

# Quick Reference:

## Enterprise Replication

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This card lists some of the most frequently used commands for setting up, maintaining, and monitoring Enterprise Replication.

For full descriptions of all Enterprise Replication commands, see "The **cdr** Command-line Utility Reference" appendix in the *Enterprise Replication Guide*:  
<https://ibm.biz/BdXPWS>

Send comments or suggestions to  
[docinf@us.ibm.com](mailto:docinf@us.ibm.com).

### ► cdr define server

You define replication servers to create or add to a domain. A domain is the set of all replication servers that replicate data between each other. Run this command for each replication server.

**cdr define server --init** *server\_group*

**--init** *server\_group*  
Add this server to a replication domain.

#### Options

**--ats=ats\_dir**  
Set the directory for ATS files.

**--atsrisformat=format**  
Set the format of ATS and RIS files: **text** (default), **xml**, or **both**.

**--ris=ris\_dir**  
Set the directory for RIS files.

**--idle=timeout**  
Set idle timeout minutes, instead of no timeout (default).

**--sync=sync\_server**  
Define the server in the *sync\_server* domain instead of creating a new domain. Can take the following options to set *sync\_server* as the parent:

**--leaf**  
Make a leaf server.

**--nonroot**  
Make a nonroot server.

### ► cdr define template

You define templates to specify which tables to replicate and other properties that affect replication. Run this command once to create a replicate set that contains a replicate for every table you include in the template.

**cdr define template** *template\_name*  
**--conflict=rule** **--master=server\_group**  
**--database=database table\_list**

*template\_name*  
Define this template.

**--conflict=rule**  
Set the conflict resolution rule: **always**, **ignore**, **timestamp**, **deletewins**, or the name of an SPL routine.

**--master=server\_group**  
Replicate the database on this server.

**--database=database**  
Replicate this database.

*table\_list*  
Replicate these tables. Separate table names with blank spaces. Alternatives are **--all** and **--file=filename**.

#### Options

**--connect=server\_group**  
Run the command on this server.

**--all**  
Replicate all tables in the database. Alternative to *table\_list*.

**--anyUniqueKey**  
Automatically detect a replication key.

**--at=time**  
Replicate at this time instead of continuously. Can be a time every day, once a week, or once a month.

**--ats**  
Activate aborted transaction spooling.

**--every=interval**  
Replicate every interval instead of continuously. Can be a number of minutes or *hours:minutes*.

**--exclusive**  
Constrain replicates to one set.

**--file=filename**  
Replicate tables listed in this file. Separate tables names with blank spaces. Alternative to *table\_list*.

**--firetrigger**  
Fire triggers for replicated rows on target servers.

**--floatieee**  
Replicate floating-point numbers in IEEE format.

**--firetrigger**  
Fire triggers for replicated rows on target servers.

**--fullrow=n**  
Replicate only changed columns instead of full rows.

**--ignoredel=y**  
Retain deleted rows on target servers instead of deleting them.

**--ris**  
Activate row information spooling.

**--scope=row**  
Evaluate for conflicts by row instead of by transaction.

**--UTF8=n**  
Do not convert code sets.

### ► cdr realize template

You realize templates to start replication on the specified servers. Run this command once to start replicating. Run this command again if you need to add another replication server.

**cdr realize template** *template\_name*  
*server\_list*

*template\_name*  
Define this template.

*server\_list*  
Replicate between these servers. Can be prefixed with this option:

*database@*  
Replicate tables in this database.

#### Options

**--connect=server\_group**  
Run the command on this server.

**--applyasowner**  
Replicate transactions as the table owner instead of as user **informix**.

**--autocreate**  
Create missing replicated tables on target servers. Can take the following option:

**--dbspace=dbspace\_name**  
Create tables in this dbspace.

**--mode=mode**  
Restrict the replication mode for the servers: **send\_only** or **receive\_only**.

**--syncdatasource=server\_name**  
Synchronize data to this server. Can take the following options:

**--extratargetrows=policy**  
Handle extra rows on target servers: **delete** (default), **keep**, or **merge**.

**--foreground**  
Synchronize in the foreground.

**--memadjust=sizeK** or **sizeM**  
Increase the size of the send queue, in KB or MB.

**--verify**  
Verify databases on all target servers but do not realize the template.

### ► cdr modify server

You can modify the properties of replication servers.

