
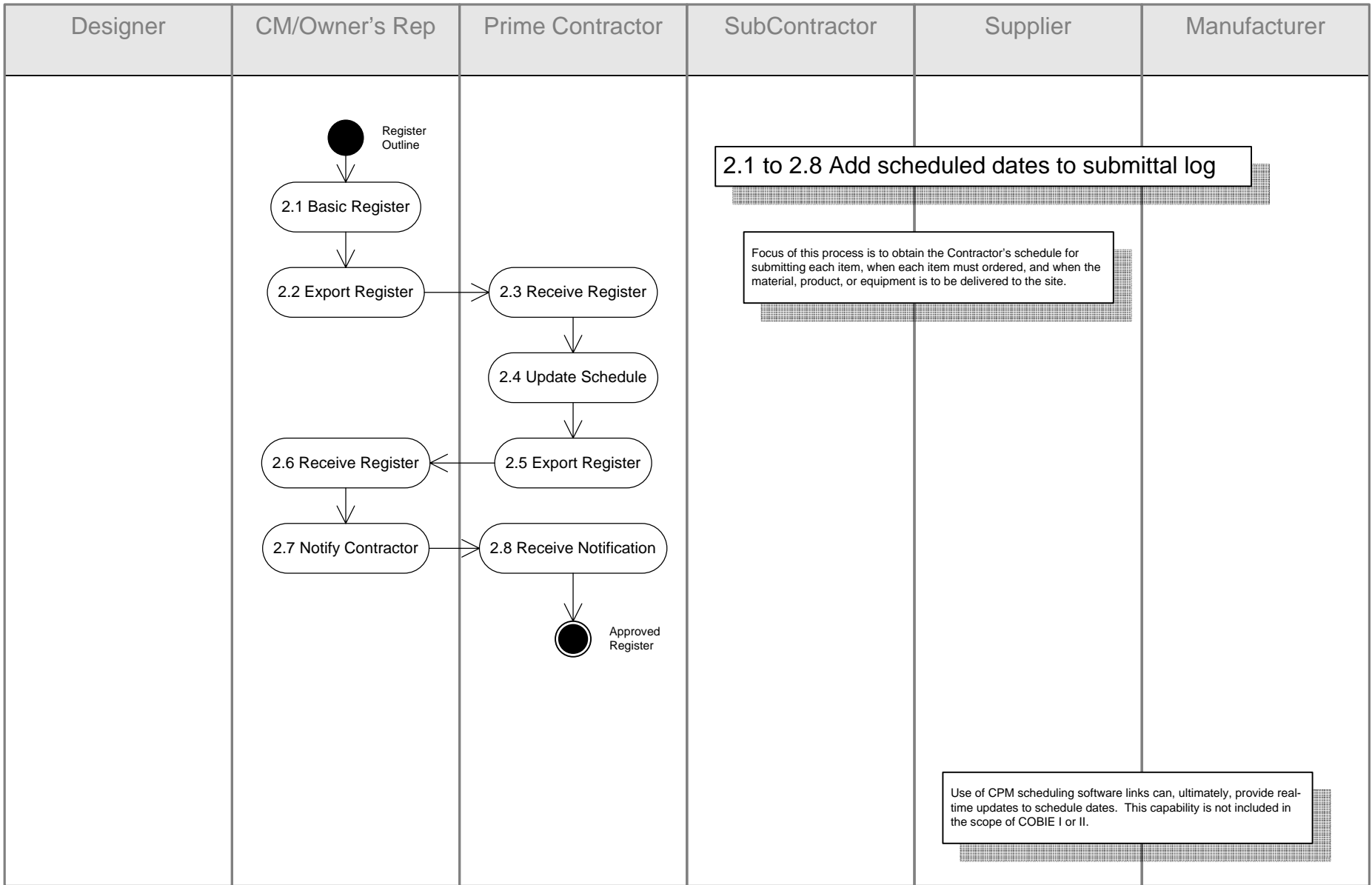


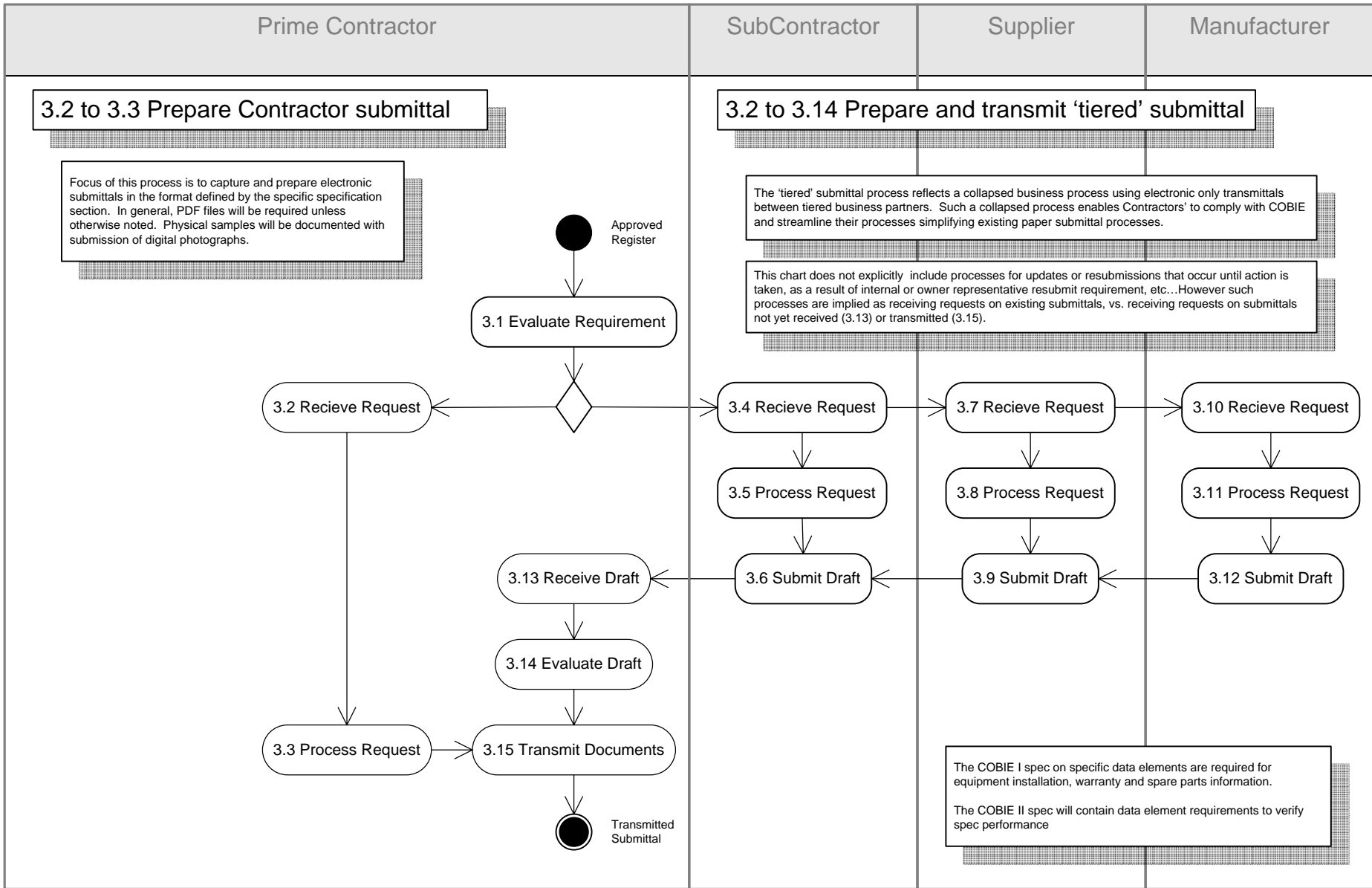
Communications will need to be supported in both a batch mode, to initialize the submittal log, and in a message mode, to provide individual change transactions.

COMPANY  <b>US Army Corps of Engineers</b>	BUSINESS PROCESS Identify Submittal Requirements	
	APPROVAL STATUS COBIE2006. Draft	DRAWING DATE 10-Apr-06
PREPARED BY BILL EAST	FILENAME 2006-04-10-STEP1.VSD	PAGE 1 OF 1



