

Installing Adopt Open Java Development Kit 8 for 64-bit Windows



United Nations . Educational, Scientific and . Cultural Organization . Regional Centre for Library Information Systems and Current Research Information Systems Regionalni center za knjižnične informacijske sisteme in informacijske sisteme o raziskovalni dejavnosti



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1 Introduction

At the end of 2018, Oracle announced a new business policy for Java SE that stepped into force in April 2019, which is why you see a notification and warnings when installing Java. All versions of Oracle Java from 8u201 onwards are payable, except for personal use. We suggest you do not update Oracle Java 8 to a new version. Also, you cannot install Oracle Java 8 to new computers (clients).

Important Oracle Java License Update

The Oracle Java License has changed for releases starting April 16, 2019.

The new <u>Oracle Technology Network License Agreement for Oracle Java SE</u> is substantially different from prior Oracle Java licenses. The new license permits certain uses, such as personal use and development use, at no cost -- but other uses authorized under prior Oracle Java licenses may no longer be available. Please review the terms carefully before downloading and using this product. An FAQ is available <u>here</u>.

Commercial license and support is available with a low cost Java SE Subscription.

Oracle also provides the latest OpenJDK release under the open source <u>GPL License</u> at <u>jdk.java.net</u>.

For this reason, we recommend you use open-code versions of Java in order to use the COBISS3 software.

The most suitable option is the Adopt Open Java Development Kit 8 (AdoptOpenJDK 8) with IcedTea support for starting the COBISS3 application, which also ensures the correct operation of the fiscal cash register – FURS.

AdoptOpenJDK 8 can only be installed on computers with a 64-bit Windows operating system, because the AdoptOpenJDK 8 does not have IcedTea support for the 32-bit Windows operating system.

If there are computers with the 32-bit Windows operating system in your library, you can install the open-code version of Java **OpenJDK-ojdkbuild.**

2 Distribution of the AdoptOpenJDK 8

AdoptOpenJDK 8 hotspot for Windows, Linux x64, macOS x64 and other operating systems can be found at the link <u>https://adoptopenjdk.net/releases.html?variant=openjdk8&jvmVariant=hotspot</u>. There you will find versions for installing to the selected operating systems. The newest version is always at the top, below is an **example** from **June 2019**:



3 Removing the previous Java version

First, find and remove the installed *Oracle Java* or *OpenJDK Java* software in the **Control Panel**, *Programs and Features*. Then you **need to restart your computer**, so the system variables are removed and updated appropriately and then you can install AdoptOpenJDK (HotSpot): https://adoptopenjdk.net/index.html?variant=openjdk8&jvmVariant=hotspot.

	View installed updates	To uninstall a program, select it from	m the list and then click Uninstall,	Change, or Rep	pair.		
•	Turn Windows features on or off	Organize - Uninstall Change	Repair			III •	0
	Install a program from the network	Name Microsoft Office 365 ProPlus - en Adobe Acrobat DC (2015)	Publisher Microsoft Corporation Adobe Systems Incorporated	Installed On 24.6.2019 14.6.2019	Size 914 MB 1,71 GB	Version 16.0.10730 15.006.30498	^
		Commvault ContentStore	Commvault	11.6.2019	577 MB	11.80.150.0	
	Pro	grams and Features	OpenJDK 1.8.0_212-1-ojdkbuild?	019 019 019 019 019	36,0 MB 66,9 MB 5,34 GB 93,9 MB 231 MB	2.5.7 4.2.0 2.0.0.0 2.3.39.5301 7.3.2.5776	
	1	In the future, do not show me this dial	og box Ves No	019	65,0 MB 26,6 MB	4.0 2.2	
		Cobiss3Folder	IZUM Maribor	21.2.2019	16,0 KB	1.0.0	
		Microsoft Silverlight	Microsoft Corporation	9.1.2019	145 MB	5.1.50918.0	-

If you have installed programs that are started with Java 8, a message will appear after you remove Java, which informs you that the program is no longer installed, e.g. for the COBISS Connect shortcut, COBISS3.jnlp, or the application that is started with Java Web Start. You only need to confirm these messages.

