

Accountability Management/ Request Tracking

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Accountability Management



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Accountability Management Driving Requirements



The Accountability Management CSC provides:

- User Registration
- User Account/Profile Maintenance
- Audit Trail Report Generation
- Near Real-Time Request Tracking

Accountability Management Driving Requirements (cont.)

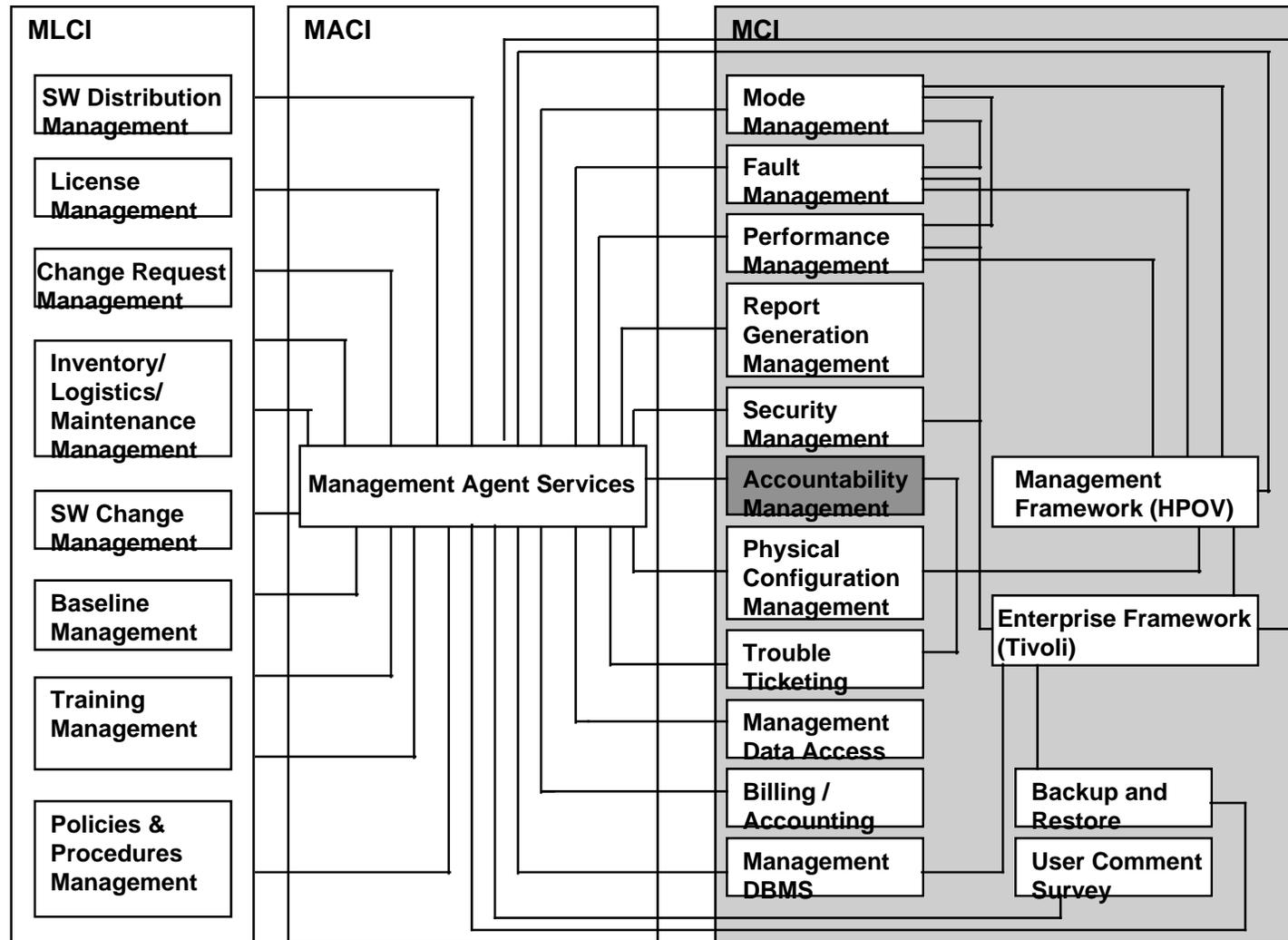


For Release B, the major changes to accountability are as follows:

- **User Account/Profile Maintenance** - addition of account balance to the user profile
- **Real Time Request Tracking** - major changes to support
 - Near real time tracking of request status
 - Non-real time collection of resource utilization

