

**Borland®**

**Silk Performer 16.0**

SOA Edition  
Release Notes

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# Silk Performer 16.0 Release Notes

These release notes contain information that might not appear in the Help. Read them in their entirety before you install the product.



**Note:** This document contains a number of links to external web sites. Micro Focus cannot be responsible for the contents of the website or for the contents of any site to which it might link. Web sites by their nature can change very rapidly and although we try to keep our links up-to-date, we cannot guarantee that they will always work as expected.

# System Requirements

The following tables identify the system requirements for installing and running Silk Performer. For details about Silk Performer performance and scalability, see the *Performance and Scalability Matrix*.

## Hardware Requirements

To run the Silk Performer agent software, or both controller and agent software, and to use the full potential of Silk Performer to run large-scale load tests, your system must meet the following minimum requirements:

System Area	Requirement
Processor	Pentium IV or equivalent CPU
RAM	1 GB recommended minimum
Hard disk space	1 GB for controller software installation. 450 MB for agent-only installation.  Depending on the size of your load tests, make sure you have enough space on your hard disk for result files.
Network	Network connectivity to the system under test and to all Silk Performer Agent computers.

## Operating System Requirements

- A Silk Performer Controller installation requires Windows Vista or newer.
- A Silk Performer Agent installation requires Windows 2003 or newer. The settings *Latency* and *Packet drop* (used to configure network emulations) are not supported for Windows 2003 and Windows 2003 R2.
- Windows XP is not supported.

## Software Requirements

To install and run Silk Performer, your system requires a minimum set of software components:

The specific components that are required vary based on installation type. For example, to run Silk Performer Java Explorer, your system must be equipped with either of 32-bit Java Development Kit 1.4, 1.5, 1.6, 1.7. Download components from the respective websites.

- Internet Explorer 7, 8, 9, 10, 11 for browser-driven load testing
- PDF viewer to view documentation
- Citrix XenApp Client 12.x or Citrix Receiver for Microsoft Windows 3.x, 4.x to test Citrix applications
- 32-bit Java Development Kit 1.4, 1.5, 1.6, 1.7 to test Java applications with Java Explorer

# Installation

For information about installation, deployment, and licensing issues, refer to the [Silk Performer Installation Help](#).

# What's New in Silk Performer 16.0

Silk Performer 16.0 introduces significant enhancements and changes.

## CloudBurst Enhancements

### CloudBurst ERP support

Silk Performer CloudBurst now supports the execution of SAPGUI, OracleForms and Citrix load tests through the built-in CloudBurst VPN.

### Copy details from Cloud Agent Manager

In the **Cloud Agent Manager**, you can now copy details from cloud agents and IP addresses to the clipboard and paste them to a text editor or spreadsheet program. Select one or more agent or IP address lines, right-click one of the items, and click **Copy Details**. Alternatively, you can use the keyboard shortcut **Ctrl+C**. If you paste the details in Microsoft Excel, the data automatically displays in a table.

### Download results from agents in Cloud Agent Manager

The **Cloud Agent Manager** now allows you to download the results of failed load tests from an agent. Right-click an agent, and click **Retrieve Results** to open a dialog, which contains a list of all the results. Specify a target folder and download the results to your machine.

## Performance Explorer Enhancements

### Introducing the Ribbon in Performance Explorer

Performance Explorer 16.0 provides a completely redesigned main user interface using the Ribbon component. The Ribbon is a rectangular area on top of Performance Explorer and is composed of several permanent and contextual tabs. The *Tour of the UI* provides more information.

### Resample load tests and TSD files

You can now resample both a single .tsd file and a load test, that is, all .tsd files of the specified load test. This way, you can change the interval and the timeframe of charts and reports in Performance Explorer.

### Standard deviation area in charts

In Performance Explorer charts, it is now possible to show the standard deviation of a specified measure as a colored area around the related graph.

### VUser-based charts

A usual Performance Explorer chart displays the measured values on the y-axis and the time on the x-axis. This kind of chart is called a time-based chart, and it is a common way to visualize performance development over time. Now it is possible to plot the number of virtual users on the x-axis of a chart. These charts are called virtual user-based charts. They display the average of all values measured at times with a particular number of concurrent virtual users.

