The Best of Spanish Sessions in English

The core concepts of the Spanish track sessions presented in English

Lucio Gayosso, Hugo Rodriguez, Ramon Castillo, and Eric Giron

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CM WebClient
Success Story. Packages and Envelopes Tracking System

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- Systems Engineer
- Systems developer with many years of experience
- 2E since1990.
- Plex since 1994, Lava Member 104. Generating systems for iSeries (AS400), Windows Server, and Java.
- Development of Banking, Financial, Hospital and Production
- CM WebClient since 2012
- President for ASETIC (Association of Companies for Technologies, Inovation, and Communications in Honduras

Introduction

Situation:

“We have a customer who requests a Shipping System”

“Can you build a system like UPS?”

Background

- The customer will sign a contract to manage and distribute shipping orders
- Customer doesn’t have the contract yet for this in all the country with a banking entity
- Customer doesn’t know what technology to utilize
- It is expected to have over 10,000 orders / month
- Customer doesn’t have any internal IT staff

Applied Technology

- CA Plex
- CM WebClient
- Cellular Technology
- Barcode Printers
- Data Collectors (Cells)
- Data Base

CA Plex and CM WebClient

- A team was formed with the end users to design the solution
- The system was analyzed and defined together with the end users, asimilating their knowledge of the environment. SODISA defined the last implementation detail
- Customer could see results almost immediately. They requested changes and improvements ‘on the fly’
- The solution was designed as team, independent from technology and without programers dictating the implementation

Benefits

- Shipping Orders control in real time
- Order status at each step of the process
- Cost control for each distribution center and cost center
- Final validation for internal security norms performed by the customer
- Solid Platform, reliable and with unlimited growth posibilities
- Both Web and Mobile platforms from one single CA PLEX Model

Results

- Shipping System for orders, envelopes, and packages

Conclusions

- Using a tool like CM WebClient allowed achieving implementation in just 4 months
- Interacting with the users in the conceptual design allowed them to quickly own their product and helped them feel it was their design efforts
- Support and commitment from Management was critical to obtain the expected results
- 100% code generation through CA PLEX, CM WebClient and Crystal Reports

More Information?

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2E to CA Plex Migration

CM WebClient

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Ramon Castillo

- Systems Engineer
- Systems Developer with many years of experience
- Plex developer since 2011.
- Windows Server development using MS SQL.
- Financial, Education, and Agricultural Production Systems development
- CM WebClient since 2014

Introduction

Migration proyect developed in 2 phases:

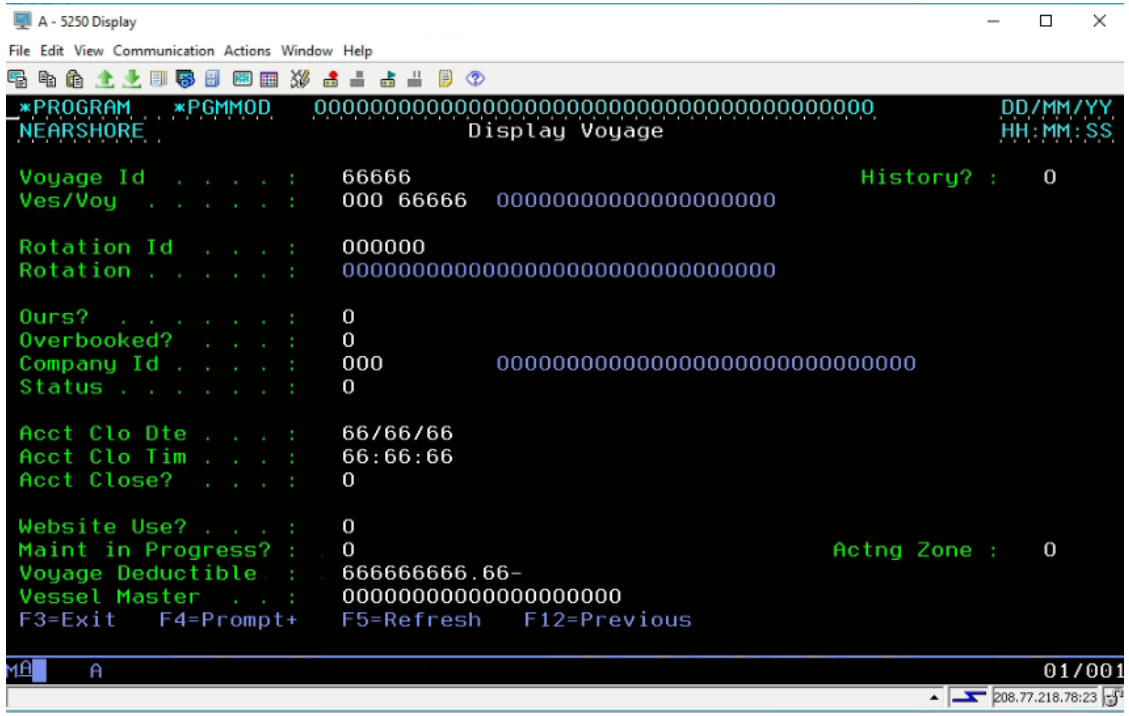
1. CA Plex Grouping of Fields and Adjustments
2. Responsive Scaling

A team of developers was asigned the review and correction of problems encountered during the migration process of a proyect based on the AS400 to target CA PLEX with WebClient

