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
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
WHAT ARE THE NEXT CHALLENGES?

- Adoption process (DG MOVE – CIS – Legal Services - Member States):
  - Implementing Act Annex IC expected to be Consolidated, Translated and Adopted by March 2016
  - Appendixes 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

<table>
<thead>
<tr>
<th>Date</th>
<th>Step</th>
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<tbody>
<tr>
<td>T0 = June 2016</td>
<td>Entry into force June 2016</td>
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<tr>
<td>November 2016</td>
<td>Protection Profiles Certified (T0 + 5)</td>
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<tr>
<td>December 2016</td>
<td>Test keys / certificates available to <strong>VU/MS/GNSS Modules/Cards</strong> suppliers</td>
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<tr>
<td>March 2018</td>
<td>Interoperability tests ready to start (T0 +21)</td>
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<tr>
<td>June 2018</td>
<td>Real keys / Real Certificates available to manufacturers (T0 +24)</td>
</tr>
<tr>
<td>March 2019</td>
<td>Latest date for GEN 2 Workshop cards availability (T0 +33)</td>
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<tr>
<td>May 2019</td>
<td>Second generation tachograph cards issuing (T0 +35)</td>
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<tr>
<td>June 2019</td>
<td>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</td>
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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)
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)
AN IMPLEMENTING REGULATION, triggering a demanding agenda for AUTHORITY/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)
Thank you for your attention.

Joint Research Centre (JRC)
Web: www.jrc.ec.europa.eu