



SIEMENS

ITEA2 OpenETCS

# API Strategy & Review

# Review Alstom API proposal

Detailed Review of first part of the document

► see github

This part focus on general issues

# Review Target

Usable for **ETCS Baseline 3**

- ▶ Alstom

Usable in a **modelling** approach

- ▶ Modelling experts

Abstraction from a specific **platform**  
approach

- ▶ Us

# Criteria for platform approach

## Software Technology

API implementable within the software context of the platform

## System Architecture

open kernel fits into system architecture

**Within economical feasibility.**

# Software technology

## Issue:

API closely connected to specific  
Software approach ( Ada, calls... )

## Assessment:

unrealistic to switch to Alstom  
software technology

## Proposal:

higher grade of abstraction necessary

# System Architecture

## Issues

Functional system decomposition is not defined (e.g. DMI)

Conflicts with standardization

API implies system architecture

## Proposal

Per interface analysis to create generic solutions

Cooperation with standardization

# Resumé

The current API proposal would limit the openETCS to a **very specific platform**.

API assumes a **system architecture**

**Generic solutions** might only be found at a more abstract level than current product architectures.