





LOG410 – Analyse de besoins et spécifications

Cours #11

Devis, exigences contractuelles

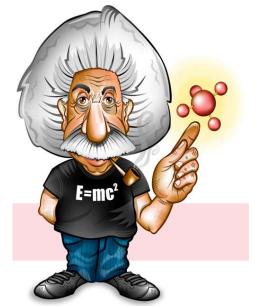
Enseignants: Alain Dion, ing. et Yves Durocher, ing.



N'oubliez pas les dernier Quiz!

- Quiz Moodle #4 Sera fermé vendredi soir!
- Quiz Moodle #5 Sera fermé la semaine prochaine!





Retour – Objectifs du cours

- L'étudiant devra:
 - Comprendre comment cerner le problème
 - Choisir et savoir utiliser la bonne technique d'explicitation afin de recueillir les besoins
 - Transposer les besoins du client en caractéristiques
 - Rédiger des exigences précises à partir des caractéristiques
 - Rédiger des récits utilisateurs
 - Comprendre et produire des exigences contractuelles!



Vidéo – Thermostat nest

- Il ne faut pas négliger les besoins nécessaires au développement de notre système!
- Il faut aussi s'assurer de bien supporter nos utilisateurs!
 - Excellent exemple du Thermostat intelligent nest
 - C'est essentiel!



Plan du cours



L'éthique en développement logiciel!

- Gestion des risques
- Processus d'acquisition de logiciel



L'éthique en développement logiciel!

Grande réflexion sur vos valeurs et vos limites!





The code I'm still ashamed of





Plan du cours

L'éthique en développement logiciel!

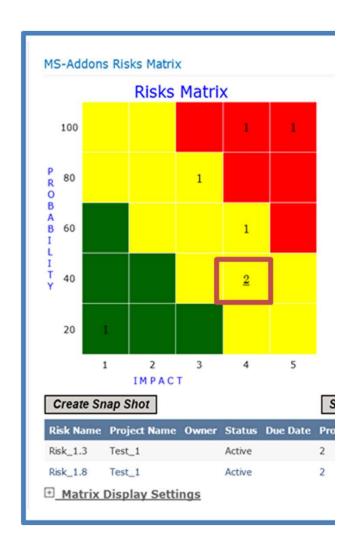


Gestion des risques

Processus d'acquisition de logiciel

Gestion des risques

- Qu'est-ce qu'un risque?
- Comment peut-on évaluer un risque?





Exemple – Grille de risques

Risk Item #	Category	Phase	Description	Probability	List of Impacts				Risk	Abattement plan	Contingency plan
					Cost	Schedule	Scope	Quality	score	GALLOW CONTRACTOR	
TR-001	Reliability	Both	Integration testing Customer's ability to define all the needed test conditions. Minimizing the level of activity required.	0,9	0,2	0,4	0,05	0,4	0,95	Add knowledge on testing specific application.	Increase vendor QA involment to help Customer to better play their integration testing role. Review the overall test cases prepared by the teams. Plan some code reviews on the XML Client. Increase the planned effort for the load tests. Extend the pilot test period to measure the overall stability.
TR-002	Performance	Both	Technical architecture focus The architecture was not designed to simplify the overall system operation, to increase stability and to address performance. Cost reduction drove many decisions.	0,8	0,05	0.4	0,1	0,6	0,92		Increase the load testing effort to detect any performance issues as soon as possible and modify the code to improve the results.
TR-003	Organizational	Both	Business Relationship Need for a high-level guidance on the project to address financials, contractuals and project management issues.	0,9	0,2	0,3	0,2	0,3	9,98	Setup of a Steering Committee, currently regular calls between Sam & Brian help to minimize the impacts.	Work session with vendor to establish the needed activities to reduce that risk.
TR-004	Reliability	Both	Limited Customer expertize available to operate the system Many key players will disappear at the end of the project (DBA, XML Client, etc.). This will leave limited knowledge to operate and fix problems after deployment.	0,9	0,1	0,1	0,05	0,4	0,59		All the parties should provide the needed content for the Operation Guide. Prepare a knowledge transfer activity, that includes a formal code review between Mike and vendor. Customer should do the same between Tom (DBA) and Telus.
TR-005	Technical	Both	New technology Unforeseen technological challenges surrounding the software, custom development of the application and the robustness of the hardware.	0,7	0,2	0,2	0,1	0,3	0,56		





Plan du cours

- L'éthique en développement logiciel!
- Gestion des risques



Processus d'acquisition de logiciel

IEEE Std 1062, 1998 Edition (Incluse EEE Std 1062, 1999)

IEEE Recommended Practice for Software Acquisition

Sponsor

Software Engineering Standards Committee of the IEEE Std 1062-1993 Approved 2 December 1993

IEEE Std 1062-1994 Approved Becomber 1993

IEEE Std 1062-1995 Approved Becomber 1998

BY the IEEE-St Standards Board

Abstract: A set of surell quality practices that can be selected and applied during one or more stops in a software acquisition process is described. This recommended practice can be applied to software that runs or any computer system regardies of the surell, completely, or forcially of the software acquisition process. In the software acquisition process, supplier

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Discussion – Acquisition logiciel

- Quelles différences existent entre la préparation des exigences pour le développement d'un logiciel versus l'acquisition d'une solution?
- Des idées?