Java(TM) Web Start 11.171.2.11-fcs	Error
Cannot determine a valid Java Home	No JVM could be found on your system. Please define EXE4J_JAVA_HOME to point to an installed 32-bit JDK or JRE or download a JRE from www.java.com.
ОК	ОК

4 Installing AdoptOpenJDK 8 for 64-bit Windows

Find the version suitable for the **64-bit Windows** operating system on the website <u>https://adoptopenjdk.net/index.html?variant=openjdk8&jvmVariant=hotspot</u>.

	Adop	tOpenJDK									
Prebuil	t OpenJDK	Binaries fo	or Fre	ee!							
Java [™] is the world's I infrastructure, build a libraries and a c All AdoptOpenJDK bi	leading programming la ind test scripts to produ- hoice of either the Ope naries and scripts are	anguage and platform ice prebuilt binaries fr inJDK HotSpot or Ecli open source licensed	a. AdoptO rom Oper ipse Oper and avai	penJDK uses NJDK™ class nJ9 VM. lable for free.							
	Download for Windows x64										
1. Ch	oose a Version	2. Choose a	JVM Ŀ	Help Me Choose							
• C	penJDK 8 (LTS)	 HotSpot 									
0 0	penJDK 11 (LTS)	O OpenJ9									
0 0	penJDK 12 (Latest)										
	📩 Latesi jak8u2	t release ^{22-b10})								
	Other pla	tforms Θ									
	Release Archive 8	k Nightly Builds ा									
AdoptOpe	enJDK now also distrib	utes OpenJDK upstre	am build	sl							
Installation Θ	Migration Θ	Support Θ	Get i	nvolved Θ							

If you are using another operating system (e.g. Linux, macOS), select Other Platforms.

In the browser (Chrome, Firefox, Edge, etc.) select *Latest release*, which is the latest at this time and download it to your computer (in this case **jdk8u222b10**). Check if you downloaded the correct installation file (**extension .msi**) and start the installation process of the **OpenJDK8U-jdk_x64_windows_hotspot_8u222b10.msi**.

Opening OpenJDK8U-jdk_x64_windows_hotspot_8u222b10.msi	×
You have chosen to open:	
号 OpenJDK8U-jdk_x64_windows_hotspot_8u222b10.msi	
which is: Windows Installer Package (90.4 MB)	
from:github-production-release-asset-2e65be.s3.amazonaws.com	
Would you like to save this file?	
Save File Cancel	

4/12

By confirming the message, you start the installation. Usually, a warning will appear, informing you that this is an executable file. You can close the window by confirming it. Confirm the individual phases of the installation by clicking the <u>Next</u> button.



Confirm and accept the licence terms (I accept the terms in the License Agreement).

End-User License Please read the foll	Agreement owing license agreer	ment carefully			-
GNU GENERAL PUBL Version 2, June	IC LICENSE 1991				^
Copyright (C) 19 59 Temple Place	89, 1991 Free So - Suite 330, Bos	ftware Foundat ton, MA 02111	ion, Inc. -1307, USA		
Everyone is perm of this license	itted to copy an document, but ch	d distribute v anging it is n	erbatim copie ot allowed.	s	
Preamble The licenses for to share and cha is intended to g softwareto mak	most software a nge it. By contr uarantee your fr e sure the softw	re designed to ast, the GNU G eedom to share are is free fo	take away yo eneral Public and change f r all its use	ur freedom License ree rs. This	~
✓I accept the term	s in the License Agre	ement			

IMPORTANT:

Before you continue the installation, you need to select the option *Will be installed on local hard drive* under all highlighted red crosses in the **Custom setup** window. Below is an example of confirming the *Associate .jnlp* method.

🛃 AdoptOpenJDK JD	K with Hotspot 8.0.222.10 (x	x64) Setup —	Х
Custom Setup Select the way yo	u want features to be installed	d.	
Click the icons in t	ne tree below to change the w	vay features will be installed.	
	K with Hotspot → Add to PATH → Associate .jar < → Set JAVA_HOME variable	AdoptOpenJDK Development Kit with Hotspot	
	 ✓ JavaSoft (Oracle) registr ✓ IcedTea-Web ✓ Associate .jnlp 	This feature requires 0KB on your hard drive. It has 0 of 5 subfeatures selected. The subfeatures free up 15MB on your hard drive.	
Re <u>s</u> et	Disk <u>U</u> sage	<u>B</u> ack <u>N</u> ext Cance	el