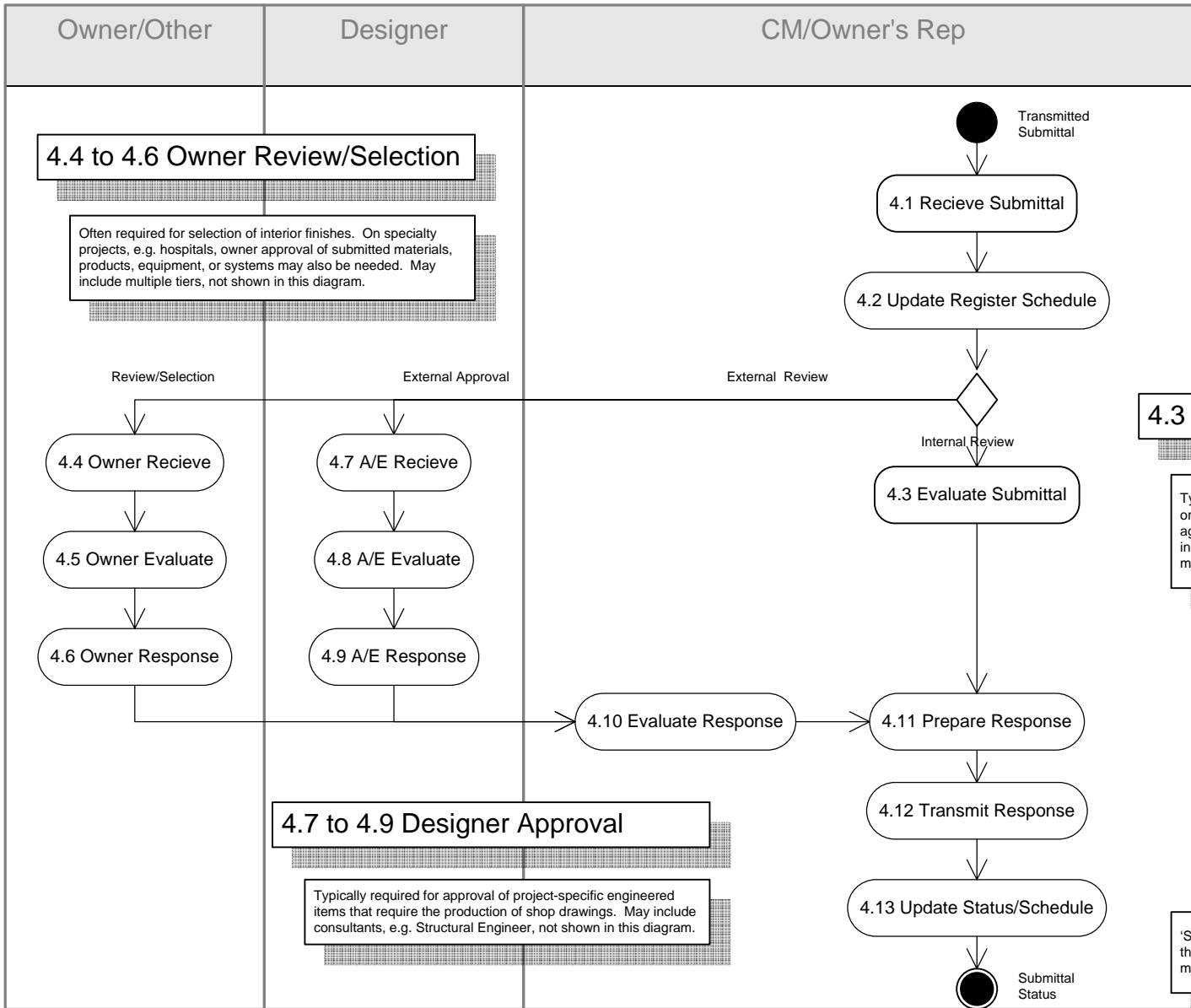
Communications will need to be supported in both a batch mode, to initialize the schedule dates, and in a message mode, to provide individual change transactions.

COMPANY	BUSINESS PROCESS	
 <b>US Army Corps of Engineers</b>	Define Submittal Schedule	
	APPROVAL STATUS	DRAWING DATE
PREPARED BY	FILENAME	PAGE
BILL EAST	2006-04-10-STEP2.VSD	1 OF 1
	COBIE2006. Draft	10-Apr-06



Communications will need to be supported in a packet mode where individual packets include PDF, CADD, image and other file formats, as well as specified meta-data.

COMPANY  <b>US Army Corps of Engineers</b>	BUSINESS PROCESS <p style="text-align: center;">Transmit Submittal</p>	
PREPARED BY <p style="text-align: center;">BILL EAST</p>	APPROVAL STATUS <p style="text-align: center;">COBIE2006. Draft</p>	DRAWING DATE <p style="text-align: center;">10-Apr-06</p>
	FILENAME <p style="text-align: center;">2006-04-10-STEP3.VSD</p>	PAGE <p style="text-align: center;">1 OF 1</p>