**cdr modify server** *server\_group*

*server\_group*  
Modify this server.

#### Options

**--connect=server\_group**  
Run the command on this server.

**--ats=ats\_dir**  
Set the directory for ATS files.

**--atsrisformat=format**  
Set the format of ATS and RIS files: **text** (default), **xml**, or **both**.

**--idle=timeout**  
Set idle timeout minutes, instead of no timeout.

**--mode mode**  
Set the mode of the server: **primary**, **send\_only**, or **receive\_only**.

**--ris=ris\_dir**  
Set the directory for RIS files.

### ► cdr check replicateset

You can check the consistency of replicated data and repair inconsistencies.

**cdr check replicateset --master=data\_server**  
**--replset=replicateset\_name**  
*target\_server\_list*

**--master=data\_server**  
Check target servers against this server.

**--replset=replicaset\_name**

Check this replicate set.

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### Options

**--connect=server\_group**

Run the command on this server.

**--all**

Check all servers that participate in the replicate set. Alternative to *target\_server\_list*.

**--background**

Run the command in the background.

**--excludeTimeSeries**

Exclude time series elements.

**--firetrigger**

Fire triggers for replicated rows on target servers.

**--ignoreHiddenTSElements**

Exclude hidden time series elements.

**--inprogress=recheck\_time**

Recheck inconsistent rows that might be in progress after this number of seconds.

**--name=task\_name**

Monitor the progress of the command with this name.

**--nomaster**

Specify a consolidation model. Alternative to **--master**.

**--process=number**

Run command in parallel using this number of processes.

**--repair**

Repair the replicate set. Can take the following options:

**--allrepl**

Repair all replicates, even ones that are not in the replicate set.

**--enable**

Enable replication on disabled servers.

Can take the following option:

**--timeout=seconds**

Wait this number of seconds for disabled servers to become active.

**--extratargetrows=policy**

Handle extra rows on target servers: **delete** (default), **keep**, or **merge**.

**--timestamp**

Repair inconsistent rows based on the latest time stamps. Alternative to **--master**. Can take the following option:

**--deletewins**

Use the delete wins conflict resolution rule.

**--since=start\_time**

Start check at this time: *numberM* (minutes), *numberH* (hours), *numberD* (days), *numberW* (weeks), or "YYYY-MM-DD hh:mm:ss".

**--skipLOB**

Exclude large objects.

**--verbose**

Show detailed consistency report.

### ► cdr view

You can monitor the status of replication on all replication servers with the IBM OpenAdmin Tool for Informix (OAT), or with the following command.

#### cdr view options

##### options

One or more options, separated by blank spaces.

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### Options

**--connect=server\_group**

Run the command on this server.

**apply**

Display information about how data is applied and apply latency from each server.

**ats**

Display preview of text ATS files from each server.

**atsdir**

Display ATS file names from each server. Can take the following options, which are also valid for the **risdir** option:

**--check**

Check consistency based on ATS or RIS files.

**--repair**

Synchronize data based on ATS or RIS files. Alternative to **--check**. Can take the following options:

**--delete**

Delete ATS or RIS files after processing.

**--quiet**

Do not display repair operations to stderr.

**ddr**

Display the state, log positions, and proximity to transaction blocking for each server. Can take the following option:

**--logstage**

Display log staging statistics.

**nif**

Display information about network connections between servers and how many transactions are waiting to be transmitted.

**profile**

Display a summary of the state, data capture, data apply, errors, connectivity, queues, and the size of spooling files for each server.

**rcv**

Display receive statistics, including transaction failures and apply rate, for each server.

**--repeat=repeat\_interval**

Repeat the command after this number of seconds.

**risdir**

Display RIS file names. Alternative to and can take the same options as the **atsdir** option.

**sendq**

Display information about the send queues from each server.

**servers**

Display the state, connection status, and queue sizes for each server.

**state**

Display state of replication, data capture, network connections, and data apply for each server.

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