

RDT Equipment Mobilization

White Paper

[version 01]

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1 Purpose

Equipment mobilization in the Oil Field Services (OFS) industry involves all activities related to transporting: equipment, equipment components, tools, spare parts, and supplies needed for a particular job, i.e:

- mobilization planning,
- transportation,
- receipt, and
- reporting

Transportation may involve one or more trucks / transportation vehicles. Two or three trucks are not uncommon. Complex mobilization operations could involve many transportation vehicles (trucks, helicopters, etc)

The purpose of the RDT Equipment Mobilization solution is providing an easy-to-use “Front-End” for already available standard SAP ECC functionality in SD, MM, PM, PS, AA.

Ease-of-use is very important for this business process, given:

- the number of equipment, tools, and supplies needed for most jobs,
- the variable structure (components) of the main equipment to be transported
- significant frequency of transports (from daily to weeks or months in between jobs),
- complexity of the transport itself (number of trucks, heli's, etc)
- the many (and often remote) locations typically served by the OFS company,
- the need for unambiguous identification of equipment that is
 - suitable,
 - available, and
 - in close proximity of a particular job,
- management of complex transports,
- and also the need for transportation documentation

2 Features & Benefits

The RDT Equipment Mobilization solution for preparing equipment to be sent to location consists of three main components:

1. Mobilization Planning: This component consists of three sub-components:
 - a. Mobilization Initiation: Creation of a mobilization order by the job coordinator or planner.
 - b. Requirements Definition: Identification of the type of equipment, components, tools, spare parts or other supplies and the required quantities.
 - c. Equipment Assignment: Once all requirements have been identified, specific equipment is reserved based on location and availability. Components and tools of associated with the main equipment are automatically proposed to be included in the transport. The assignment proposal can be enhanced with customer specific rules.

NOTE: Equipment assignment is tightly integrated with the Equipment Management, Maintenance, and Engineering functions in an organization.

2. Transportation: The reserved equipment, tools, supplies are transported to the job location.
3. Arrival Confirmation: Confirmation of all equipment, tools, supplies that have arrived on the job location. The “arrival confirmation” function and the transportation function (see above) can be integrated with equipment scanning technology, such as RFID.
4. Mobilization Reporting: The purpose of Mobilization Reporting is to answer questions such as: “What equipment is available in my region” or “Where are all my Pumping Units?”. To answer these questions, and more, Mobilization Reporting provides visibility of:
 - a. equipment by location, or
 - b. locations by type of equipment, together with
 - c. various grouping & drill-down capabilities for both the location and the equipment objects.
5. Mobilization Reversal: Steps 1 to 3 above describe the mobilization of equipment, tools, supplies to be sent to a particular job. Once a job is completed, the equipment (etc) must be returned or transported elsewhere. Various scenarios are or will be supported by the RDT Equipment Mobilization solution:
 - a. Equipment, tools, supplies to be returned to the yard
 - b. Equipment, tools, supplies to be moved to another location / project
 - c. Equipment, tools, supplies, to be retained on site for another job (same contract or different contract).
 - d. Recording of lost equipment, tools, supplies.

The RDT Equipment Mobilization solution supports (real-time) integration with other functions such as:

- Maintenance: Preventive maintenance plans, equipment upgrades etc
- Finance: Financial implications of equipment moves across legal entities.