Worked Cases

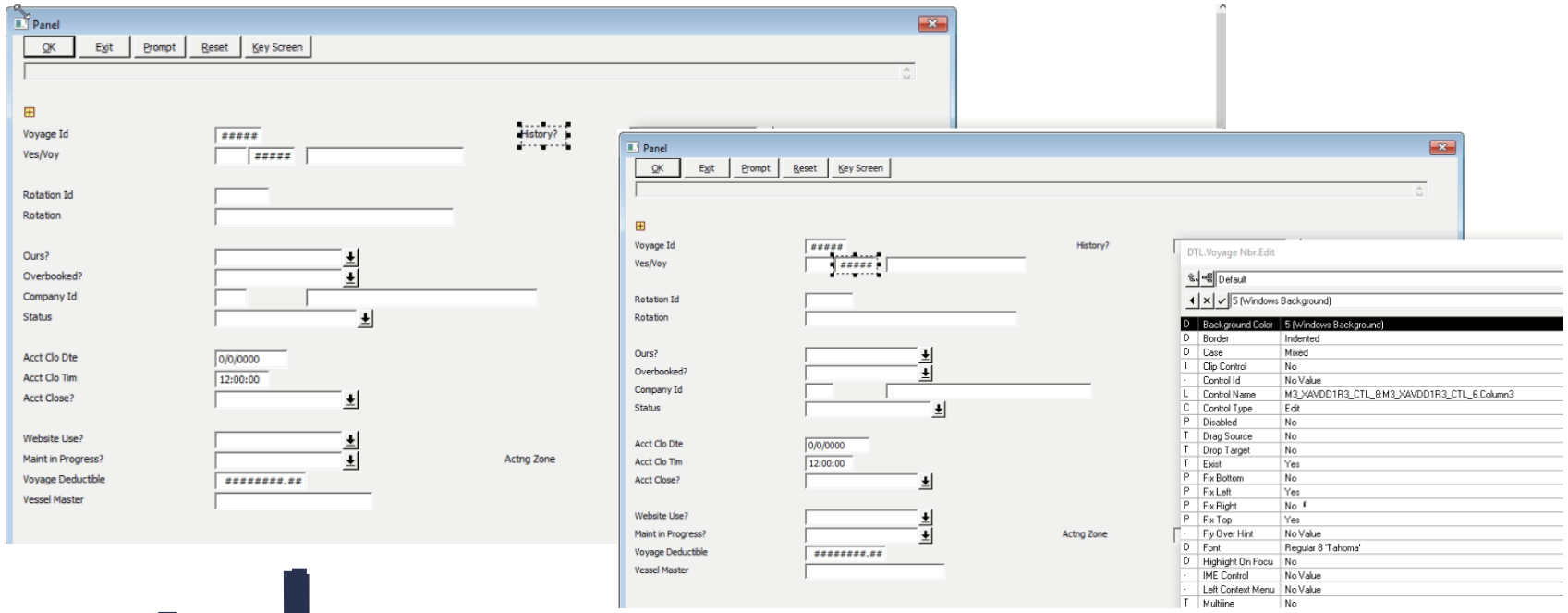
CA Plex Grouping Fields and Adjustments

- Definition: In Detail type functions the fields' position and labels were reviewed ensuring they didn't show distorted on the panel design.



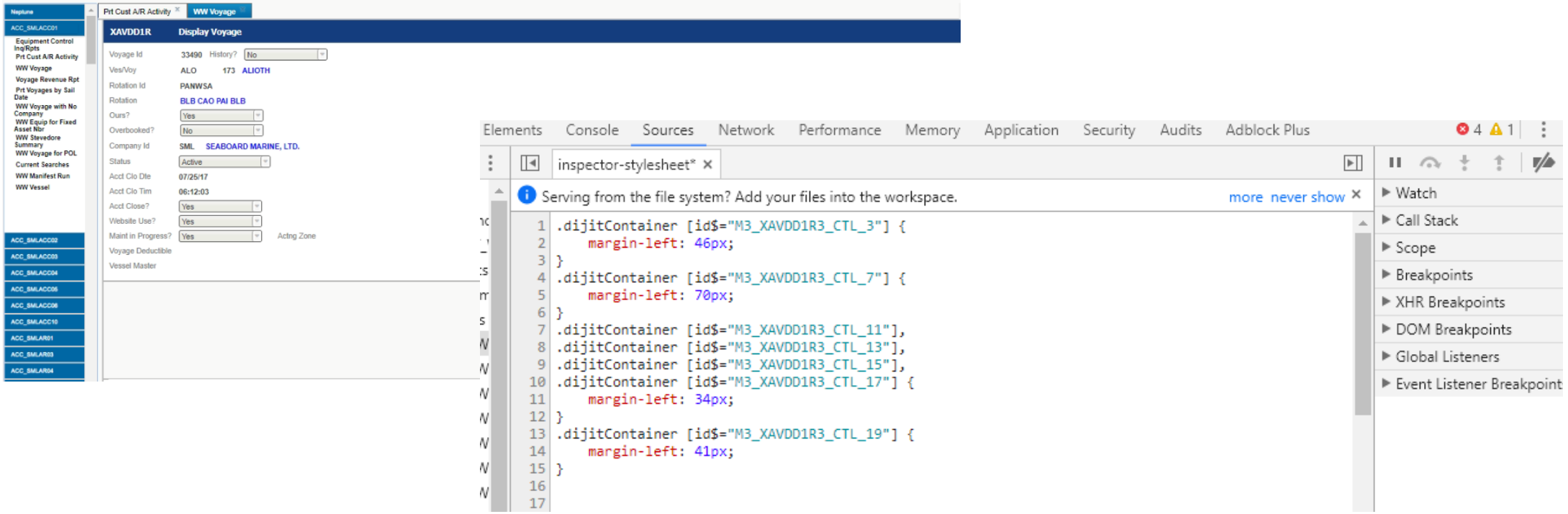
CA Plex Fields Grouping and Adjustments

- Solution: The Control Name was updated to specify the table or column number for each field



