

Create an Anatomy for an ATM

Automated Teller Machine

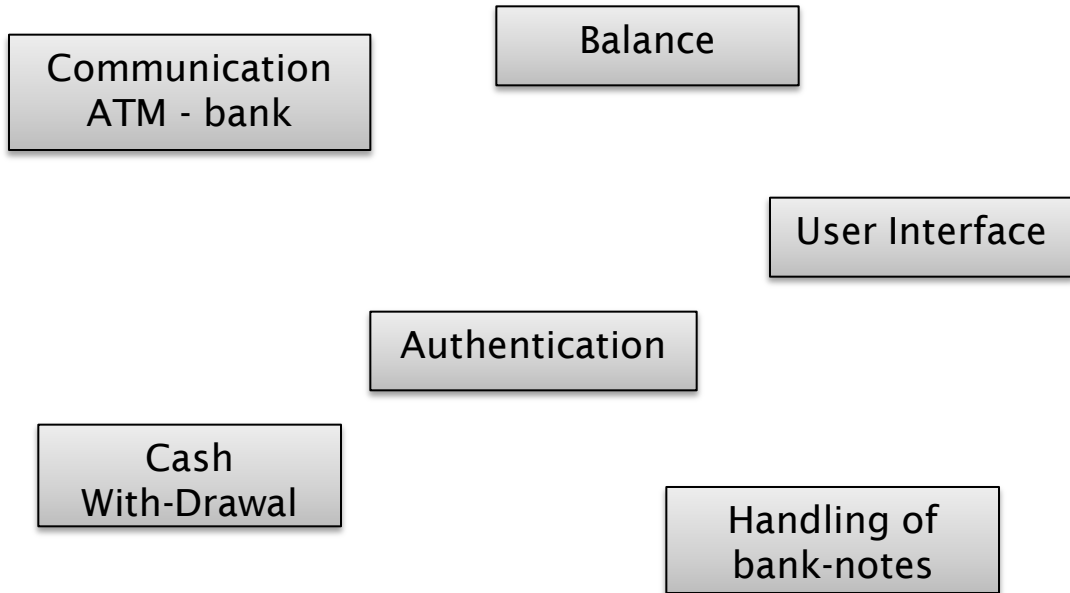
Commonly called an ATM. A computer program located in a kiosk allowing the user to conduct certain banking transaction.

Functionality:

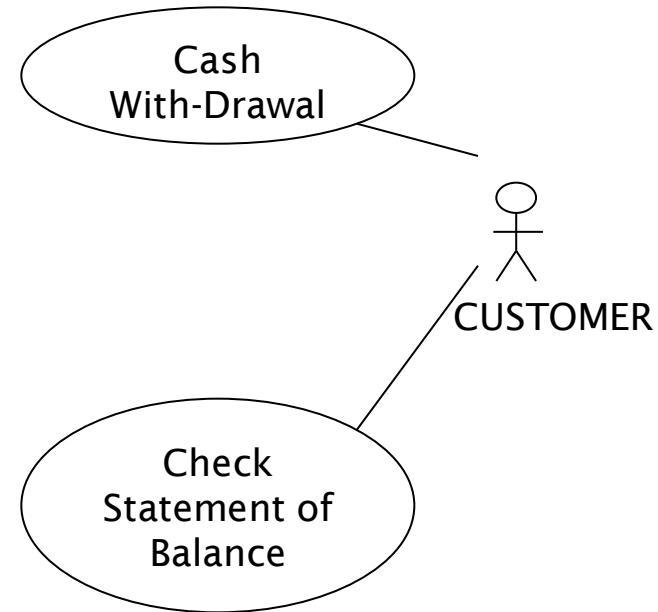
1. This ATM shall allow the user to withdraw cash and to check the balance of his/her account but only if the ATM card is OK and the PIN-code is correct.
2. Keep the ATM-card if wrong PIN is entered three times
3. A receipt shall be given for all transactions.
4. There shall be a possibility for the user to change his/her PIN-code.
5. If there are too few bank-notes left or the connection to the bank is lost, the ATM shall be automatically closed



