

# **FERC SMD Modular Software Design Goals/Scope, Process, and Timing**

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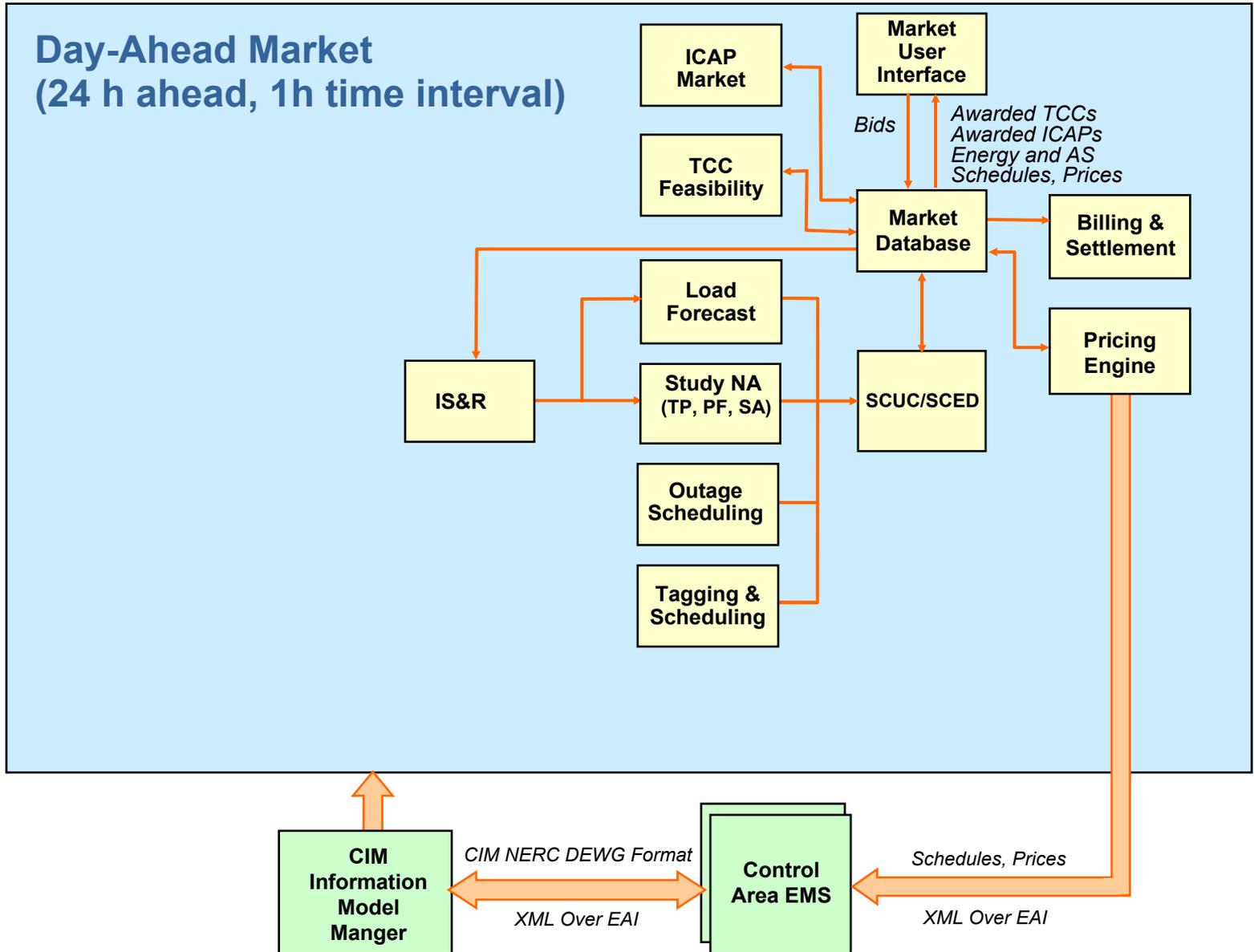
## Goals

