

Aalto University
School of Science and Technology
Faculty of Information and Natural Sciences
Degree programme of Computer Science and Engineering

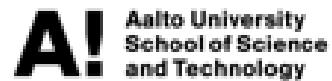
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Software Processes for Dummies: Re-inventing Wheel in Agile Organiza- tions

Master's Thesis
Espoo, June 18, 2008

!FIXME Printing date: 28 december 2009 FIXME!

Supervisor: Professor Antti Ylä-Jääski, Helsinki University of Technology
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ABSTRACT OF
MASTER'S THESIS

Author:	Stella Student		
Title of thesis:	Software Processes for Dummies:Re-inventing Wheel in Agile Organizations		
Date:	June 18, 2008	Pages:	9 + 3
Professorship:	Data Communications Software	Code:	T-110
Supervisor:	Professor Antti Ylä-Jääski		
Instructor(s):	Olli Ohjaaja M.Sc. (Tech.)		
!FIXME Abstract text goes here (and this is an example how to use fixme) FIXME! The beginning of the table will be on top of the page when the abstract has a page of text.			
Keywords:	keywords... .. more words ...		
Language:	English		

Aalto-universitetet
Tekniska högskolan
Fakulteten för informations- och naturvetenskaper
Utbildningsprogrammet för datorer

SAMMANDRAG AV
DIPLOMARBETET

Utfört av: Stella Student

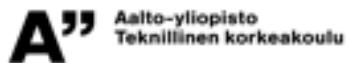
Arbetets namn:

Software Processes for Dummies: Re-inventing Wheel in Agile Organizations

Datum:	Den 18 Juni 2008	Sidantal: 9 + 3
Professur:	Datakommunikationsprogram	Kod: T-110
Övervakare:	Professor Antti Ylä-Jääski	
Handledare:	Diplomingenjör Olli Ohjaaja	

Å så ett abstrakt hit

Nyckelord:	nyckelord...
	.. å lite mera ...
Språk:	Engelska



Aalto-yliopisto
Teknillinen korkeakoulu
Informaatio- ja luonnontieteiden tiedekunta
Tietotekniikan koulutusohjelma

DIPLOMITYÖN
TIIVISTELMÄ

Tekijä:	Stella Student	
Työn nimi:	Software Processes for Dummies:Re-inventing Wheel in Agile Organizations	
Päiväys:	18. kesäkuuta 2008	Sivumäärä: 9 + 3
Professuuri:	Tietoliikenneohjelmistot	Koodi: T-110
Työn valvoja:	Professori Antti Ylä-Jääski	
Työn ohjaaja:	Diplomi-insinööri Olli Ohjaaja	
Tiivistelmätekstiä tähän		
Avainsanat:	... sanuja sanat jatkuvu...	
Kieli:	englanti	

Acknowledgements

Some thank yous

Espoo June 18th 2008

Stella Student

Abbreviations and Acronyms

2k/4k/8k mode	COFDM operation modes
3GPP	3rd Generation Partnership Project
ESP	Encapsulating Security Payload; An IPsec security protocol
FLUTE	The File Delivery over Unidirectional Transport protocol

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Chapter 1

Background

The IPDC Forum is an industry forum that investigates the business concepts based on the IP Datacasting technology. They describe IP Datacasting, or IPDC for short, in the following way:

In IP Datacasting any digital content can be delivered cost effectively over broadcast networks to large audiences at the same time. For consumers, this means more choice in accessing multimedia content and a likely increase in content possibilities.

IP Datacasting is a service where digital content formats, software applications, programming interfaces and multimedia services are combined through IP (Internet Protocol) with digital broadcasting. [2]

The way IP Datacasting is used can be divided into two rough categories:

- Downloading files or applications for later use, and
- Real-time streaming

The INDICA project uses a customer centric value chain model, based on a similar model laid out by the European Commission [1], to understand what parts an IPDC service consists of.

INDICA's value chain model is presented in Figure 1.1.

This chapter lays out the background of IP Datacasting. First, some usage scenarios illustrate what types of services IP Datacasting enable. Section ??

Figure 1.1: The INDICA two-layered value chain model.

describes the IPDC value chain, and Section ?? defines terms used in this thesis. Then, Section ?? describes the objective of this thesis, and Section ?? restricts the problem scope. Finally, the structure of the thesis is described in Section ??.

Physical channel	8 MHz (also 6 MHz or 7 MHz possible)
COFDM mode (number of subcarriers, subcarrier width, signal element length)	8k (6817, 1116 Hz, 896 μ s) or 2k (1705, 4464 Hz, 224 μ s)
Guard interval (8k/4k duration)	1/4 (224/56 μ s), 1/8 (112/28 μ s), 1/16 (56/14 μ s) or 1/32 (28/7 μ s)
Inner code rate	1/2, 2/3, 3/4, 5/6 or 7/8
Signal element constellation	QPSK, 16-QAM or 64-QAM

Table 1.1: The DVB-T transmission parameters.

Bibliography

- [1] EUROPEAN COMMISSION. Strategic Developments for the European Publishing Industry towards the Year 2000 - Europe's Multimedia Challenge, 1996.
- [2] IPDC FORUM. About IP Datacasting - Overview. WWW page of the IPDC Forum: <http://www.ipdc-forum.org/about/index.html>. Accessed 18 Feb 2004.