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**Electronic document management —  
Vocabulary —**

**Part 2:  
Workflow management**

*Gestion de documents électroniques — Vocabulaire —*

*Partie 2: Gestion électronique de processus*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

The committee responsible for this document is ISO/TC 171, *Document management applications*, Subcommittee SC 3, *General issues*.

This first edition of ISO 12651-2 cancels and replaces the first edition of ISO 12651-1:1999 which has been technically revised.

ISO 12651 consists of the following parts, under the general title *Electronic document management — Vocabulary*:

- *Part 1: Electronic document imaging*
- *Part 2: Workflow management*

# Electronic document management — Vocabulary —

## Part 2: Workflow management

### 1 Scope

This part of ISO 12651 defines terms and concepts relevant to electronic document workflow management.

It is intended to facilitate communication in the field of electronic document management and translation of the terms and concepts it contains into other languages. It identifies the terminology used to describe the concepts and general structure of a workflow management system for electronic images and other electronic documents, its major functional components, and their interfaces. It also provides a list of synonyms variously used within the industry as alternative terms to the preferred terminology

### 2 Principles and rules followed

#### 2.1 Definition, formatting and organization of an entry

All terms and definitions in [Clause 3](#) meet the requirements of ISO 10241-1.

#### 2.2 Spelling

In the English language version of ISO 12651-2, terms, definitions, examples, and notes are given in the spelling preferred in the United Kingdom. Other correct spellings may be used without violating this International Standard.

### 3 Terms and definitions

#### 3.1 action

task that affects an electronic document or *folder* ([3.14](#))

EXAMPLE Updating an index value for an electronic document, modifying a form for user input, executing a script, moving electronic documents to the next step of a process, or performing a lookup to another system.

#### 3.2 activity

a piece of work that forms one logical *step* ([3.38](#))

#### 3.3 administrator

*workflow* ([3.46](#)) system user who has special privileges allowing various system set-up, control, and management functions to be performed

EXAMPLE set up and management of user names, passwords, and roles, assignment or re-assignment of work items, monitoring of work progress; or system audit functions.

#### 3.4 AND-join

join  
point within a *workflow* ([3.46](#)) where two or more parallel executing *steps* ([3.38](#)) converge into a single common thread of control

**3.5  
AND-split**  
split

point within a *workflow* (3.46) where a single thread of control splits into two or more parallel *steps* (3.38)

**3.6  
application data**

data that is application specific and not accessible by a *workflow management system* (3.52)

**3.7  
audit trail**

complete record of activities taking place within a *workflow* (3.46) or part thereof

EXAMPLE Date, time or type of work performed.

**3.8  
branch**

one of a set of parallel *steps* (3.38) within a *workflow* (3.46)

Note 1 to entry: Branches can be added to existing branches and merged with other branches.

**3.9  
conditional route**

route between two *steps* (3.38) within a *workflow* (3.46) that is followed only when certain conditions are met

**3.10  
constraint**

condition (typically pertaining to *activity* (3.2)) that must be met during work processing

**3.11  
deadline**

time based scheduling *constraint* (3.10) which requires that a certain *activity* (3.2) (or *work item* (3.58)) be completed by a certain time

Note 1 to entry: Activity scheduling by a workflow management system will attempt to meet deadline constraints set against particular activities. Escalation procedures may be invoked if deadlines are not met.

**3.12  
escalation**

procedure (automated or manual) which is invoked if a particular *constraint* (3.10) is not met

Note 1 to entry: Escalation procedures typically involve referring the issue to a level of management above the level that is currently addressing it.

**3.13  
event trigger**

condition [which may be internal or external to a *workflow management system* (3.52)] which causes that *workflow* (3.46) management software to take one or more *actions* (3.1)

**3.14  
folder**

container for electronic documents and folders

**3.15  
inbox**

*folder* (3.14) that contains electronic documents or work files assigned to a specific user

**3.16  
instance**

representation of a single enactment of a *process* (3.28), or *activity* (3.2) within a *process*, including its associated data

**3.17****invoked application**

*workflow* (3.46) application that is invoked by a *workflow management system* (3.52) to automate an *activity* (3.2), fully or in part, or to support a *workflow participant* (3.55) in processing a *work item* (3.58)

**3.18****iteration**

workflow loop

*workflow* (3.46) *activity* (3.2) cycle involving the repetitive execution of one (or more) workflow activity(s) until a condition is met

**3.19****life cycle**

*actions* (3.1) taken on an electronic document within a *workflow* (3.46)

Note 1 to entry: Electronic documents might exist in one or many life cycles at the same time, depending on the problem(s) being solved, the processes associated with the electronic document, and how they overlap.

