



# Patterns in Franca

2016-04-28 | 14:00

Johan Thelin  
System Architect // Member of Eg HMI  
Pelagicore

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# What?

- We need to agree on guidelines for Franca interfaces
- Topics:
  - Large lists
  - Naming
  - Request / signal flow
  - Optimistic behavior, default values
  - More...
- Should be driven by toolkit binding requirements

# Why?

- Auto-generate proper, useable, interfaces from Franca IDL

# Example: big lists

- Qt provides the QAbstractItemModel API
  - <http://doc.qt.io/qt-5/qabstractitemmodel.html>
- GENIVI needs to harmonize, e.g:
  - Radio stations: <http://git.projects.genivi.org/?p=ivi-radio.git;a=blob;f=franca/Station.fidl;h=b0559cd7a2c1d05147edf95905ee22442d628a1e;hb=a297f8efb4e35a3a69db73a2476aa0f4ee8a30b2>
  - Media manager: <https://github.com/Luxoft/media-manager-interfaces/blob/master/fidl/org/genivi/MediaManager/Indexer.fidl>
  - POIs: <http://git.projects.genivi.org/?p=lbs/navigation.git;a=blob;f=api/franca/navigation/poiser vice/POISearch.fidl;h=fc0fef554913a1fcf595b9c3180286f4dd141923;hb=HEAD>

# Example: naming

- Qt does camel case, lower case first character, all words written out:
  - someFunctionName
  - Not: SomeFctNm
  - Not: some\_function\_name
- Qt avoids prefixing for namespacing or type indication:
  - displayRole
  - Not: E\_DISPLAYROLE
  - Not: nValue

# What next?

- What other concepts does other abstractions do other toolkits have?
- Does anyone have these Franca guidelines?
- Pelagicore can contribute guidelines for Qt
- Find and solve caveats:
  - How do we handle compatibility for extended APIs (e.g. OEM-specific additions)