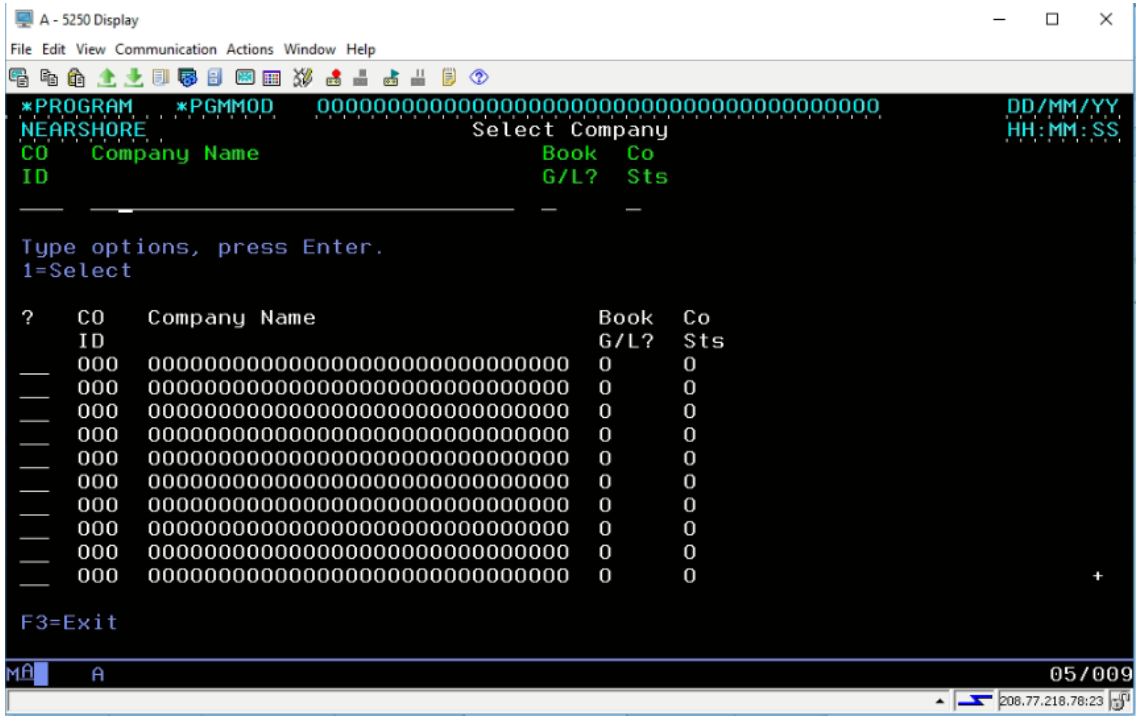
CA Plex Fields Grouping and Adjustments

- Results:



Grid Filters

- Definition: This was a review on certain panels where the fields in the detail región were considered as grid filters



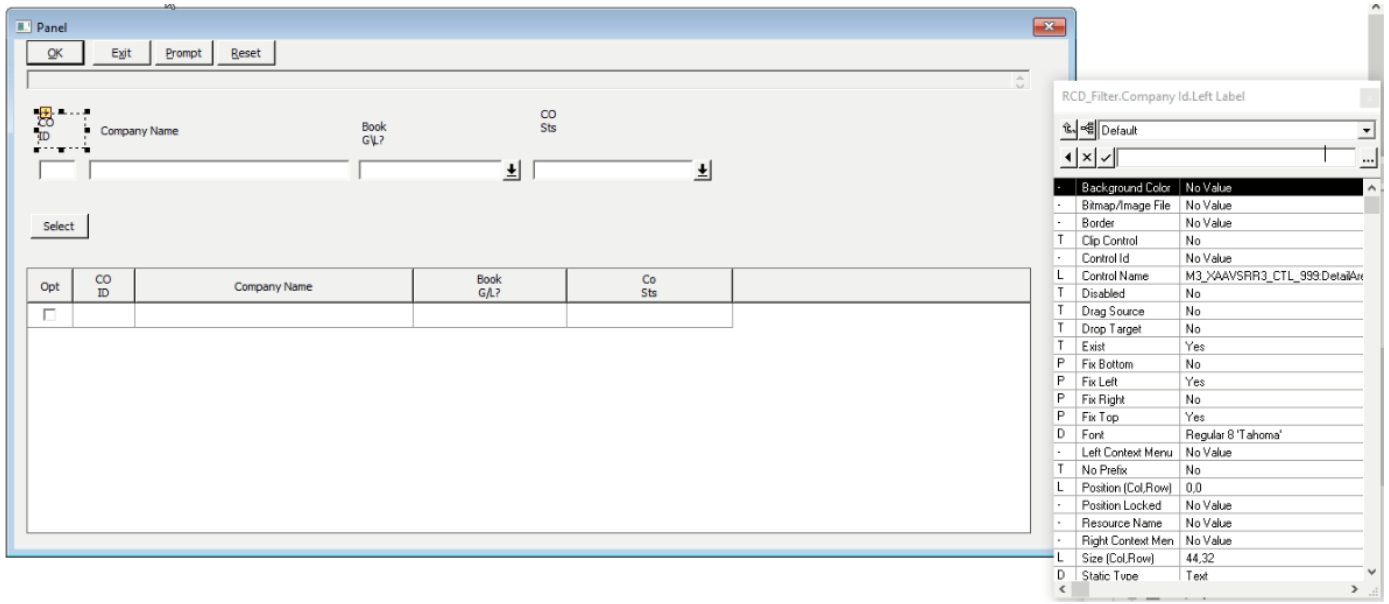
Grid Filters

- Solution:

1. Add label and place the fields in the right position
2. Change Control Name adding a Table and Column
3. Removed filter reference

