



GENIVI®



Patterns in Franca

2016-04-28 | 14:00

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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=b0559cd7a2c1d05147edf95905ee22442d628ae;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/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)