workshare Compare Server is designed to run on both entry level and enterprise scale servers. Recommended specifications are given below.

Hardware

CPU 64-bit architecture-based computer with Intel or AMD processor with 4 cores

Memory 4GB RAM – more memory may be needed if you intend multiple users to

regularly compare long and complex documents

Storage 1GB free disk space for installation; additional space required for storage of

DVJS comparisons and queued comparisons

Supported operating systems

Microsoft Windows Server 2016 x64 Edition

Note: Compare Server can be installed on Microsoft Windows 10 for demonstration and evaluation purposes only.

It is strongly recommended that you install Compare Server on a dedicated server instance.

Chapter 2: Deploying Workshare Compare Server

This chapter describes the installation procedure for Workshare Compare Server. It includes the following sections:

- Prerequisites, page 7, describes the software required before installation of Compare Server.
- **Installation**, page 8, describes the step-by-step procedure required to install Compare Server.
- **Uninstalling**, page 16, provides important information about uninstalling Compare Server.

Prerequisites

Workshare Compare Server is installed using a single installation file. It will automatically install the following required software (if not found) as part of the installation process.

- Microsoft .NET Framework 4.6.2
- Microsoft Visual C++ 2015 Redistributable Package (x64 and x86)
- Microsoft IIS (Internet Information Services)
- Windows Server Components: The install enables the following features:

Feature internal name	Feature display name	
IIS-ASPNET45	ASP.NET 4.7	
WCF-HTTP-Activation	Windows Communication Foundation HTTP Activation	
WCF-Pipe-Activation45	WCF Named Pipe Activation	
WCF-TCP-Activation45	WCF TCP Activation	
WCF-HTTP-Activation45	n45 WCF HTTP Activation	
WAS-WindowsActivationService	nService Windows Process Activation Service	
WAS-ConfigurationAPI WAS Configuration APIs		
WAS-ProcessModel WAS Process Model		
IIS-BasicAuthentication	on IIS Basic Authentication	
IIS-CustomLogging IIS Custom Logging		
IIS-HttpCompressionDynamic		
IIS-HealthAndDiagnostics	IIS Health and Diagnostics	
IIS-RequestFiltering	IIS Request Filtering	
IIS-HttpTracing	racing IIS Tracing	

Note: The install requires these features **and their dependencies** to be installed, so for instance IIS_ASPNET45 will cause many other IIS features to be installed as dependencies.

Installation

Workshare Compare Server is provided as a standard installation file, with an additional company-specific file for licensing purposes:

Workshare.CompareServer Install-[build #].exe	The executable file used to install Compare Server.
Product.lic	The license file that contains the Compare Server license.

Note: Both installation files (the EXE and the LIC file) must be on a local drive of the server machine and not on a mapped network drive or UNC path.

The RESTful APIs are now independent and can talk to Compare Server directly.

During install or uninstall of Compare Server, information and error entries are written to log files. These plain text files are saved in the current user's temporary folder (for example, C:\Documents and Settings\Admin\Local Settings\Temp).

The following procedure explains how to install Compare Server on your server using the executable installer. Before beginning the installation procedure, make sure that all other programs are closed and disable any anti-virus software.

To install Compare Server:

1. Double-click the **Workshare.CompareServerInstall-9.6.XXX.exe** file. The Workshare Compare Server Installation Wizard is displayed.



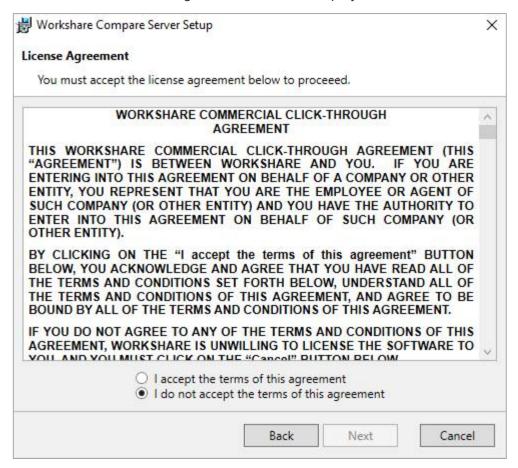
Note: If you are installing Compare Server on Windows 10, you will see a warning.

