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# SIP Feature Server Deployment Guide

Configure SIP Feature Server to work with the Cassandra cluster

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Perform the following steps on each SIP Feature Server instance:

1. During installation, ensure that you select the Cassandra cluster type as **External Cassandra**. If you didn't select this type of installation or if you want to verify the current mode, verify the following:
  - Make sure the value of the parameter **startServer** (**com.genesyslab.common.application.cassandraServer**) is set to false in **<Feature Server installed directory>\launcher.xml** (or **launcher\_64.xml** on Linux).
  - Make sure that you set **connection-type** in the **Cassandra** section to a value (cql or thrift) according to the protocol you are planning to use.
2. In the **SIP Feature Server application > [Cassandra]** section, configure the options as follows:
  - nodes=IPAddress of all the Cassandra nodes that are available in that data center.
  - keyspace=<keyspace\_name> Keyspace name for SIP Feature Server application. The default is sipfs.
  - nodeFailureTolerance=replication\_factor Value of its data center-1.  
For example, if DC1 is the data center where SIP Feature Server is connected and the replication factor is DC1=3, DC2=3, then configure nodeFailureTolerance=2.
3. If Authentication is enabled in Cassandra, then configure the following options in the **[Cassandra]** section under SIP Feature Server application:
  - username=<cassandra\_username>
  - password=<Cassandra\_password>
4. If Cassandra TLS encryption is enabled on the CQL port, then perform the following steps:
  - Set the **cassandra\_encryption** parameter (**com.genesyslab.voicemail.application.cassandraEncryption**) to true in **<Feature Server installed directory>\launcher.xml** (or **launcher\_64.xml** on Linux).
  - Set Feature Server to trust all remote Cassandra server certificates by default.
    - If you want to verify the remote server certificate, configure the option **trusted-ca** in the **Cassandra** section of the Feature Server application object. The value should be the path to a file with trusted certificate authority you want to use to verify the remote server certificate. Note that the file must be in the PEM format and it is stored in a local folder that is accessible by Feature Server process(es).
  - Set Feature Server to skip validation of remote Cassandra server's hostname that matches with the subject of the certificate returned by that server by default.
    - If you want to enforce strict validation, configure the **verify-host** option to true in the **Cassandra** section.

### Important

If you want to use TLS encryption when connecting to legacy Cassandra deployments that uses the Thrift protocol, then, instead of configuring the above options, create a truststore under **<SIP Feature Server installed directory>/etc** and import the public key certificates of the Cassandra nodes. Then, edit the **<SIP Feature Server installed directory>/launcher.xml** file (or **launcher\_64.xml** for Linux) and set **javax.net.ssl.trustStore** to **./etc/<path of the truststore file>**, and **javax.net.ssl.trustStorePassword** to **<truststore password>**