### Overall aggregation node in tree

The tree in Performance Explorer 16.0 contains a new aggregation node with the name *Overall*. This new generic node is displayed on the same tree level as the other aggregation nodes like *Agents*, *User Types*, or *Regions* and helps to tidy up the measures in the tree.

### Complete refactoring of Performance Explorer Help

The comprehensive Performance Explorer section of the Silk Performer Help has been completely refactored and updated. The Help outlines both the conventional feature set as well as all new features that have been introduced with Silk Performer 16.0. Additionally, it introduces you to the new user interface design, the Ribbon, and all Ribbon tabs.

## Monitoring Enhancements

### Linux system monitor via SSH

You can now monitor Linux operation systems with Performance Explorer by calling `vmstat` through a secure shell connection (SSH).

### Auto-enable monitoring writers

Performance Explorer now automatically stores performance data when a load test is executed. To enable the automatic recording of performance data, open the **Data Source Wizard**, select the measures that are to be monitored, and check the **Store data of selected measures** checkbox. When you start a load test, make sure to check **Automatically start monitoring** in the **Workload Configuration** dialog.

## Network Emulation for Web Protocol-Level Projects

With Silk Performer 16.0, it is now possible to specify network parameters to simulate a variety of wired, wireless, and mobile network technologies. These parameters include bandwidth limitation, packet drop rate, and latency, and you can configure these values through a convenient user interface for each settings profile.

Silk Performer provides some reasonable presets for network emulation, which you can use as a starting point for your own settings. Of course you can adjust all settings according to your very own needs and therefore configure and simulate specific network settings.

## Web Protocol-Level Enhancements

### Recording 64-bit applications

With Silk Performer 16.0, you can now also record 64-bit applications. There is no need for you to change or tweak any settings - 64-bit recording works out-of-the-box.

### Recording HSTS websites

Silk Performer now supports recording websites that use the HTTP Strict Transport Security (HSTS) policy mechanism. When using HSTS, web servers force clients (web browsers) to use HTTPS connections. The clients can then validate the domain name of the web server against its server certificate, which helps to protect applications against connection hijacking attacks.

### Offline scripting for all web-based project types

The offline scripting approach in Silk Performer works in two separate steps: In the first step, the entire traffic generated during a recording session is captured by the Silk Performer Recorder. In the second step, the captured data is used to generate a script, while considering scripting settings and recording rules. This offline scripting approach is now available for all web-based project types.

### Auto-detection of compressed requests

Silk Performer 16.0 fully supports detection of requests with compressed content during recording. Using the newly introduced API function `WebSetEncoding`, the web engine compresses such requests automatically during replay.

### Clean scripts when recording file uploads

In the past, file uploads used to generate long scripts, which included the entire uploaded data stream. With the automatic detection of file uploads on protocol-level, the Silk Performer Recorder now generates data files that contain the uploaded data, and adds a reference to the script. Thus, the scripts remain clean and readable.

### Standardhost variable in WebCookieSet

When you define a standardhost in the **Profile** settings, Silk Performer replaces the specified standardhost (for example: `www.example.com`) with the keyword `standardhost` when creating a script. The standardhost will now also be replaced within the data part of the BDL function `WebCookieSet`.

### Smart rendering in TrueLog Explorer

TrueLog Explorer now offers a smart way of displaying request and response content, depending on the content type. Of course, you can also manually switch between the various view types, which include source, HTML, XML, JSON, binary, and others.

## Enhancements in other TechDomains

### Silk4J and Silk4NET timers in reports

Both Silk4J and Silk4NET offer an API to create custom timers. Similar to Silk Test Classic tests, the timing information is now available in Silk Performer reports. Additionally, status information is now visible in the Silk Performer Workbench output window, while the GUI-level tests execute.

### Improved recording for SAP Netweaver

Silk Performer 16.0 comes with updated recording rules for SAP Netweaver projects to comply with the latest SAP versions. With these revised rules in place, scripts are fully session-customized and thus run out of the box. Additionally, related TrueLogs now contain readable page names.

### Verify size of downloaded files

With version 16.0, Silk Performer introduces the BDL function `BrowserDlgVerifyDownloadSize`. This new function for browser-driven load tests allows you to easily verify the size of downloaded files.

