Team Savox

CEF-vision system

Table of contents

- Design problem
- Personas
- Customer journey map
- Prototype
- Evaluation of prototype

CEF Vision system

- Provides vision of the surroundings, cameras and monitors
- Used by soldiers when dismounting vehicles
- Configuration issue!
 - O How to customize to the monitor views?
 - Additional monitors, cameras, quad view...?



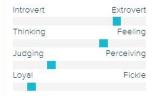




"Disobedience, huh? That's a mistake!"

Age: 38 Work: Military officer Family: Married, 2 kids Location: Hamina, Finland

Personality



Disciplined Confident Desicive

Goals

- . Guaranteeing the safety of his subordinates in the battlefield
- Getting recognized as an exeplary leader

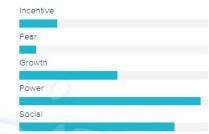
Frustrations

- Getting blamed on the bad desicions of the squad leaders
- Outdated technology is still used in the Finnish defence forces

Bio

- Billy is a lieutenant at the Finnish defense forces loves his country and gym training
- likes to keep his subordinates safe to keep their trust
- likes technology
- frustrated about having to but his guys into combat situations where they don't have enough information to make decisions without taking unnecessary risks

Motivation

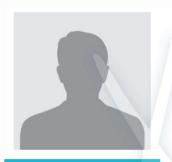


Preferred Channels

Traditional Ads
Online & Social Media
Referral

Laine J.

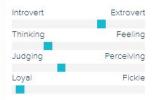




"Not that you've learnt it we'll expect you to do it the right way."

Age: 31 Work: Squad leader Family: Married Location: Hamina, Finland

Personality



fdfdf

Goals

Succeeding in combat missions

Frustrations

- · Not enough information to make desicions
- Officers having unrealistic expectations of him
- · Having to put his friends into unnecessary dangesr

Bio

- Enjoys tech, likes to customize things
- Friends with the soldiers, doesn't want to put them into danger
- _

Motivation

Incentive

Fear

Growth

Power

Social

Preferred Channels

Traditional Ads

Online & Social Media

Referral

Mäkinen T.





"I wish I knew what is going on here."

Age: 26 Work: Soldier Family: Unmarried Location: Hamina, Finland

Personality

Introvert	Extrovert
Thinking	Feeling
Judging	Perceiving
Loyal	Fickle

Desicive

Goals

Not to get shot in the face

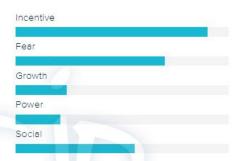
Frustrations

 At times it seems like the leaders don't know what they are doing

Bio

- Joined the military because he likes physical activities and there is a guaranteed job at the end of the training
- Often clueless about what is going in the army, because the higher ups don't like to share information
- Stressed about unmounting the SUV in combat when he can't be sure that it is safe to do so
- Works in cramped places
- Not very skilled with technology

Motivation



Preferred Channels



Customer Journey

Create configuration for single view (soldier)

	Open Software	Navigate to create new configuration	Choose output (screen) to configure	Choose the outputs's "view" (configuration) to modify	Choose input for selected view (single)
Actions	Find laptop, start software	From home screen, choose "create configuration" (F1)	Navigate to wanted output, select "add configurations" (F1)	Edit "view" with (F2)	Navigate to "edit input" (F1), select input (1-8) → save (F1)
Questions	How to use this?	Can I modify existing configuration?	How do I know which is my preferred screen? What is the current configuration of the screen?	Which inputs are configured to this "view"?	
Happy moments		This seems easy and fast!	This is simple! Oh, here i can edit output name!	Oh, here I can choose type of the "view"! (single/multi)	Oh, here I can change input name!
Pain points	"There is not a lot of space"		All the outputs are named in a confusing manner!	Still cant figure out how the outputs are named!	
Opportunities			Allow naming of outputs	Allow naming of outputs	

Customer Journey

Create configuration for multi view (soldier)

	Open Software	Navigate to create new configuration	Choose output (screen) to configure	Choose the outputs's "view" (configuration) to modify	Choose view type multiview and modify it	Choose layout for the "view"	Map inputs to desired positions of the layout
Actions	Find laptop, start software	From home screen, choose "create configuration" (F1)	Navigate to wanted output, select "add configurations" (F1)	Edit "view" with (F2)	Navigate to "view type" (F1), select multiview, select "edit multiview"	Scroll between layout designs (F2,F3)	Select "edit layout" → "select input" → save
Questions	How to use this?	Can I modify existing configuration?	How do I know which is my preferred screen? What is the current configuration of the screen?	Which inputs are configured to this "view"?		What is suitable for me?	
Happy moments		This seems easy and fast!	This is simple! Oh, here i can edit output name!	Oh, here I can choose type of the "view"! (single/multi)			
Pain points	"There is not a lot of space"		All the outputs are named in a confusing manner!	Still cant figure out how the outputs are named!			I'm not sure which input is which camera, since they haven't been named!
Opportunities			Allow naming of outputs	Allow naming of outputs			

Prototype

https://marvelapp.com/4e7a0dh/screen/53603764

- Visibility of system status
 - Transitions are instant, so not needed
- Real world experience
 - Keyboard is not the most intuitive way for configuring, but it is mandatory as no other devices are provided. Inputs can be named by location which helps.
- User freedom
- You can go to previous screen, but there is no "panic exit"
- Consistency

 O Controls are consistent, and just a few exists to provide easy to learn experience
- Errors
- Not much room for error, as user doesnt input manually much information
- Recognition vs. recall
- All needed is on the screen.
- Flexibility and efficiency
 - Not much shortcuts in design. Maybe copying of presets?
- Aesthetics
- o Barebones UI, no distractions. Primary wish clear, minimal and easy to use UI.
- Recovering from errors
- As said, not much errors to be madeHelp
- Self explanatory UI

Cognitive walktrough

UI is designed so that the user doesnt have many possible ways to operate the device, so mistakes rarely happen. Everything is named clearly so interface is intuitive.

More information on the screen

Some kind of help

Testing in car or sth