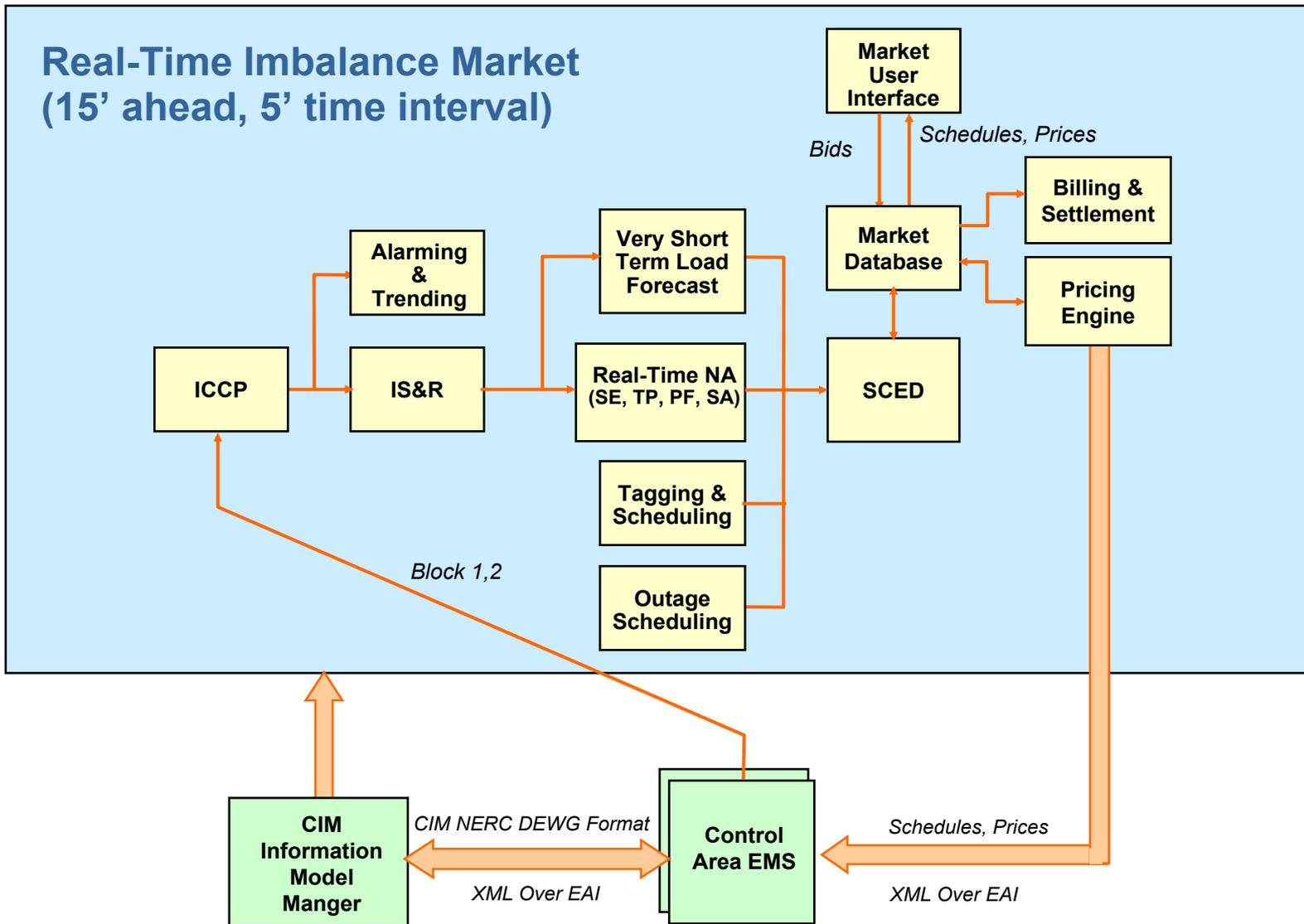
- Reduction of the overall startup costs and implementation schedules of RTOs/ISOs
- Reduction of the long term maintenance and development costs of RTOs/ISOs
- Long term protection of investment in RTOs/ISOs
- Increase in quality of software solutions implemented in RTOs/ISOs