WARNING:

Microsoft Windows 10 Pro is not supported for production use. Windows Server 2016 is recommended.

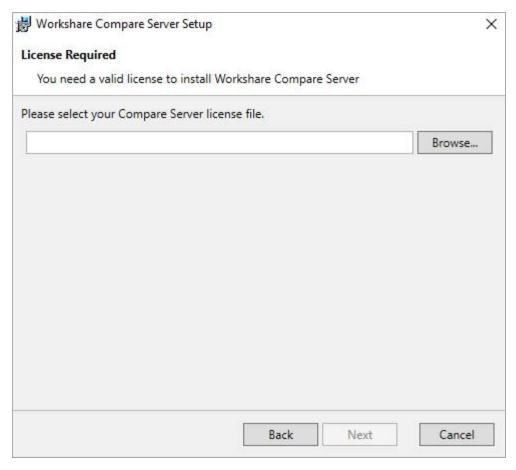
Compare Server should only be installed on Windows 10 for demonstration and evaluation purposes.

2. Click Next. The License Agreement screen is displayed.



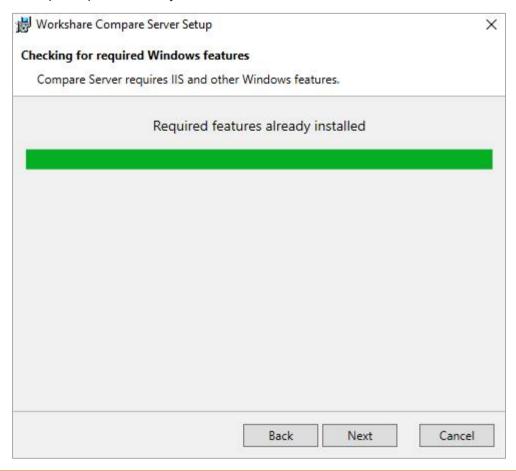
3. Read the agreement and select the **I accept the terms of this agreement** radio button.

4. Click Next.



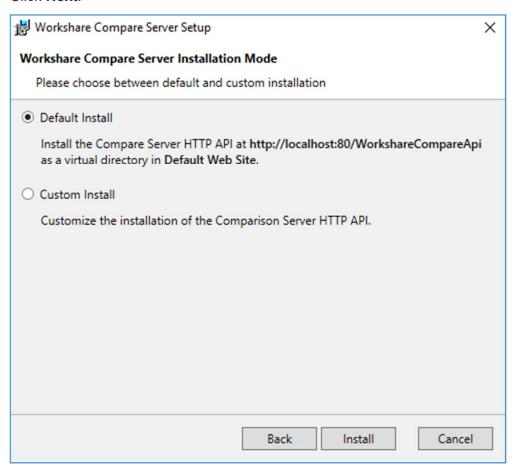
5. Workshare will automatically detect your license file if it is in the same location as the installation file. If necessary, browse to the location of your license (.lic) file. This location MUST be on the local machine.

6. Click **Next**. Workshare checks you have the required Windows components and other prerequisites. If any are not found, Workshare will install them.

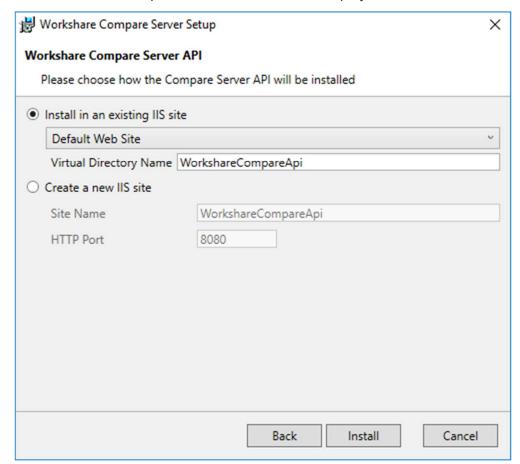


Note: If the installer cannot install the required components, it will display an error showing the command it tried to run. You can troubleshoot by reinserting your Windows Server installation media and rerunning the installer, or by running the command manually.

7. Click Next.



- 8. Continue in one of the following ways:
 - Leave **Default Install** selected and click **Install**. Workshare Compare Server is installed as a web service with RESTful APIs. Go to step 11.
 - If you want to customize the installation of the RESTful APIs, select Custom Install and click Install.

