



eCall Implementation in Lithuania

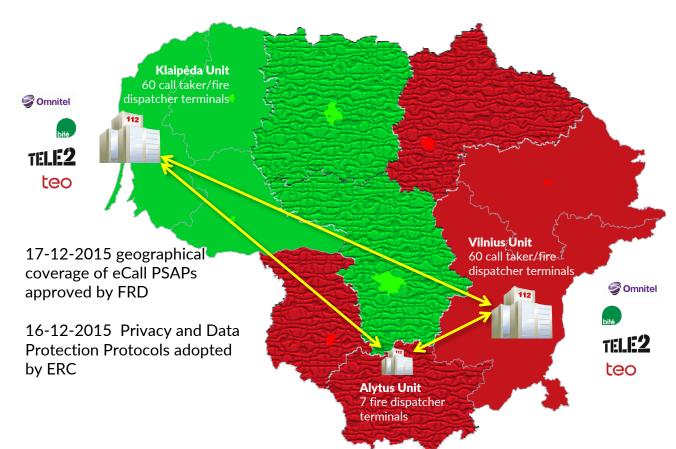
Introduction



- » Emergency Response Centre (ERC)
 - National 112 Emergency Call Handling and Fire Dispatch
 - Head Organization Fire and Rescue Department at Mol
- » Tadas Maroščikas
 - ERC's Deputy Director IT & Operations
 - EENA Operations Committee Vice-Chair for 2016
 - Co-Author of EENA case study document "eCall implementation in Lithuania"
- » eCall compatibility (EN 16072, EN 16062)
 - since Nov. 2015
- » AML/AEL Android handset location compatibility
 - since Nov. 2016
- » Timing Advance/Round Trip Time mobile caller location
 - Since Jan. 2017

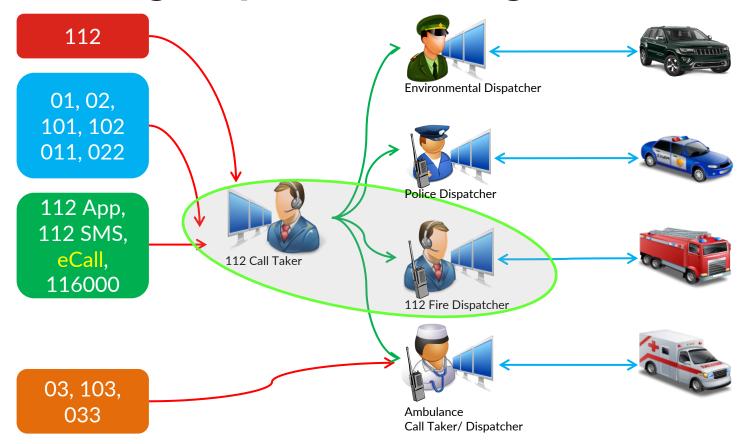








Emergency Call Handling Model







- » Total of 112 voice call contacts $3.295.508 (\downarrow 7,6\%)$;
- » Answered calls **2.484.958** (\downarrow **5,9%**);
- » Abandoned calls (over 5 sec.) 114.223 (↓33%)
- \rightarrow Total of call transfers/dispatches **996.914** (\uparrow 4%);
 - Police **527.956** (53%, **↑3,9%**);
 - Ambulance 412.685 (41%, ^{13%});
 - Fire & Rescue **33.964** (3,4%, **_8,4%**);
 - Environmental 11.135 (1%, ↑8,4%);
 - Other **11.162** (1%, **↑87%**).
- » Total of 112 SMSs received 38.290 (↓32,5%):
 - Real responses 240 (†79%);
- » Total of contacts via 112 App (GPIS 112) **2.999** (**130,3%**); :
 - Voice contacts 299 (†63,4%);
 - Text contacts 2.700 (²⁷,4%);
 - Real responses 56 (†180%).



eCall Upgrade - Scope PSAP Side

Location information (Cell-ID) via VPN

112 PBX (HiPATH)

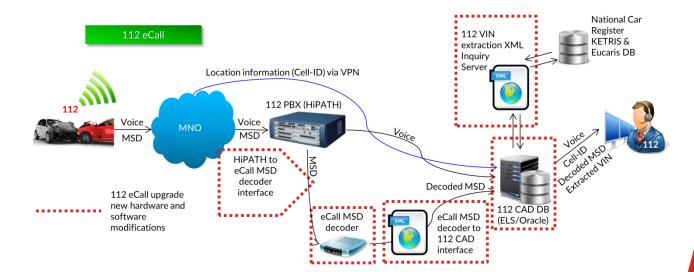
Voice

Voice

Voice

Cell-ID

112 CAD DB
(ELS/Oracle)







- » Decodes up to 8 simultaneous eCall MSDs.
- » Integrates into existing/used ERC information system hardware and software;
- » 4 decoders 2 in each PSAP;
- » Open and documented interface for integration with emergency call handling systems.
- » Shall meet specifications of SOAP protocol and support XML data exchange via Web Services;
- » Decoders shall provide decoded data in structured format as well as MSISDN number into ERC's information system.

