getting IllegalStateException when getting instance of jakarta.mail.Session object

Asked 1 year, 9 months ago   Modified 2 months ago   Viewed 21k times

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I am new to working with jakarta.mail. I am getting the following error when creation the Session object for jakarta.mail.

```
java.lang.IllegalStateException: Not provider of jakarta.mail.util.StreamProvider was
found
```

The error is thrown by the FactoryFinder class find method when called by the StreamProvider class provider method, seems there are no available service providers?? Not sure what this means, new to writing email notification code.

authenticator is null, port is 25.

`jakarta-mail`

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edited Apr 28, 2023 at 9:49

alfonx
7,176 ● 3 ● 50 ● 58

asked Oct 17, 2022 at 18:03

Percival Bragg
221 ● 1 ● 2 ● 3

This answer helped me and solved the problem: error while sending mail using javamail – tomboss May 16, 2023 at 10:14

6 Answers

Sorted by: Highest score (default) ▲▼

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It appears that you are only linking to the jakarta.mail-api library, which only contains the *API* and not the actual *implementation*. Try something like this in your Maven POM file.

Note the inclusion of the **org.eclipse.angus:jakarta.mail** dependency.

```
<!-- Jakarta email support -->
<!-- https://jakarta.ee/specifications/mail/ -->
<!-- https://github.com/jakartaee/mail-api -->
<dependency>
    <groupId>jakarta.mail</groupId>
    <artifactId>jakarta.mail-api</artifactId>
    <version>2.1.0</version>
    <scope>provided</scope>
</dependency>
<!-- https://github.com/eclipse-ee4j/angus-mail -->
<dependency>
    <groupId>org.eclipse.angus</groupId>
    <artifactId>jakarta.mail</artifactId>
    <version>1.0.0</version>
</dependency>
```

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answered Oct 27, 2022 at 15:09

Rob Stoecklein
919 ● 8 ● 9

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as of 2021 "breaks the tight integration between Jakarta Mail Specification API and the implementation" and `org.eclipse.angus:angus-mail` should be used instead. i can edit and update the answer, if the author won't. (see jakartaee.github.io/mail-api and eclipse-ee4j.github.io/angus-mail) — radistao Apr 29 at 10:46

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As Ivan B suggested, I changed my dependency from

```
<dependency>
    <groupId>jakarta.mail</groupId>
    <artifactId>jakarta.mail-api</artifactId>
    <version>2.1.1</version>
</dependency>
```

to

```
<dependency>
    <groupId>com.sun.mail</groupId>
    <artifactId>jakarta.mail</artifactId>
    <version>2.0.1</version>
</dependency>
```

and it solved the problem for me.

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answered Sep 5, 2023 at 8:04

Louis
155 • 2 • 4

It helped me. Replace your jakarta dependencies to this

5

```
<dependency>
    <groupId>com.sun.mail</groupId>
    <artifactId>jakarta.mail</artifactId>
    <version>2.0.1</version>
</dependency>
```

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answered May 24, 2023 at 12:57

Ivan B
69 • 1 • 3

What helped you? – CPlus May 31, 2023 at 4:00

Angus Mail 1.0 seems to be compatible with Jakarta Mail 2.1.x but does not work with Java module system.

3

If you want to step forward (use *jakarta.mail* instead of *javax.mail* **and** Java module system) consider using Angus Mail 2.x instead of 1.0:

```
<!-- https://mvnrepository.com/artifact/jakarta.mail/jakarta.mail-api -->
<dependency>
    <groupId>jakarta.mail</groupId>
    <artifactId>jakarta.mail-api</artifactId>
    <version>2.1.3</version>
    <scope>provided</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.eclipse.angus/angus-mail -->
<dependency>
    <groupId>org.eclipse.angus</groupId>
    <artifactId>angus-mail</artifactId>
    <version>2.0.3</version>
    <scope>runtime</scope>
</dependency>
```

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edited May 18 at 9:13

answered Feb 18 at 11:00

Ingolf Knopf
31 • 2

Thank you, thank you, thank you. What a nightmare! The old sun mail ran on windows, but not on Linux and the error message is horrible. Angus ran perfectly. It it time to get rid of old Sun implementations! Want to upvote this answer a lot more. – AgilePro Mar 25 at 16:07

Version becomes angus-mail 2.0.3 with jakarta-mail-api 2.1.3 – Glucide May 15 at 9:31

I can confirm the answer of Rob Stoecklein (Oct 27, 2022 at 15:09):

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Currently in 2024 the answer is to use "jakarta.mail" and "org.eclipse.angus".
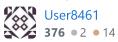
```
gradle.dependencies {

    implementation group: 'jakarta.mail', name: 'jakarta.mail-api', version: '2.1.3'

    implementation group: 'org.eclipse.angus', name: 'jakarta.mail', version: '2.0.3'
}
```

for error

> Exception in thread "main" java.lang.IllegalStateException: No provider of jakarta.mail.util.StreamProvider was found at jakarta.mail.util.FactoryFinder.find(FactoryFinder.java:61) at jakarta.mail.util.StreamProvider.provider(StreamProvider.java:199) at jakarta.mail.Session.(Session.java:257) at jakarta.mail.Session.getDefaultInstance(Session.java:383)

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answered Apr 1 at 11:17

User8461
376 ● 2 ● 14

I added my answer because for me Rob Stoecklein's XML is hard to read. – User8461 Apr 1 at 11:21 ✎

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Just a quick hint on this. Make sure you are running the `jakarta.mail` related methods in a thread safe environment

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answered Mar 23, 2023 at 16:17

Ole K
843 ● 1 ● 10 ● 34