

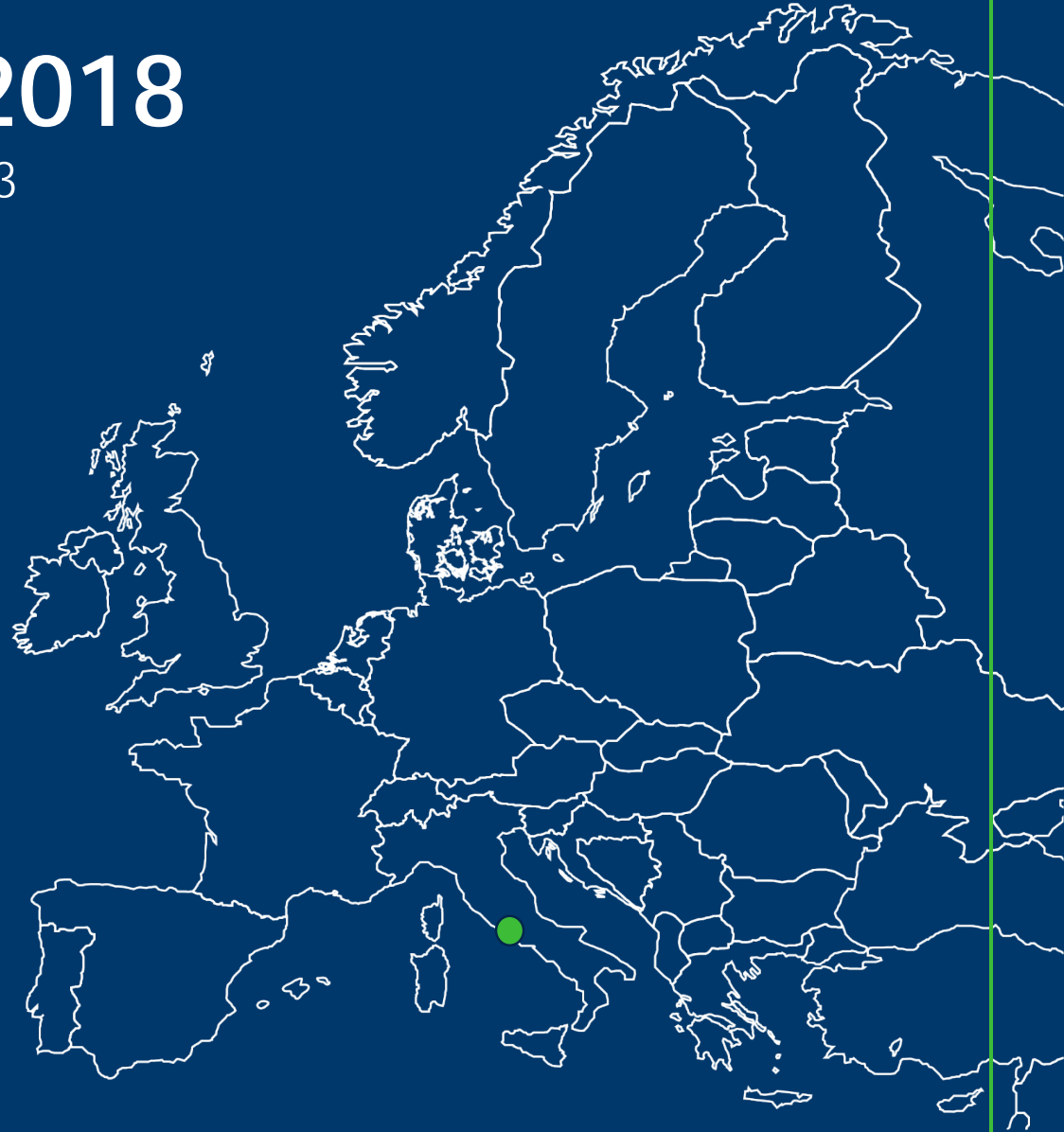
Eress Forum 2018

- UIC leaflet 930 & EN50463

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Eress

Rome,
13th of June, 2018



Standards in Railway Energy Billing

EN 50463:2007

> EN 50463:2012

>> EN 50463:2017

UIC Leaflet 930:2009

> UIC IRS 90930:2019



New features of 50463:

- Metering values (CEBD):
 - Standard format for Location value reduced from 3 to 1 (the one with the highest accuracy-level)
 - Consumption point ID format and content is expanded
 - Limited and standardized list of values to choose from for the Traction system code (optional field)
- Data transfer (CEBD):
 - Recommendation for transfer more than once a day.
 - EMS independent of DCS
 - File-formats standardized and limited to 2 formats, where one is strictly limited to CEBD and the other is an extended universally usable version of the first (for any type of values and transfers)
 - The User defined transfer method of 2012 (i.e. whatever you choose) is not an option anymore.
 - Added standardized messages and processes for communication between EMS and DCS beyond the CEBD transfer itself.