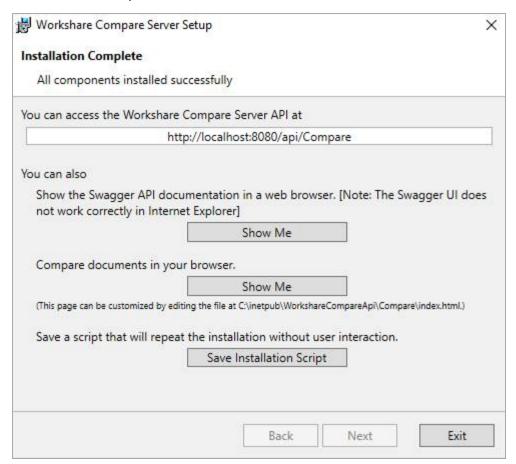


The Workshare Compare Server API screen is displayed.

9. Select an existing IIS site or create a new IIS site for the installation of the RESTful APIs.

Note: If you choose a site name that is already in use, you won't be able to proceed unless the site name is being used for a previous installation of Compare Server that you are upgrading.





- 11. Once installation is complete, the confirmation dialog provides useful information about your install:
 - The URL for the API is provided.
 - You can display the Swagger API documentation in your browser. You can also try a test comparison from there. Refer to *Verifying installation*.

Note: If you are using the Microsoft Internet Explorer browser, the Swagger API documentation may not display correctly.

- You can run a comparison in your browser.
- Click Save Installation Script if you want to save your installation settings for further Compare Server installs.

12. Click Exit.

Verifying installation

To verify your installation, run a test comparison as follows:

- Click Show Me in the final page of the Installation Wizard to display the Swagger API documentation.
- Click Expand Operations to show the options to perform comparisons via GET and POST.
- 3. Expand **Compare** (to test a classic comparison) or **UlCompare** (to test a DVJS comparison).
- 4. Click **GET** and click the **Try It Out** button.
- 5. Scroll down and click Execute.

If the configuration is correct and Compare Server is running, you should see the response to the request appear after a few seconds (look for a 200 code to indicate that the comparison completed successfully).

Additionally, once installation is complete, you can verify the installation as follows:

 When installed as a website hosted within IIS, go to IIS Manager, expand the Sites node and verify the Compare Server web service is there. By default, it will appear as a virtual directory called **WorkshareCompareApi** in the Default Web Site. The files will be located at c:\inetpub\WorkshareCompareApi.

Uninstalling

To upgrade from previous versions of Workshare Compare Server, you will need to uninstall the previous version. The installer of Compare Server 9.6 will detect earlier versions of Compare Server and stop the installation. It's necessary to manually uninstall previous versions of Compare Server before installing Compare Server 9.6.

You can uninstall previous versions from Add/Remove Programs or by rerunning the original installer.

When uninstalling Compare Server, some files, such as log files and configuration files, may not be removed from the machine even after completely uninstalling the product. If you want these files removed, you must do so manually.

Chapter 3: Configuration

This chapter outlines the various configuration changes that can be applied to Workshare Compare Server. Compare Server is a highly customizable tool and it is not the purpose of this chapter to describe the full potential of the APIs. However, this chapter does describe how to configure the Workshare-specific functionality. It includes the following sections:

 Configuration for RESTful APIs, page 18, describes how to configure the RESTful APIs.

Configuration for RESTful APIs

The Compare Server RESTful APIs are configured via a configuration file located by default at **c:\inetpub\WorkshareCompareApi\web.config**.

After making changes to the web.config file, you must restart the Compare Server website in IIS.

Licensing

By default, the license file is saved in the c:\inetpub\WorkshareCompareApi\bin folder.

The license file must be specified in the **LicenseFileName** setting in the web.config file. If you move or rename the license file, then the web.config setting must be updated accordingly.

When updating a license, if you replace the old license file with the new license file, there is no need to update the web.config file.

Change the target of the root URL

By default, the root page of the server displays the API documentation. Depending on the intended use of Compare Server, you may want to adjust the configuration so that the root page of the server redirects to the comparison document selection page.

