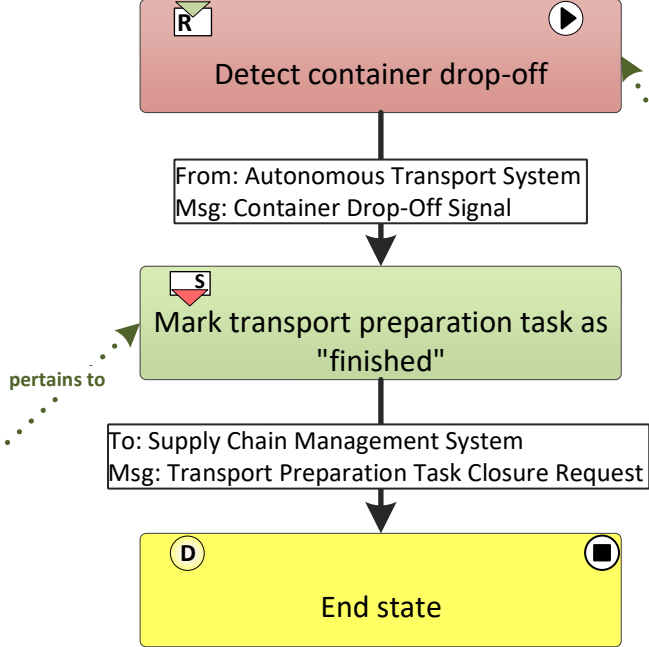


**Requirement ID:** R14  
**Requirement Type:** MA Requirement  
**Requirement Description:** The OLSS should provide a notification feature to inform a HA about issues concerning the communication with the SCMS and possible solutions.  
**Requirement Priority:** High  
**Possible Adaptations:** The OLSS behavior is adapted to send a notification message after a timeout. The process supervisor receives the notification message on their smartphone and then resolves the issue.  
**Comment/Underlying Reasoning:** See attached concern annotation.

**Requirement ID:** R14-1  
**Requirement Type:** MA Requirement  
**Requirement Description:** The content of the notifications in R13 should be automatically generated and adapted based on available problem-related information, such as network errors.  
**Requirement Priority:** High  
**Possible Adaptations:** Before a notification is sent, its content is generated based on a predefined list of matching problem and solution characteristics.  
**Comment/Underlying Reasoning:** See attached concern annotation.

**Concern Annotation Creators:** CPS Designers  
**Covered Concern:** HMT (Process Problem - Action - What if this action does not complete or does not complete on time?)  
**Potentially Affected Stakeholders:** Logistics Center Workers  
**HMT-Dimension Analysis:**

- *Transparency (Observability)*  
The Outbound Location Sensor System (OLSS) detects a problem (related to communication) based on a defined timeout.
- *Transparency (Predictability)*  
na
- *Augmented Cognition (Directing Attention)*  
The OLSS sends a notification message to the HA.
- *Augmented Cognition (Solution Exploration)*  
The notification message specifies the suspected problem (including any error messages that may have occurred) and provides respective suggestions to help resolve the issue.
- *Augmented Cognition (Adaptability)*  
The problem description and resolution suggestions provided by the OLSS are tailored based on the available problem-related information.
- *Coordination (Directability)*  
na
- *Coordination (Calibrated Trust)*  
na
- *Coordination (Common Ground)*  
- The HA is referred to manuals for the OLSS and SCMS, as well as an internal document listing common network errors.  
- The HA is referred to a network technician in order to help resolve the problem.



**Concern Annotation Creators:** CPS Designers  
**Covered Concern:** HMT (Process Problem - Action - What if this action does not complete or does not complete on time?)  
**Potentially Affected Stakeholders:** Logistics Center Workers  
**HMT-Dimension Analysis:**

- *Transparency (Observability)*  
The HA checks the outbound location and open transport preparation task information periodically in order to identify detection malfunctions.
- *Transparency (Predictability)*  
na
- *Augmented Cognition (Directing Attention)*  
na
- *Augmented Cognition (Solution Exploration)*  
na
- *Augmented Cognition (Adaptability)*  
na
- *Coordination (Directability)*  
na
- *Coordination (Calibrated Trust)*  
na
- *Coordination (Common Ground)*  
na

**Requirement ID:** R13  
**Requirement Type:** HA Requirement  
**Requirement Description:** A HA needs to periodically check the outbound location and open transport preparation task information in order to identify and resolve malfunctions.  
**Requirement Priority:** Medium  
**Possible Adaptations:** A separate process needs to be established, which lies outside the scope of the current models.  
**Comment/Underlying Reasoning:** See attached concern annotation.

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