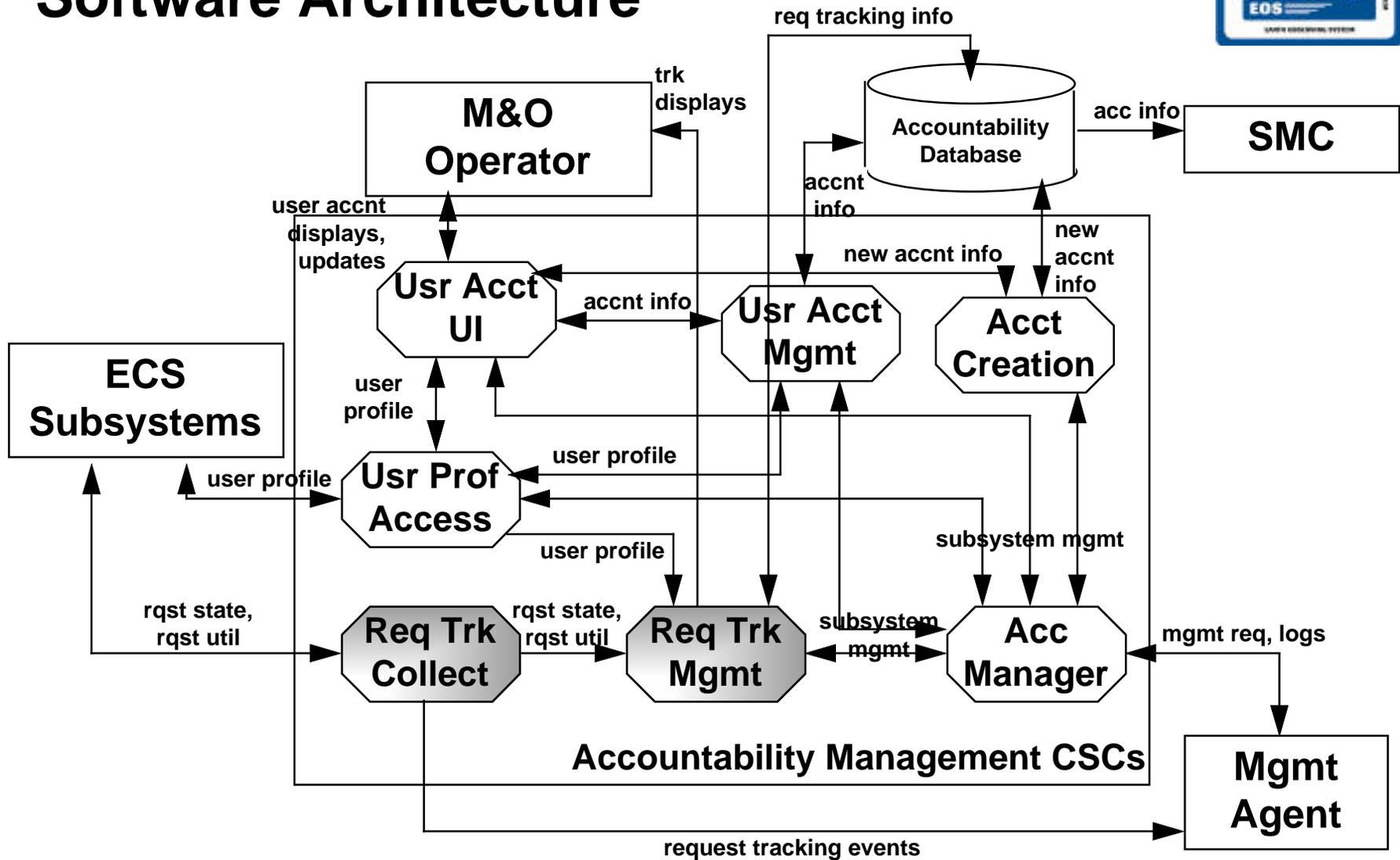


MSS Software Architecture Overview





Accountability Management Software Architecture



Request Tracking Design Overview



Request Tracking consists of two parts:

- **Request Tracking Collection (Request Tracking Key Mechanism)**
 - provides public and distributed objects for ECS Applications to report state changes
 - provides public and distributed objects for ECS Applications to collect and report resource utilization
- **Request Tracking Management**
 - management of the collected information
 - collects the information in a Sybase Database
 - operator interface for the near real-time tracking of request states
 - operator interface for cost reports

