CMRL Project

https://blog-gestion-de-projet.com/wp-content/uploads/2020/07/logo-blog2-293px-transparent.png

**Proof of concept protocol**

**Demonstrate your project**

**feasibility**

**PROOF OF CONCEPT**

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| **Name / Project Code** | **Project 1/ABC** | |
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| **Reference** | **Program PG01/Portfolio PF02** | |

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| **Version Control** |  |
| **Version** | **Owner** | **Description** | **Date** |
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## Define customer needs

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| **The expressed needs** |
| The specific needs of our client require a refactoring part of our software package to verify both the suitability of the proposed solution and its possible impact on our software for all of our other customers.  Our client wants to use our software to manage all their technical data, including computer-aided design data and the result of mechanical tests.  This type of file has not been processed so far, but we believe that this change can bring great benefits and increase sales of our software.  We want to demonstrate, through this proof of concept, that the integration of these new types of data will be without negative impact on the functionality of our product.  The proof of concept had to confirm three aspects:  • Transparent integration of new concepts  • No negative on all existing functions and features  • The added value of these changes for our product. |

## Client contribution

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| **Common working environment** |
| To start working on the proof of concept, it was important to set up a common team of client representatives and our selected developers.  Together, we have established the required elements and the rules to be applied, namely:   * The list of data types required * The processing rules for each type of data * Rules for handling errors and erroneous data * A sample of the input data * A detailed definition of the output data * The rules for verifying the data processing * An example of an output report |

## Detailed information

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| **To be used during the verifications of the concept and its results** |
| The information collected was:  1) List of data types required for this proof of concept   1. CAD file of approximately 20 entries 2. TEC file of around 20 entries   2) Processing rules for each of these data   1. The information of the 2 types of files must be able to be displayed without problem 2. The CAD file will be split into technical data and graphic data 3. The TEC file will contain an alphanumeric AKY distribution key of 6 characters 4. The TEC file will therefore be sorted according to this key   3) Rules for handling errors and erroneous data   1. The display of 20 entries of each type of file must be correct 2. A manual quality report will be established by the testers 3. The sorting of TEC files will be checked in detail 4. An input data counter will be compared to an output data counter 5. Any difference will be the subject of an error message 777 with an explanation 6. The data provided will be analyzed by internal and external representatives   4) A sample of the input data is attached in Annex X  5) A detailed definition of the output data is attached in appendix Y  6) Rules for verifying processed data   1. The data after processing will be analyzed and verified by the customer representative 2. This validation will be done in writing   7) An example of an output report is attached in appendix Z |

## Development environment

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| **Development rules** |
| Our developers design the data flow, new programs, and the onboarding process.  The approved data flow:   * + For this proof of concept, only CAD and TEC data will be processed   + A simple input-processing-output environment   Decisions are taken during the design phase:   * + A new type of screen will be required - the RAY 3000   + Input files will be treated separately   Information on data and software integration procedures:   * + Two different teams will be assigned   + A team of developers will validate the software integration   + Another internal team will test the non-regression of the existing functionalities in our software package.   + All results will be documented and attached as an appendix   Test and validation plan:   * + We believe that the reporting functionality will not be affected, that’s why these additional functions will be part of the prototype and not of the proof of concept   + Only the CAD and TEC processing functionalities will be validated here   + To avoid any negative impact on our productive software package, the proof of concept will be made on an isolated and unconnected copy of the production system   + The results of all tests will be communicated without delay to the project team so that they can confirm the final decision. |

## Implementation

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| **Who, what, how?** |
| Our Development department is responsible for the implementation and integration into our software package, as well as for the tests.  The technical department will provide us with an isolated environment that is identical to the production environment.  The head of the development team is Ms. Edcba. |

## Proof of concept results

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| **Describe here your observations on the results of the POC** |
| The result of our proof of concept is as follows:  **Integration of new concepts:**   * + The integration of new features was made without negative impact.   + The detailed team report is attached.   **Operation of all existing features:**   * + All existing features are available without exception.   + During testing, two errors were successfully corrected.   + A detailed report is attached to this protocol.   **Estimate of the added value of these changes for our product:**   * + We believe that the new functionalities can be useful for our current and future customers - especially research centers.   + These new possibilities may justify a slight price increase. |

## Delivery

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| **Description of product delivery and results** |
| Our proof of concept has been successfully developed and delivered:   * + The processing of the data sample was done transparently   + The results have been tested and the quality confirmed by both the internal team and customer representatives   + A summary P.O.C. report was communicated internally   + Knowledge transfer and detailed documentation will be provided when the minimum viable product (MVP) becomes available * The proof of concept have been made, this step is now closed, and the lessons of this exercise are documented in the appendix |

## Conclusions

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| **Conclusions and recommendations** |
| **The proof of concept is considered a success**  **Project 654321 can proceed to the next stages of execution** |

**Attachments: Appendices A to Z**