Contrat

 Convention juridique par laquelle une ou plusieurs personnes s'engagent envers d'autres personnes à faire ou à ne pas faire quelque chose.

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Devis

 Description détaillée des pièces, des matériaux et des opérations nécessaires pour réaliser une production, une construction, une installation ou une réparation avec l'estimation des dépenses

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Terminologie - Appel d'offres

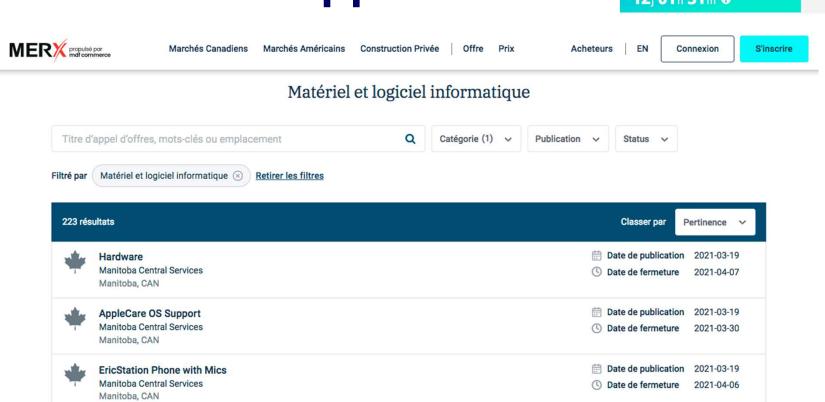
- Quelques éléments:
 - Appel d'offres, appel de propositions
 - RFP Request for proposals
 - Répondre à un appel d'offres nous engage, c'est un contrat!
 - Requête d'information / Demande de renseignements
 - > RFI Request for information













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Date de publication 2021-03-19

2021-03-26

(S) Date de fermeture

BGIS - PWGSC RP1

Outaouais, QC, CAN

Liquor Distribution Branch

Columbie Britannique, CAN

ITQ2021-03-26 Hardware Purchase

PDP3 - Transport Verticale mise en service par un agent indépendant

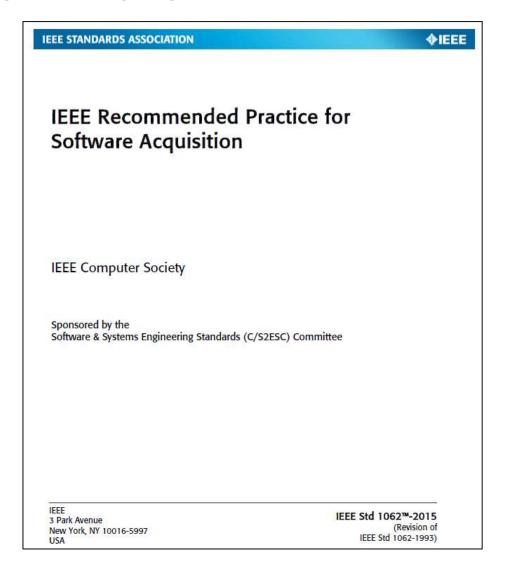
Request for Quotations Supply of Video Conferencing Equipment 21SASKPOLY04-07

Processus d'acquisition vue de très haut

- Définir le quelque chose (devis)
- 2. Trouver /sélectionner l'autre partie
- 3. S'entendre avec l'autre partie
- 4. Gérer l'entente
- 5. Terminer l'entente

Survol de IEEE 1062 – 2015!

- Nouvelle version
 - * Remplace 1062-1998





Identified Need Step 1. Planning the software acquisition strategy (5.3) Acquisition Strategy and Acquisition Plan documented Step 2. Defining the acquisition and software requirements (5.4)Software system requirements documented Step 3. Identifying potential suppliers (5.5) No potential suppliers Potential suppliers identified Step 4. Preparing contract requirements (5.6) No contract RFP published Step 5. Evaluating proposals and selecting the supplier (5.7)Contract negotiated Step 6. Managing for supplier performance (5.8) Software or service delivered Step 7. Accepting the software (5.9)Software or service accepted Step 8. Evaluating the process and identifying improvement opportunities (5.10)

Version 1062-1998

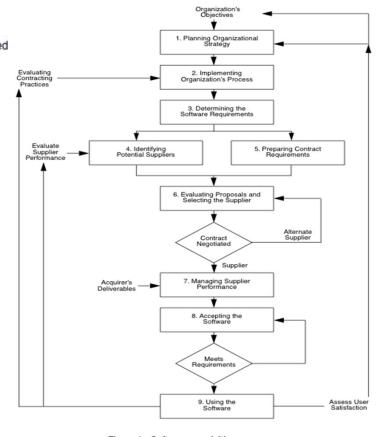


Figure 1 - Software acquisition process



Contenus de base

- Contexte
- Fonctions désirées
- Spécifications non fonctionnelles
 - ***** ...
- Contraintes
 - Environnement d'opérations
 - *****



Paramètres supplémentaires

- Coûts
- Conditions de livraison
- Support et maintenance
- Termes de la licence et propriété intellectuelle
- Formation
- Garanties
- Partage du risque
- **O** ...