Diagram: Contract to Cash Overview

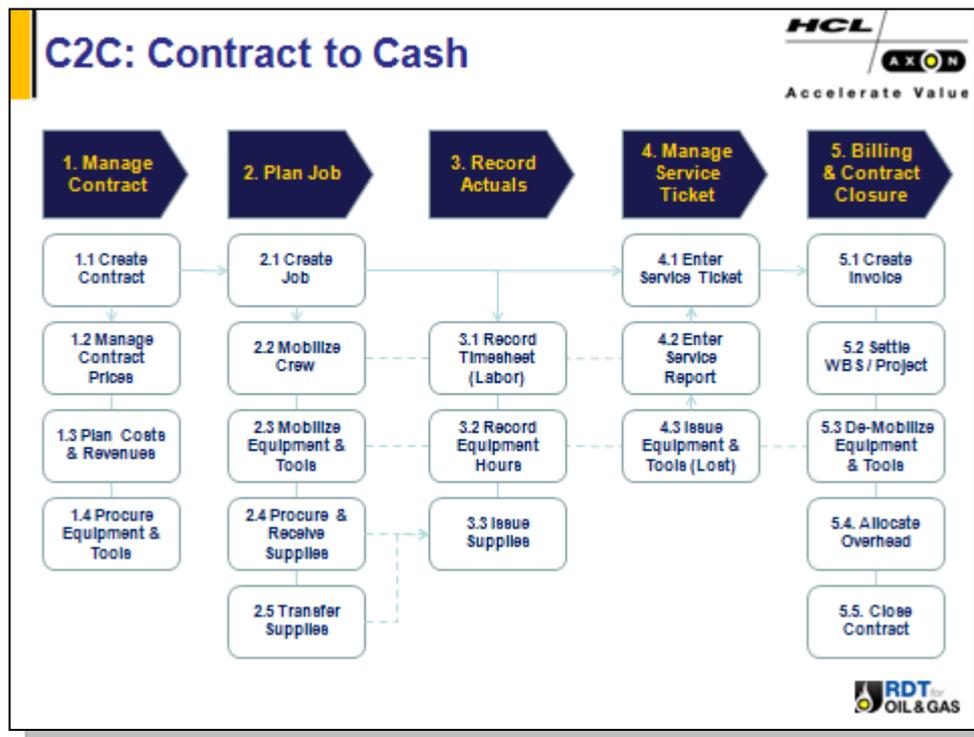
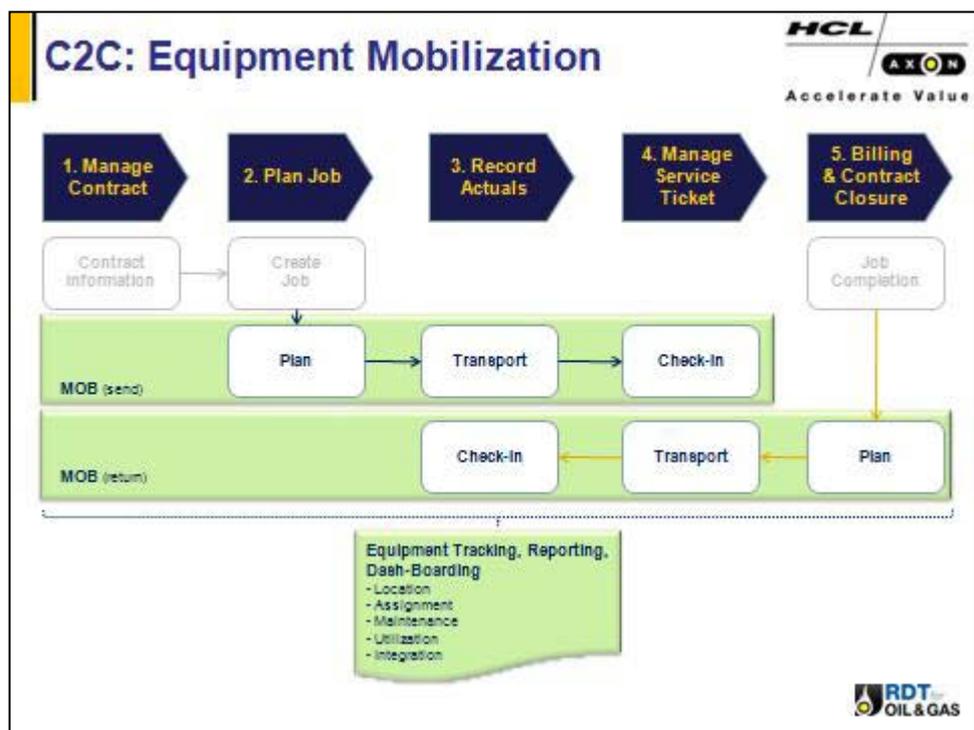


Diagram: Equipment Mobilization Overview



(C2C = Contract-to-Cash)

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