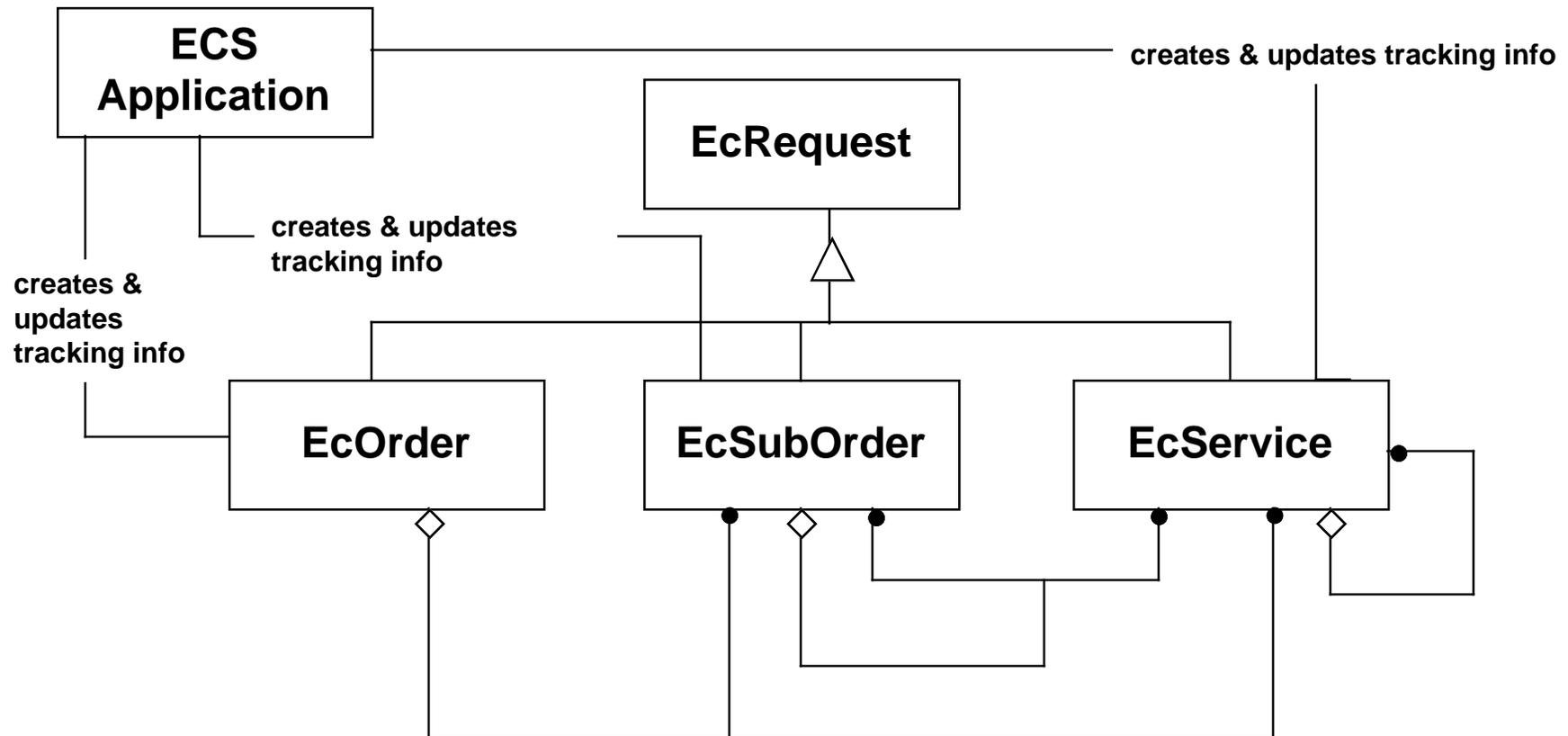
Request Tracking Design Overview (cont.)