## Usability Enhancements

Usability enhancements have been implemented throughout Silk Performer:

### **Compressing data files for deployment**

Silk Performer can automatically compress data files before they are deployed to agents. You can specify data compression separately for LAN/WAN agents and for cloud agents. To enable data compression, open the **System Settings**, click **Workbench**, click the **Control** tab, and check **Compress data files for LAN/WAN agents** and **Compress data files for cloud agents**.

### **Default severity parameter for verification functions**

In Silk Performer 16.0, all BDL verification functions have the expected default value for the severity parameter, rather than reporting `SEVERITY_SUCCESS`.

### **Structuring TrueLogs with sections**

You can now add sections during recording by clicking **Insert TrueLog Section** in the Silk Performer Recorder. This helps to improve the structure of your TrueLog files. The sections you insert during recording will appear as nodes in the tree within TrueLog Explorer.

### **Enabling all user types at once**

In the **Workload Configuration** dialog, you can now enable and disable all user types at once. This little usability improvement can be very helpful if you work with a lot of user types and if you enable and disable them often. You can find the new check box on the top left of the user type grid on the **Workload Configuration** dialog.

### **Web technologies: Consistent terminology in UI and documentation**

For Silk Performer 16.0, the following web technology terms have been standardized throughout the user interface and the documentation: The term *Browser-Level Function* is renamed to *Low-level web function*, and the term *Page-Based Browser-Level Function* is converted to *Page-level Web function*.

# Known Issues in Silk Performer

This list contains known issues in Silk Performer and provides work-arounds where available:

## General Silk Performer Issues

### How can I get Silk Performer "What's This" contextual Help to work on Windows Vista or later?

**Problem:**

How can I get Silk Performer "What's This" contextual Help to work on Windows Vista or later Windows versions?

**Resolution:**

In Silk Performer it is possible to get information about GUI functionality by right-clicking GUI controls and choosing **What's This?**. This contextual help does not work on Windows Vista or later Windows versions. This is a known issue related to the fact that the Windows Help program `winHlp32.exe` is no longer included with newer Windows versions. To resolve this, download the respective `.exe` file from the Microsoft Download Center. For more information, see: <http://support.microsoft.com/kb/917607>.

## TrueLog Explorer Issues

### On-access virus scanner software may cause TrueLog Explorer to crash

**Problem:**

On-access virus scanner software may cause TrueLog Explorer to crash.

**Resolution:**

Virus scanner software may cause a variety of problems including TrueLog Explorer crashes or performance degradation. We recommend disabling virus scanner software on the agent computers and on the controller computer for the duration of load tests.

### Visual script modifications fail if the related transaction is in an include file

**Problem:**

Visual script modifications fail if the related transaction is in an include file.

**Resolution:**

Do not move transactions to BDH files.

## Web Issues

### **Recording of browser traffic does not work when browser window is already open.**

**Problem**

Recording of browser traffic does not work when browser window is already open.

**Resolution**

Close all browser windows before recording a script.

# Resolved Issues

The following issues have been resolved in Silk Performer 16.0:

Issue #	Description	Notes
RPI 603195	If no client certificate is available on the system, the page is not loaded - neither during recording, nor during replay. If a client certificate is available on the system, a dialog appears during recording. No matter if you click OK or Cancel, recording works anyway. Replay fails, if Cancel was clicked.	
RPI 603249	TrueLog Explorer crashes when an API call is selected.	
RPI 603926	When an agent is removed from the workload and re-added with capital letters, an error occurs.	
RPI 604982	TrueLog Explorer crashes when viewing certain TrueLogs.	
RPI 605062	When writing out data returned by the function <code>WebUdpRecvFrom</code> using <code>writedata</code> , everything returned after the first terminating character is not correct.	
RPI 605742	The following help topics contain minor mistakes: <i>WebFileUpload</i> , <i>WebPageFielUpload</i> , <i>WebPageSubmitFileUpload</i> .	
RPI 606001	Copying content from the Errors tab of the Virtual User output window does not store the content to the clipboard.	
RPI 606485	It is not possible to select and copy text when the autoview mode shows the string in the out-data tab of TrueLog Explorer.	
RPI 606511	When using an underscore in the profile name or in the virtual user name, it is not possible to open the recent TryScript.	
RPI 607460	Selecting the Quick Launch option during installation of Silk Performer does not evoke an action in newer Windows versions. For example: In Windows 7, Silk Performer is not pinned to the taskbar.	
RPI 1096529	A BDLT request previously triggered for example by an <code>onClick()</code> handler is canceled by the JavaScript statement <code>javascript void(0);</code> in the href tag.	

