

Logical Condition Maintenance

This subsection covers the following topics:

- What Are Logical Conditions
 - Input Conditions
 - Output Conditions.
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What Are Logical Conditions?

Logical conditions are dependencies between jobs. They are defined using the logical conditions maintenance facility. A logical condition can be added, deleted or modified. Any number of logical conditions can be assigned to any one job. A logical condition can have either of two statuses that determine how Entire Operations is to continue processing: TRUE (condition exists) or FALSE (condition does not exist).

All conditions are identified by name and a reference date to allow the Entire Operations monitor to distinguish between the same event occurring on different dates. Dates can be specified as relative dates or explicit dates. All relative dates are converted to real dates when the job is put in the active queue. There are two ways of using logical conditions:

- As input conditions;
 - As output conditions.
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Input Conditions

Input conditions must be fulfilled before Entire Operations can submit an active job. In order to link two jobs, an input condition must also be defined as an output condition for the preceding job. An input condition can be fulfilled by a CPU event or manually by the user.

Input Condition Maintenance

```

20.11.01          *** ENTIRE OPERATIONS ***          14:20:58
Owner EXAMPLE          Input Conditions Maintenance          Job E05-J02-UR
Network +-----+
----- !
C Condi !          Master Input Condition Modification          ! er Rtn
m E05-U !
_ EX-1 !          Owner          ==> EXAMPLE_____          !
_ EX-2 !          Network          ==> E05-IOC-04          !
_ EX-3 !          Condition          ==> E05-UR01-NOK_____          Run ==> _____          !
_          Reference          ==> RUN_____          !
_          !          !          !          !          !
_          !          Usage (mark with Y or N)          !          !
_          !          Must Exist: Y   Exclusive: _   Destroy after usage: _          !          !
_          !          Depending on          !          !
***** !          User Routine          ==> _          Multiple Suffixes ==> _          ! *****
D Delet !          File Existence          ==> _          Mailbox          ==> _          !
          !          User Sw.(BS2000)          ==> _          Symbol Value          ==> _          !
          !          Job Var.(BS2000)          ==> _          !
Command !          !          !          !          !          !
          ! -PF1---PF2---PF3-----PF5-----PF9---PF10---PF12--          !
Enter-PF ! Help Add End Save Xref ScDep Menu ! F12---
He +-----+ enu

```

Apart from a name and reference date, the user can also assign a mailbox to a condition. Each user ID can also be associated with up to 10 mailboxes. Entire Operations will automatically notify each user of all pending conditions assigned to any mailboxes associated with his user ID.

The user can also further specify what status the condition should be in before the job can be submitted (TRUE or FALSE), whether this job must wait until the condition applies exclusively to it (e.g. to prevent parallel running of two or more jobs with the same input condition), and whether Entire Operations is to automatically reset the condition after job submission.

Before job submission, all input conditions defined for the job are checked automatically by the Entire Operations monitor. If you want the checking to be done by a Natural user routine this routine must also be specified in the input condition definition screen.

Output Conditions

Output conditions will be maintained automatically by the Entire Operations monitor if their associated events have occurred. In this case all jobs will be started which have these conditions as input conditions. Events and output conditions are defined within Entire Operations end-of-job checking (see the subsection End-of-Job Checking below).

```

20.11.01          *** ENTIRE OPERATIONS ***          14:26:01
Owner   EXAMPLE          End-Of-Job Checking + Actions   MVS/ESA   Job JOB-01
Network E60-FLOW          Run                           Date
-----
C Action          +-----+ OA
-                !                !
-                !   Job ended ok                ! k
-   P            !                ! k
-                !          Output Conditions
-                !   Cmd State  Condition Name  Reference  Run      !
-                !   _ Set      E60-JOB1-0      RUN        !
-                !   _ Set      E60-JOB2-02     RUN        !
-                !   _ Reset   E60-JO15-0     RUN        !
-                !   _ Reset   E60-JO19-0     RUN        !
-                !   _ Reset   E60-JOB1-0     RUN        ! ****
c  C  P          !   _                !
-   PRS         !   _                !
-----        !   _                !
A Activation    !   _                ! ther
P Descr. R Re  !   _                ! Rtn
-                !   D Delete  M Modify  W Where used
Command => ___ ! Enter-PF1---PF2---PF3---PF5-----PF7---PF8---PF12-
Enter-PF1---PF !   Help  Add   End   Save   Up   Down  Menu  ! 2---
Help  Ad +-----+ u

```

As in the case of input conditions, output conditions are defined by name and reference. Additionally, the user can specify whether the output condition is to be set (to TRUE) or reset (set to FALSE) when the associated event occurs.

Up to **20** output conditions can be associated with a single event.