Definition of terms:

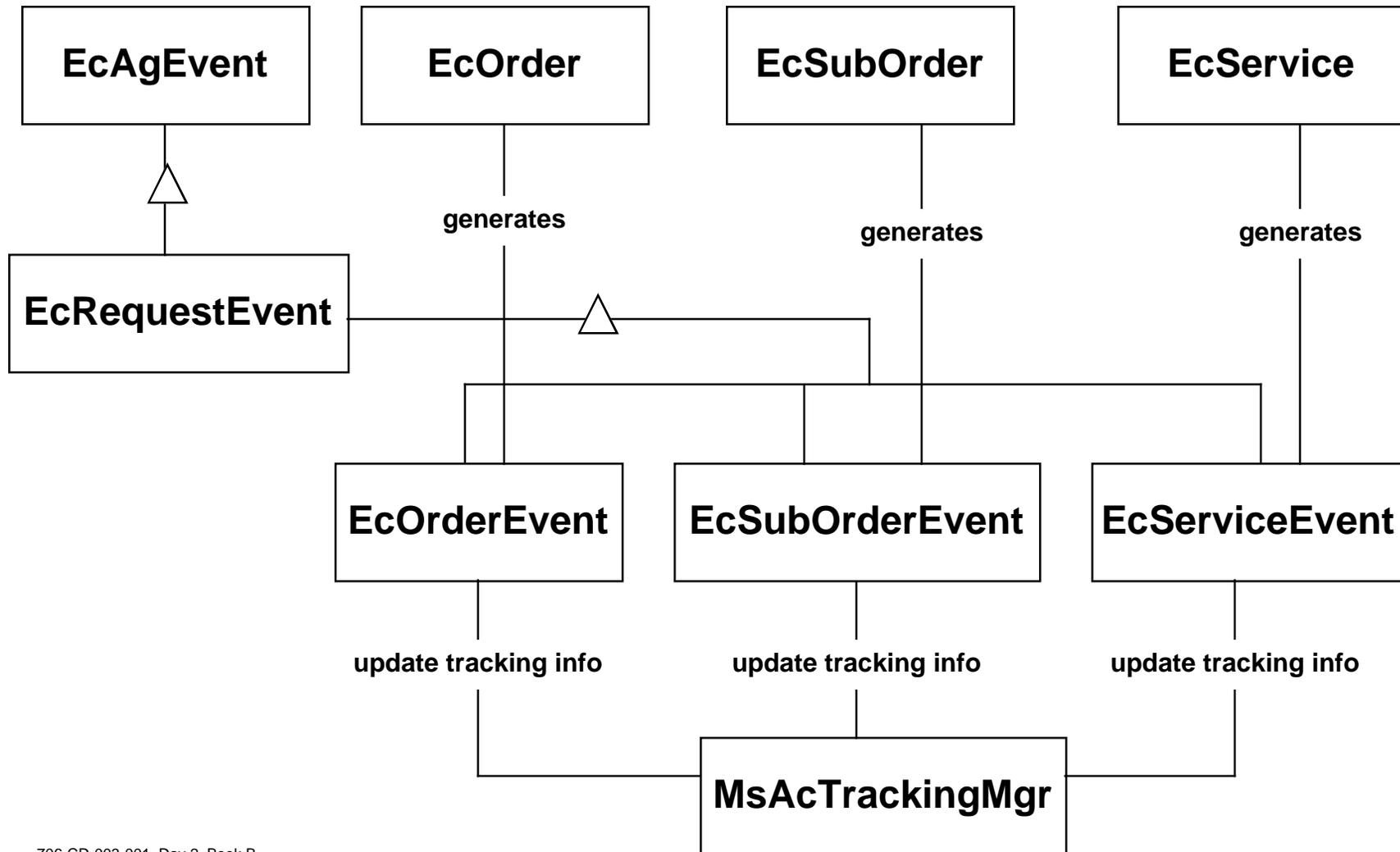
- **Request - (abstract class/term) consists of all requests that are tracked. Trackable requests include**
 - Product Orders
 - Ingest Requests
 - User Requests
 - Operator Requests.
- **Order - special type of request. Tracks/collects information associated with the entire Product Order type of request. An Order object can be split up into many SubOrders and many Services.**
- **SubOrder - special type of request. Sub-part of an Order or another SubOrder which is part of a Product Order type of request. A SubOrder can be split up into many SubOrders and many Services.**
- **Service - special type of request. Tracks information associated with non-Product Order types of requests. Can be split into many Service requests. Can be part of an Order or SubOrder if the Order or SubOrder needs to request processing not directly associated with ordered product.**

