

# FIXEdge upgrade instruction

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This article describes the ways to upgrade the FIXEdge to new version.

## How to upgrade FIXEdge while the current version is up and running

This section shows how to setup an upgraded version of FIXEdge and transfer all required configuration without stopping the current working FIXEdge version.

### Preparation

1. Make sure you have sufficient administration permissions for further uninstall/install procedures.
2. Download new FIX Edge package for the corresponding OS version;
3. Make a copy of your current installation (configuration and binaries);
4. Make a copy of your current license (*engine.license*).  
If your license has expired or was lost, contact [sales@btobits.com](mailto:sales@btobits.com) to obtain the new one;
5. Prepare configuration amendments in case you plan to change any credentials, destination folders, connection parameters, etc. Refer to [configuration guides](#) for assistance;



Your current version of FIXEdge will be up and running all the time during the upgrade procedure.



**For FIXEdge version 6.5.0 and higher VS2015 C++ redistributable is required. It can be found in FIXEdge's \Redist directory or downloaded from [Microsoft web-site](#).**

### Upgrade Process

The detailed installation guide is presented here: [FIXEdge Installation Guide](#). However, the main part of the new upgraded FIXEdge version setup is to make sure that the new FIXEdge configuration is the same as in the current version.



For steps 2-3 described below it is recommended to operate with made copy of your current installation for safety reasons. It should prevent user from unintended/occasional breaking of the running FIXEdge version.

1. Unpack the archive with new FIXEdge version;
2. FIXEdge configuration parameters adjustment:
  - a. Replace all files in *FIXEdge1\conf* directory of the new FIXEdge instance with ones from the made copy of you current FIXEdge version;
3. FIXICC configuration parameters adjustment:
  - a. If you don't have any specific FIXICC/FIXICC Agent configuration in your current FIXEdge instance, then you may skip step 3.
  - b. If you setup any specific configuration for FIXICC for your current FIXEdge instance, then:
    - i. Replace *fixengine.properties* file in *fixiccltc* directory of the new FIXEdge instance with one from the made copy of you current FIXEdge version;
    - ii. Replace *log4j.properties* file in *fixiccltc\fixicc* directory of the new FIXEdge instance with one from the made copy of you current FIXEdge version;
  - c. If you setup any specific configuration for FIXICC Agent for your current FIXEdge instance, then replace the following files in *fixicc-agent\FIXEdge1.fixicc-agent\conf* directory of the new FIXEdge instance with ones from the made copy of you current FIXEdge version:
    1. *agent.properties*
    2. *fixengine.properties*
    3. *log4j.properties*
    4. *OrderAckTCPMonitor.properties*
    5. *security.properties*



It is critically important to make sure that all the copied configuration files **do not** contain *absolute paths* in specified parameters. If you have such, need to replace it with a *relative path* or new *absolute path*.



Until the version, 5.11 FIXEdge's instance directory had the name **<FixEdge1>**. Since version 5.11 FIXEdge's instance directory name is **<FIXEdge1>**.

4. If you use [Transport Adaptors](#) or [Handlers](#), need to make sure that they are configured properly:



If you have several instances of one Transport Adapter in your current configuration, please follow the [How to configure several instances of one adapter](#) instruction to setup it in a new configuration.

- a. If you use [JMS Adaptor](#), [RabbitMQ Adaptor](#), [SMTP Adaptor](#), [FMXML handler](#), [BLLanguageExtension Handler](#) - all corresponding libraries are already in *FIXEdge1\bin* directory of the new FIXEdge instance, nothing is required;
  - b. If you use any other [Transport Adaptors](#) or [Handlers](#), you need to put corresponding libraries to *FIXEdge1\bin* directory of the new FIXEdge instance - see the installation guides for each adaptor/handler for details;
  - c. If you use CME STP Adapter, it is necessary to upgrade the adapter after the FIXEdge upgrade procedure.
5. If you use Failover Cluster, please follow [Failover Cluster](#) instruction to configure it for new FIXEdge instance;
6. Make sure that your configuration files correspond last changes/improvements in new product versions:
- a. Visit [FIXEdge Release Notes](#) page;
  - b. Look through the changes made from the current FIXEdge version to target FIXEdge version:
    - i. If last product changes require an update of your current FIXEdge's and FIXICC's config files, adjust them to satisfy new requirements;
    - ii. If last product changes don't affect your current FIXEdge's and FIXICC's config files, you may leave them as is;
    - iii. In case of doubts, please contact [SupportFIXAntenna@epam.com](mailto:SupportFIXAntenna@epam.com);
7. Copy your FIXEdge license into the [license file path](#);
8. Stop your current FIXEdge process;
9. Stop your current FIXICC-agent process;
10. Uninstall your current FIXEdge service(s);
11. Uninstall your current FIXICC Agent service(s);
12. Remove all content of FIXICC's working dir **<.fixicc>** except servers.xml file. Working dir is normally placed in *C:\Users\%USER%\AppData\Roaming* directory;
13. Make sure that FIXEdge and FIXICC Agent are uninstalled in your system.
14. Install new FIXEdge service(s);
15. Install new FIXICC-agent service(s);
16. Start the new FIXICC-agent process;
17. Start the new FIXEdge process.