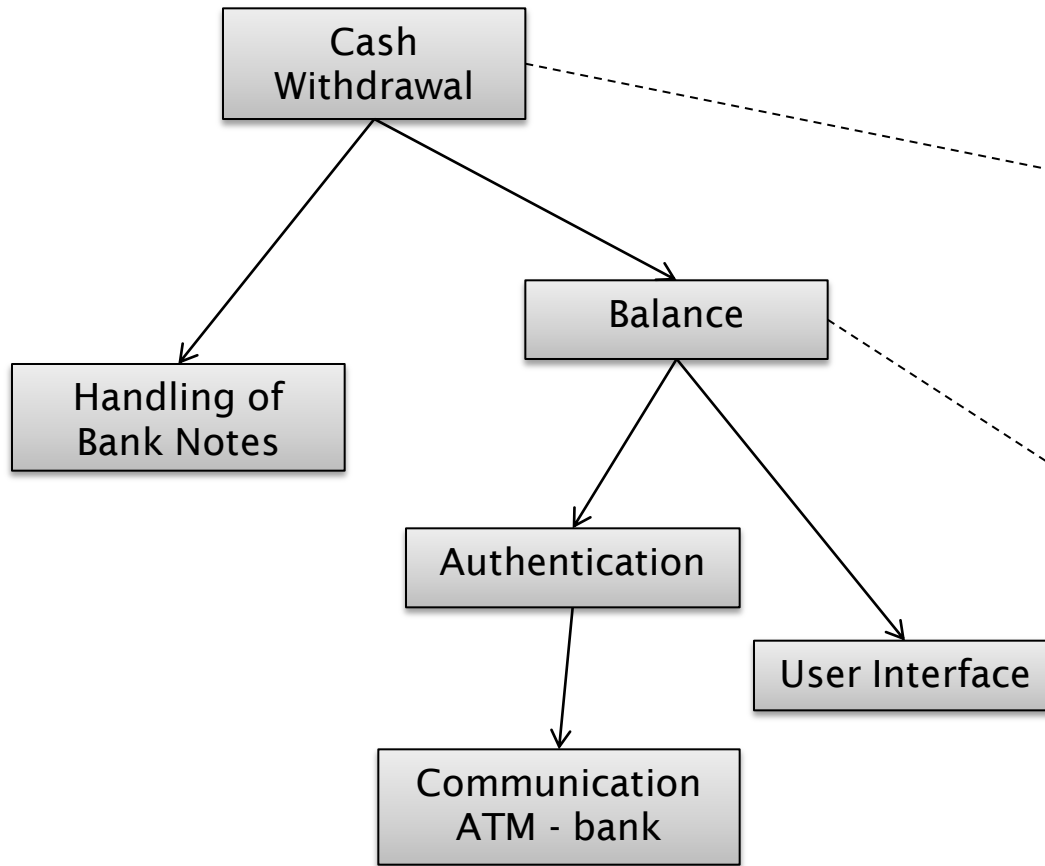
Functions



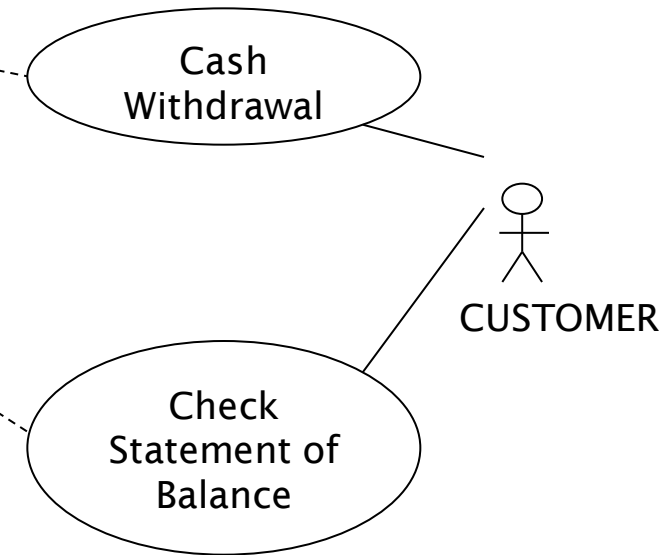
Use Case model

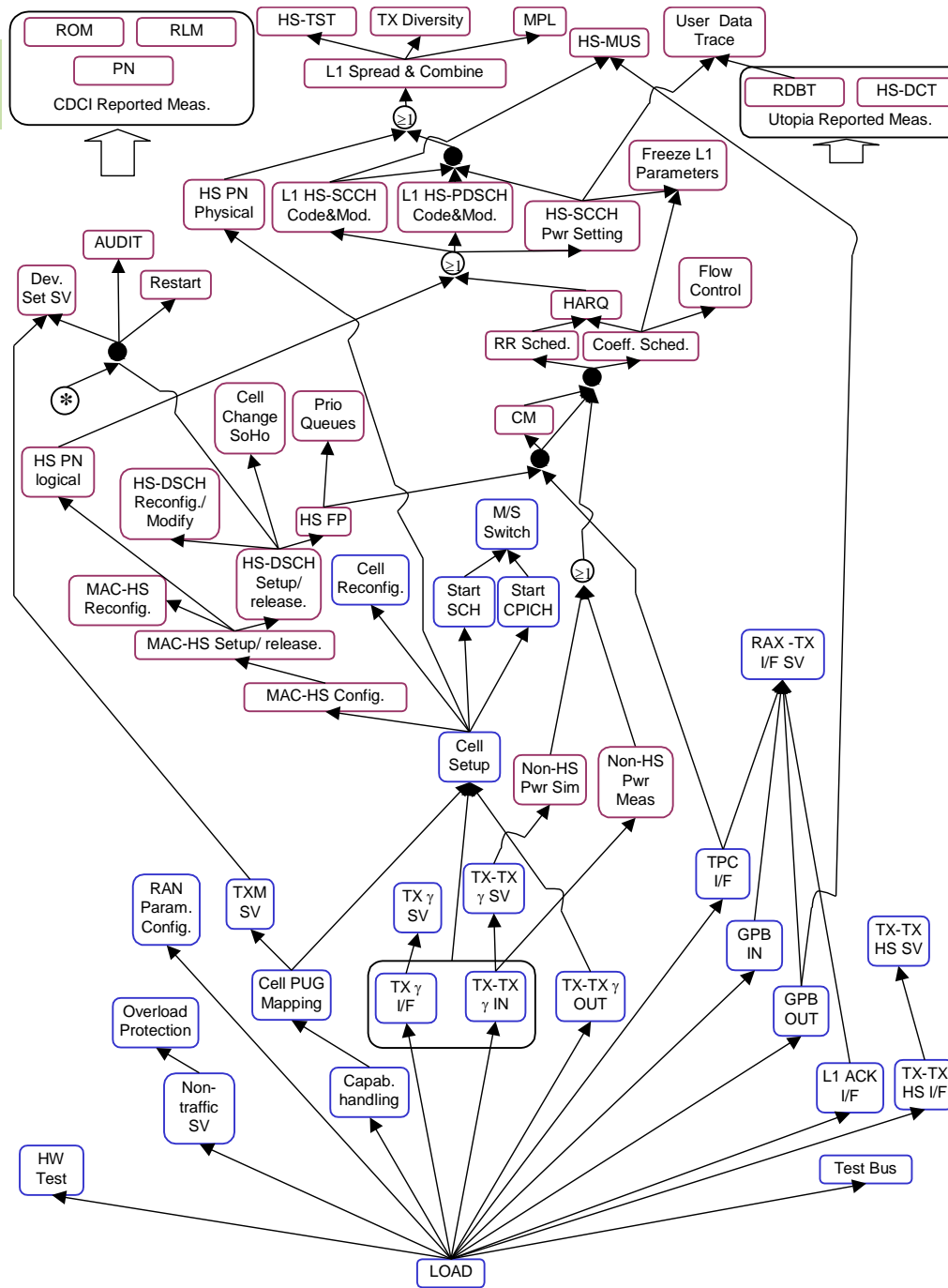


Anatomy



Use Case modell

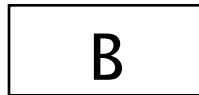




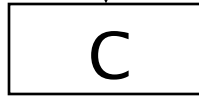
Notation



Function A



Function B is dependent on Function C



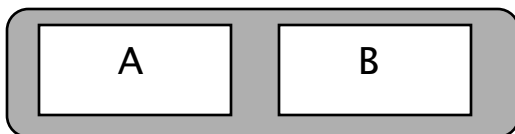
A dotted line shows a dependency to be investigated