Développement du devis

- Devis de base : presque équivalent au document de vision préliminaire
- Devis détaillé : presque équivalent au SRS

Exercice – Pratique du labo.

cooling 75

- En équipe de quatre ou cinq!
- Vous avez conçu le thermostat intelligent nest et vous rechercher un fournisseur qui le <u>fabriquera!</u>
- Produire:
 - Une grille de cinq critères de sélection
 - Un tableau des rôles et des responsabilités

Exemple:



Foxconn is the registered trade name of Hon Hai Precision Industry Company Ltd., the foremost provider of joint-design, joint-development, manufacturing, and assembly and after-sales services to global Computer, Communication and Consumer-electronics ("3C")



Basé sur la norme 1062-1998

5.3 Defining the software requirements

When defining the software requirements

- a) Define the software being acquired;
- Establish proposal evaluation standards;
- Establish acquirer and supplier obligations;
- d) Develop plans to evaluate and accept software and services;
- e) Develop contingency plans.





5.3.1 Define the software being acquired

The objective is to obtain from the supplier(s) realistic assessments of the size, scope, and cost of the effort required to produce the software.

The needed software, deliverables, and software support should be described as completely as possible in the RFP so that the supplier can understand and address the scope of work in the proposal. The example questions in Annex A, checklist 2, may be used as a starting point.

For fully developed software, IEEE Std 830-1998 should be used to document the requirements.

Depending upon the type of software being acquired, a request for quote or other acquisition document may be used in place of the RFP.





5.3.2 Establish proposal evaluation standards

The objective is to establish proposal evaluation criteria that ensures that the supplier most suited to do the work is selected.

An evaluation criteria should be developed to use in reviewing supplier proposals, identifying nonresponsive suppliers, and selecting a qualified supplier. The supplier's management qualifications, technical approach, quality assurance program, and proposed cost should be considered. The questions in Annex A, checklist 3, may be used.

A provision should be included in the RFP requiring inspections of supplier facilities to investigate and evaluate various factors, including financial position, technical capability, experience, and quality practices.



5.3.3 Establish acquirer and supplier obligations

The objective is to establish and clearly state the obligations of both the acquirer and the supplier. Annex A, checklist 4, may be used.

5.3.4 Develop plans to evaluate and accept software and services

Quality and maintenance plans should be developed to use in evaluating and accepting the software and services provided by the supplier. Annex A, checklist 5, may be used.

5.3.5 Develop contingency plans

Contingency plans should be developed to use in the event the supplier fails to satisfy contract requirements and the contract is then terminated. The complexity of the project and the risk in achieving the contract requirement should be considered.



critères

Multimedia Content Management System Request for Information - Instructions

Format

. The top of the RFI tab contains six response columns.

	RFI Rating Legend
Response	Explanation
Supported	Supported as delivered "out-of-the-box"
Config. Parameters	Supported via configurable parameters, without any code modification.
3rd Party	Supported via a third party solution
Customization	Supported through customization (changes to source code)
Future release	Will be supported in a future release
Not supported	Not supported

User Responses

The Weight column indicates the importance of each criteria.
 (the value vary from 0 to 10, 10 is used for most important ones)

RF	I Exa	amn	10
171		allip	ш

Vendor Responses Complete the RFI worksheet by placing an X in the appropriate column for each criteria. No X could be added within grayed cells. The Xs represent the current state of a product or service.	Hierarchy	Description	Weight - to + (0-10)	Supported	Config. paramet	3rd party	Customization	Future release	Not supported
•	1.2	Annual financials							
	1.2.1	Total annual revenue							
	1.2.2	Earnings before Interest & tax							
	1.2.3	Profit / Loss							
	1.2.4	Earnings per share							
	1.2.5	Total assets					j		
	1.2.6	R&D investments							
	2	Multimedia content creation							
	2,1	Ingest / import							
	2.1.1	Ability to ingest massive video tapes in various existing formats	8		Х				
	2.1.2	Live feeds capture	6				X		
	2.1.3	Import camera data (EXIF,)	10	X					\Box
	2.1.4	Editing projects import	7						Х
	2.1.5	Import content of external disk or over the WAN content	8						
	2.1.6	Ability to import CAD files	4			X			
	2.1.7	Batch mode support	10						Х



Liste de vérification de la 1062-2015

- Discussion:
 - Une fois le SRS défini, définissez à l'aide de la liste de vérification quels sont les éléments d'information additionnels qui sont nécessaires au devis?

La semaine prochaine – dernier cours!

Gr02

- Exigences Agile
- Outils de gestion des exigences

Gr01

Propriétés émergentes

Bonne semaine!

