AmEx SW Planning

Kaushik De
University of Texas at Arlington

SWT2 Workshop
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AmEx Plans

- **Component architecture, with parallel development teams**
- **Separate QA/testing and support teams**
- **Incremental development plans – components and features added or replaced as we gain experience**

**Monthly release cycle**

- Sep. 15th – demonstrate prototype can run 1000 ‘mv’ jobs/day
- Oct. 15th – run a ATLAS transformation, add components
- Nov. 15th – any ATLAS transformation, ADA integration
- Dec. 15th – scale up to 10,000 jobs/day
- Jan. 31st – more components, better automation
Sep. 15 Implementation

Windmill

Executor Interface

MySQL DB

Task Buffer

Brokerage

Data Service

DDM Toolkit

Batch/Grid Site

Job Dispatcher

Job Scheduler

From DC2 (use devDB)

Based on DC2

Store jobs in DB, group into DDM datablocks

Prepare datablock requests, dispatch jobs (xml)

Request datablocks, validate completed jobs

Continuously send pilot jobs using Condor-G or shell script
Sep. 15 Task List

- Executor Interface – Karthik, Horst, Nurcan
- MySQL DB – Yuri, Nurcan
- Task Buffer – Gabriele, Tomasz, Joel, David
- Brokerage – Marco, Joel, Karthik
- Data Service – Wensheng, Hyunwoo, Mark
- Job Dispatcher – Tadashi, Xin, David
- Job Scheduler/Pilot Jobs – Xin, Marco
- Dial PBS backend, Dial deployment/testing at UTA – Hyunwoo
- DDM deployment – Wensheng, Hyunwoo, Saul
- CVS/librarian, mailing list - Horst
- QA/integration/testing – Mark, Nurcan, Horst, Pavel
- Production with old system – Yuri, Mark, Tomasz
- Software installation – Xin, Yuri
Oct. 15 Implementation

- Eowyn
  - Executor Interface
    - https
    - Task Buffer
      - MySQL DB
        - Policies
        - Brokerage
          - Data Service
            - DDM Toolkit
              - Batch/Grid Site
                - Job Scheduler
      - Job Dispatcher
        - ADA compliant Job Creator (JDL)
Nov. 15 Implementation

- Eowyn
  - Executor Interface
    - Task Buffer
      - MySQL DB
      - Brokerage
        - Data Service
          - DDM Toolkit
            - Batch/Grid Site
            - Job Scheduler
      - ADA compliant Job Creator (JDL)
      - Job Dispatcher
        - Data Service
          - DDM Toolkit
            - Batch Site
Long Term Design