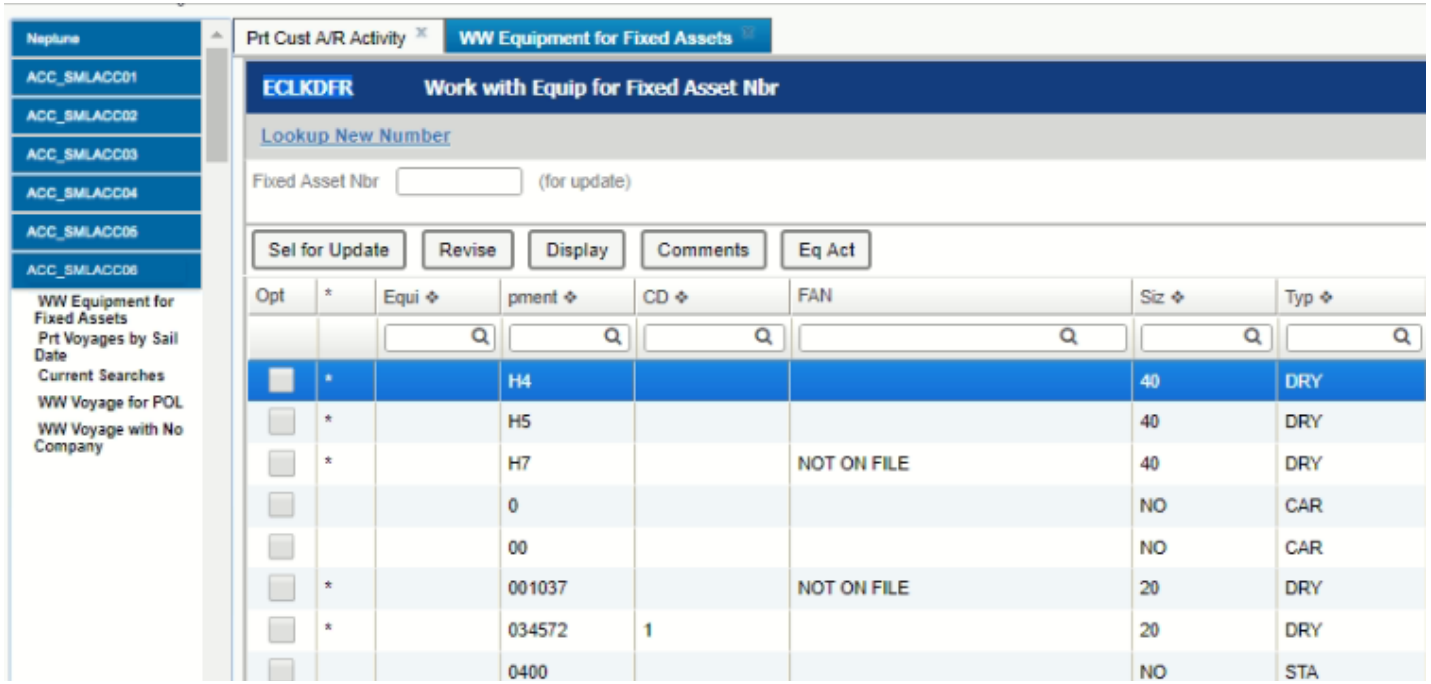
Control Name Structure

- Function Name (XAAVSRR3)
- Region and label numbering (CTL_999)
- Region and table numbering (DetailAreaTable1)
- Column Number (Column1)



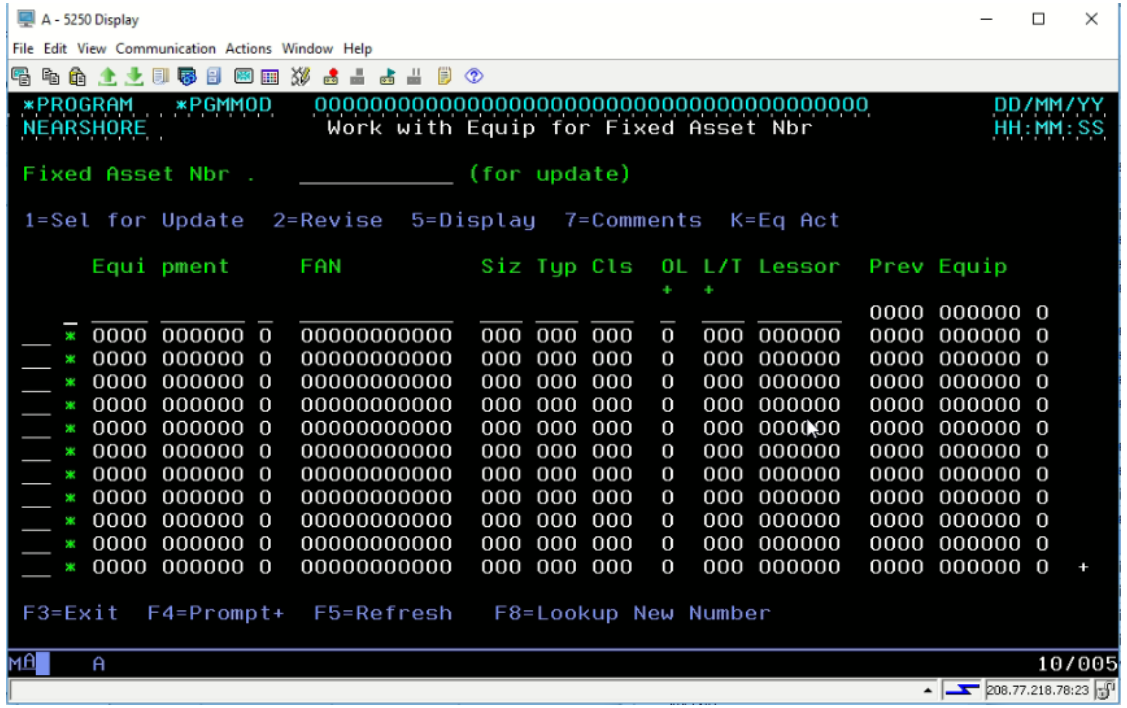
Grid Filters

- Results:



Columns Headings

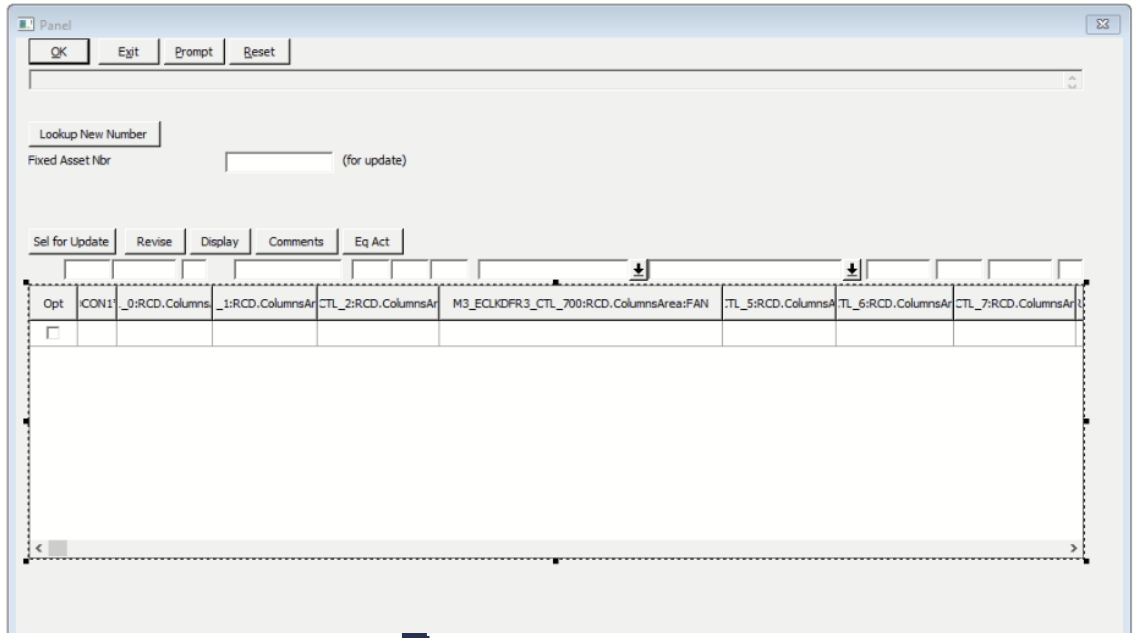
- Definition: This was the review of the grids as on ocassions the columns headings were distorted:

