On the fly VMS Messages setting among TCCs

CIS Practical Demostration Objectives and Design

Matteo Buganini – Autostrade Tech

Goals

- CIS Exchange Framework presentation
  - Service Requester and Service Provider Exchange
    - Exchange of Information to be processed
    - Exchange of Processing directives and feedbacks
  - Not Predefined Simplified TMPlan Management
    - Tailored Message on specific VMS to be displayed
      - Request + Feedback

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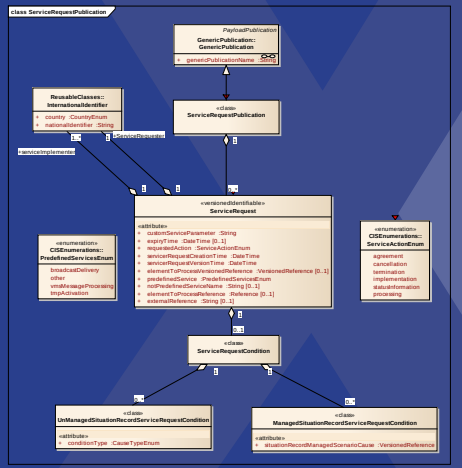
CIS and TMPlan Model on DATEX website

- Documentation available in DATEX Extensions Directory
  http://www.datex2.eu/content/datex-collaborative-its-services-and-traffic-management-plans-extension
  - CIS Use Case Description
  - CIS and TMPlan Extension Directory for 2.3 version
    - **CISExtension package**
      - **CIS Request and Feedback Delivery**
      - **CIS Workflow description**
    - **TMPlanExtension**
      - **TMP Workflow steps**
        - **TMPActivation Delivery**
        - **CIS Service Request and Feedback steps**
- CIS & TMPlan Extension Forum for discussions



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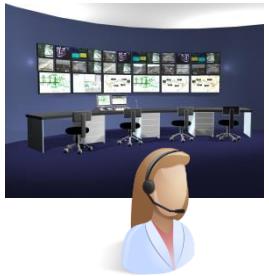
DATEX II Plug & Play
Supervisor and Road Management

