

# NDB - Steps Specific to TSO

This section describes how to install Natural for DB2 in a TSO environment:

- Using the File Server with VSAM
  - Sample JCL for Starting and Using Natural for DB2 under CAF
  - Sample JCL for Starting and Using Natural for DB2 under DSN
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## Using the File Server with VSAM

If you want to use the Natural File Server (VSAM), perform the following additional steps:

### Step 1: Modify NDBFSRV in NATTSO

Set the NDBFSRV parameter in the NATTSO macro to Yes and reassemble and relink your Natural/TSO interface NATTSO.

### Step 2: Define VSAM dataset for file server - Job I008, Step 1620

Specify the size and the name of the VSAM RRDS that is to be used as the file server (see also [Installing the File Server in Natural File Server for DB2](#)).

### Step 3: Format file server dataset - Job I075, Step 1620

Specify the five input parameters required to format the file server dataset (see also [Installing the File Server in Natural File Server for DB2](#)).

## Sample JCL for Starting and Using Natural for DB2 under CAF

To test the TSO installation of NDB under CAF, perform the following steps:

### Step 1: Adapt **CLIST** NDBCAF - Job I070, Step 240C

Change the library and program names in the **CLIST** NDBCAF to meet site requirements. If you do not use the file server, remove the ALLOC and FREE statements for CMFSERV.

### Step 2: Invoke Natural

Invoke Natural by executing the **CLIST** created in the previous step. Ensure that DB2 tables can be accessed and that plan switching can be performed.

Before the first SQL call you must call NATPLAN to explicitly allocate the plan. The plan name must be the same as the name used in [Step 4 - Create NDB plan \(Installation Procedure, Steps Common to all Environments???\)](#). NATPLAN can be edited to specify the appropriate DB2 subsystem ID.

## Sample JCL for Starting and Using Natural for DB2 under DSN

To test the TSO installation of NDB under DSN, perform the following steps:

**Step 1: Adapt [CLIST](#) NDBTSO - Job I070, Step 240B**

Change the subsystem ID as well as the library, plan and program names in the [CLIST](#) NDBTSO to meet site requirements. If you do not use the file server, remove the ALLOC and FREE statements for CMFSERV.

**Step 2: Invoke Natural**

Invoke Natural by executing the [CLIST](#) created in the previous step. Ensure that DB2 tables can be accessed. The plan name must be the same as the name used in the BIND step. For an explanation of the DSN and RUN commands, refer to the relevant [IBM literature](#) for DB2 TSO and batch users.