

Using SMA in Batch Mode

All System Maintenance Aid (SMA) direct commands (see section Direct Commands) are valid in batch mode. Batch execution may be useful when tapes or work files are used, or when large reports are printed.

The most important and useful commands for working with SMA in batch mode are `MODIFY PARAMETER`, `INSTALL` and `GENERATE`.

The JCL generator writes the generated JCL into the SMA database. When SMA is used in batch mode, the same JCL is also written into work file 2, so that it can be kept in normal operating system files.

In order to use SMA in batch mode, the user must start a batch Natural with the following CMSYNIN input:

```
LOGON SYSSMA1
MENU
<command> <value(s) for this command>
...           possible further commands
FIN
```

Each command and its values must be written in one line. Command and/or parameters may be separated by blank or comma.

In a sequence of commands, the `GENERATE` command must be the last command (see the example below).

Example Batch Input:

The following example shows a complete sequence of commands that can be used to install all products from an Software AG delivery tape.

Input to batch Natural CMSYNIN:

```
LOGON SYSSMA1
(1)  MENU
(2)  LOAD
(3)  SET ENV OS/MVS
      MODIFY PARAMETER LIB-GROUP SAGLIB
      MODIFY PARAMETER LIB-GROUP-UNIT 3380
      MODIFY PARAMETER LIB-GROUP-VOL SAGDSK
      SET-INSTALLED OS/MVS
(4)  COPY ENVIRONMENT OS/MVS PDEV Application Program
(5)  INSTALL ALL
      MODIFY PARAMETER SVC 249
      MODIFY PARAMETER DBID 25
(6)  DELETE JOBS
      GENERATE
      FIN
```

Explanation:

1. The SMA batch command processor is called.
2. Control information is loaded into SMA. This command requires that Natural work file 1 be assigned to the first dataset on an SMA product delivery tape.
3. The LIB-GROUP parameters are set to local standards in the default environment, and these parameter changes are committed immediately.
4. The default environment OS/MVS is copied to the new customer environment named PDEV. This new environment will be the environment for all subsequent commands.
5. All products known to SMA are marked as "to be installed", and two environment parameters are set.
6. JCL generation is called. Stored jobs of previous executions are deleted to ensure that generation will be running.