AND-symbol



OR-symbol



Function A and Function B are dependent on each other

Program

9.30 – 9.45

Introduction

9.45 – 10.15

Step 1 a: Identify Functions (2 groups)

10.15 – 10.45

Step 1 b: Evaluate and Agree on Functions

10.45 – 11.00

Coffee Break

11.00 – 11.45

Step 2a: Produce one Anatomy per group

11.45 – 12.15

Step 2b: Merge the Anatomies

12.15 – 12.30

Summary

Step 1a: Identify functions

- Choose a level of abstraction not giving you more than 15 functions
- Create one Post-It per function
- Only use pens with a broad tip!

- Agree on what functional areas you have and then categorize all your functions based on this.

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Step 2a: Produce one Anatomy per Group

- Start working in parallel with the functions in the top and in the bottom of the Anatomy.
- Establish dependencies by drawing lines
- Ask yourself 1: Is this function possible to be fully tested provided that all functions it depends on are fully tested?
- Ask yourself 2: Are all Money-Making functions visible in the upper part of the Anatomy?

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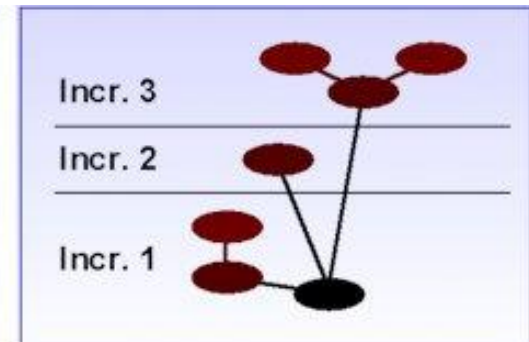
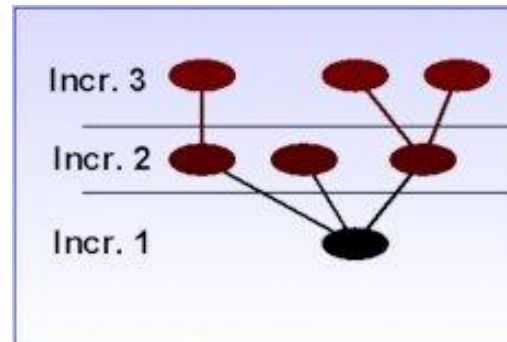
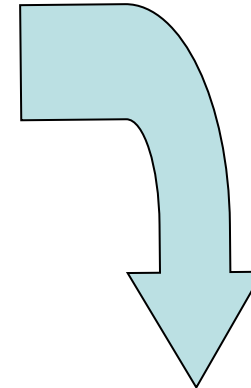
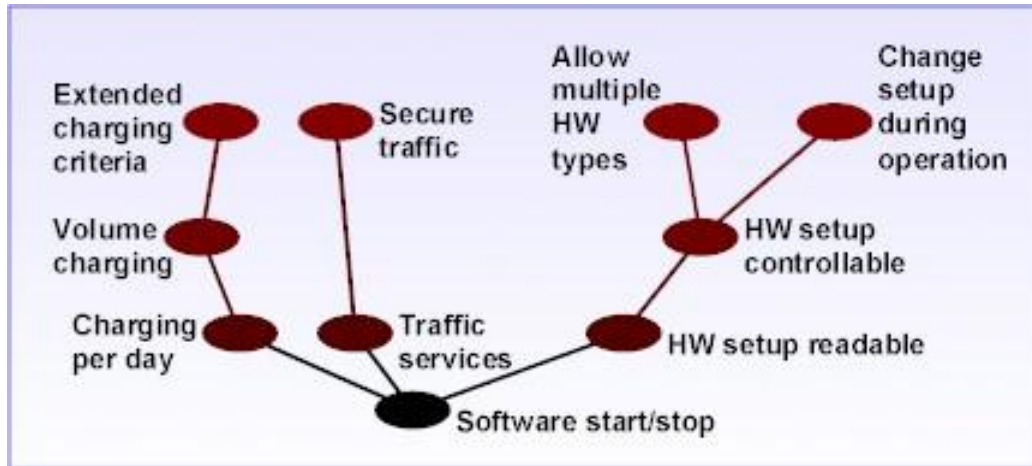
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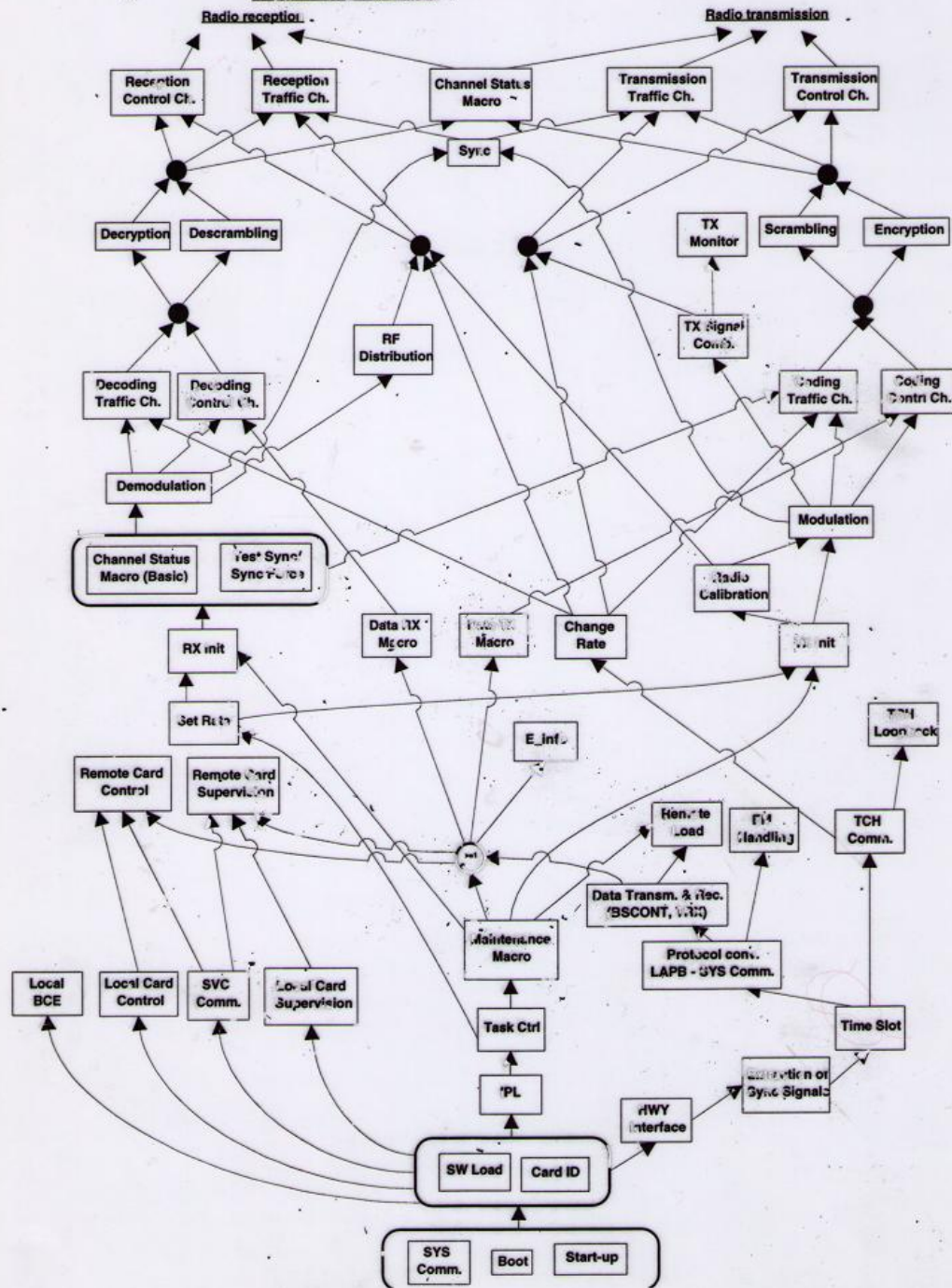
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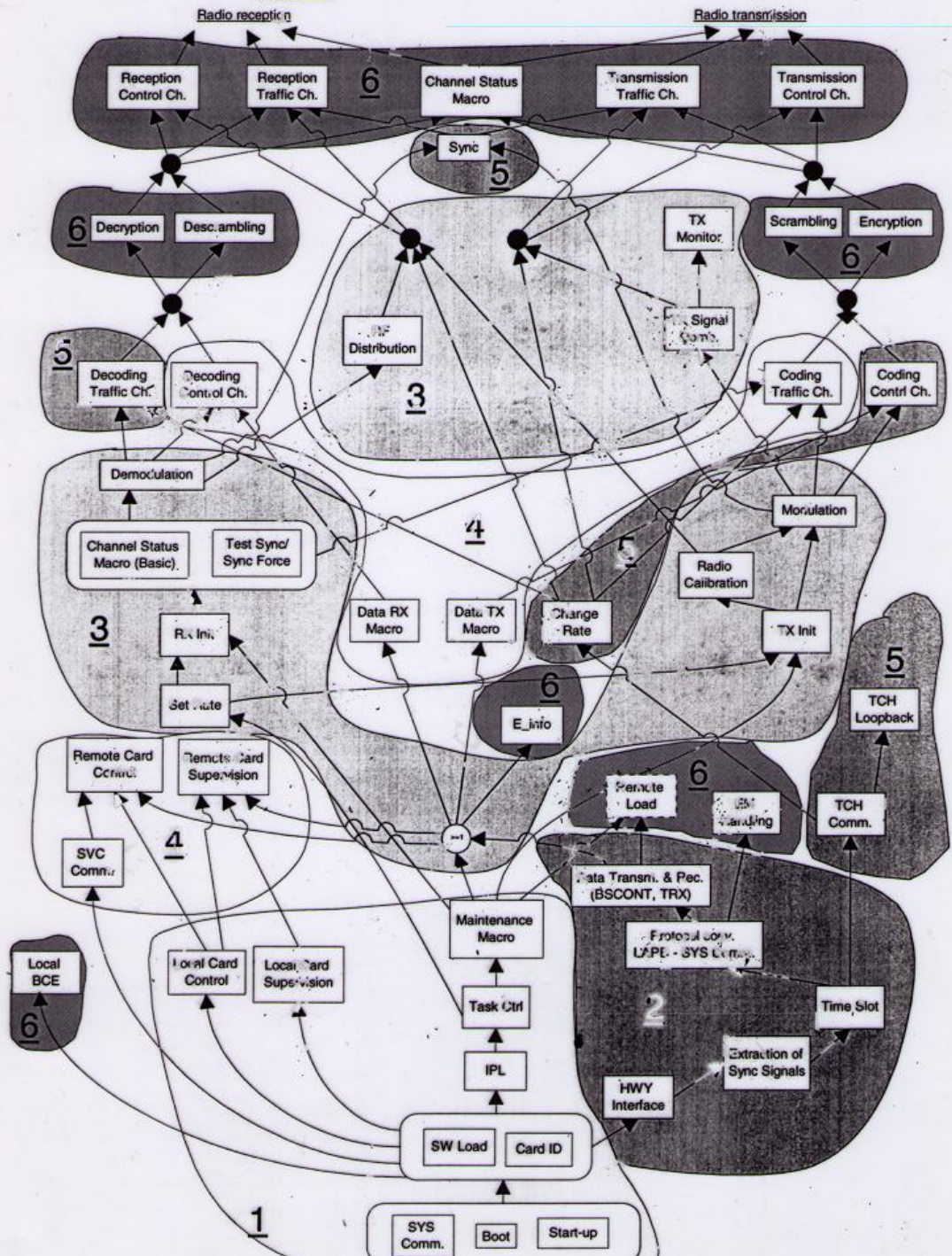