🕌 AdoptOpenJDK JDK with	h Hotspot 8.0.222.10 (x64	4) Setup	_		×
Custom Setup Select the way you wan	t features to be installed.			ł	
Click the icons in the tree	e below to change the way	/ features will be inst	alled.		
	n Hotspot Add to PATH Associate .jar	Associate .jnlp file IcedTea-Web	s to run	with	
	Set JAVA_HOME variable JavaSoft (Oracle) registr CcedTea-Web X - Associate .jnlp	This feature requi hard drive.	res OKB	on your	
	Will be installed of	n local hard drive			
<	Entire feature will	be installed on loc	al hard	drive	
	× Entire feature will	be unavailable			
Reset	Disk <u>U</u> sage	<u>B</u> ack <u>N</u> ex	t	Cano	el

歳 AdoptOpenJDK JD	K with Hotspot 8.0.222.10	(x64)	Setup	_		×
Custom Setup Select the way you	u want features to be installe	ed.				
Click the icons in t	ne tree below to change the	way	features will b	oe installed.		
	K with Hotspot ✓ Add to PATH ✓ Associate .jar ✓ Set JAVA_HOME variab ✓ JavaSoft (Oracle) regis ✓ IcedTea-Web	lle tr	Associate .jr IcedTea-We This feature hard drive.	nlp files to ru b requires 0KE	n with 3 on your	
<	Associate .jnlp	•				
Reset	Disk <u>U</u> sage		<u>B</u> ack	<u>N</u> ext	Can	cel

Continue the installation by clicking *Install* and finish it by clicking *Finish*.





5 Installing the COBISS interface

The saved link or the .jnlp file on the desktop enables you to start the COBISS3 system login interface at any time.

On the COBISS entry page, first select the option *Librarians* and then *Interface installation*. The installation of the interface differs according to the selected web browser. In all browsers, enter the **library acronym** in the *Find:* field, e.g. **IZUM**.

In Google Chrome select *Keep* and open and start the COBISS3 interface by clicking c3_izum.jnlp.

Prikaži	i 15 🔻				Poišči:	izum			
Št.	Naziv	\$	Kraj 🔺	Akronim 🔶	Namestitev	Kat 🔶	Izp 🔶	MI 🔶	Nab
1.	Institut informacijskih znanosti, Maribor	Maribo	ЭГ	IZUM	COBISS3	Da	Da	Da	Da
Prikaza Filtrirai	ano [1 – 1] od 1 no po vseh zadetkih (914)				<<	<	1	>	>>
1.	Baza podatkov za redakcijo (brez knjižnice)	Maribo	ЭГ	KNT	COBISS3	Da			

Prika	ži 15 🔻					Poišči:	izum			
Št.	Naziv	\equiv	Kraj		Akronim 🍦	Namestitev	Kat 🔶	Izp 🎈	MI 🔶	Nab
1.	Institut informacijskih znanosti, Maribor		Maribor		IZUM	COBISS3	Da	Da	Da	Da
Driker	7000 [4 1] od 4					<<	/	1] 、	~
Filtrira	ano po vseh zadetkih (914)									

In the **Mozilla Firefox** browser, select *Save File*. The **c3_izum.jnlp** is saved in *Download*, and you can click on it to open and start the COBISS3 interface.

Name	stitev								
Prikaži (15 ~					Poišči:	izum		
Št.	Naziv	 Кгај		Akronim 🔶	Namestitev	Kat	lzp	≑ m ≑	Nab
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Prikaza Filtriran	no [1 – 1] od 1 1o po vseh zadetkih (914)					<<	< 1	>	>>
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		Opening of You have If c3_ wh fro Would ye	:3_izun e chose izum.j ich is: m: http ou like	n.jnlp n to open: nlp JNLP file (2.5 KB) s://izumc3-2.izur to save this file?	n.si	Save F	ile	Cancel	×



In **Microsoft Edge** use the *Save* button. The **c3_izum.jnlp** interface is saved in **Download**, and you can open and start the COBISS3 interface by clicking the **Open** button.

