# REPLICATION: Activating or Deactivating Replication

The REPLICATION function activates or deactivates replication for an Adabas database file. This function should be used with Adabas databases; it is not valid with Event Replicator Servers.

```
ADADBS  REPLICATION  FILE = file-number
                     {ON | OFF | MODIFY [ACTIVATE | DEACTIVATE] }
                     [DSBI = { ON | OFF } ]
                     [KEY = field | NOKEY]
                     [TARGET = dbid ]
```

This chapter covers the following topics:

- Essential Parameter

- Optional Parameter

- Examples

## Essential Parameter

**FILE: File Number**

The file number of the database file for which replication is to be activated or deactivated. This parameter is required; there is no default.

**Note:**
Replication may not be turned on for an Adabas system file or for a ciphered file.

**ON, OFF, MODIFY: Set Replication**

One of the parameters ON, OFF, or MODIFY must be set. There is no default. Each parameter is described below:

- ON turns replication on for the specified file.

- OFF turns replication off for the specified file.

- MODIFY allows you to modify one or more of the replication-related values (KEY, TARGET, DSBI) for a replicated file. The ACTIVATE and DEACTIVATE parameters allow you to change the replication status for a replicated file.

# Optional Parameter

### ACTIVATE: Activate Replication

The ACTIVATE parameter is only allowed when MODIFY is specified. It will activate replication for a file that has replication defined. Replication must already be inactive for the file.

### DEACTIVATE: Deactivate Replication

The DEACTIVATE parameter is only allowed when MODIFY is specified. It will deactivate replication for a file that has replication defined. Replication must already be active for the file.

### DSBI: Define Before Image

The DSBI parameter defines whether or not before images of data storage are collected for replication during the update of a record on a file. Following are rules for setting the DSBI parameter:

- Possible values: "ON", "OFF"

- The parameter is optional when "ON" or "MODIFY" is specified.

- The parameter has a default value of "ON" when ADADBS REPLICATION ON is specified.

- The parameter is not allowed when ADADBS REPLICATION OFF is specified.

For more information about how this parameter is used in Adabas database processing during replication, read *Nucleus Processing* in *Event Replicator for Adabas Concepts*.

### KEY: Define Primary Key

The KEY parameter defines the primary key for replication. Following are rules for setting the KEY parameter:

- The parameter is optional when ON or MODIFY is specified.

- The parameter is not allowed when OFF is specified.

- The parameter may *not* be specified when OFF or NOKEY is specified.

**Note:**
The field name specified must be a descriptor on the file. Note that "descriptor" in this case is used generically, as the field may be a descriptor, subdescriptor, superdescriptor, etc.

### NOKEY: Remove Primary Key Setting

The NOKEY parameter removes the primary key setting when MODIFY is specified. Following are rules for setting the NOKEY parameter:

- The parameter is not allowed when OFF is specified.

- The parameter is the default setting when ON is specified and neither NOKEY nor KEY is specified.

- The parameter may *not* be specified when KEY is specified.

**TARGET: Event Replicator Target ID**

TARGET defines the Event Replicator target database ID. This parameter is required when ON is specified, is optional when MODIFY is specified, and is not allowed when OFF is specified.

# Examples

```
ADADBS REPLICATION FILE=33,ON,TARGET=206,KEY=AA
```

or

```
ADADBS REPLICATION FILE=70,OFF
```

or

```
ADADBS REPLICATION FILE=71,MODIFY
ADADBS ACTIVATE
```

or

```
ADADBS REPLICATION FILE=72,MODIFY
ADADBS DEACTIVATE
```