FDF Architecture Modernization

March 2011

FDF Modernization

- What is FDF Modernization?
- How it affects FDF product delivery/exchange
- Timeframe for testing
- Transition to operations

What is FDF Modernization?

- FDF Modernization is the new architecture and system components that will be used within the GSFC Flight Dynamics Facility to ingest, process, store, and deliver FDF services and products to customers
- System architecture is a Goddard Mission Services Evolution Center (GMSEC) based architecture
- Includes upgrade and redesign on internal communications and data processing applications to fit into the GMSEC architecture
- Runs on a virtual computer environment
- New system is separate from current system
- STS support is not part of modernization
  - No testing with STS is required
  - Testing with ISS will be required

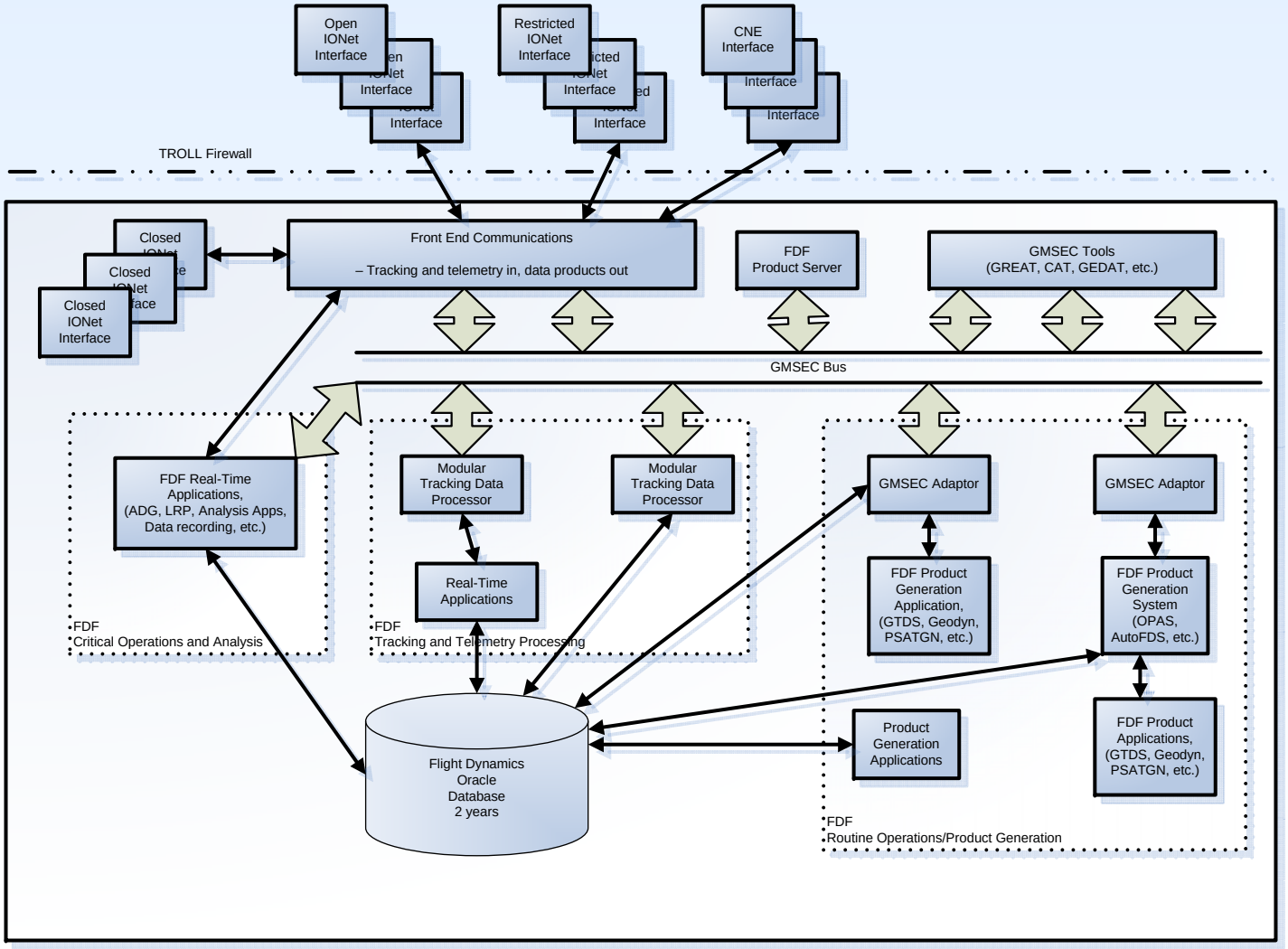
How it affects product delivery/exchange

- Customers who receive products via the FDF Product Server will see no impact
  - No change to Product Server access
- Customers who receive products directly from the FDF will see no impact
  - Some testing for verification of FDF configuration for delivery will be necessary
    - Will work with each customer to schedule interface test
- Customers who deliver data via FTP to the FDF should see no or minimal impact depending on how customer is doing the FTP
  - Will be contacting each customer individually in the next 2-3 months to discuss change and schedule testing
- Customers who deliver data in real-time via Closed IONet will see no impact
- FDF will be conducting end-to-end testing with each customer to verify FDF configurations and set-up as part of the final operations testing

Timeframe for Testing

- Final operations testing scheduled to begin in mid-July and go through late September of 2011
  - Test Readiness Review for operations testing scheduled for July 12
- Operational Readiness Review scheduled for September 27
- Transition to new system for operations beginning October 2011

Transition to Operations

- Mission support transition to operations in steps over 4-5 week period
- Once operations is transitioned, old system will be kept up for short period, then shut down
- Entire process expected to be completed by end of calendar year 2011

FDF Architecture