In order to ensure that upgraded FIXEdge was successfully setup, you may check the log files:

If you check the *FixEdge.log* file of the upgraded version of FIXEdge, you will find the following record:

#### FixEdge.log

```
2016-09-20 10:46:19,459 UTC INFO [CC_Layer] 5552 FIXEdge Version X.Y.Z (rxyz) started
```

## How to revert upgrade procedure

If you need to revert changes in order to use your original FIXEdge version (that was used before the upgrade), you need to do the following steps:

1. Stop the FIXEdge process;
2. Stop the FIXICC-agent process;
3. Uninstall the FIXEdge service(s);
4. Uninstall the FIXICC Agent service(s);
5. Remove all content of FIXICC's working dir **<.fixicc>** except servers.xml file. Working dir is normally placed in *C:\Users\%USER%\AppData\Roaming* directory;
6. Restore your backup copy with original FIXEdge version;
7. Install the FIXEdge service(s) of the restored original FIXEdge version;
8. Install the FIXICC-agent service(s) of the restored original FIXEdge version;
9. Start the FIXICC-agent process of the restored original FIXEdge version;
10. Start the FIXEdge process of the restored original FIXEdge version.

## How to upgrade the current FIXEdge version to the new one

This section shows how to upgrade the existing FIXEdge version and keep all configuration files unchanged.

### Upgrade Preparation

1. Make sure you have sufficient administration permissions for further uninstall/install procedures.

2. Download new FIX Edge package for the corresponding OS version;
3. Stop the FIXEdge process;
4. Stop the FIXICC-agent process;
5. Uninstall the FIXEdge service(s);
6. Uninstall the FIXICC Agent service(s);
7. Remove FIXICC's working dir **<.fixicc>** normally placed in *C:\Users\!%USER%\AppData\Roaming* directory;
8. Make a backup copy of your current installation (configuration and binaries);
9. Make a backup copy of your current license (*engine.license*).  
If your license has expired or was lost, contact [sales@btobits.com](mailto:sales@btobits.com) to obtain the new one;
10. Prepare configuration amendments in case you plan to change any credentials, destination folders, connection parameters, etc. Refer to [configuration guides](#) for assistance;



**For FIXEdge version 6.5.0 and higher VS2015 C++ redistributable is required. It can be found in FIXEdge's \Redist directory or downloaded from [Microsoft web-site](#).**

## Upgrade Process

1. Upgrade FIXEdge itself:
  - a. *For Windows version:*  
Replace\* files in FIXEdge's **<bin>** directory with new binaries from the *FIXEdge package*;
  - b. *For Linux version:*  
Replace\* files in FIXEdge's **<bin>** directory with new binaries from the *FIXEdge package* - all except \*.sh files;
2. Upgrade FIXICC:
  - a. Replace\* files in FIXEdge's **<fixicc-agent>** directory with new ones from the *FIXEdge package* – all except \*.properties files;
  - b. Replace\* files in FIXEdge's **<fixicc>** directory with new ones from the *FIXEdge package* – all except \*.properties files;
3. Upgrade [Transport Adaptors](#) and [Handlers](#) if use them:
  - a. Visit [FIXEdge Release Notes](#) page;
  - b. Look through the changes made with [Transport Adaptors](#) and [Handlers](#) from you current FIXEdge version to target FIXEdge version:
    - i. If any improvements/bugfixes were done in [JMS Adaptor](#), then:
      1. Replace\* all jar files for JMS adapter with new jar files from the *FIXEdge package* in FIXEdge's *FIXEdge1\conf\jms-ta-distribution\lib* directory;
      2. Replace\* all jar files for JMS adapter with new jar files from the *FIXEdge package* in FIXEdge's *FIXEdge1\conf\jms-ta-distribution\tool\lib* directory;
    - ii. If any improvements/bugfixes were done in [RabbitMQ Adaptor](#), then:
      1. Replace\* all jar files for RMQ adapter with new jar files from the *FIXEdge package* in FIXEdge's *FIXEdge1\conf\amqp-ta-distribution\lib* directory;
    - iii. If any improvements/bugfixes were done in other [Transport Adaptors](#) or [Handlers](#), then:
      1. Replace\* corresponding binaries with new ones from the *package with SupAdaptors* in FIXEdge's **<bin>** directory;
    - iv. If no improvements/bugfixes were done, you may skip step 4;
    - v. In case of doubts, please contact [SupportFIXAntenna@epam.com](mailto:SupportFIXAntenna@epam.com);