rika	ži 15 🗸					Poiš	či: izu	n		
Št.	Naziv	$\frac{\mathbb{A}}{\mathbb{V}}$	Kraj		Akronim 🕴	Namestitev	Kat 🍦	Izp 🔶	MI 💠	Nab
1.	Institut informacijskih znanosti, Maribor		Maribor		IZUM	COBISS3	Da	Da	Da	Da
rika. iltriri	zano [1 – 1] od 1 ano po vseh zadetkih (914)					<<	<	1	>	>>
ĺ.	Baza podatkov za redakcijo (brez knjižnice)		Maribor		KNT	COBISS3	Da			
Vha	t do you want to do with c3_izum.jnlp (2,46 KB)?			ſ	Save	Save a	as	(Cancel	

Št.	Naziv	Kraj 🔺	Akronim 🔶	Namestitev	Kat 🔶	Izp 🔶	MI 🔶	Nab
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Filtrir	ano po vseh zadetkih (914) Baza podatkov za redakcijo (brez knjižnice)	Maribor	KNT	COBISSS	Da			
1.	Baza podatkov za redakcijo (brez knjižnice)	Maribor	KNT	COBISS	Da			

6 Starting the COBISS interface

The location of **c3_<akronim>.jnlp** depends on the web browser and the settings. In some browsers, the COBISS interface is started immediately after installation (chapter 5), and in other browsers, you can find it in **Download** and start it by clicking it. Usually a warning window appears, informing you that this is an executable file, and you can close it by confirming it.

However, in all cases the introduction of the **IcedTea** software appears, followed by the **C3** symbol window (COBISS3), and then the warning window **Security Warning**.





0	Security Warning	×							
	The Application has requested permission to create Desktop and Menu shortcuts. Do you want to allow this action?								
	Name: COBISS3 siknm Publisher: IZUM (unverified) From: http://cobiss3.izum.si Desktop shortcut (Application has requested) Menu shortcut (Application didnt request). Your current setting is: Ask if hinted. You can change it in itweb-settings in Desktop Integration paner You can manage existing menu entries in itweb-settings in Manage installed menu shortcuts panel. Remember by Application Remember by Domain								
	OK Cancel Advanced Options	-							

The warning requires you to confirm it in order to install the shortcut to the desktop (*Desktop shortcut*). Optionally, you can click *Advanced Options* and select *Remember by Application* and confirm with *OK* to continue.

A login window for the correct link (e.g. **IZUM**) will appear, where you log in with your username and password.

A shortcut will be created on the desktop and you can use it for subsequent logins to the COBISS3 system.

	COBISS3
Test.	IZUM
	(
	Geslo
	Sprememba gesla COBISS
2	Contraction
E	V redu V redu
×	



7 Default start of the COBISS interface

If you have another version of Java installed on the computer, you need to prepare the default start of the .jnlp interface through the Control panel, Default Programs and Associate a file type....

In the left column **Name** select the **.jnlp** extension and then click *Change program*.... Find the correct boot application **javaws.exe**.

The default boot application is:

C:\Program Files\AdoptOpenJDK\jre-8.0.222.10-hotspot\bin\javaws.exe

Control Panel\All Control Panel It	tems\Default Programs\Set Associations			-	
← → × ↑ 🗹 > Control Par	✓ Ö Search C	Control Panel	م ر		
					(?
Associate a file type or pro	tocol with a specific program				
Click on an extension to view the p	rogram that currently opens it by default. To change the de	fault program, click Change program.			
javaws.exe				Change	program
Name	Description	Current Default			^
📄 .jar	JAR File	Unknown application			
jav .	JAV File	Unknown application			
🔥 .java	Java Source File	Code Writer			
jbf	JBF File	Unknown application			
jdf	JDF File	Unknown application			
🖬 .jfif	JFIF File	Fotografije			
🛄 .jnlp	JNLP File	javaws.exe			
job.	Task Scheduler Task Object	Unknown application			
joboptions	Adobe PDF Settings	Acrobat Distiller			
jod	Microsoft.Jet.OLEDB.4.0	Unknown application			
🔟 .jpe	JPE File	Fotografije			
🔄 .jpeg	JPEG File	Fotografije			
ineg 2000	File	Unknown application			~
					Close

Once you added the boot application, close the **Set Association** window.