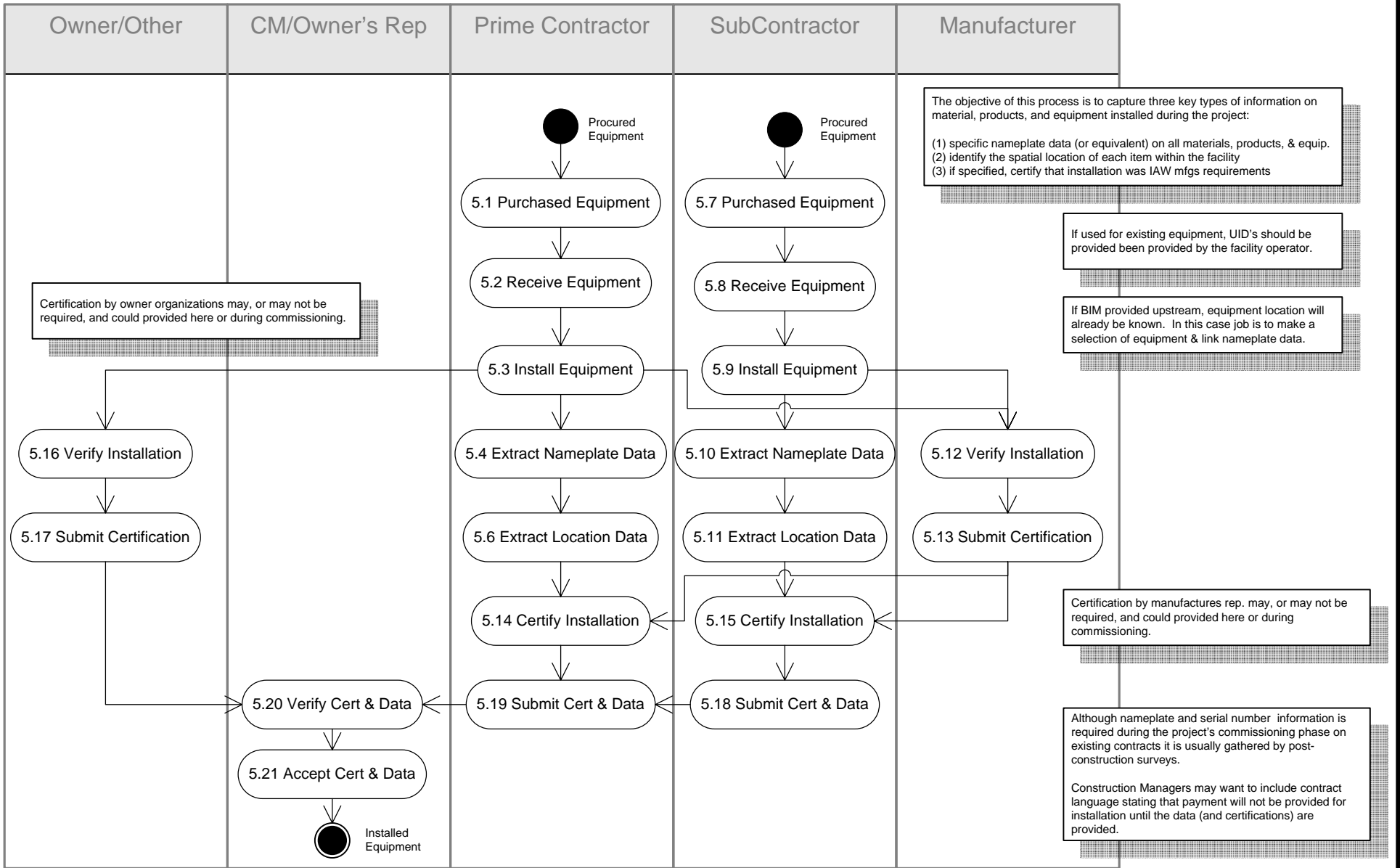
**4.3 CM Receipt Acknowledged**

Typically required for submittals not requiring external approval or selection. Objective of evaluation is to verify compliance against performance specifications. Deviation requests, not included in COBIE I & II may also require evaluation of or-equal material, product, or equipment options.

'Submittal Status' state is transformed to "Procured Equipment" through supply Contractor/sub chain. Supply Chain management is outside the scope of the COBIE project.

Communications will need to be supported in a packet mode where individual packets include marked-up PDF, CADD, image and other file formats, as well as specified meta-data that provides status of individual submittals.

<p>COMPANY</p>  <p><b>US Army Corps of Engineers</b></p>	<p>BUSINESS PROCESS</p> <p>Approve Submittal</p>	
<p>PREPARED BY</p> <p>BILL EAST</p>	<p>APPROVAL STATUS</p> <p>COBIE2006. Draft</p>	<p>DRAWING DATE</p> <p>10-Apr-06</p>
	<p>FILENAME</p> <p>2006-04-10-STEP4.VSD</p>	<p>PAGE</p> <p>1 OF 1</p>



Communications will need to be supported in a packet mode where individual packets include marked-up PDF, CADD, image and other file formats, as well as specified meta-data that provides status of individual submittals.

Update processes or discrete processes for submitting nameplate, location, and certification information at different times are not included in this chart and must be considered during implementation of these processes.

This process includes Contractor installed Owner-Furnished Equipment.