UIC: Role model 2009 (old)

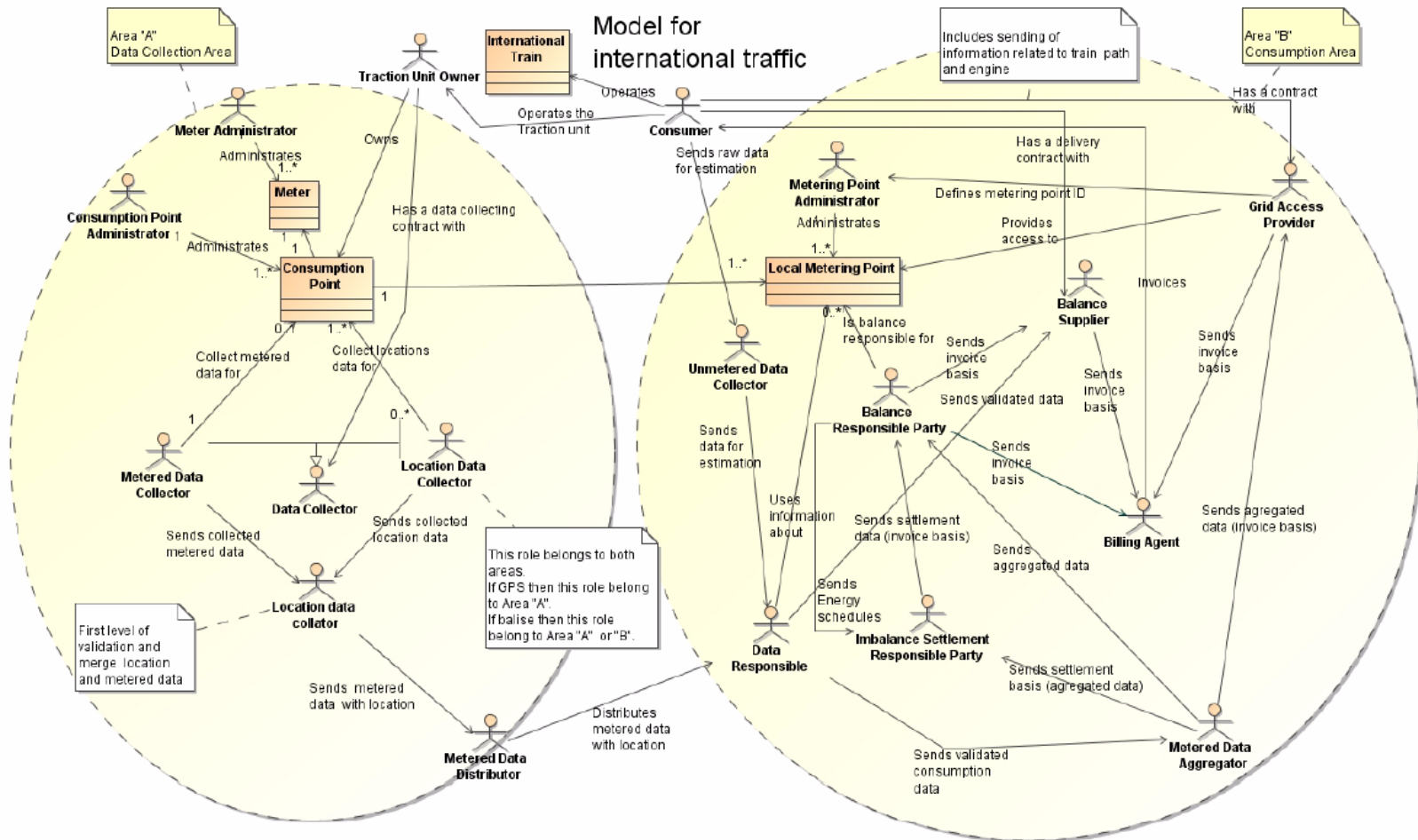
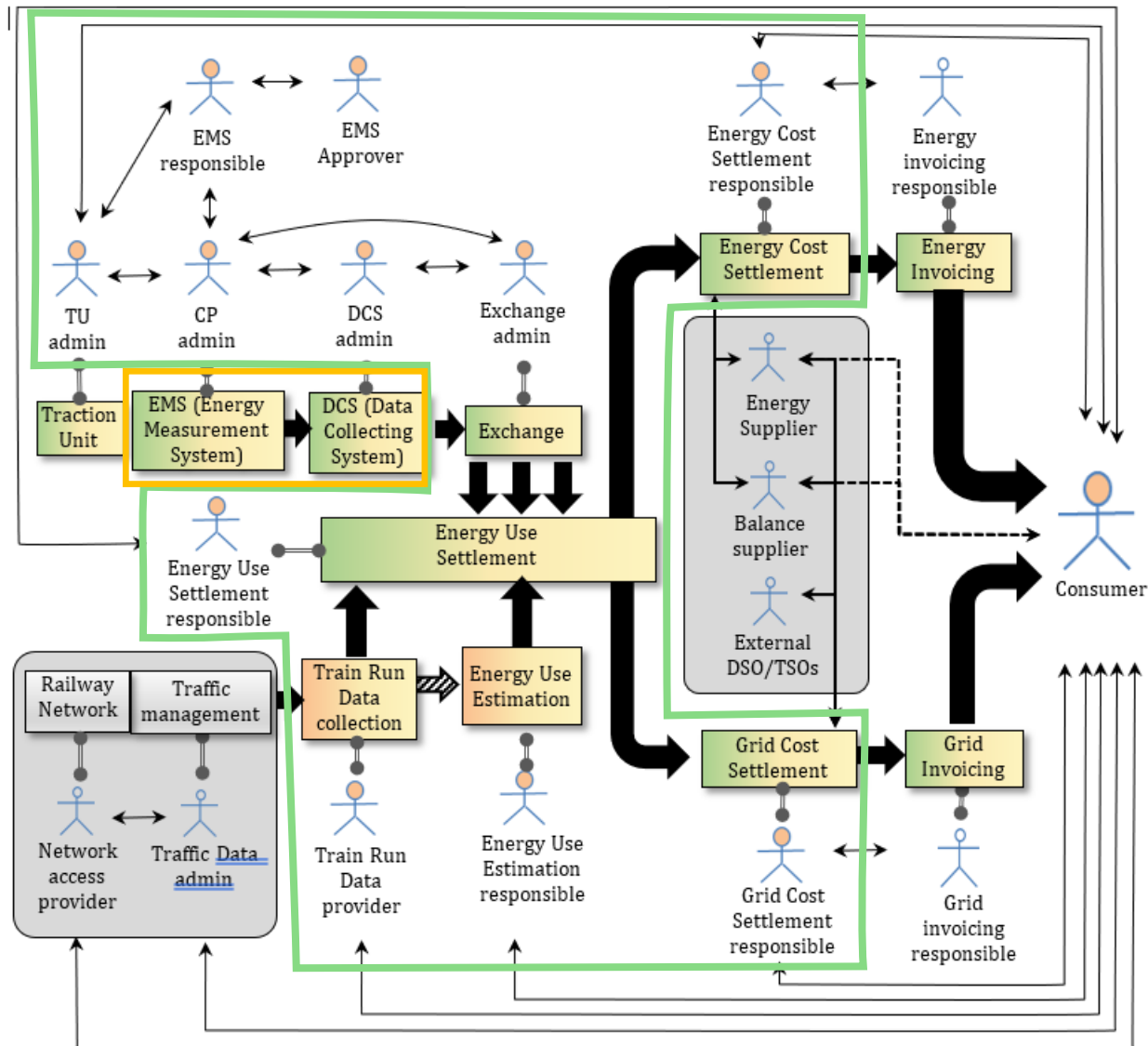


