Best Practice in GUI Development

Live Data Prototyping

In many projects, from concept to final delivery, the user interfaces and the underlying middleware are developed by separate teams.

This approach requires a good interface and a detailed description of the data to be exchanged. Errors in this interface are often only discovered during integration on the target hardware in a very late phase.

Bringing the GUI and middleware together at an early stage can save a lot of time and money here. But how can this be realized when the target hardware is often not even ready yet?

We would like to show you a technique that our GUI Service team has been using in many customer projects for over 20 years.



Our project with LOEWE is a perfect example. Over the course of 10 years we have supported them in the continuous development of their TV interface using Live Data Prototyping.



Challenge

- Separated teams
- Comprehensive Interface Definition
- Test data for
 - Timing Behavior
 - Data Models
 - Value Ranges



Solution

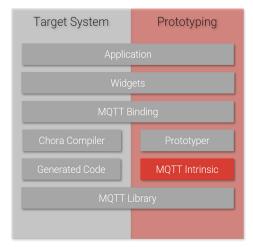
- Prototyper
- Use real data from MW
- Co-working of teams
 - Design
 - Development
 - Testing
 - Marketing



Advantages

- Globally available at an early stage
- No surprises in the data flow
- Low technical hurdle
- Realistic behavior with dynamic data
- Less creation of extra test data
- Significant time savings
- Optimized workflow

Sample project using MQTT







GUI Solutions by TARA Systems