Request Tracking Collection Object Model

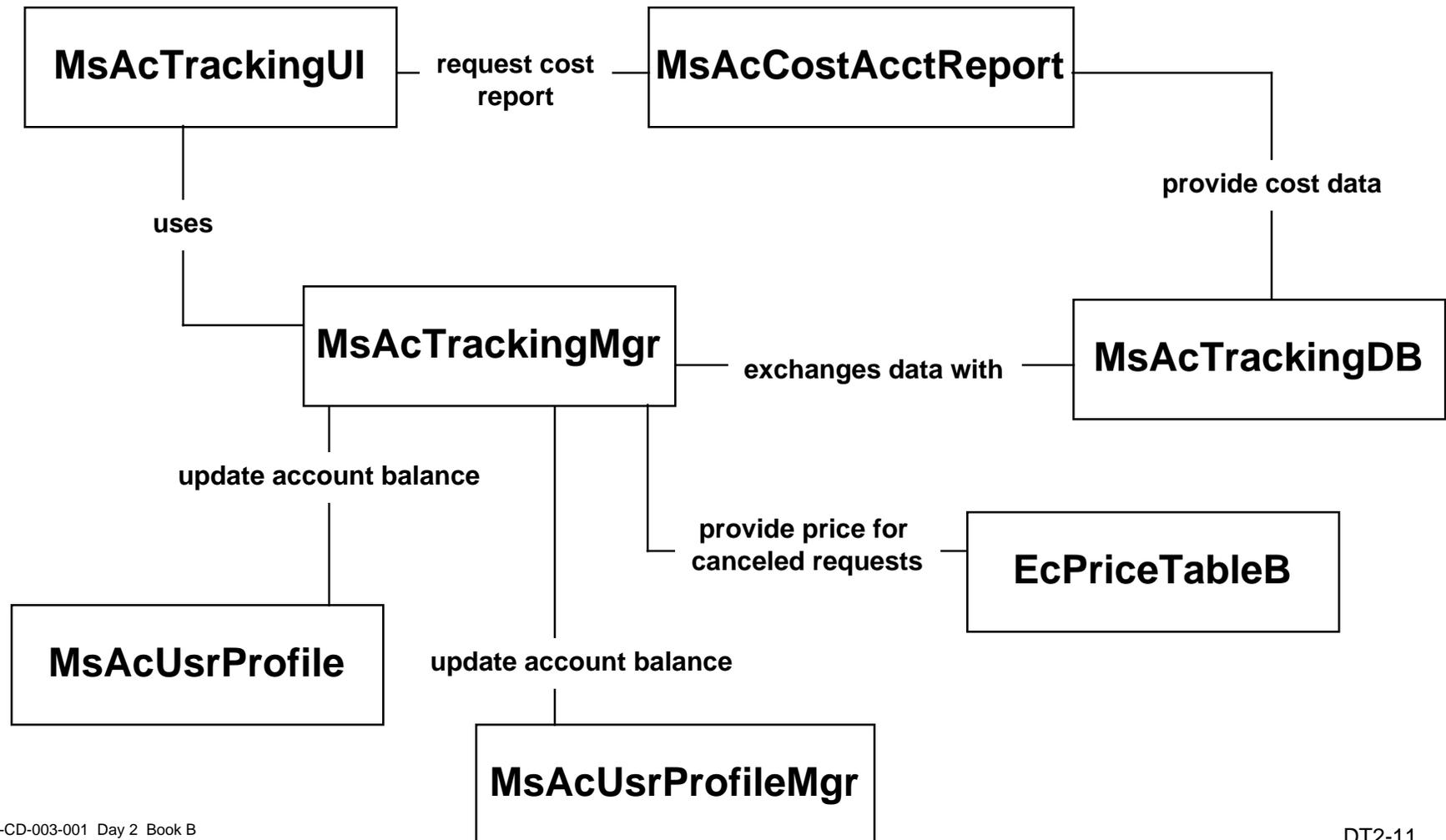


Doc 305-CD-029-002, Section 6.2.3, Accountability Management Object Model Overview,
Section 6.2.3, Accountability Management Object Model Detail 1

Request Tracking Collection Object Model (cont.)



Request Tracking Management Object Model



Request Tracking Collection Dynamic Model



The following event traces will be reviewed (all event traces can be found in the Release B CSMS System Management Subsystem Design Specification for the ECS Project (305-CD-029-002), Section 6.2.4):

- Request Tracking Overview (Figure 6.2-9) - high level flow of information passed in support of collection of request tracking information from an ECS Application's perspective.
- Update The State of An Order (Figure 6.2-11) - detailed trace of the events which occur when an ECS application reports that the order has changed states.
- Canceling A Sub-Order (Figure 6.2-15) - detailed trace of the events which occur after an ECS application receives a request to cancel processing of a Sub-Order.
- Finished Processing Of An Order (Figure 6.2-16) - detailed trace of the events which occur after an ECS application completes processing of the Order.