In case you have several instances of one Transport Adaptor (it means there are several copies of one TA library), need to upgrade all of them.



"Replace" in this context means that files should be deleted from the current FE directory and new files from the package should be added there. This clarification is made in order to avoid the situation when two (or more) same libraries with different versions appear in the directory as it may cause issues.



Until the version, 5.11 FIXEdge's instance directory had the name **<FixEdge1>**. Since version 5.11 FIXEdge's instance directory name is **<FIXEdge1>**.

4. Make sure that your configuration files correspond last changes/improvements in new product versions:
  - a. Visit [FIXEdge Release Notes](#) page;
  - b. Look through the changes made from the current FIXEdge version to target FIXEdge version:
    - i. If last product changes require an update of your current FIXEdge's and FIXICC's config files, adjust them to satisfy new requirements;
    - ii. If last product changes don't affect your current FIXEdge's and FIXICC's config files, you may leave them as is;
    - iii. In case of doubts, please contact [SupportFIXAntenna@epam.com](mailto:SupportFIXAntenna@epam.com);
5. Copy your FIXEdge license into the [license file path](#);
6. Install the FIXEdge service(s);
7. Install the FIXICC-agent service(s);
8. Start the FIXICC-agent process;
9. Start the FIXEdge process.



In order to ensure that the FIXEdge was successfully upgraded to the desired version, you may check the log files:

If you check the *FixEdge.log* file, you will find the following record:

#### FixEdge.log

```
2016-09-20 10:46:19,459 UTC INFO [CC_Layer] 5552 FIXEdge Version X.Y.Z (rxyz) started
```

## How to revert upgrade procedure

In order to revert the upgrade, you should take your made backup copy and go through all the steps described above.

In other words, the procedure is absolutely the same, the only difference is that the backup copy is the target FIXEdge version in this case.

## Troubleshooting

### FIXEdge started to fail after the Upgrade

If FIXEdge started to crash after the upgrade and some adapters or handlers is used in the configuration probably step #4 in [Upgrade process](#) wasn't done properly

Please check that all adapters and handlers (e.g. CME STP Adaptor) have the same revision as FIXEdge in versions.log

#### versions.log

```
2019-08-05 19:46:17,886 UTC INFO [Version] 22036 'TransportLayer' version 0.1.1.5(r31)
2019-08-05 19:46:17,886 UTC INFO [Version] 22036 FIXEdge version 6.7.0 (r31)
2019-08-05 19:46:18,317 UTC INFO [Version] 22036 FIXMLConverter version 0.0.2.19(r31)
2019-08-05 19:46:18,390 UTC INFO [Version] 22036 BusinessLayer version 0.0.20.00(r31)
2019-08-05 19:46:18,392 UTC INFO [Version] 22036 Engine Adaptor version 0.0.1.17(r31)
2019-08-05 19:46:18,402 UTC INFO [Version] 22036 The B2BITS FIX Engine 2.25.1 (r51)
2019-08-05 19:46:19,279 UTC INFO [Version] 22036 FIX Engine AdminProtocol version 3.0
2019-08-05 19:46:22,398 UTC INFO [Version] 22036 FixEngine version 0.0.2.2(r31)
2019-08-05 19:46:22,399 UTC INFO [Version] 22036 FixLayer version 0.2.1.5(r31)
2019-08-05 19:46:22,411 UTC INFO [Version] 22036 STP Transport Adaptor version 0.1 (r31)
```

#### Solution:

Upgrade transport adapters and handlers to the same version as FIXEdge