

# Prerequisite Check

Entire Operations uses several procedures to reduce the effort involved for the logical prerequisites check. These procedures are transparent to the user. Nevertheless, they are to be explained below.

This subsection covers the following topics:

- Passive Wait
  - Prerequisite Check according to the Round Robin Procedure
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## Passive Wait

- Exceptions from Passive Wait
- Course During Passive Wait for Prerequisites and Resources

Active jobs waiting for one or several input conditions, resources or for the availability of an operating system server (node) are placed into a particular queue, which removes them temporarily from the active check carried out by the monitor.

Active jobs are **woken up** from the passive wait:

- during setup or deletion of active prerequisites at any location;
- during setup or deletion of resources at any location;
- after modification or deletion of definitions for input conditions and resources in active jobs;
- during monitor start;
- during change of the day;
- by explicit request in System Services Menu / Special Functions.

After a wake up, an active check of the prerequisites, resources and operating system server is carried out again. If the prerequisites required for job start are not met, then another passive wait can result out of this.

## Exceptions from Passive Wait

Please note that **no passive wait** can be carried out in the following cases:

- waiting for an input condition which depends upon the existence of a file;
- waiting for an input condition which depends upon the result of a user routine.

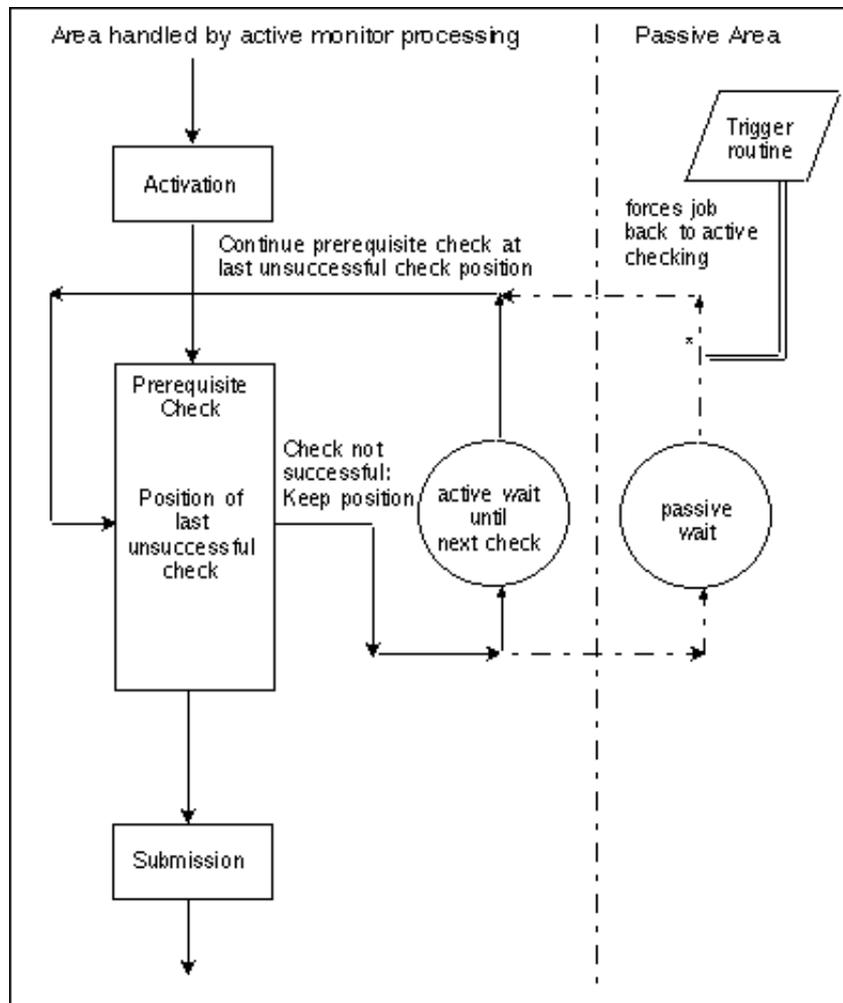
In these cases, Entire Operations **cannot** acknowledge on its own when such a job is to be placed again into the active wait. Therefore, in such a case, an active job is not placed into the passive wait.

Nevertheless, at least for part of the wait, a passive wait can also be carried out for these jobs, if, in parallel to the above mentioned cases, they are waiting for a **normal** prerequisite, which is set up as shortly as possible before job submission.

In other words: it is recommended to replace a wait for prerequisites with special dependencies by a wait for 'normal' prerequisites.

The following diagram shows the course during passive wait for prerequisites and resources.

## Course During Passive Wait for Prerequisites and Resources



## Prerequisite Check according to the Round Robin Procedure

If prerequisites and resources of an active job are actively checked, then the order of the job checks will be optimized dynamically.

For a follow-up check, the last unsuccessful check will be the starting point. This prevents successful checks from being redundantly repeated several times. It is guaranteed, however, that immediately before the job start release **all** input conditions and resources have been checked **together at one point in time**.

The following diagram shows the course of the Round-Robin-Procedure for the check of prerequisites and resources.