To change the target of the root URL, change the **HomeUrl** setting in the web.config file from **swagger** to **Compare**.

Queuing

Comparisons can be run in an asynchronous queued manner on Compare Server. This approach is useful if you perform large numbers of comparisons and it is acceptable if the results are not returned immediately. For example, where comparisons are being performed by a background task in another system.

Set up queuing

Use of the queuing system in a production environment requires an SQL server database to be configured to store information on queued jobs. The connection string to contact the database must be stored in the **QueueDB** connection string in the web.config file and the **QueueStorage** setting must be changed from **memory** to **sql**. If these changes are not made, the comparison queue will be stored in an in-memory database and will be lost if the server, IIS or the application pool running the compare service is restarted.

Status information on the queuing system can be found by browsing to Compare Server's health check API endpoint – http://server.name/path_to_root/api/healthcheck.

Further details about the queue can be found at the queue status endpoint (http://localhost/path_to_root/queue). This endpoint can only be accessed from the server itself.

Queuing process

The queuing mode of Compare Server works as follows:

- A client sends a request to start a comparison.
- The server responds immediately with a URL which the client can use to request the status of the comparison.
- The requested comparison is placed in a queue and runs when it reaches the head of the queue.
- The client can poll repeatedly to find the status of the comparison.
- Once the comparison is complete, the polling result will be a redirect response (HTTP response status code 302 Found) giving the URL from which the comparison result can be downloaded.

The result of the queued comparison must be stored until the client downloads it and the source documents must be stored until the comparison reaches the top of the queue. Therefore, use of the queuing system involves both documents to be compared and comparison results being stored on the disk of the Compare Server machine. Refer to DVJS comparison for storage location details and ways to customize it.

Comparison source documents are deleted from storage when the comparison itself is completed. Comparison results are deleted when the first of the following criteria is met:

- One hour after the comparison is completed
- Fifteen minutes after the first attempt to download the result of the comparison is initiated

These retention times are fixed and cannot be configured.

Note: The deletion process is managed by the queuing system, so if an SQL database has not been configured to store queue entries and the service restarts then some files may not be properly deleted.

Maximum concurrent comparisons

Depending on the workload expected of Compare Server, it may be useful to set limits on the maximum number of comparisons that the server will attempt to run concurrently. By default, the maximum number of concurrent comparisons is processor count (number of logical processors on CPU) times two.

You can set this to a lower number by entering a value for the **MaxConcurrentComparisons** setting in the web.config file.

Note: You can enter a number as the value or in the format "CPUCount*1.5".

The behavior of the server if the concurrency limit is reached can also be configured by adjusting the **RejectIfTooBusy** setting. When this is set to **false**, the server will accept new comparison requests if the limit is reached and wait until comparisons already in progress have finished before attempting to fulfill them. When set to **true**, the server will respond with HTTP response status code **503 Too Busy** to any requests that are received while the maximum concurrency limit is reached.

Additionally, if **RejectIfTooBusy** is set to **true** and **BusyRejectDelaySeconds** has a value, then the server will wait for this amount of time before responding with HTTP response status code **503 Too Busy**. This delay provides an opportunity for a comparison in progress to finish and for the new comparison request to proceed. The default value for this setting is **1**.

Reject duplicate requests

To prevent excess load caused by users inadvertently clicking the compare button repeatedly, Compare Server can reject duplicate requests.

The behavior of the server is configured by adjusting the **RejectDuplicateRequest** setting in the web.config file. By default, this is set to **false**. When set to **true**, the server will respond with HTTP response status code **503 Too Busy** to any requests for the same comparison by the same user. The server determines that a request is a duplicate if the documents, the rendering set, the result format and the IP address of the user are all the same as a request currently being processed.

When queuing is in place, the duplicate request will only be determined a duplicate once it moves from the queue to be processed.

Note The reject duplicate request functionality may also help mitigate against a denial of service attack.

DVJS comparison

Compare Server includes functionality to allow comparisons to be viewed in the browser. This technology is called DVJS (DeltaView JavaScript).

The DVJS functionality is enabled by default but may be disabled using the **enableDVJS** setting in the web.config file. If you don't require this functionality with Compare Server, set **enableDVJS** to false.