COMPANY



**US Army Corps of Engineers**

PREPARED BY

BILL EAST

BUSINESS PROCESS

Install Equipment

APPROVAL STATUS

COBIE2006. Draft

FILENAME

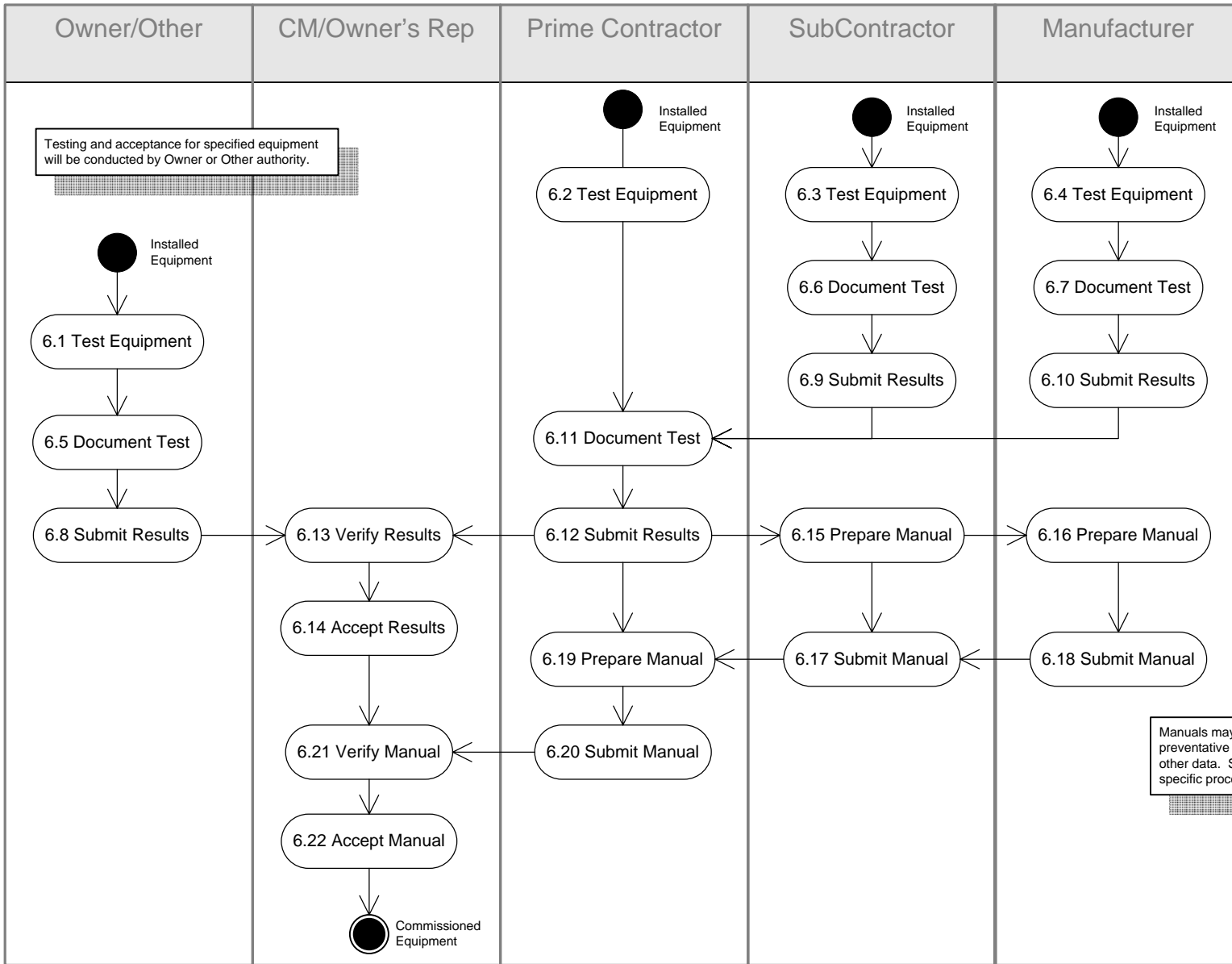
2006-04-10-STEP5.VSD

DRAWING DATE

10-Apr-06

PAGE

1 OF 1




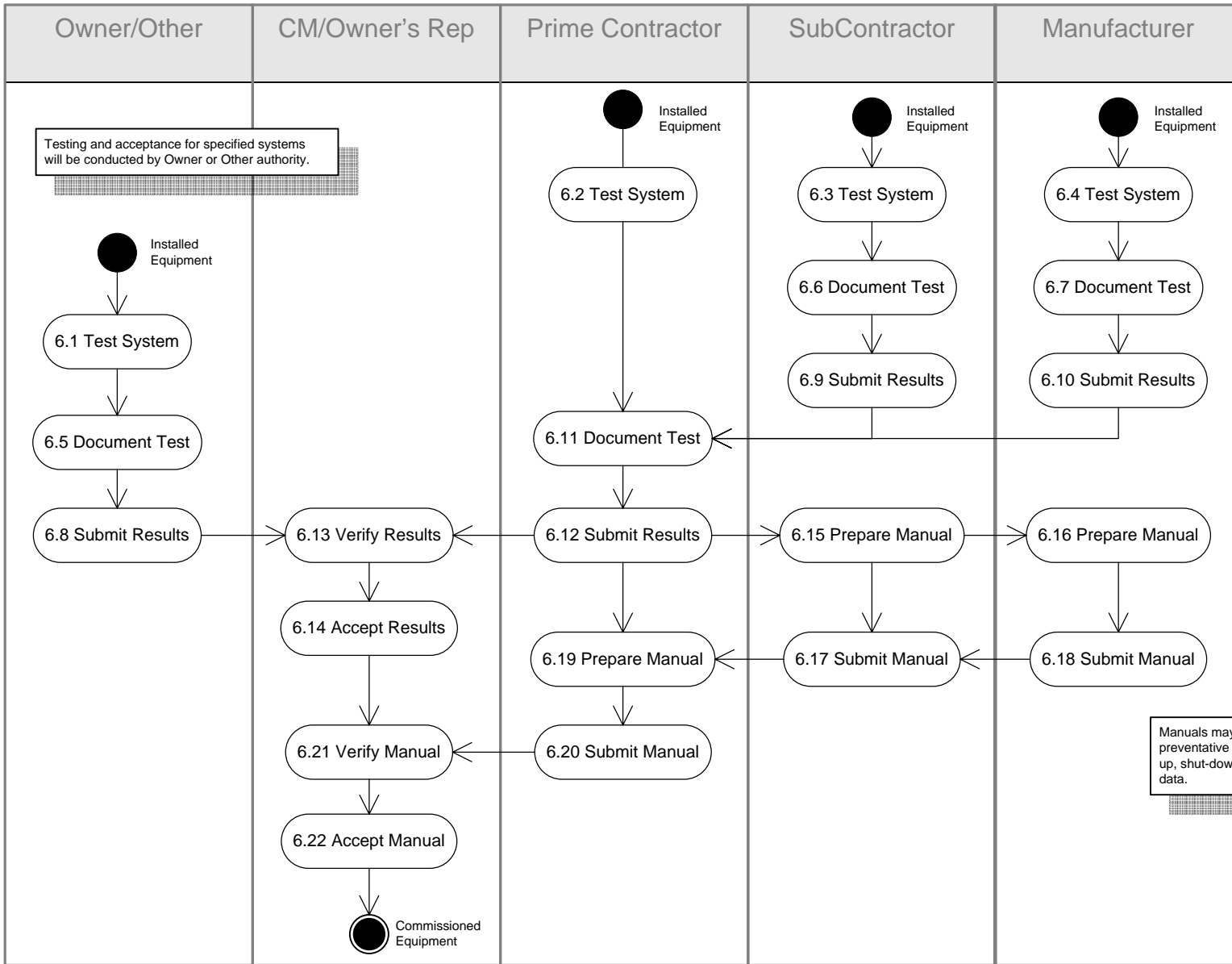
Equipment testing and acceptance for the majority of facilities conducted by Contractor or Subcontractor.