Fig. 2 - Role model diagram - Role model for Railway Energy Billing

UIC: Role model 2019 (new)



New features of UIC 90930:

(draft under development. i.e. not concluded or published yet)

- New Role model
 - Settlement role and function split into multiple unique roles with each their functions and requirements.
 - Some new roles introduced due to further development in market and regulations
 - Some new functions introduced to complete the role model and align with regulations and structure of the regular energy market.
 - Clearer interface and boundary between railway energy market roles and other roles (i.e. energy market roles etc.)



New features of UIC 90930:

(draft under development. i.e. not concluded or published yet)

- Topics introduced or evolved
 - Contracts and agreements
 - Types of data
 - CEBD
 - Masterdata
 - Train Run data
 - Auditing
 - IT security
 - Ownership of data and rights to view/use
 - Data storage time and archiving
 - Data delivery deadlines
 - Train Run Data collection



New features of UIC 90930:

(draft under development. i.e. not concluded or published yet)

Process-detailing introduced/evolved

- Equipment process
 - Consumer obtains Traction Unit with EMS
- Contractual process
 - Consumer enters contracts/agreements with commercial parties
- Service setup process
 - Consumer sets up agreements with service partners for CEBD flow to market
- Operational process
 - Consumer uses the traction unit and receives energy bills.
- Change/Retirement process
 - Consumer introduces changes to equipment or agreements that must be coordinated and agreed with the other parties.



UIC 90930: How to influence

(draft under development. i.e. not concluded or published yet)

**Join the UIC IRS 90930 Workgroup
and/or
Participate in stakeholder workshop
Q4-2018**

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