

Encryption Mode

Encryption Mode describes how data is encrypted when being shared out of your ServiceNow instance.

The available modes are:

Mode	Description
encrypted	Data is encrypted then base64 encoded
encrypted_multibyte	Data is base64 encoded then encrypted

You can change your encryption mode by going to **Perspectium > DataSync > Properties**.

Specify how data is encrypted before being shared. 'encrypted' uses the same encryption as ServiceNow's password encryption. 'encrypted_multibyte' base 64 encodes data before encrypting.

encrypted ▼

You can also set the encryption mode when you [create a shared queue](#).

When to use Encryption Mode

Foreign Language Replication between ServiceNow instances

To ensure that foreign language strings are replicated properly between ServiceNow, instances require that **encrypted_multibyte** encryption mode is selected on the source instance.

Foreign Language Replication to SQL DataSync Agents

To ensure that foreign language strings are replicated properly to your target database via a SQL DataSync Agent, you must configure your database connection string for UTF-8 character encoding. For example, agent.xml config is modified with `<database_parms>` for MySQL subscriber to add the parameter `characterEncoding=UTF-8`.

```
<subscribe>
  <task>
    <task_name>multibyte_tester</task_name>
    <handler>com.perspectium.replicator.sql.SQLSubscriber</handler>
    <amqp_queue>psp.out.replicator.dloo_mac</amqp_queue>
    <decryption_key>The cow jumped over the moon</decryption_key>

    <database_server>127.0.0.1</database_server>
    <database_user>xxx</database_user>
    <database_password>xxx</database_password>
    <database_port>3306</database_port>
    <database_type>mysql</database_type>
    <database_parms>autoReconnect=true&characterEncoding=UTF-8</database_parms>
    <database>psp_repl</database>
  </task>
</subscribe>
```