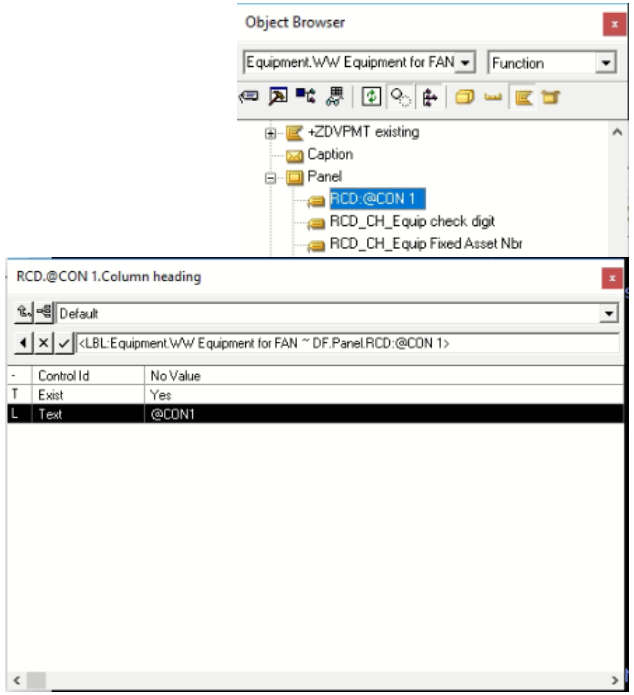


Columns Headings

- Solution:

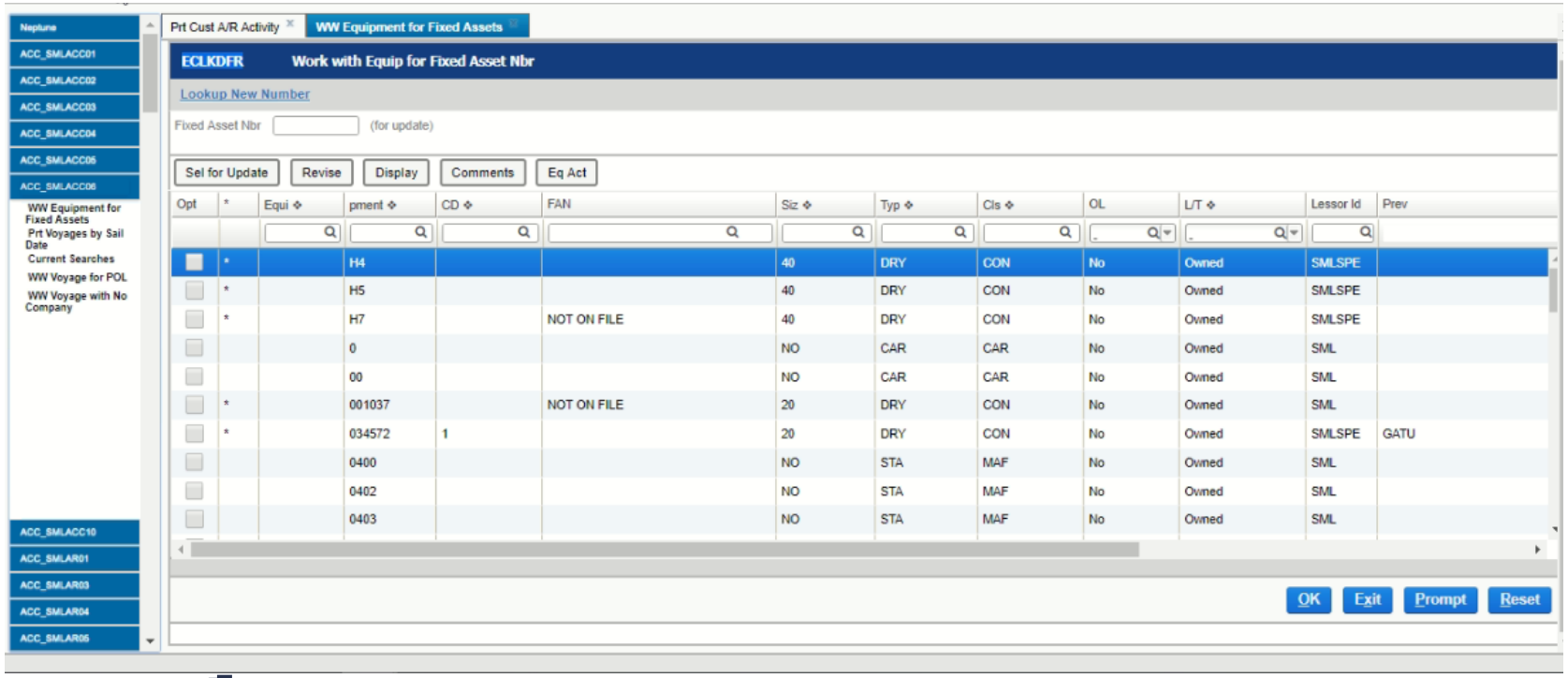
1. To avoid confllicts when updating Group Models the label was directly defined in the panel and and the Literal value was set to the name that was expected :





Columns Headings

- Results



Conclusions

- Proyect duration:120 days (6 months)
- Required learning curve:
  - ✓ Ca Plex ..... 40% - 65%
  - ✓ Manejo de CSS ..... 40% - 60%
- Allowed better management and properties definition for controles utilized in 2E Applications.
- The web Migatrion Process automates the coding of PLEX subroutines and in the majority of the cases the migration is satisfactory

More Information?

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Matchpoint & DevOps

ca technologies

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Key Features

Key Features

- CM MatchPoint is the premier CM (change management) product for Plex.
- Written in Plex so therefore has a GUI (graphical user interface) environment.
- Change Request Management
  - Provides information about the activities associated with each change request so you can understand and manage dependencies.
- Built In Workflow
  - Get immediate value from purpose designed workflows that also support user defined processes.

