

Open Scheduling System (OSS)

NYISO BIC Meeting

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External OSS Presentations

- **The NPCC OSS Users' Group meetings have been held in Montreal, Detroit and Houston**

ALSTOM, APX, CAISO, Caminus, Constellation Power, Coral Power, Detroit Edison, El Paso Energy, Engage, HQUS, IMO, ISO-NE, Keyspan Energy, MECS, Mirant, National Grid, NERC, NPCC, NYISO, OATI, OPGI, Pacificorp, Perot Systems, PJM, Premstar, Sapient, Shell Trading, TransEnergie, Williams Energy

- **Presentation to Senior FERC Staff in January**
- **Presentation to the Western RTO WG in March**

OSS Overview

Guiding Principles

- **Minimize impact and maximize benefits**
 - *Minimize changes to MPs' current processes by supporting current webpages and upload/download interfaces*
 - *Creation of improved interfaces and enhanced functionality*
- **Be open and standards-based**
 - *Create an open architecture and messaging standards that are standards-based and extensible*
- **Be flexible and build for change**
 - *Allow for multiple interfaces for data entry that can handle evolving market rules*
- **Scale to the future**
 - *A system to handle both current and future transaction volume, users, and business needs*

Guiding Principles (cont'd)

➤ **Interoperability**

- *Establish a baseline standard for systems interaction between Scheduling Coordinators*

➤ **Robustness**

- *Build an open foundation architecture that serves as a blueprint for future applications*

What is OSS?

- **OSS is comprised of an industry leading set of tools for Market Participants and Scheduling Coordinators to interact, trade and communicate within and across control areas**

- **Initially, OSS will provide the ability to:**
 - *Enter bilateral transaction bids across Scheduling Coordinator borders with a single data entry interface*
 - *View status from each Scheduling Coordinator*
 - *View schedules from each Scheduling Coordinator*
 - *Request transmission and ramp reservations*

OSS Functionality in Detail

Access

➤ **Security**

- *User ID, Password & Digital Certificate*
- *Trading permissions administered locally*

➤ **Manual interface**

- *WebPages with HTML and Java Applets*

➤ **Programmatic interface (Upload / Download)**

- *CGI application*
 - ▶ *Browser based connections*
 - ▶ *Browserless connections*
- *Supports multiple requests in a single file*

Entry & Schedule Management

- Ability to enter inter-Control Area bilaterals into the system
 - *Dynamically composed displays for CAs that support OSS functions*
 - *Cross-Control Area bilaterals automatically submitted to other Scheduling Coordinators*
- Enhanced ability to manage bilaterals
 - *View an organizations outstanding transactions and pending modifications*
 - *View the schedules and responses from other Scheduling Coordinators*
 - *Ability to copy and modify existing transactions*
 - *Ability to save transactions (two-phase process)*

Pre-Scheduling

- **Ability to “pre-schedule” ramp and transmission (first come first served, based on availability) ahead of the DAM scheduling**
- **Pre-Scheduled transactions will receive;**
 - *transmission and ramp reservations*
 - *only bid type that is allowed a +/- \$1000 dec bid*
- **The MP’s who pre-schedule their bids must ensure that they meet their obligation once the bid is scheduled**
- **MP’s can also check to see how much ramp and transmission are still available on a particular day**