Note: The result of a comparison performed using DVJS is a URL which can be navigated to in any modern web browser to show the results of the comparison. The URL contains a securely generated 192-bit comparison ID, which means that it is effectively impossible to guess the URL to see another user's comparison. However, sharing the results URL will allow any user who receives the URL to see the result of the comparison in their browser.

Where to store results

Classic comparison requests return the comparison result directly to the caller and do not store the results on the Compare Server machine. However, DVJS comparisons require the results of the comparison to be stored on the server to allow them to be viewed in the browser. By default, these files are stored in a cache folder located at:

C:\inetpub\WorkshareCompareApi\App_Data\cache

The location used to store these files can be customized by changing the **comparisonStorageConnectionString** setting in the web.config file. This setting should include the full path of the folder (or network share) to be used to store comparison results and associated resources, including queued comparisons.

Note: Changing this path will invalidate any recently run DVJS comparisons and any queued comparisons (see Queuing).

How long to store results

Workshare Compare server automatically deletes the comparison results of DVJS comparisons at a fixed time after they were created. This time interval may be adjusted by altering the **comparisonRetentionTime** setting in the web.config file. This setting indicates the number of hours after which the comparisons are to be deleted from the server's storage. The minimum valid value for this setting is 1 hour (lower values will be treated as 1 hour).

Note: The cleanup runs on an intermittent basis (once every 15 minutes), so deletion may not occur immediately upon termination of the storage period for a particular comparison.

Once a comparison result has been deleted, any user who is viewing the comparison will see errors if they try to refresh the browser page or perform actions such as:

- Saving the comparison result in any format
- Swapping the documents used in the comparison

Encrypting result files

By default, the comparison result files for DVJS comparisons as well as asynchronous queued comparisons are stored unencrypted on disk. Since the comparison IDs used to identify completed comparisons are cryptographically secure random strings with 192 bits of entropy, this does not pose a risk of one user accessing another user's comparison via the web site since the number of possible comparison IDs is so vast that the chance of quessing one correctly is effectively zero.

However, a user with desktop access to the Compare Server machine would be in a position to browse to the folder containing the results of completed comparisons and open or copy those comparison result files. If this risk is considered significant, you can enable encryption of the stored comparison result files by providing a value for the **comparisonEncryptionSalt** setting in the web.config file.

Note: Changing the EncryptionSalt setting will invalidate any recently run DVJS comparisons and any queued comparisons (see Queuing).

If the **comparisonEncryptionSalt** setting is not blank, its value (along with the comparison ID) is used to generate an encryption key for each comparison performed. This encryption key is then used to encrypt the comparison results when stored to disk. Compare Server will automatically decrypt the results when the comparison is requested by a user's browser to show the correct results to the user.

Note: In theory, a highly skilled attacker who has access to the Compare Server machine may be able to discover the algorithm used to derive the comparison encryption key from the ID and the **comparisonEncryptionSalt** setting. They could then recover the encryption keys for stored comparisons and decrypt their contents. Enabling this feature should therefore be considered as part of a well-designed 'defence in depth' strategy rather than a silver bullet to absolute security.

Limits on redline size

If the comparison is more than 500 pages, the user will be offered links to download the comparison rather than viewing it in the browser. This page limit may be adjusted by altering the **dvjsComparisonPageLimit** setting in the web.config file.

Working out the number of pages in a very large document for the above check can be slow, so a quicker test is to look at the word count first. If that is clearly very high, then there is no need to spend time counting pages. Business documents tend to have 200-300 words per page. Denser text like novels 300-400. There is a default of 500 words per page to give a first estimate of page count. If the estimate exceeds this limit, then the document can be rejected quickly as too large without server CPU load. This words per page number can be adjusted by altering the **dvjsWordsPerPageEstimate** setting in the web.config file.

Chapter 4: Monitoring

This chapter describes logging and load balancing as well as the metrics available on Workshare Compare Server.

- Logging, page 24, describes the built-in logging in Compare Server.
- **Load Balancer Support**, page 25, describes how to integrate a load balancer with Compare Server.
- **Metrics**, page 25, introduces the metrics exposed by Compare Server, explains how to enable them and describes the details of the metrics exposed.