Main goal: Exchange Information to Manage Road Operation



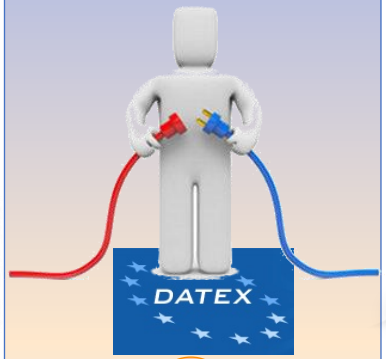
Monitoring

Decision

Operation

Legacy TCC system

Centre to Centre Communication by DATEX



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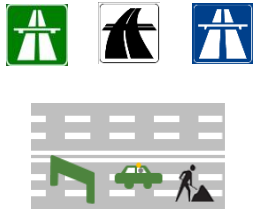
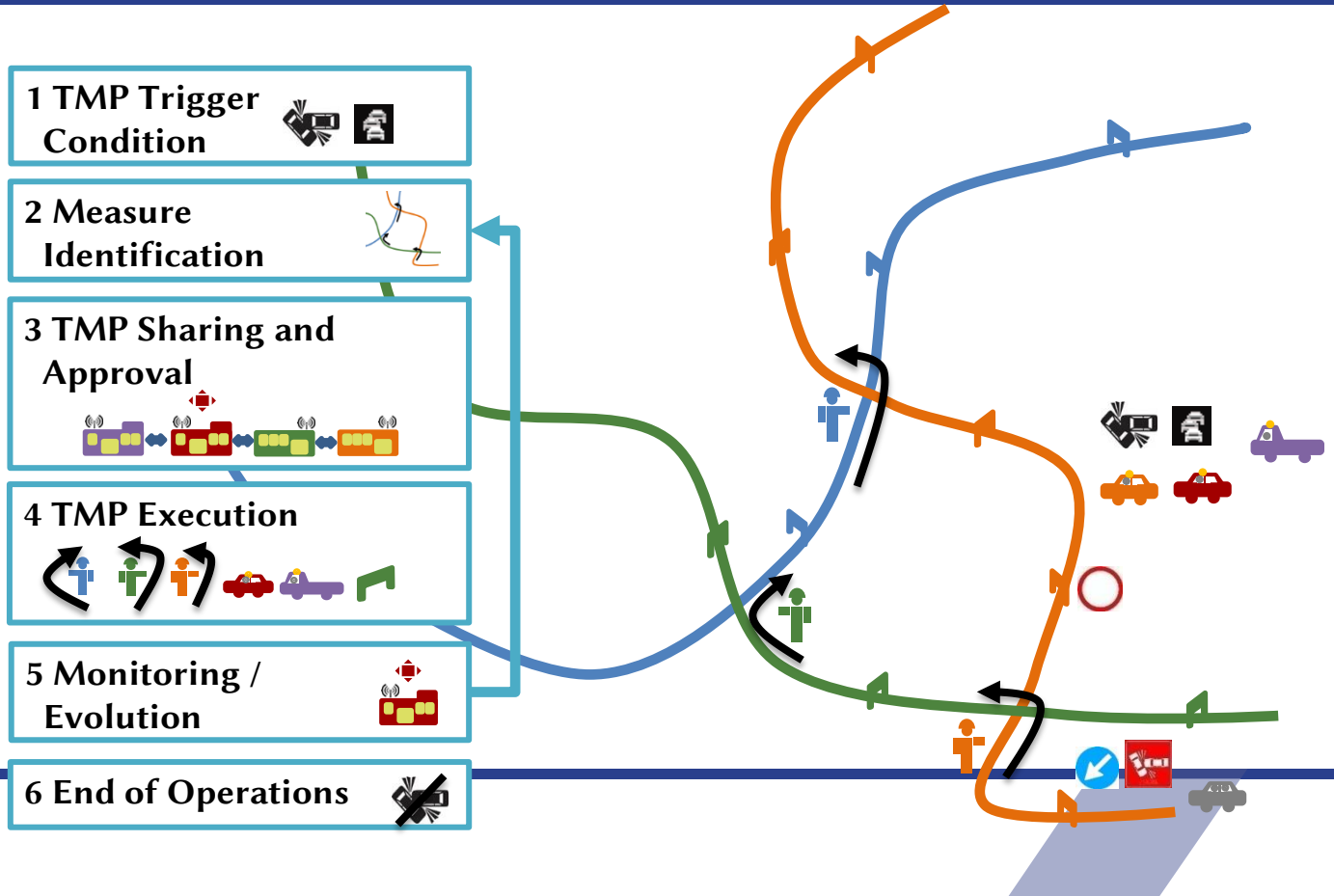