Key Features

- Scheduled deployments
  - Production changes are automatically deployed to production systems.
- Project Information
  - Reporting based on projects includes information about cost., team memebers, timelines and timesheets, which facilitates billing.
- Customer Information
  - Assign customers to change requests to enable reporting and chargeback.

Add-On Products

Add-On Products

- Automated Import Modules
  - Helps select objects that need to be deployed together. Select from an object database, enter manually, or import from modules designed for specific systems. CA Plex, Microsoft Windows, IBM i, or Subversion.
- ISV Module
  - Helps development teams enable extended management of customer environments, including direct deployment of releases and objects to each customer.

Add-On Products

- Object Source Analyzer
  - Ensures that the change dates on objects and source code are in sync.
- Source Code Module for IBM i.
  - Provides version control for source code on the IBM i system.
- Library Sync for IBM i.
  - Compares and synchronizes libraries on different IBM i systems for object differences.
- Cross Reference Browser for IBM i.
  - Displays program and file references for a specified IBM i object.

Add-On Products

- Model Manager for CA Plex
  - Integrates the CA Plex model administration process into the automated software change management process.
- Model Translator for CA Plex
  - Enables faster and more accurate translations of CA Plex supported lanaguages.

MatchPoint *5.5*

MatchPoint 5.5

- MatchPoint 5.5 is the first release that the CM First Austin office is responsible for.
- Major bug fix release.
- Focus was on outstanding reported bugs & performance improvements.
- Also the first release to separate help information to be specific to the MatchPoint version.
- All future versions of MatchPoint will have their own section of online help.
- No major user interface changes.

MatchPoint 6.1

MatchPoint 6.1

- MatchPoint 6.1 provides a very signigent enhancement to the MatchPoint product.
- We have introduced the inclusion of subversion into the model manager to help manage your group & your local models.
- MatchPoint will now automatically checkout from a subversion repository, and also update a subversion copy of the group model when you update your local group model.
- MatchPoint can also help backup your local models to a subversion repository. This provides a backup facility so that no local model work is lost if something happens to your workstation.
- Release in Q4 of 2017.

MatchPoint 6.5

MatchPoint 6.5

- MatchPoint 6.5 is the next planned release of MatchPoint.
- Focus of this release is to make MatchPoint non IBM i specific.
  - Currently IBM i is required to run MatchPoint.
  - This release will remove this restriction and allow you to put the MatchPoint database in SQL Server.
- This allows MatchPoint to become available to Plex customers who do not have an IBM i installation.
- Other database platforms are also being considered.
- Release date Q4 of 2017, or Q1 of 2018.

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SCRUM AND AGILE ESTIMATION

Practical SCRUM and Agile For your IT Organization with considerations for CA PLEX Professionals

Speaker

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Sr Consultant/Support Manager.
MIS/M, PSM I