Issue #	Description	Notes
RPI 607749	It is not possible to paste data from the clipboard into a complete row in the <b>Workload Configuration</b> dialog.	
RPI 608604	It is not possible to enter a port number with 5 digits in the Profile settings.	
RPI 1078355	When load testing a Citrix session, the following error displays: <code>An error occurred while trying to access the requested resource.</code>	
RPI 1081723	The functions <code>ToUTF8</code> or <code>ToEncoding</code> are not recorded, therefore replaying the script does not work as expected.	
RPI 1087002	The <code>perfBrowserApp</code> process crashes when a file save dialog is canceled.	
RPI 1088551	Routing HTTP .Net requests through the Silk Performer web engine does not work.	
RPI 1090581	When load testing a Citrix session, the resource error occurs.	
RPI 1090989	Recording or replaying Citrix scripts fails because UAC (user account control) is enabled.	
RPI 1092468	Very large .tsd files take a long time to open in Performance Explorer.	
RPI 1092757	The <code>standardhost</code> variable is not replaced in <code>WebCookieSet</code> calls.	
RPI 1093791	When both Silk Performer and Silk Test are installed on a machine and Silk Performer is uninstalled, TrueLog Explorer is uninstalled as well. Consequently, Silk Test cannot use TrueLog Explorer any longer.	
RPI 1094462	The Help topic <i>Excluding URLs from AJAX Synchronization</i> contains the wrong tab name in step 3. The correct tab name is <i>Synchronization</i> .	
RPI 1094675	When running a BDLT script, Silk Performer creates a folder within the temporary internet files directory for each virtual user. These folders are not removed after the test run.	
RPI 1094820	When trying to monitor Silk Performer controller measures in Performance Explorer, the controller data is not being monitored. Instead the resources used by the remote agent during the test is being monitored.	

Issue #	Description	Notes
RPI 1095016	Parsing an attribute value from TrueLog Explorer of an XML node which uses ToEncoding results in the incorrect specification of the opening and closing brackets within the function WebXmlParseNodeAttribute.	
RPI 1095148	When executing a script, the following error occurs: LoadtestController: 3317 - The virtual user's process terminated.	
RPI 1095270	Recording and replaying the upload of large files causes problems. The recorder and logging tend to run out of memory.	
RPI 1095289	Client-side measures stop collecting or displaying real-time data once a virtual user is stopped during a load test.	
RPI 1095371	When double-clicking an error file (.err), the file is opened in the Silk Performer SOA Workbench.	
RPI 1095419	When setting the text size in Windows to <b>Medium - 125%</b> , the <i>System Configuration Manager</i> does not scale as expected and some of the tabs disappear.	
RPI 1095431	When a load test is complete, the results on the agents are compressed and transferred to the controller. Invalid .zip files can cause errors, when the controller tries to uncompress the results within the result folder.	
RPI 1095461	When a test run is executed, the result files from a remote agent are compressed, transferred to the controller and uncompressed in the results folder. Invalid .zip files can cause the following error: Unable to uncompress agent files.	
RPI 1095475	In the <b>Workload Configuration</b> dialog of Silk Performer 15.5, pasting values from the clipboard into a cell is not possible. The cell must be set to an editable mode beforehand, to enable pasting from the clipboard. In previous Silk Performer versions, pasting from the clipboard was possible.	
RPI 1095477	When running a GUI-level load test in Silk Performer 15.0 with 3 or more virtual users, Silk Test Open Agent licenses are being checked out in addition to the Silk Performer licenses.	