Logging

RESTful API log files

With a default install, the API log files are as follows:

Location	Purpose
C:\inetpub\logs\LogFiles\W3SVC1	Includes all requests coming into the REST endpoint
C:\inetpub\WorkshareCompareApi\App_Data\logs	Includes some requests and all errors

Each request has a correlation ID which can be used to track the line by line progress of the request in the log files.

Configuring logging

By default, Workshare does **not** log information about the user that sent the comparison request or the name of the files sent. If you want to enable recording of this data, you can do so in the config file.

Find the text <add key="logSensitiveData" value ="false"/> in web.config.

Change the value to true.

When this option is set to true, the file names of files sent for comparison or the URL of where the files are (in the case of a GET request) will be logged along with the IP address of the machine that sent the request.

Analytics

By default, Workshare gathers anonymous usage statistics and environment information used towards product evolvement and improvement. If you want to disable this customer experience reporting, you can do so in the relevant config file.

Find the text <add key="EnableCustomerExperienceReporting" value
="true"/> in web.config.

Change the value to false.

Load Balancer Support

You can install two or more Compare Servers and configure them for load balancing. You can configure the load balancer to query Compare Server to find out if it is available for work. Compare Server availability can be found by browsing to Compare Server's availability API endpoint – http://server.name/path_to_root/api/available. This endpoint will return 200 if there are comparison workers available and 503 if there are no comparison workers available.

Metrics

Introducing metrics

Workshare Compare Server includes a metrics endpoint to support integration with Prometheus. Prometheus is open source software used to record real time metrics. Compare Server exposes metrics in a text-based format that Prometheus polls and stores enabling the data to be presented in graphs and charts.

The metrics provide information about the activity of Compare Server such as the total number of comparisons performed, the number of comparisons currently in progress, the number of comparisons in a queue. This enables you to keep eye on Compare Server, monitor the load and identify potential problems.

Enabling metrics

By default, this functionality is disabled and Compare Server doesn't publish metrics. You enable it in web.config.

Metrics can be retrieved by browsing to Compare Server's metrics API endpoint – http://server.name/path_to_root/api/metrics.

Typically, you can run a Prometheus server which will poll this API endpoint, retrieve and store the data. You can then use the data to configure alerts and graph trends.

To enable metrics:

- Find the text <add key="EnableMetrics" value ="false"/> in web.config.
- 2. Change the value to true.
- 3. Restart the Compare Server website in IIS.

Note: Restarting Compare Server will reset the counters. IIS may restart idle websites in the background to conserve resources. This would have the effect of resetting the metrics counters.

Once enabled, Compare Server starts publishing metrics and Prometheus can poll the endpoint to retrieve them.

Metrics published

Metrics are published in a text-based format. For example:

```
cs comparisons
    PE cs comparisons a
   _comparisons_active{ins mber of comparisons currently active
# HELP cs pdfconversions t(M1-PD-2062") 0
# TYPE cs_pdfconversions_to el number of PDF conversions
cs_pdfconversions_total{ins*[LN1-PD-2062",end_state="success"} 2
# HELP cs_comparisons_total number of comparisons
FLP cs_pdfconversion instance_name="LN1-PD-2062"} 7
The number of PDF conversions currently active
   # TYPE CS pdfconversive gauge
   cs_pdfconver___: ___ve(instance_name="LN1-PD-2062") 0
   # HELP cs_comparisonworkers_available The number of comparison workers available
   # TYPE cs_comparisonworkers_available gauge
   cs_comparisonworkers_available{instance_name="LN1-PD-2062"} 16
   # HELP cs_comparisons_queued The number of comparisons currently enqueued
   # TYPE cs_comparisons_queued gauge
```

The metrics include the total number of comparisons run through Compare Server, the total number of PDF comparisons, the number of currently active comparisons, and more. The metrics are reset whenever Compare Server is restarted.

Format of metrics

The format of the string is:

```
[metric name]{[key]="[value]",[key]="[value]"} [metric value]
```

Where

- Metric name: The name of the property being measured.
- Metric label: A key value pair where key is the variable name and value is the value of the variable.
- Value: The measure of this metric.