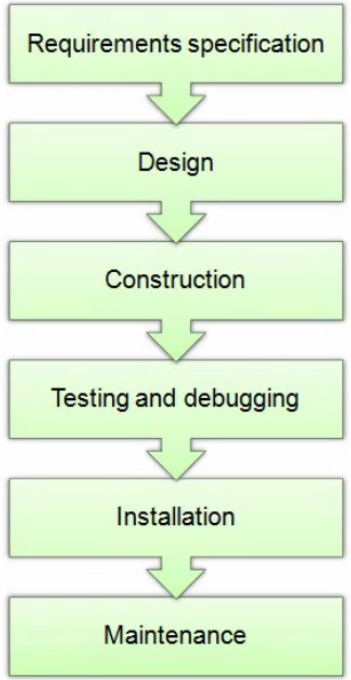
Methodologies

Methodologies

- Agile Vs Plan Driven

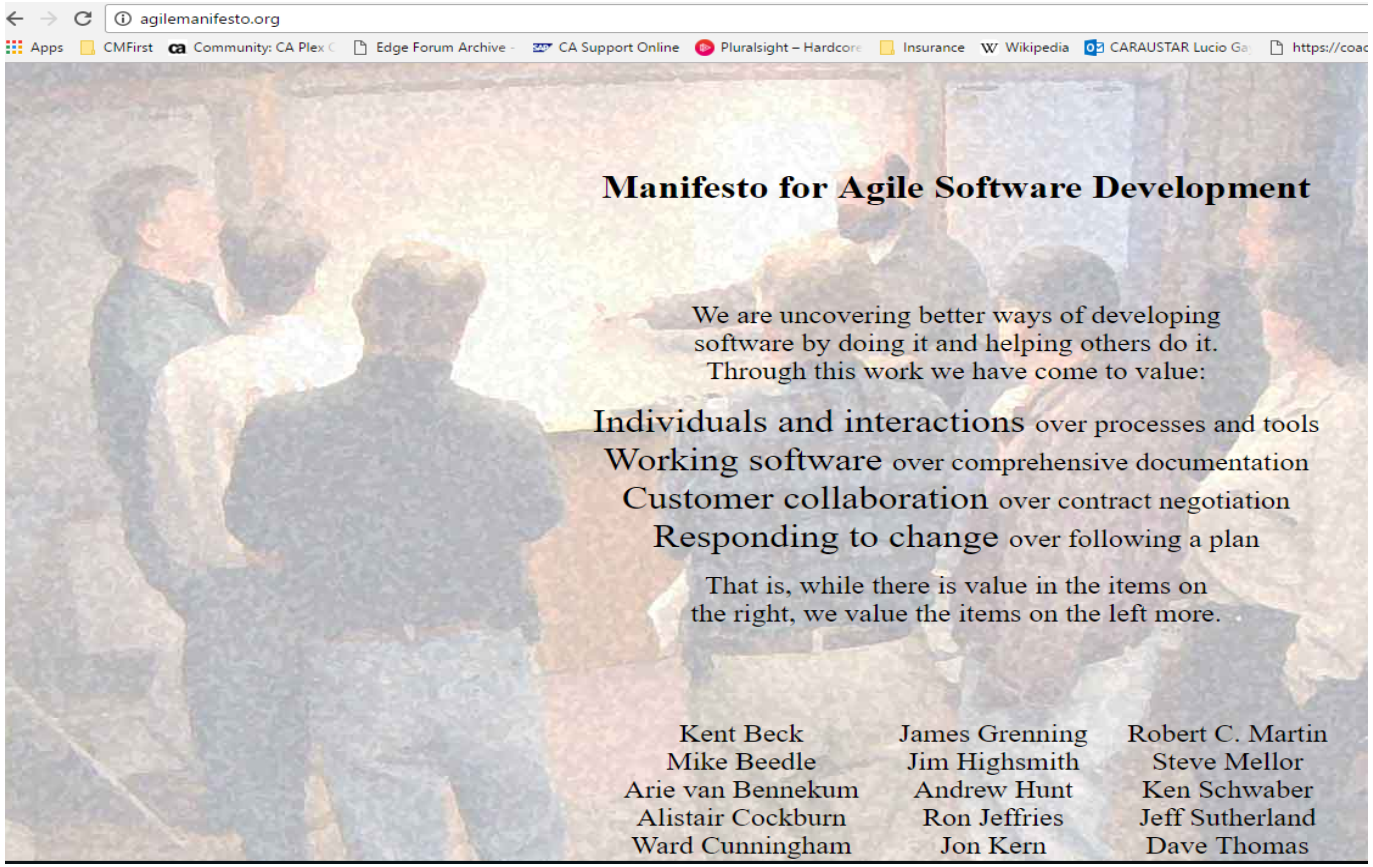
PLAN DRIVEN METHODOLOGIES

- Waterfall
  - The most common approach for long-running CA PLEX systems and organizations



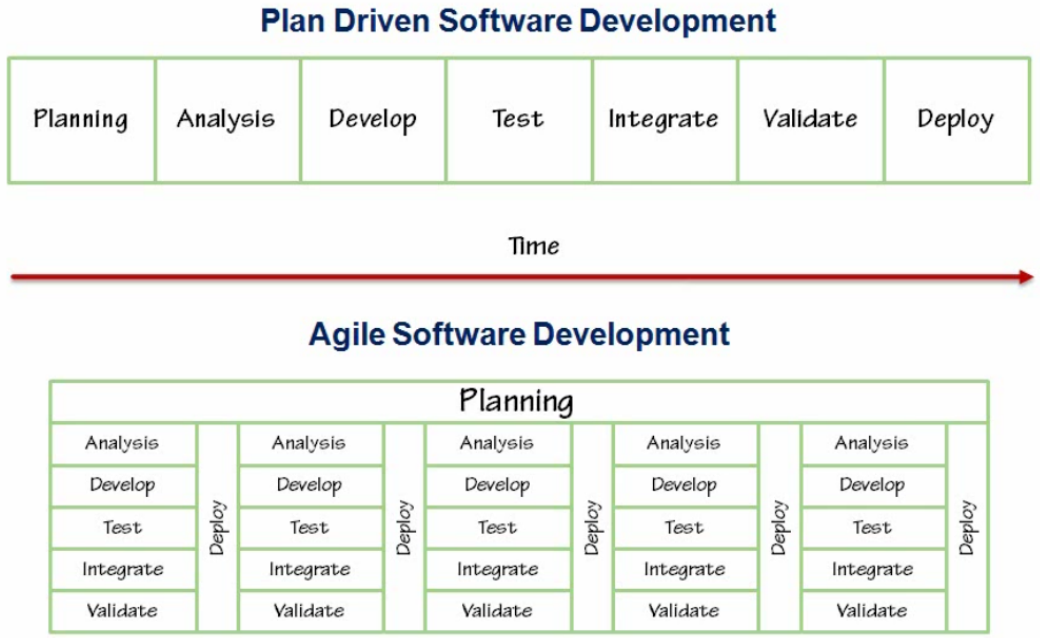
AGILE METHODOLOGIES

- Agile Manifesto
- Principles
- Agilemanifesto.org



METHODOLOGIES COMPARISON

- Iteration
  - If you are an Agile IT organization, are you really going through these cycles?
  - Are you properly time-boxing?
  - Do your development cycles depend on your CA PLEX, or any other technology, constraint/cycle?



METHODOLOGIES COMPARISON

- Agile is
  - Iterative
  - Adaptive
  - Value Based
  - Easy to understand
  - Hard to implement

- Agile is not
  - Just about writing code
  - Undisciplined
  - Unstructured
  - Whatever you want it to be
  - A placebo for developers

AGILE REQUIREMENTS

- Agile Requirements are
  - A feature, behavior, or constraint to be added to the system
  - A prelude to conversation
  - A request for someone to do work
  - A request for software change

- Agile Requirements are not
  - A solution design
  - A decision about implementation
  - Typically illustrative of the final deliverable
  - The source of truth

AGILE REQUIREMENTS

- User Stories
  - Structure
  - Examples
    - Roles
    - Role <> User
  - Benefits
  - USs Conversation and Breakdown
    - CA PLEX should not be part of this conversation!
  - Validation
    - This is the base for your test cases

Given <context> [and <more context>],

When <something happens>

Then <outcome> [and <another outcome>].

AGILE REQUIREMENTS

- Scenarios
  - Structure
  - Story Cards

Title: *User cancels reservation*

Description

As a user with a reservation, I want to cancel my reservation so that I get a refund.

Success Criteria

- *Given I am a premium member, when I cancel under 24 hours, then I incur no penalty.*
- *Given I am a non-premium member, when I cancel less than 24 hours in advance, then I pay 50% fee.*
- *Given I am a site member, when I cancel my reservation, then I am emailed a confirmation.*

Business Value Estimate _____
Development Effort Estimate _____
ROI Estimate _____