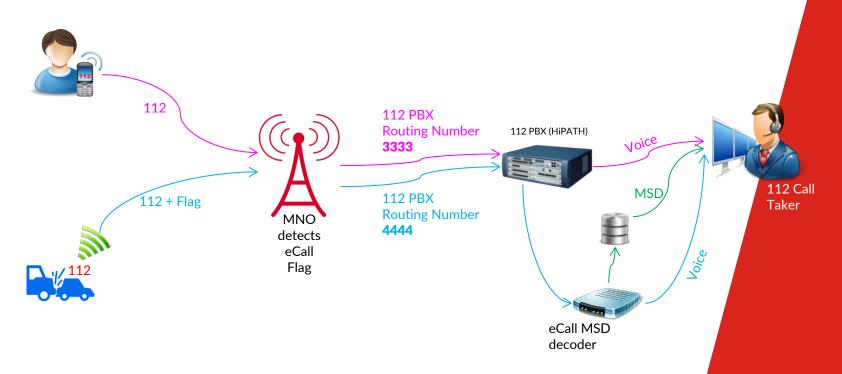


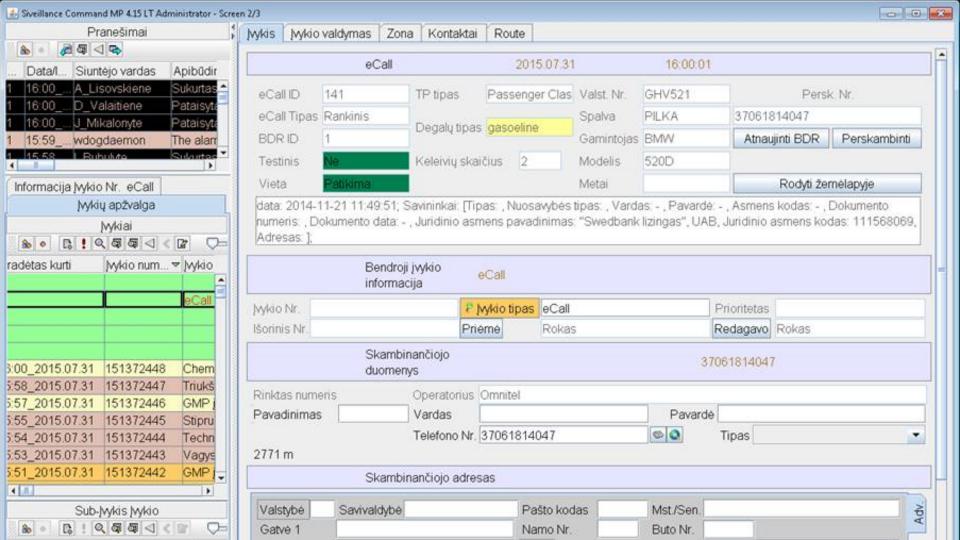


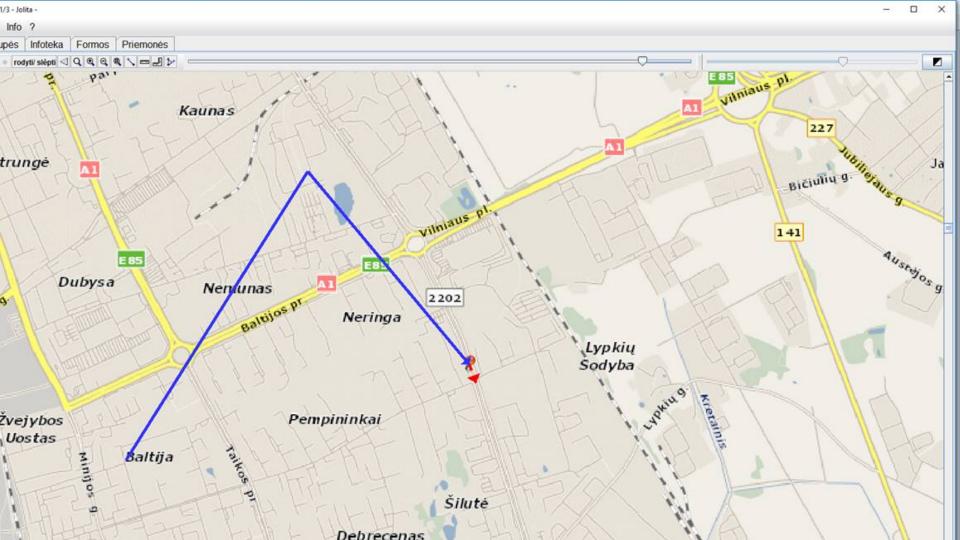
- » 30-06-2015 National eCall MoU signed "On eCall functionality in the MNOs";
- » 10-11-2015 eCall Flag demo tests scenarios agreed;
- » 07-03-2016 eCall Flag demo tests accomplished;
- » 01-10-2017 All actors are eCall ready.

eCall Routing from MNOs











PSAPs Conformity Assessment

- » Conflict Fire & Rescue Department is the owner of the ERC's information system, ERC is the user;
- » Next up is Mol;
- » Designate competent authorities that will assess conformity of the operations of the eCall PSAPs with the requirements of (EN 16454);
- » eCall PSAPs are able to demonstrate to the competent authorities that they meet all specified conformance requirements.





- » PSAP long number is provided under agreement to 1 private call center;
- » No data interface so far;
- » TPSPs should use the same mechanism as 112 eCall;
- » No financial and administrative burden for PSAPs.





Thank You All!

Looking for a test car to crash...

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