Next Step: From Anatomy to Integration Plan

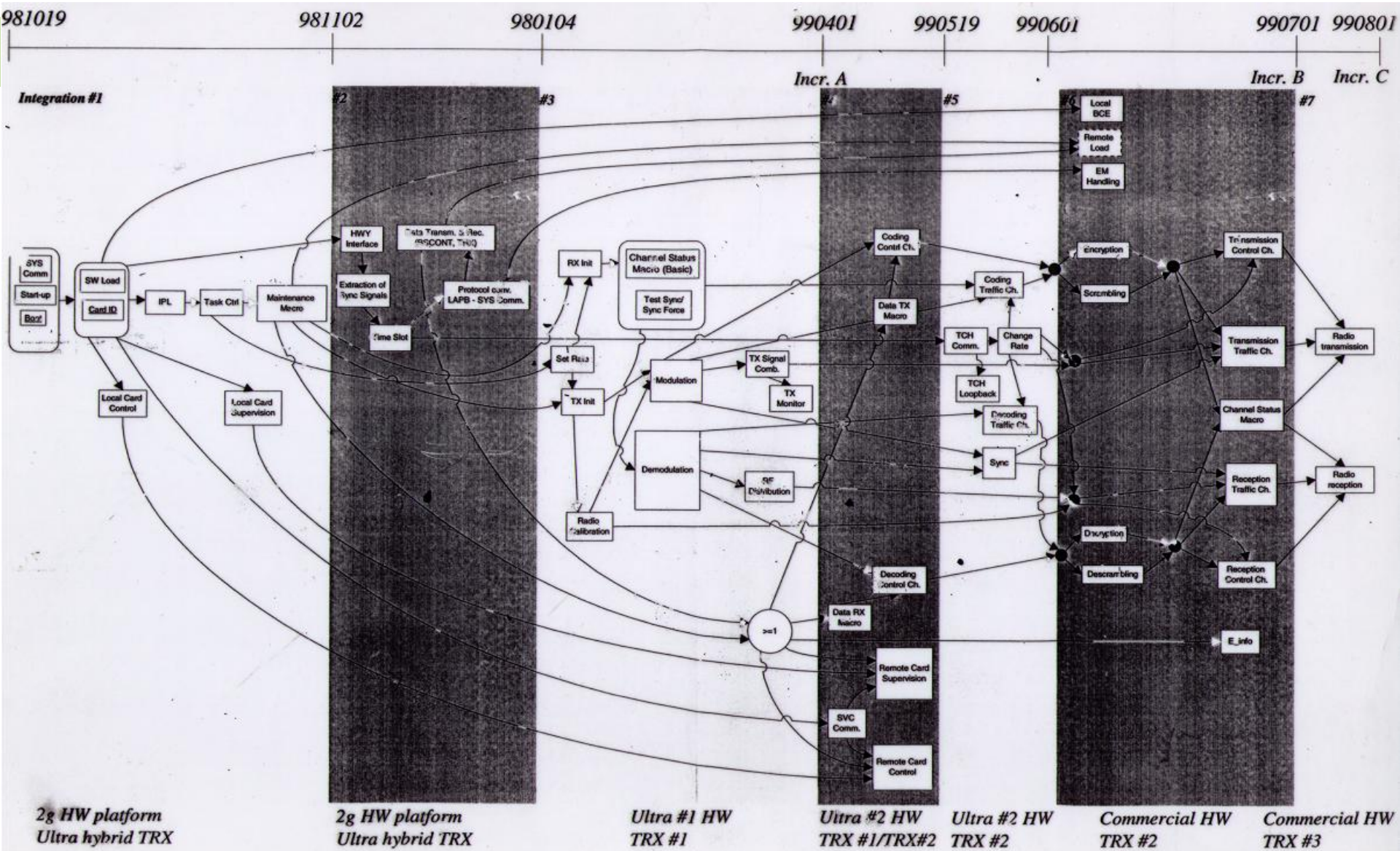


know it





know it



know it

New Book: The System Anatomy - Enabling Agile Project Management

Published by Studentlitteratur in April 2011

Authors from:

- Ericsson
- Saab AB

- KTH
- LiTH

- Find-out Technologies
- Sellegi

- Enreach
- Compelcon
- Know IT Technology Management

- Jack Järkvik

