**Filter Information From ERTMS Trackside**

**Authors:**

Baseliyos Jacob, Stéphane Bésure, Yoann Guyot

**Reviewers:**

Reviewers of this document

**Date and version:**

31/10/2013 - v1 - creation

**Input documents:**

Subset 26

**Description**

description

add schema here

relevant « filter » occurrences in Subset-26 :

* SUBSET-026-4-v330\_Modes-And-Transitions.txt:4.3.1.4 This document describes how the received information is filtered, respect to several criteria such as the level, the mode, etc.. (see chapter 4.8 “Acceptance of received information”).
* SUBSET-026-4-v330\_Modes-And-Transitions.txt:4.8.1.2 The following sections have to be interpreted by applying the filters as shown in Figure 3. The first filter is detailed in section 4.8.3 “Accepted information depending on the level and transmission media”, the third filter in section 4.8.4 “Accepted information depending on the modes”.
* SUBSET-026-4-v330\_Modes-And-Transitions.txt:Figure 3: schematic representation of the filtering of received information:
* SUBSET-026-4-v330\_Modes-And-Transitions.txt:4.8.5.1 If an order to switch to level NTC, 1, 2 or 3 at a further location has been received, the ERTMS/ETCS onboard equipment shall be able to store in a transition buffer (see figure 3, first filter) three sets of information obtained from three filtered messages.
* SUBSET-026-4-v330\_Modes-And-Transitions.txt:4.8.5.2 If a RBC transition order has been received and the Handing Over RBC is still the supervising one, the ERTMS/ETCS onboard equipment shall be able to store in a transition buffer (see figure 3, second filter) three sets of information obtained from three filtered messages from the Accepting RBC.

**Functions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Occurrence** | **Type** | **Description** |
| Name | 1 | T\_Text |  |
| Definition | 1 | T\_Definition |  |
| *Input* | *0..n* | *T\_Variable* |  |
| *Output* | *0..n* | *T\_Variable* |  |
| *Local* | *0..n* | *T\_Variable* |  |
| *Parameter* | *0..n* | *T\_Constant* |  |
| *Requirement* | *0..n* | *T\_Requirement* |  |
| *Block* | *1 (optional)* | *T\_FunctionalBlock* |  |
| *Parent* | *0..1* | *T\_Function* |  |
| *Allocation* | *1* | *T\_System* | Kernel |
| Safety | 1 | Boolean |  |

**Variables**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Occurrence** | **Type** | **Description** |
| Name | 1 | T\_Text |  |
| Definition | 1 | T\_Definition |  |
| Source | 1 | T\_SourceDocument | Subset-26 |
| Nature | 1 | T\_VariableNature |  |
| MinimalValue | 0..1 | T\_Text |  |
| MaximalValue | 0..1 | T\_Text |  |
| SpecialValue | 0..n | T\_Text |  |
| Allocation | 1 | * Interface * Packet * Internal |  |
| *Requirement* | *1..n* | *T\_Requirement* |  |
| Store | 0..1 | T\_Variable |  |
| Resolution | 0..1 | T\_VariableNature |  |
| Safety | 1 | Boolean |  |

**Requirements**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Occurrence** | **Type** | **Description** |
| Name | 1 | T\_Text |  |
| Definition | 1 | T\_Definition |  |
| Nature | 1 | * Structural * Functional * Definition |  |
| Source | 1 | T\_SourceDocument | Subset-26 |
| Discussion | 1 (Optional) | T\_Text |  |
| Parent | 0..1 | T\_Requirement |  |
| Allocation | 0..1 | T\_System | Kernel |
| Safety | 1 | Boolean |  |

**Exported Requirements :**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Occurrence** | **Type** | **Description** |
| Name | 1 | T\_Text |  |
| Definition | 1 | T\_Definition |  |
| Source | 1 | T\_SourceDocument |  |
| Allocation | 0..1 | T\_System |  |
| Safety | 1 | Boolean |  |