Operating TMPlans

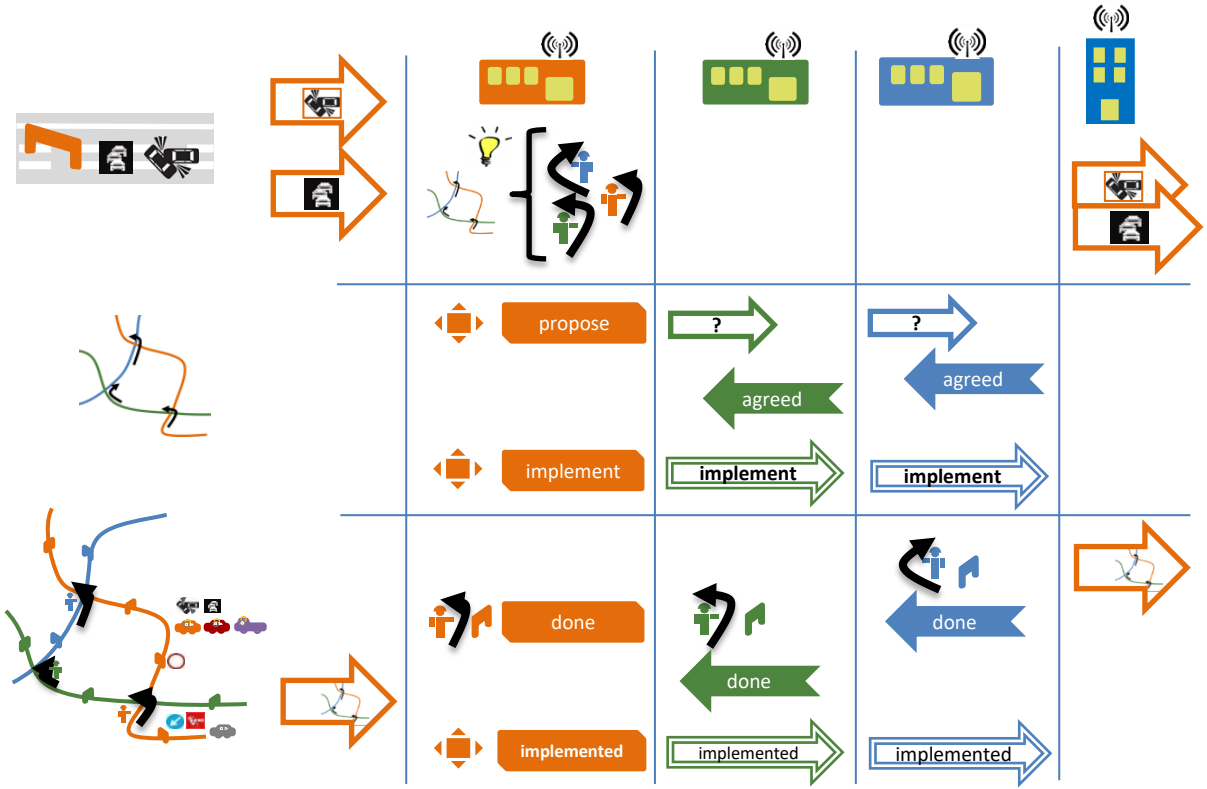


DATEX II TMPlan workflow management

Cohordinator

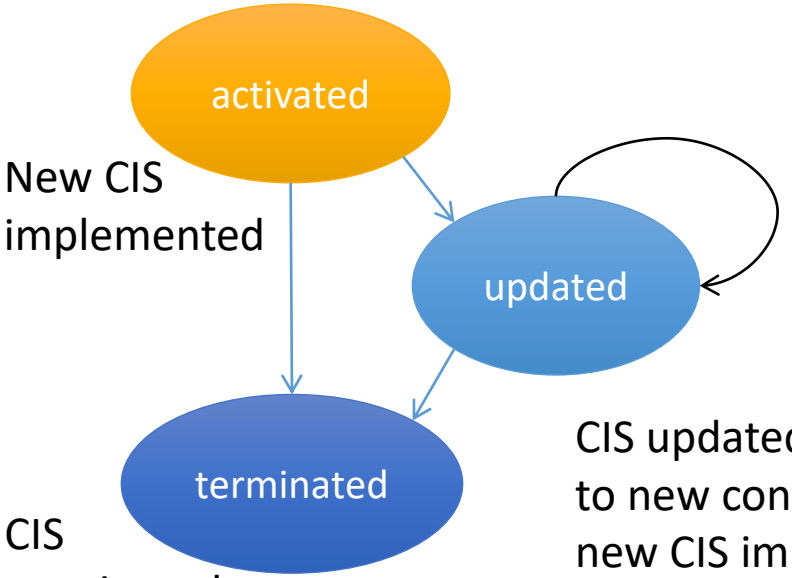
Node manage Workflow

Recognise Scenario and issue the First Request



CIS Operating and Lifecycle

CIS Activation Phases

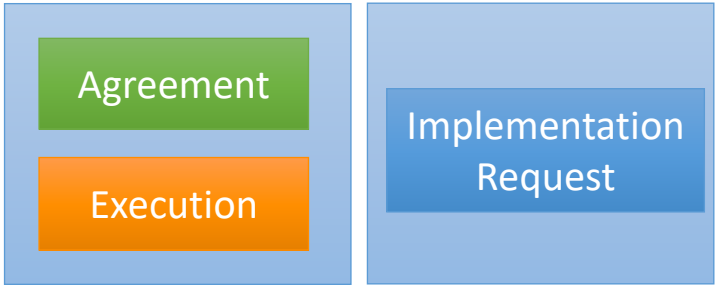


transition

CIS updated to new configuration: new CIS implemented

CIS Negotiation & Operation

2 phase vs 1 phase



activation
update
termination

succeed

fail

On the fly VMS Messages setting among TCCs

- Simplified Not Predefined TMPlan Management
  - Tailored Message on specific VMS to be displayed
    - Implementation Request + Feedback