## Scope of the FERC SMD software standardization effort

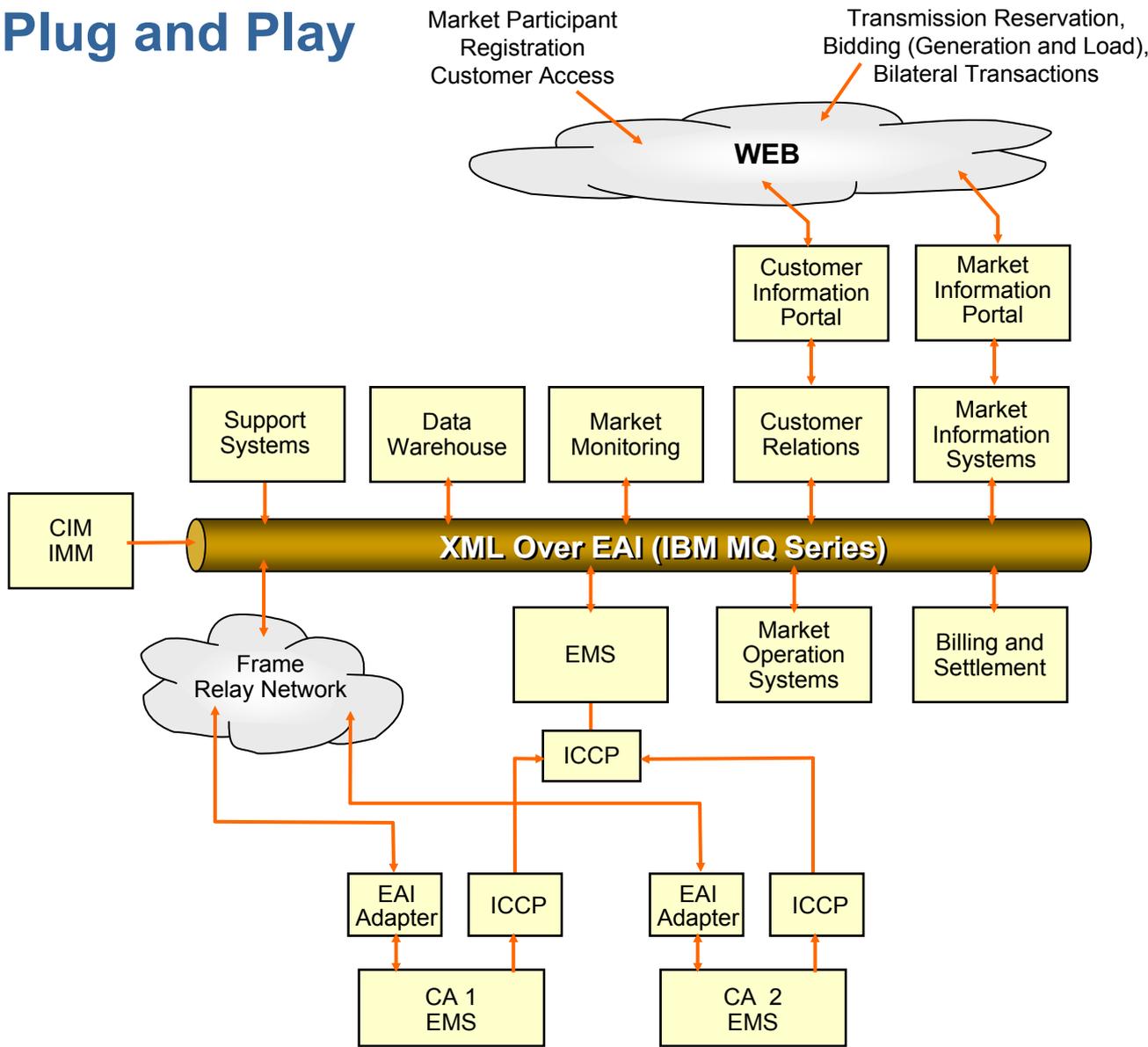
- Common data model (“static” extensions of CIM)
- Market participant interfaces to support electronic upload/download of data to/from RTO OASIS
- Identification and standardization of functional blocks in support of intra-RTO business processes
- Standardization of data exchanges between the standardized functional blocks (“dynamic” extensions of CIM)
- Creation of benchmark test data for SCUC and FTR simultaneous feasibility
- Standardization of data and related interfaces required to support MMU operation
- Identification and standardization of data exchanges between RTOs

Day-Ahead Market  
(24 h ahead, 1h time interval)





# Plug and Play



## The Process – Important Driving Factors

- The required knowledge for the task is available within ISOs/RTOs and software vendors
- What needs to be done is straightforward and requires a relatively small effort
- It is possible to do the work even before SMD is complete, i.e. if the work is properly prioritized there is a relatively small risk of “throw away” effort

## The Process – Players and Roles

- FERC continues with the current open SMD process which will result in a consistent detailed market design, rules and procedures
- XXX is chartered with the task to facilitate SMD software standardization effort:
  - ▶ Collection of inputs for the project scope
  - ▶ Issuing of RFP and contracting for the work with a qualified company (KEMA, KPMG, others)
  - ▶ The first result of the work is open for public comments
  - ▶ XXX and the qualified contractor adapt the standard based on the received comments
  - ▶ The final result of the effort is presented to FERC for acceptance
  - ▶ The standard in place

## The Process – Timing and Potential Issues

- Timing
  - ▶ ASAP
- Potential Issues:
  - ▶ Funding
  - ▶ Long term maintenance and evolution of the standard