Issue #	Description	Notes
RPI 1095498	Silk Performer NTLM authorization does not work correctly. Web requests are nearly doubled if NTLM authentication is used.	
RPI 1095501	When adding headers to the <b>Record additional HTTP headers</b> list in the <b>Profile</b> settings, the recorded script contains duplicates of those headers.	
RPI 1095508	HTTP digest authentication does not work with Silk Performer.	
RPI 1095588	Replaying a script that was recorded over a mobile device (Android) fails.	
RPI 1095806	When opening an m@. . . file in Performance Explorer 15.0 or newer, Performance Explorer crashes.	
RPI 1095821	Aborting or killing a load test does not remove the temporary Internet files after the test.	
RPI 1095899	Adding a standalone license during Silk Performer installation does not work as expected.	
RPI 1095937	Silk Performer crashes when using various project types (including protocol-based, BDLT, ODBC).	
RPI 1095991	Encoding a decoded base64 string truncates the original string.	
RPI 1096017	The PerfBrowserHost process crashes on agents with newer Silk Performer versions.	
RPI 1096086	Transformation of Java RMI over HTTP does not work in some situations.	
RPI 1096216	It is not possible to manually assign virtual users to agents after changing the virtual users in the all day workload.	
RPI 1096258	During test execution with Silk Performer 15.0 or 15.5, the following message occurs: Webengine 43: No response from host - connection lost.	
RPI 1096347	It is not possible to view logarithmic graphs from the y-value zero.	
RPI 1096437	Hyphens cannot be used in profile names.	
RPI 1096502	IIOP scripts cannot be replayed in TM Art 4.2. The following error occurs: IiopVbServerBind(IIOP: 72 - No valid answer received upon broadcast (Cannot contact the SmartAgent)).	

Issue #	Description	Notes
RPI 1096528	When running a load test using remote agents with a script that incorporates downloading a file (using the <code>BrowserDlgDownload</code> function), the test completes but the downloaded files are not transferred from the agent to the controller.	
RPI 1096836	When executing a TryAgent run, the returned custom event handle errors differ from the expected errors.	
RPI 1096876	Performance Explorer states that the evaluation period has expired and closes.	
RPI 1097105	Silk Performer cannot record a particular website.	
RPI 1097131	When using multiple reports, the monitor reports keep writing when a test is completed.	
RPI 1097177	When opening the <b>Adjust Workload</b> dialog and selecting the <b>Increasing Workload</b> , Silk Performer crashes.	
RPI 1097355	Issues are caused in the <b>Workload Configuration</b> dialog.	
RPI 1097647	Redirection during a proxy recording does not redirect the entire traffic.	
RPI 1097943	When trying to generate an overview report from a template, Performance Explorer crashes.	

# Updates and SupportLine

Our Web site gives up-to-date details of contact numbers and addresses.

## Contacting Micro Focus

Micro Focus is committed to providing world-class technical support and consulting services. Micro Focus provides worldwide support, delivering timely, reliable service to ensure every customer's business success.

All customers who are under a maintenance and support contract, as well as prospective customers who are evaluating products, are eligible for customer support. Our highly trained staff respond to your requests as quickly and professionally as possible.

Visit <http://supportline.microfocus.com/assistedservices.asp> to communicate directly with Micro Focus SupportLine to resolve your issues, or email [supportline@microfocus.com](mailto:supportline@microfocus.com).

Visit Micro Focus SupportLine at <http://supportline.microfocus.com> for up-to-date support news and access to other support information. First time users may be required to register to the site.

## Information Needed by Micro Focus SupportLine

When contacting Micro Focus SupportLine, please include the following information if possible. The more information you can give, the better Micro Focus SupportLine can help you.

- The name and version number of all products that you think might be causing an issue.
- Your computer make and model.
- System information such as operating system name and version, processors, and memory details.
- Any detailed description of the issue, including steps to reproduce the issue.
- Exact wording of any error messages involved.
- Your serial number.

To find out these numbers, look in the subject line and body of your Electronic Product Delivery Notice email that you received from Micro Focus.

# Silk Performer Licensing

This section describes how to obtain a license policy file for Silk Performer and how to install Silk Meter. Silk Meter is the license server for all your Silk products, which allows license sharing among users (floating or concurrent licenses). You must have administrator privileges to install Silk Meter. For node-locked usage of Silk products no license server is required.



**Note:** Silk Performer requires Silk Meter version 2008 or later as well as a Silk Performer license policy.

If you have multiple license servers, you need multiple license policy files, each one tied to a particular license server. A single Silk Meter license server can administer license policy files for multiple products.

If you have received a Silk Performer license policy file, install the license policy file on your license server. If you have not received a license policy file, generate a license policy file with the online license generator.

## Licensing Information

Silk Performer 16.0 needs a new 16.0 license. If you want to run a previous version of Silk Performer during the upgrade process to version 16.0, you may keep your old licenses for a period of 90 days.