Scheduling Coordinator Communication

➤ Open XML interface

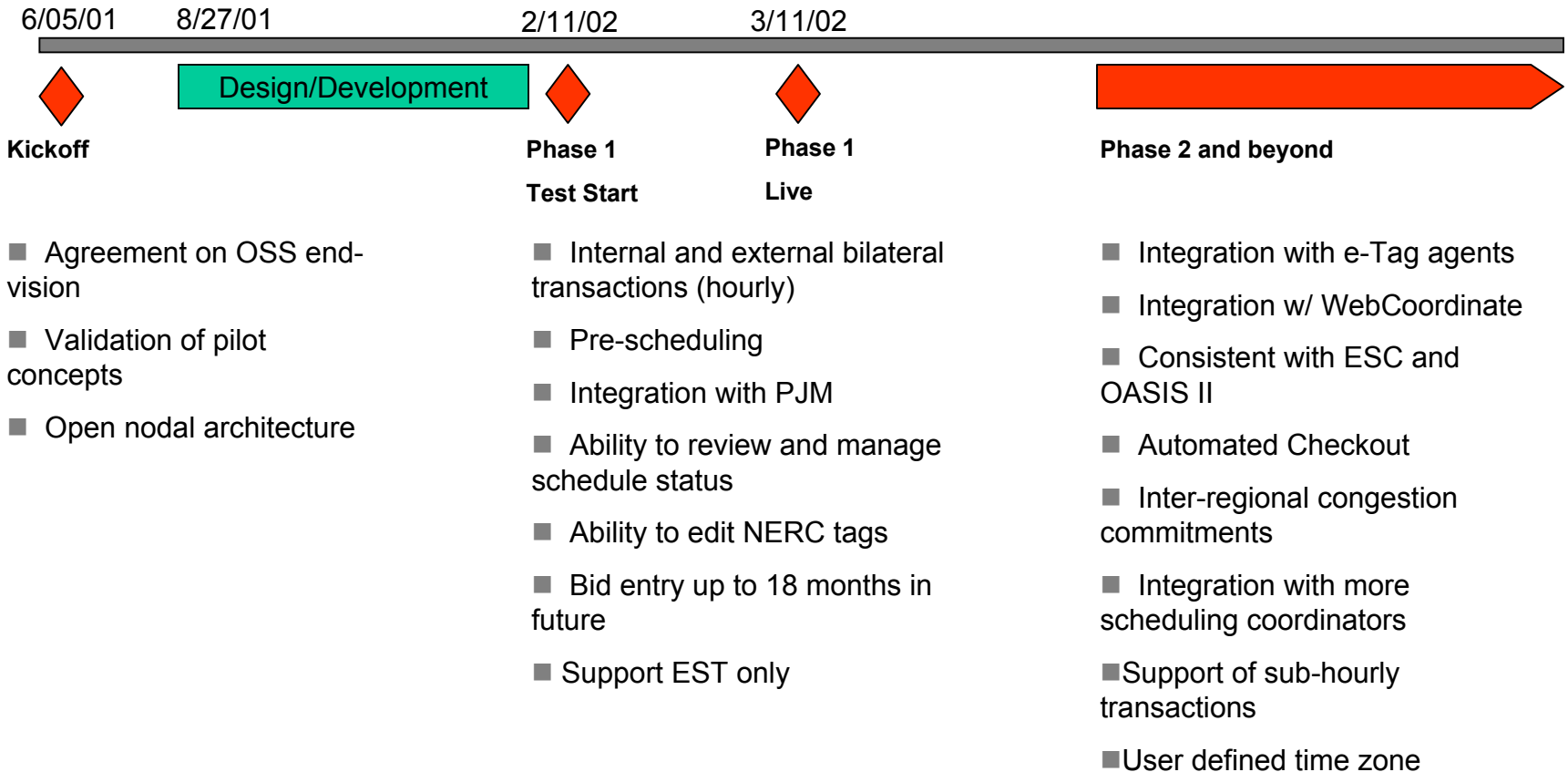
- *This interface can be used to bid across control areas, reserve ramp and transmission, check schedules and statuses, greatly reducing checkout problems and other seams issues*
- *Can be implemented by all Scheduling Coordinators to communicate between each other*
- *Technology-independent to allow each Scheduling Coordinator to implement it as they see fit*

Scheduling Coordinator Communication (cont'd)

- Adaptors for communication with existing programmatic interfaces
 - *PJM and NE upload/download translators*
 - *Supports key features of the OSS including transaction submission, modification, and status display*
- OSS Request For Comments
 - *www.nyiso.com/services/documents/oss/open_sched_sys.html*

OSS Schedule and Timeline

Original OSS Project Timeline



Revised Schedule

- **Conducted implementation review in Jan 2002**
 - *Identified gaps in business and technical design*
 - ▶ Effecting quality of implementation
 - *Additional 4-6 weeks of design and implementation required*

Revised Schedule (cont'd)

➤ Deployment Windows

- *QA Staff & System Availability*
 - ▶ Feb – **Original OSS plan** – not possible with additional design & implementation required
 - ▶ Mar & Apr – QA period for other Summer '02 Initiatives that **must** be available for Summer
 - ▶ May & June – New window for OSS testing
- *Six week internal and MP test period*
- ***New OSS deployment window – July - August***

Revised Schedule (cont'd)

- **Additional Phase 1 Functionality Being Considered***
 - *Automatic queuing of Pre-Schedule requests*
 - ▶ Bids that violate ATC or Ramp will be automatically reevaluated when transmission capacity or ramp space is increased
 - *Integration of ISO-NE via upload/download interface*
 - *Integration with OATI WebData and WebCoordinate*