Usually for situations not managed by TCC systems

- Unpredictable situations
- Non motorway managed situation (urban, show, exhibition)

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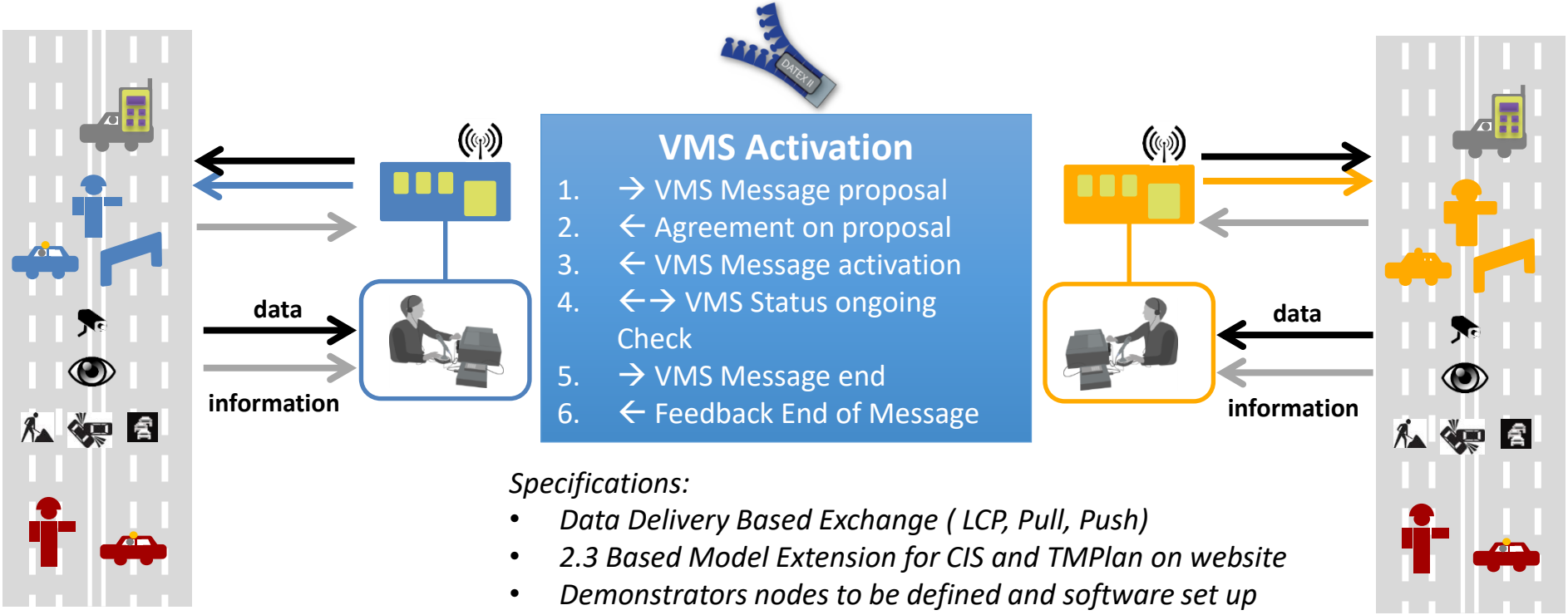
CIS VMS activation



Specifications:

- *Data Delivery Based Exchange (LCP, Pull, Push)*
- *2.3 Based Model Extension for CIS and TMPlan on website*
- *Demonstrators nodes to be defined and software set up*

Requirements List

	Requirement	implementation
A	Each TCC knows which VMS for displaying the messages and their format (text and pictos available)	Offline
B	Each TCC define messages to be displayed on VMS	TCC Software
C	CIS Exchange implemented by Data Delivery Exchange specs	LPC (Pull / Push)
D	Exchange of requested messages to be displayed to specific VMS	TMPlan (not predefined)
E	CIS Activation, Termination Request	Service Request
F	CIS Feedback	Feedback

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Thanks ..

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DATEX TMG

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