# Tested Software

This section lists the software with which Silk Performer has been tested.

The listed software is complete in terms of supported technologies, but not in terms of supported versions and products.

System Area	Tested With
Operating systems	<ul style="list-style-type: none"> <li>• Microsoft Windows Server 2003 32bit with Service Pack 2</li> <li>• Microsoft Windows Server 2003 64bit with Service Pack 2</li> <li>• Microsoft Windows Server 2003 R2 32bit with Service Pack 2</li> <li>• Microsoft Windows Server 2003 R2 64bit with Service Pack 2</li> <li>• Microsoft Windows Server 2008 32bit</li> <li>• Microsoft Windows Server 2008 64bit</li> <li>• Microsoft Windows Server 2008 R2</li> <li>• Microsoft Windows Server 2012</li> <li>• Microsoft Windows Server 2012 R2</li> <li>• Microsoft Windows Vista 32bit</li> <li>• Microsoft Windows Vista 64bit</li> <li>• Microsoft Windows 7 32bit</li> <li>• Microsoft Windows 7 64bit</li> <li>• Microsoft Windows 8 32bit</li> <li>• Microsoft Windows 8 64bit</li> <li>• Microsoft Windows 8.1 32bit</li> <li>• Microsoft Windows 8.1 64bit</li> </ul>
Web browsers	<p>For protocol-based load testing:</p> <ul style="list-style-type: none"> <li>• Internet Explorer</li> <li>• Mozilla Firefox</li> <li>• Google Chrome</li> <li>• Apple Safari</li> </ul> <p>For browser-driven load testing:</p> <ul style="list-style-type: none"> <li>• Internet Explorer 7, 8, 9, 10, 11</li> </ul>
SOAP stacks	<ul style="list-style-type: none"> <li>• Microsoft SOAP Toolkit 2.0 Service Pack 2 (SP2), Internet Information Server 5</li> <li>• Apache-SOAP Version 2.1, TOMCAT Version 3.1</li> </ul>
WebService frameworks	<ul style="list-style-type: none"> <li>• Axis 1.x</li> <li>• Axis2 1.4, 1.5</li> <li>• GlassFish Metro 1.5</li> </ul>
Java support	<ul style="list-style-type: none"> <li>• Java Development Kit 1.4, 1.5, 1.6, 1.7</li> <li>• IBM Java Development Kit</li> <li>• Eclipse 3.6, 3.7, 3.8, 4.2, 4.3</li> </ul>
.Net-based technologies	<ul style="list-style-type: none"> <li>• Microsoft .NET Framework 2.0, 3.0, 3.5, 4.0, 4.5</li> </ul>

System Area	Tested With
Rich Internet applications (Web 2.0)	<ul style="list-style-type: none"> <li>• Microsoft Visual Studio 2010 and 2012</li> <li>• WCF Web Services</li> <li>• Microsoft Silverlight 4, 5</li> <li>• Apache Flex 2, 3, 4</li> <li>• GraniteDS 2.3.2</li> <li>• BlazeDS 3.2.0</li> <li>• Google Web Toolkit</li> <li>• ExtJS</li> <li>• Eclipse RAP</li> <li>• script.aculo.us</li> </ul>
SNMP	<ul style="list-style-type: none"> <li>• SNMPv2-MIB</li> <li>• RFC1213-MIB</li> <li>• RDBMS-MIB</li> <li>• ORADB-MIB</li> <li>• httpServer-MIB</li> <li>• ftpServer-MIB</li> <li>• SUN-MIB</li> <li>• BEA-WEBLOGIC-MIB</li> <li>• APPSRV_MIB (NetDynamics)</li> <li>• SQUID-MIB</li> </ul> <p data-bbox="553 1016 1336 1077">  <b>Note:</b> To find RFCs and vendor MIBs on the Web, visit <a href="#">The Internet Engineering Task Force</a>.         </p>
Proxy servers for firewall tunneling	<ul style="list-style-type: none"> <li>• WinGate</li> <li>• Squid</li> <li>• Dante</li> <li>• Microsoft ISA Server</li> </ul>

# End of Support

Please note that Windows 2003 and Windows 2003 R2 will no longer be supported in future versions of Silk Performer.