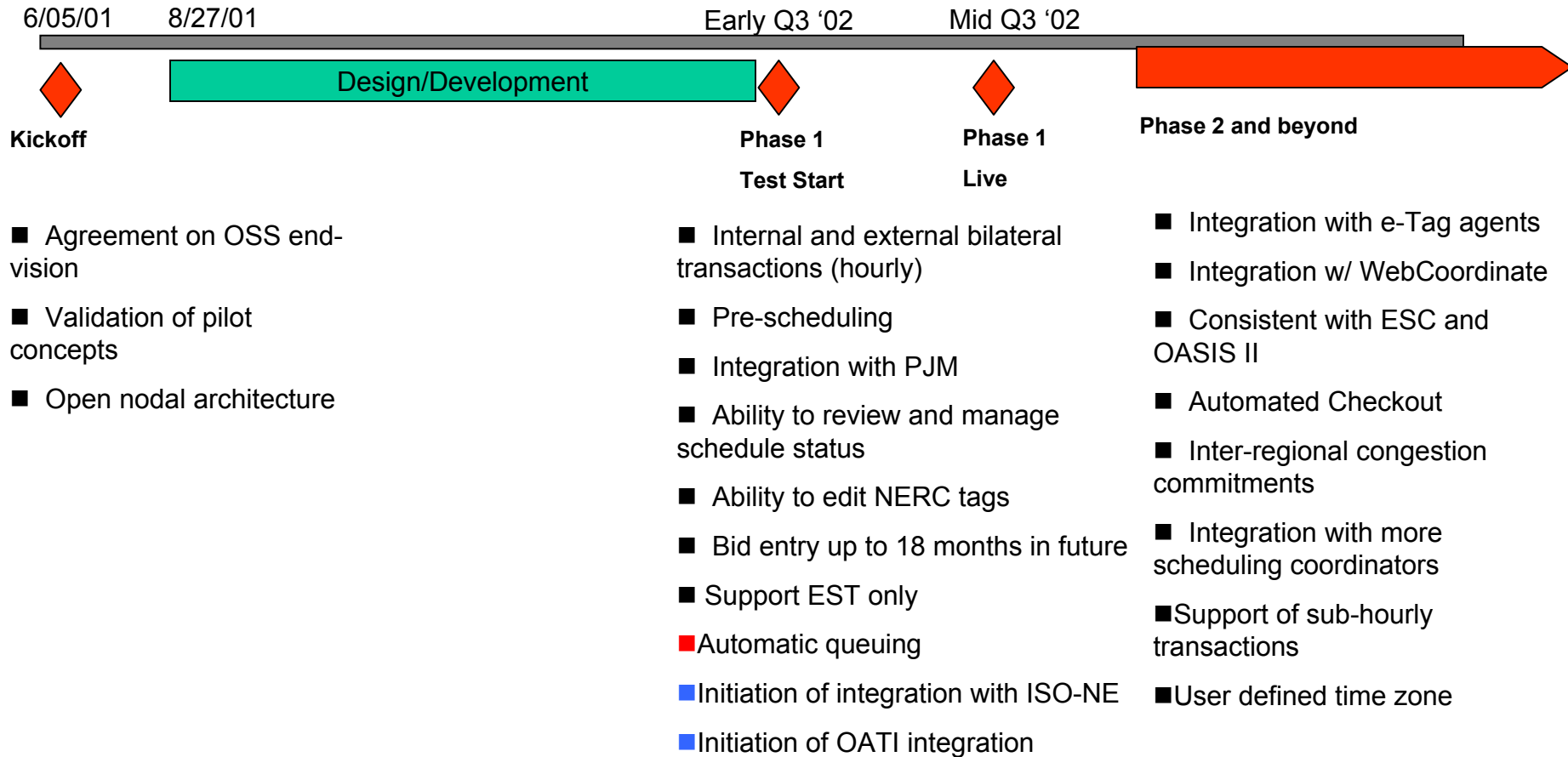
* Design review is not complete. Functions that delay deployment beyond Q3 will be moved to Phase 2

Revised Schedule (cont'd)

➤ **Unbundling Pre-scheduling from OSS**

- *Originally pre-scheduling was to be offered only through OSS*
- *Due to the delay of OSS, a commitment to modify the existing Marketplace interface has been made*
 - ▶ Pre-scheduling will be offered prior to May
 - ▶ Approval of pre-schedule requests will not be automated until OSS Phase 1 is deployed

Feb Revised OSS Project Timeline



Red bullet indicates a new scope item

Blue bullet indicates possible Phase 1 scope item

Phase 1 Deployment Strategy

➤ **Test Period**

- *Starts in May - June 2002*
 - ▶ Utilize the NYISO QA System
 - ▶ Will include DAM commitment to provide schedules
 - ▶ Will involve bid inputs from a select group of MPs
 - Upload/Download interface users
 - Webpage users

➤ **Live**

- *Starting July - August 2002*
- *All bids submitted are passed to scheduling applications*

In Summary

- **The OSS application will be deployed in phases with the first scheduled for early Q3 2002**
- **Pre-scheduling has been unbundled from OSS with the MIS based function available prior to 1 May**
- **Queuing will be added to the first release of OSS**
- **Potential for ISO-NE and OATI integration in first release**

Other Questions?