Equipment testing and acceptance are also accomplished by manufacture's representatives if so specified.

Manuals may include a variety of materials including preventative maintenance schedules, repair manuals, and other data. Spare parts and warranties are covered under specific processes on later charts.

Communications will need to be supported in a packet mode where individual packets include marked-up PDF, CADD, image and other file formats, as well as specified meta-data that provides status of individual submittals. Submission of test results from different sources and at different times than when manual information is provided is likely.

COMPANY	BUSINESS PROCESS	
 <b>US Army Corps of Engineers</b>	Commission Equipment	
	APPROVAL STATUS	DRAWING DATE
PREPARED BY	FILENAME	PAGE
BILL EAST	2006-04-10-STEP6A.VSD	1 OF 1
	COBIE2006. Draft	10-Apr-06




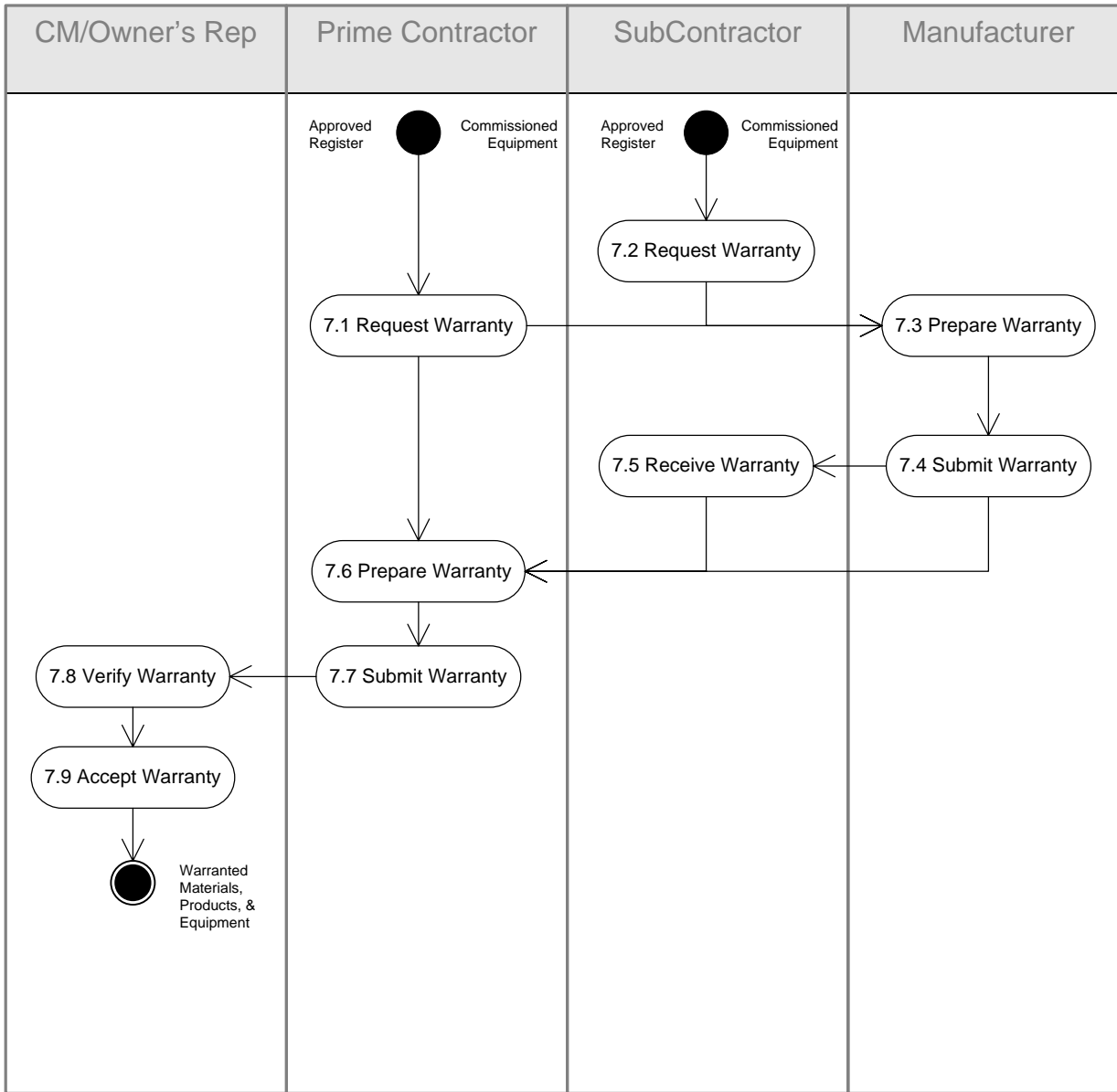
System testing and acceptance for the majority of facilities conducted by Contractor or Subcontractor.