For example:

cs_comparisons_total{instance_name="examplename1",end_state="success"} 7

Metric label

The following key value pairs may be used in the metrics:

instance_name

The name of the machine the comparison's running on. This is the hostname unless running on Azure App Svc in which case it will be the instance environment variable - WEBSITE_INSTANCE_ID. This is the id representing the VM that the site is running on. If the site runs on multiple instances, each instance will have a different id.

end_state

"success" when the operation completes successfully or "failure" when it doesn't.

Types of metrics

The metrics are one of two types:

- Counter: A cumulative metric whose value can only increase or be reset to zero on restart.
- Gauge: A metric whose value can go up and down.

Details of metrics

The different metrics exposed are described below:

cs_comparisons_total

Description	The total number of comparisons performed on this Compare Server since the last restart.
Туре	Counter
Metric label	instance_name end_state
Example	cs_comparisons_total{instance_name="examplename1", end_state="success"} 7 cs_comparisons_total{instance_name="examplename1", end_state="failure"} 1

cs_pdfconversions_total

Description	The total number of PDF conversions performed on this Compare Server since the last restart. A PDF is converted to RTF before being compared.
Туре	Counter
Metric label	instance_name end_state
Example	cs_pdfconversions_total{instance_name="examplename1", end_state="success"} 25 cs_pdfconversions_total{instance_name="examplename1", end_state="failure"} 2

cs_comparisons_active

Description	The number of comparisons currently active.	
Туре	Gauge	
Metric label	instance_name	
Example	cs_comparisons_active{instance_name="examplename1", 1	

cs_pdfconversions_active

Description	The number of PDF conversions currently active. A PDF is converted to RTF before being compared.
Туре	Gauge
Metric label	instance_name
Example	cs_pdfconversions_active{instance_name="examplename1", 1

cs_comparisons_queued

Description	The number of comparisons waiting in a queue to be compared.
Туре	Gauge
Metric label	instance_name
Example	cs_comparisons_queued{instance_name="examplename1", 4

cs_workers_available

Description	The number of workers available to run comparisons.
Туре	Gauge
Metric label	instance_name
Example	cs_workers_available{instance_name="examplename1", 8

cs_pdfconversionworkers_available

Description	The number of workers available to convert PDFs to RTF. A PDF is converted to RTF before being compared
Туре	Gauge
Metric label	instance_name
Examples	cs_pdfconversionworkers_available{instance_name= "examplename1", 5

Chapter 5: Troubleshooting

This chapter describes how to troubleshoot Workshare Compare Server. It includes the following sections:

• **General Checks**, page 31, describes some general checks to perform when troubleshooting Compare Server.

General Checks

This section describes some basic checks to carry out in some general situations.

Installer fails

- Ensure any previous Workshare Compare Server installs are uninstalled.
- Is IIS started?
- Check the install logs in the current user's Temp folder, for example, C:\Documents and Settings\Administrator\Local Settings\Temp.

Swagger troubleshooting

If you are unable to access Swagger:

- Ensure that Javascript is enabled in your web browser.
- Use Chrome, or Firefox.
- Do not use Internet Explorer.

PDF Comparison

If you see display problems after comparing PDF files, you can try setting on the **Single Column Conversion** rendering set parameter.

PDF files are converted before comparison and sometimes columns are detected when there are none so that text ends up displayed vertically in columns. If the **Single Column Conversion** rendering set parameter is set (by default, it is off), columns are not detected in PDF source documents. This prevents potential inaccuracies. With this parameter set, if text looks like columns, an alternate approach is used to lay it out (such as a table or tabs).

Log file locations for RESTful APIs

The IIS logs at C:\inetpub\logs\logfiles\W3SVC1 contain a basic record of all requests to the compare service.

The C:\inetpub\WorkshareCompareApi\App_Data\logs folder may contain the following files:

- Workshare.CompareApi.log: This is the main log file recording any information or errors in the Compare Server API module.
- Compare_service_engineworker.log. This includes logging from the actual comparison subsystem.

- Compare_service_audit.log. This records basic auditing information about each comparison performed.
- Compare_service_pdftoword.log. This includes logging from the conversion of PDF source documents to Word format for comparison.
- Compare_service_system.log. This inlcudes subsidiary logging from the modules supporting the API.

The most recent copy of each log file will have the ".log" extension. Older log files will have a date appended to the file extension.

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