

## Milestones for the implementation of SMART TACHOGRAPHS according Reg.EU 165/2014 and 799/2016





# From current Digital Tachograph GEN 1 To Smart Tachographs GEN 2

- Upgraded security mechanisms
- Daily work periods start/end records via GNSS
- Remote Early Detection Communication with enforcers
- Optional Intelligent Transport System (ITS) interface



### Regulation (EU) No 165/2014 New Technical Annex



### A suite of documents made of

- AN IMPLEMENTING REGULATION (EU) 799/2016, with
  - ANNEX IC
  - 1-16 APPENDIXES

specifying Smart Tachographs for their EU deployment in 2019, while maintaining and managing co-existence with current generation of GEN 1 Digital Tachographs, best possible consensus reached with all stakeholders



### Regulation (EU) No 165/2014 New Technical Annex



### WHAT ARE THE **NEXT** CHALLENGES?

❖ Adoption process (DG MOVE – CIS – Legal Services - Member States):

Implementing Act
Annex IC
Appendixes

expected to be (onsol dated, Translated and Adopted by March 2016

Adopted on March 18 – Published May 26

- ❖ Non-EU AETR to adhere via UN ECE to the new legislation (next meeting on 27/06)
- From Paper to Reality:
- Protection Profiles (on-going, process will be detailed)
- Test keys / ERCA 2 and new root keys (planning will be detailed)
- New MS security policies and New ERCA policy (second part of 2017)
- New card Issuing (when certified and type approved, 2018-2019)
- New interoperability certification: specs and laboratory up-grade (first part 2018)
- Industry cycle: design, development, prototypes, type-approval, field tests, production





### **AGENDA:** main steps

Date	Step
T0 = June 2016	Entry into force June 2016
November 2016	Protection Profiles Certified (T0 + 5)
December 2016	Test keys / certificates available to VU/MS/GNSS Modules/Cards suppliers
March 2018	Interoperability tests ready to start (T0 +21)
June 2018	Real keys / Real Certificates available to manufacturers (T0 +24)
March 2019	Latest date for GEN 2 Workshop cards availability (T0 +33)
May 2019	Second generation tachograph cards issuing (T0 +35)
June 2019	Introduction date = June 2019, from which: GEN 2 VU/MS installed in all concerned vehicles Only GEN 2 Cards issued and All types of GEN 2 Cards available

### **REGULATION (EU) 799/2016**



### AN IMPLEMENTING REGULATION, triggering a demanding agenda for **AUTHORITIES / JRC / INDUSTRY**

#### **AUTHORITIES**

- Order/extend/subcontract IT infrastructure compatible with new GEN 2 CRYPTO, to be tested with test keys (2017-2018) and to become operational with real keys (2018), once NATIONAL SECURITY POLICY is updated and approved
- Only test certificates resulting from a full process 'request for certificates' to ERCA and return will be accepted for interoperability certification
- Issue type approved GEN 2 cards for DRIVERS, WS, CONT, COMP (second half of 2018)
- Road Police to be equipped with Remote Interrogator (not urgent) and with updated Analysis Software (compatible with GEN 2, e.g. GNSS points)
- WORKSHOPS to be equipped with DSRC tester and with GEN 2WS card ASAP (GEN 1 WS card is not back compatible = no calibration, no activation)



### **REGULATION (EU) 799/2016**



### AN IMPLEMENTING REGULATION, triggering a demanding agenda for **AUTHORITIES / JRC / INDUSTRY**

#### **JRC**

- Finalize the PP (Protection Profiles according Common Criteria) for Components security certification (PP in November 2016)
- Deliver first 'samples' of test keys/test certificates for manufacturers (end 2016)
- Update of the Interoperability certification Specs and Lab (2017) to start early 2018, provided industry is ready with VU, CARDS,...
- Preliminary and partial interoperability 'verifications' can start as soon a GEN 2 components (CARD or VU) is available
- A new ERCA GEN 2 policy document in 2017
- A template for the NATIONAL POLICIES GEN 2 and review/approval of the NATIONAL POLICIES GEN 2 for all the parties
- Start of ERCA 2 services (demanding ERCA sessions with GEN 1/GEN 2 certificates delivery)



### **REGULATION (EU) 799/2016**



### AN IMPLEMENTING REGULATION, triggering a demanding agenda for **AUTHORITIES / JRC / INDUSTRY**

#### **INDUSTRY**

- Finalize the components design, compliant with regulation and type approvable (2017)
- Start production of first 'samples' and proceed with 'field tests', preliminary interoperability verifications and perform full 'type approval' process (FUNCTIONALITY, SECURITY, INTEROPERABILITY) in 2018
- Until a full set of equipment is not available (VU, CARDS, MS, DSRC, GNSS) no type approval can be finalized
- Prepare for the integration of GEN 2 Tachographs in the assembly plants and supply chain
- Market and register heavy vehicles in scope with new GEN 2 equipment respecting the introduction date (June 2019)





