Installation type test summary – Report

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| --- | --- | --- | --- |
| Version | Creation date | Description | Authors |
| *1.0* | *xx-xx-2025* | *Draft* | *Eress Cross Acceptance Working Group\** |

Read the *Installation type test summary – Application guide* for explanations on how this report should get completed.

**Type test**

|  |  |
| --- | --- |
| Test entity / Notified Body |  |
| Date |  |
| Applied requirements LOC&PAS TSI:2014, 2018 or 2023, EN 50463:2012 or 2017 |  |
| Deviations To be used if not fully compliant, e.g. higher errors possible at low currents |  |
| Maintenance Plan Does Maintenance Plan has a process that guarantees that the reverification timings are respected for all metrological components (sensors, energy meter)? |  |

Add Conformity Assessment Certificate issued by a Notified Body. If applicable also add Intermediate Statement of Verification used for verification of Energy Measurement System (EMS) of specific equipment type on a Traction Unit Type.

**Contacts**

Expected entities and contact data (e.g. name of company and functional mail-address) for different roles related to the EMS of a specific type on a Traction Unit Type.

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| --- | --- |
| EMS Installer |  |
| Vehicle Keeper |  |
| Entity in Charge of Maintenance |  |
| Railway Undertaking  If already known and global for full series |  |
| DCS Admin Explain what Data Collecting System (DCS) is intended to be used |  |
| Exchange Admin  Explain which Infrastructure Manager will be responsible for allocating the consumptions to different Settlement Areas. |  |

**EMS of a specific equipment type**

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| EMS | Manufacturer |  |
| Product family name and version |  |
|  | Reverification General requirements for the reverification/recalibration of the EMS |  |

|  |  |  |
| --- | --- | --- |
| Sensor  AC Current (CMF) | Manufacturer Write ‘not applicable’ when not present |  |
| Product family name and version |  |
| Accuracy class From EN 50463-2 |  |
| Deviations To be used if not fully compliant |  |
| Measuring method Transformer, shunt, hall-effect, … |  |
|  | Rated primary current(s) |  |
|  | Reverification Requirements for the reverification/ recalibration of the sensor (incl. validity period) |  |
|  | | |
| Sensor  AC Voltage (VMF) | Manufacturer  Write ‘not applicable’ when not present |  |
| Product family name and version |  |
| Accuracy class From EN 50463-2 |  |
| Deviations To be used if not fully compliant |  |
| Measuring method Transformer, shunt, hall-effect, … |  |
|  | Rated primary voltage(s) |  |
|  | Reverification Requirements for the reverification/ recalibration of the sensor (incl. validity period) |  |

|  |  |  |
| --- | --- | --- |
| Sensor  DC Current (CMF) | Manufacturer  Write ‘not applicable’ when not present |  |
| Product family name and version |  |
| Accuracy class From EN 50463-2 |  |
| Deviations To be used if not fully compliant |  |
| Measuring method Transformer, shunt, hall-effect, … |  |
|  | Rated primary current(s) |  |
|  | Reverification Requirements for the reverification/ recalibration of the sensor (incl. validity period) |  |

|  |  |  |
| --- | --- | --- |
| Sensor  DC Voltage (VMF) | Manufacturer  Write ‘not applicable’ when not present |  |
| Product family name and version |  |
| Accuracy class From EN 50463-2 |  |
| Deviations To be used if not fully compliant |  |
| Measuring method Transformer, shunt, hall-effect, … |  |
|  | Rated primary voltage(s) |  |
|  | Reverification Requirements for the reverification/ recalibration of the sensor (incl. validity period) |  |

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| --- | --- | --- |
| Meter (ECF) | Manufacturer |  |
| Product family name and version |  |
| Accuracy class From EN 50463-2 |  |
|  | Reverification Requirements for the reverification/ recalibration of the meter (incl. validity period) |  |

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| --- | --- | --- |
| Data Handing System (DHS) | Manufacturer |  |
| Product family name and version |  |
| Available data structures  CEBDBlock, ReadingBlock, State, EventSet, Heartbeat, AssetData, (Change)CommunicationConfig |  |

**Traction Unit Type**

|  |  |
| --- | --- |
| Train builder |  |
| Product family name Name used by train builder, found on official documents |  |
| Local class-name Name used by RU in your country |  |
| Maximum Power (kW) Value at engine or at wheel. Use highest available value |  |
| Additional Power (kW) Value needed for hotel loads, traction losses and charging of on-board batteries |  |
| Maximum speed (km/h) |  |
| Electricity source 0 = not specified 1 = external (e.g. catenary) 2 = on-board (e.g. diesel) 3 = hybrid (= external and on-board) |  |
| Vehicle type 0 = not specified 1 = locomotive or power unit 2 = trainset or multiple unit 3 = shunter 4 = on track machine or infrastructure inspection vehicle |  |
| Electricity type used Choose one or more from list: 00 = not specified 01 = 25 kV 50 Hz AC 02 = 15 kV 16.7 Hz AC 03 = 3 kV DC 04 = 1.5 kV DC 05 = 750 V DC / 600 V DC |  |
| Possible combinations Add names of other Traction Unit Types that can be part of the same train |  |

**Delivered by**

|  |  |
| --- | --- |
| Company That delivers this document to Infrastructure Manager |  |
| Name |  |
| Signature |  |
| Date |  |

* This document was created by the Eress Cross Acceptance Working Group: Dyre Marting Gulbrandsen, Gregor Hribar, Asad Javed, Adrian Pieter, Reidun Jorgensen, Dag Stabell Storhaug, Bart Van der Spiegel, Claudia Van Diermen and Daniel Widmer.