



## Final Deliverable

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Abstract This document provides the basic specifications which will be used in WP2 to WP5

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## Introduction

This document provides the basic specifications which will be used in WP2 to WP5. The work consists in determining the needs of companies in the short and mean term, in confirming that the prototypes set up are coming up to their expectations and in adjusting consequently the specifications if necessary.

### 1. Objective of the basic specification

The objectives of this task were to point out with the help of the industrial end user:

- The example of paper wiring diagram (CAD or not CAD generated) as base of the research.
- The ergonomic standard for targeted harness geographical plan.
- The envelope boundaries of the wiring and harness simulation
- To check every year the progress in research and adjust specifications accordingly

### 2. The harness plans

The constitution of "harness plans" is carried out for the manufacture of the harness and its assembly.

### 3. The electric files

An electric file is carried out for the modification of civil aircrafts, military and also for the construction of products of installation cabin. The electric file consists of one or more plans called still sheets, folios or boards. Among these plans appear the electric plans and the plans harness. Each plan is identified by a number expressed on 15 digits.

Index of the plan (alphabetical): a plan (and its associated nomenclature) diffused with a superior indication cancels and replaces its preceding diffusion.

A plan cannot have a superior indication than its nomenclature.

The plan of harness is thus concerned with this identification.

The plan of harness results thus from the electric plan.



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### 4. The nomenclature

There is a nomenclature by file.  
A nomenclature includes:

- The list of the equipment and the under-equipments,
- The list of the plans of wiring and harness,
- The card of evolution.

It be realized under “WORK MANAGER” software, starting from an Excel file given by the designer.

Some elements of the harness are not defined in the electric plans (sheath, sleeve, crimping, Etc...) but must be integrated in the list.

### 5. Particular case

The harness can belong to a WP (Workpackage).

It results from this the PN (Part Number) from the harness which will be then the number of the plan.

Various

The drawing should not comprise more than 75 % of the place available in order to allow of the good reading and possible modifications.

The vertical locations are to be avoided to allow a good reading.

Only one board will be used to define a harness.

### 6. Tools

The electric file is carried out under software AXIOMCAD, AUTOCAD, DRAW, CATIA...