System testing and acceptance are also accomplished by manufacture's representatives if so specified.

Manuals may include a variety of materials including preventative maintenance schedules, repair manuals, start-up, shut-down, emergency operation procedures, and other data.

Communications will need to be supported in a packet mode where individual packets include marked-up PDF, CADD, image and other file formats, as well as specified meta-data that provides status of individual submittals. Submission of test results from different sources and at different times than when manual information is provided is likely.

COMPANY	BUSINESS PROCESS	
 <b>US Army Corps of Engineers</b>	Commission System	
	APPROVAL STATUS	DRAWING DATE
PREPARED BY	FILENAME	PAGE
BILL EAST	2006-04-10-STEP6B.VSD	1 OF 1
	COBIE2006. Draft	10-Apr-06




Items that require warranties are identified in the submittal log but should not be accepted until equipment has been accepted during the commissioning as part of an operational system.

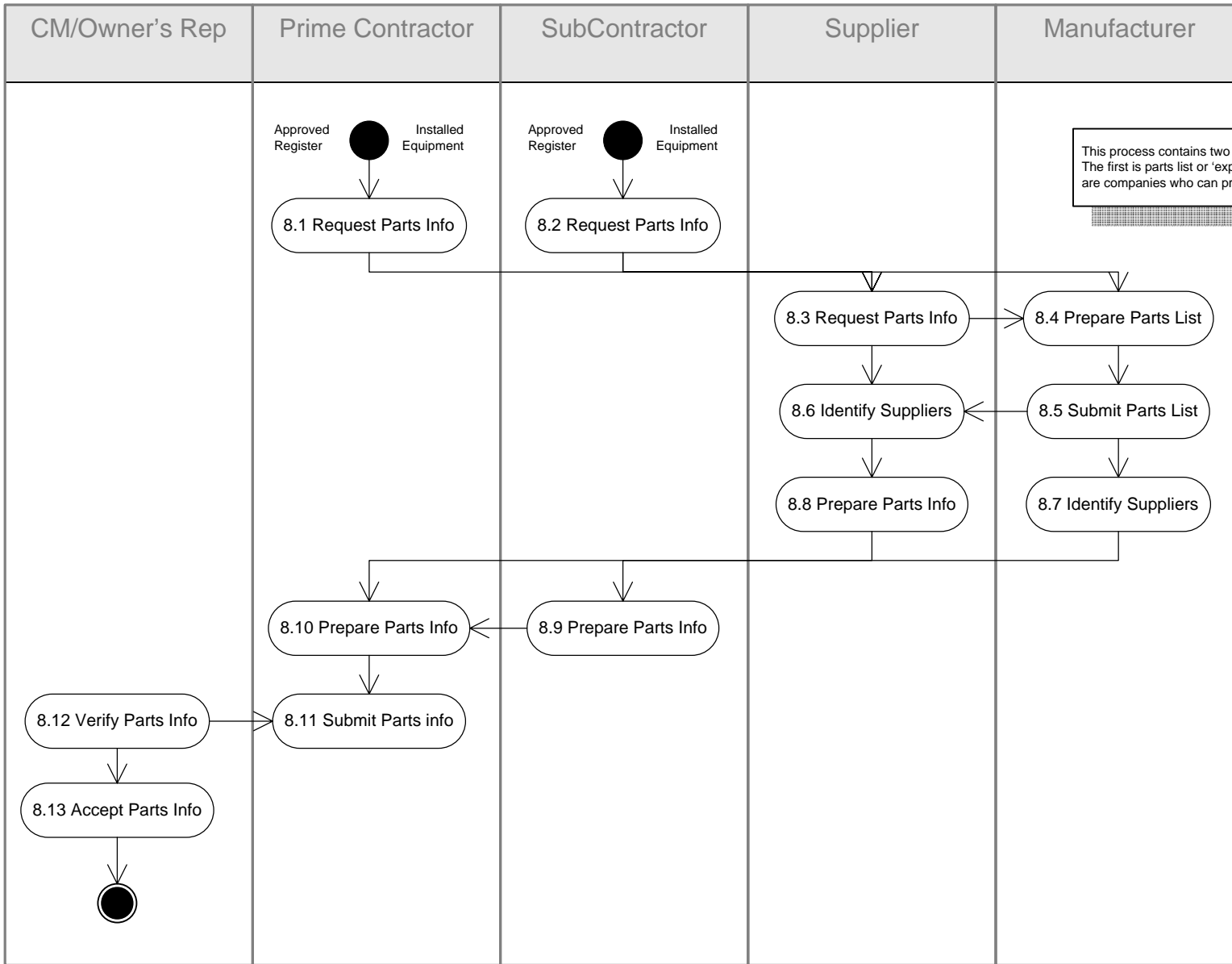
The actual date that the warranty starts is outside the scope of the COBIE project discussion.