**3.20****load balancing**

way to distribute work to specific user *queues* (3.34)

Note 1 to entry: Percentages, priority, sequence, index values, shortest list, and more complex rules can be applied to allocate electronic documents among individual users and groups of users to work on.

**3.21****manual activity**

manual step

*activity* (3.2) within a *process* (3.28) that is not capable of automation and hence lies outside the scope of a *workflow management system* (3.52)

Note 1 to entry: Such activities may be included within a process definition, for example to support modelling of the process, but do not form part of a resulting workflow.

**3.22****milestone****milestone step**

designated point within a *workflow* (3.46), used to track the progress of the workflow

**3.23****OR-join**

join

asynchronous join

point within a *workflow* (3.46) where two or more alternative *activity(ies)* (3.2) *workflow branches* (3.8)

re-converge to a single common activity as the next *step* (3.38) within the workflow

**3.24****OR-split**

conditional routing

branch

point within a *workflow* (3.46) where a single thread of control makes a decision upon which *branch* (3.8) to take when encountered with multiple branches

### 3.25

#### **parallel routing**

parallel workflow processing

concurrent processing

segment of a *process instance* (3.32) under enactment by a *workflow management system* (3.52), where two or more *activity(ies)* (3.2) are executed in parallel within a *workflow* (3.46), creating multiple threads of control

**EXAMPLE** Once a form filling activity is complete, the three sections of form X, sections A, B and C, are processed in parallel by the corresponding activities, Process Section A activity, Process Section B activity and Process Section C activity.

### 3.26

#### **pre-condition**

logical expression which may be evaluated by a *workflow engine* (3.50) to decide whether a *process instance* (3.32) or *activity* (3.2) within a process instance may be started

Note 1 to entry: One or more pre-conditions may be defined as entry criteria to a particular activity or process instance. The pre-condition may refer to an external event of some kind.

### 3.27

#### **post-condition**

logical expression which may be evaluated by a *workflow engine* (3.50) to decide whether a *process instance* (3.32) or *activity* (3.2) within a process instance is completed

Note 1 to entry: *Usage*: One or more post-conditions may be defined as completion criteria for a particular activity or process instance. The post-condition may refer to an external event of some kind.

### 3.28

#### **process**

model

formalised view of a business process, represented as a co-ordinated (parallel and/or serial) set of *activity(ies)* (3.2) and *steps* (3.38) that are connected in order to achieve a common goal

### 3.29

#### **process definition**

model definition

routing definition

workflow script

representation of a business process in a form which supports automated manipulation, such as modelling, or enactment by a *workflow management system* (3.52)

Note 1 to entry: The process definition consists of a network of activities and their relationships, criteria to indicate the start and termination of the process, and information about the individual activities, such as participants, associated IT applications and data.

### 3.30

#### **process definition mode**

#### **process modelling**

time period when manual and/or automated *workflow* (3.46) descriptions of a *process* (3.28) are defined and/or modified electronically

### 3.31

#### **process execution**

time period during which a *process* (3.46) is operational, with *process instances* (3.32) being created and managed



**3.32****process instance**

representation of a single execution of a *process* (3.28)

Note 1 to entry: A process instance is created, managed, and (eventually) terminated by a workflow management system. Each process instance is complete when a unit of work passes through the workflow management system (for example, the processing of one insurance claim, or the production of one engineering design).

**3.33****process role**

role

mechanism that associates *workflow participants* (3.55) to a collection of *workflow* (3.46) *activity(ies)* (3.2)

**3.34****queue**

defined *work folder* (3.57) where electronic document(s) await processing

Note 1 to entry: A queue assigned to a particular user is a user queue or an inbox.

**3.35****related documents**

electronic documents that share an index value or associated content with the main electronic document

Note 1 to entry: Some workflow actions take place on related electronic documents and not the electronic document.

**3.36****rule**

question that evaluates True or False, used to test whether a specific data condition is met to enable conditional programming

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**3.37****sequential routing**

serial routing

segment of a *process instance* (3.32) under enactment by a *workflow management system* (3.52), in which several *activity(s)* (3.2) are executed in sequence under a single thread of execution

Note 1 to entry: No AND-split, AND-join, OR-split, OR-join may occur during sequential routing.

**3.38****step**

stage within a *workflow* (3.46) where distinct, clearly defined *action* (3.1) is performed. A workflow consists of two or more steps

Note 1 to entry: Each step on a workflow map represents an activity or task in the process described by the map. A workflow consists of two or more steps.

**3.39****sub process**

*process* (3.28) that is enacted or called from another (initiating) process and which forms part of the overall (initiating) process

Note 1 to entry: Multiple levels of sub processes may be supported.

Note 2 to entry: A sub process is useful for defining reusable components within other processes. A sub-process will have its own process definition.