Story Owner _____

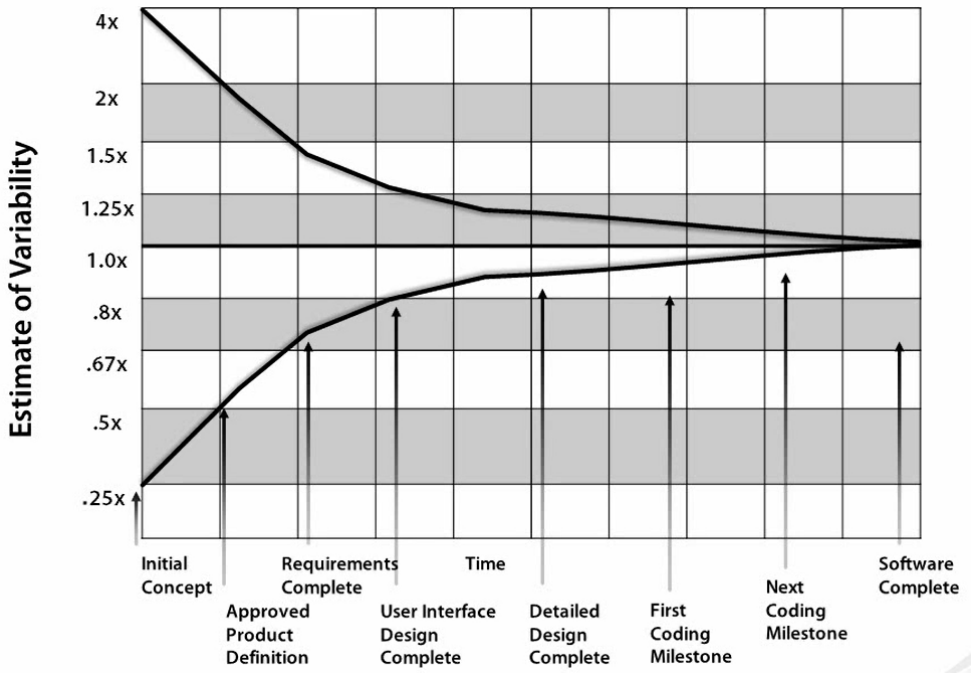
AGILE ESTIMATION

- Units of Measure
  - Personalize

AGILE ESTIMATION

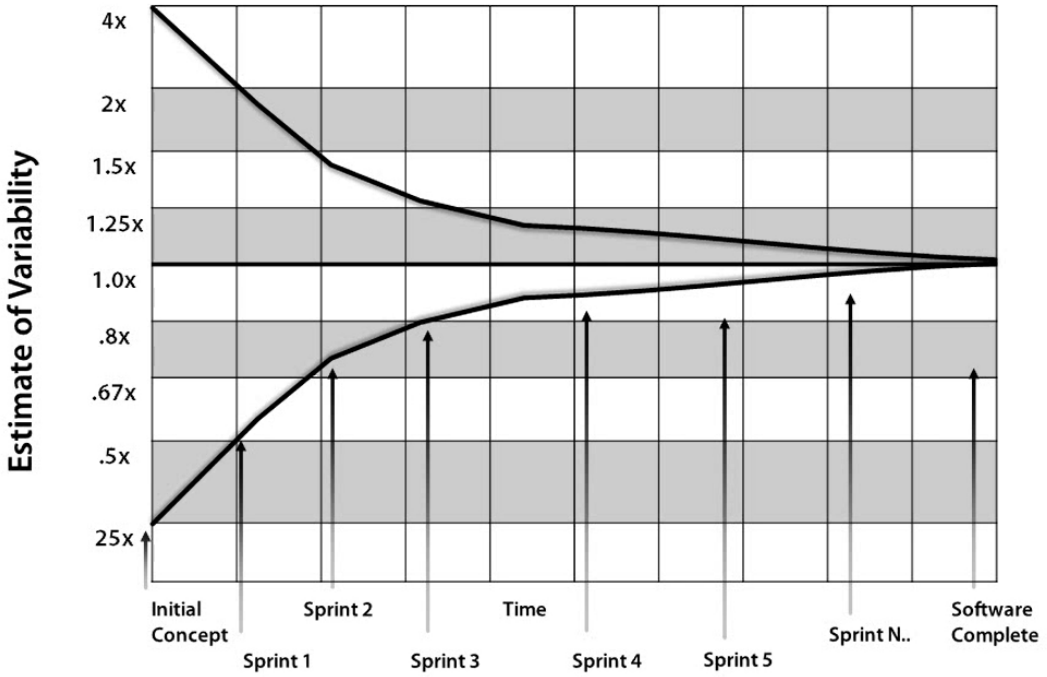
- Agile Estimation
  - Estimates Limitations
  - Reality of Estimations
  - Problems with Estimations
  - The Cone of Uncertainty

> **"Estimation is the calculated approximation of a result which is usable even if input data may be incomplete or uncertain."**
>
> **— Wikipedia**



AGILE ESTIMATION

- The Cone of Uncertainty Under Agile
  - Is your IT organization considering this?
  - Is your IT organization blaming your development technologies, i.e. CA PLEX, as a reason for failed estimations and delivery?



AGILE ESTIMATION

- Story Points
  - Very common approach to estimate work
  - Based on size and complexity, not duration
  - Unit-less and numerically relative
  - Different for each team of estimators
  - Points are additive, unlike time
  - Based on historical reality
  - Easy to use and understand

AGILE ESTIMATION

- Story Points (cont.)
  - Use
  - Values
  - Planning Poker (Intelligence of Groups)
    - Relative Estimation
    - Cost of Estimation
    - Structure
    - Benefits

SCRUM

- SCRUM Fundamentals
  - Roles
    - Product Owner, Team Members, and SCRUM Master
  - Chicken and Pigs
  - SCRUM Challenges
    - Waterfall Expectations of Inattention
    - Illusion of Command & Control
    - Belief in Magic

Chickens	Pigs
Managers	Team Members
Executives	Scrum Master
Anyone on another team	Product Owner

SCRUM

- Definition of Done
  - Not an artifact but critical!
  - Usable, working, delivered, deployed, potentially shippable
  - Everyone must understand what ‘Done’
  - All increments must meet this standard
  - Scrum Team increases the DoD
  - CA PLEX teams need to expand vision

SCRUM

- SCRUM CEREMONIES
  - Sprint Planning Meeting (4 hrs for 30 day)
    - Spring Goals
    - Participants and Tasks
      - ✓ Product Owner, SCRUM Master, and Team Members
    - Meeting Format & Tips
    - Sprint Backlog
  - Daily SCRUM (15 mins)
    - Structure: 3 questions
    - Impediments and their management
  - Sprint Review (2 hrs)
    - Working product!
  - Sprint Retrospective (2 hrs)
    - What to start, to stop, to continue… next sprint

SCRUM

- SCRUM ACTIVITIES
  - Product Backlog Planning
    - 20% max
    - Build Product Backlog
    - Estimate Items
  - The SPRINT!
    - Sprints are sacrosanct

QUESTIONS?

- Questions

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