Communications will need to be supported in a packet mode where individual packets include a PDF of the warranty certificate and data as specified to identify duration of warranty, related equipment and/or systems, and guarantor.


This chart does not consider updates or changes needed to existing or previously provided warranty data. Such activities are part of this process, but not described in this chart.

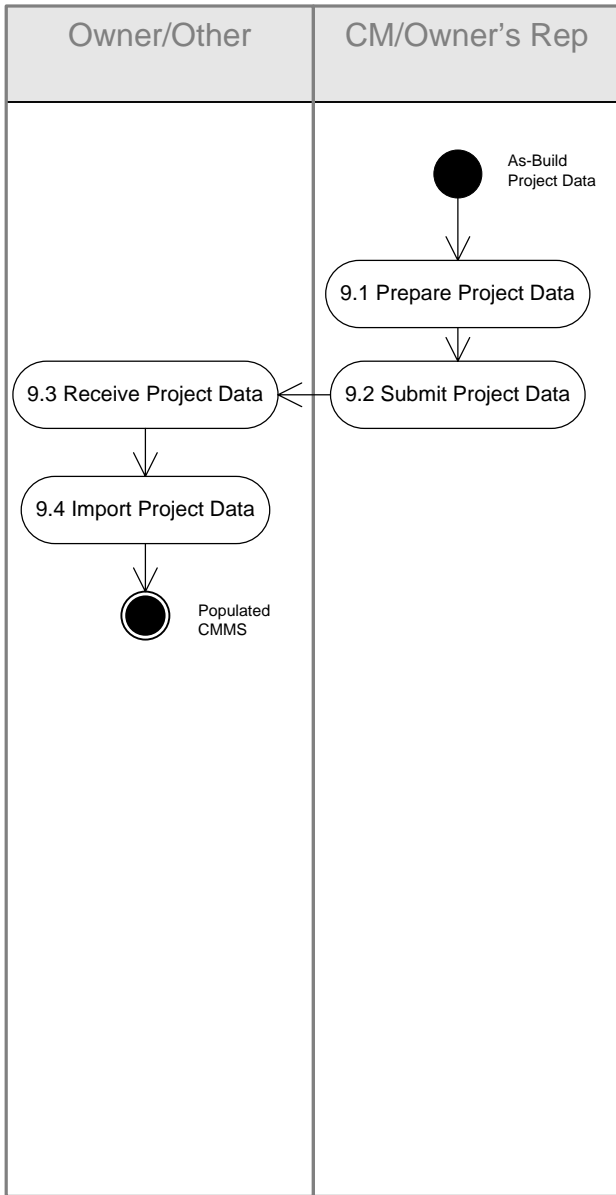
COMPANY  <b>US Army Corps of Engineers</b>	BUSINESS PROCESS Provide Warranty	
	APPROVAL STATUS COBIE2006. Draft	DRAWING DATE 10-Apr-06
PREPARED BY BILL EAST	FILENAME 2006-04-10-STEP7.VSD	PAGE 1 OF 1





Communications will need to be supported in a packet mode where individual packets including PDF, spreadsheet, and specific data is provided and linked to related material, products, and equipment.

COMPANY	BUSINESS PROCESS	
 <b>US Army Corps of Engineers</b>	Provide Spare Parts Sources	
	APPROVAL STATUS	DRAWING DATE
PREPARED BY	FILENAME	PAGE
BILL EAST	2006-04-10-STEP8.VSD	1 OF 1
	COBIE2006. Draft	10-Apr-06




The complete set of O&M and as-built facility information is to be provided by the CM/Owner's Rep to the Owner or Owners Operation and Management agent.

COBIE II specification will allow designers to identify if submittals are for items that represent "permanent" or "movable" installed products and equipment. This will facilitate the counting of items during turn over of overall building data.

COBIE II will also require the OMNIClass identification of equipment, and building functional types in accordance with the OmniClass categorization. Owner's will need to map their internal taxonomies to the OmniClass scheme.

Note that COBIE I and II do not include information regarding the full range of Asset Management information required by most asset management offices. Information explicitly excluded from COBIE is information related to size of building functional spaces, and similar real property 'capacity'

Communications will need to be supported in a batch and packet mode where the initial load will contain the majority of the data, but some data may need to be updated or re-sent.

COMPANY  <b>US Army Corps of Engineers</b>	BUSINESS PROCESS Transmit Handover Information	
PREPARED BY BILL EAST	APPROVAL STATUS COBIE2006. Draft	DRAWING DATE 10-Apr-06
	FILENAME 2006-04-10-STEP9.VSD	PAGE 1 OF 1