



PAUL ELSILA, LIVIO

SMARTDEVICELINK CONSORTIUM

WHO IS LIVIO?

- ▶ Began as a Consumer Electronics Company in 2008
- ▶ Pivoted to software in 2010
- ▶ Acquired by Ford in 2013
- ▶ Team of 18
- ▶ Project Maintainer of SDL



DIAMOND LEVEL



PLATINUM LEVEL



mazda



SUBARU

MEMBERS

 Abalta  amazon  Brison  Clarion  Clarion  DAIHATSU  DENSO  dentsu

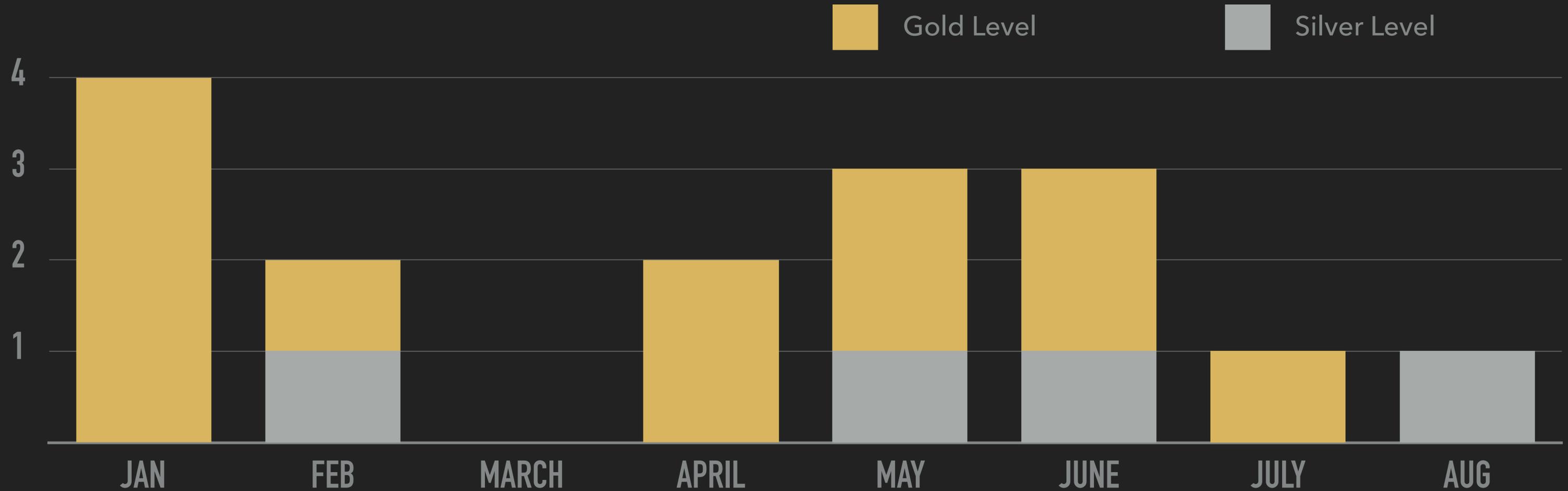
 NTT docomo  Elektrobit  Ford  GARMIN  HAKUHODO  IAUTO.COM  Intelematics

 ISUZU  JVCKENWOOD  Kawasaki  KDDI  LINE  LUXOFT
AUTOMOTIVE  MAGELLAN  mazda  micware

 MITSUBISHI
MOTORS  NIPPON SEIKI  NISSAN
MOTOR CORPORATION  NG  NTT data
NTT DATA MSE Corporation  ONKYO  Panasonic  Pioneer  PSA
GROUPE  SEVEN&I HOLDINGS

 SUBARU  SUZUKI  TOMTOM  TOYOTA  UniMax  Xevo  YAMAHA

GOLD & SILVER MEMBERSHIP ACQUISITION IN 2018



Gold Level Members Added: Brison, Hakuodo, Isuzu, JVC Kenwood, Line, Nippon Seiki, Nissan Motor Corporation, NNG, NTT Docomo, Panasonic, Seven & I Holdings, TomTom

Silver Level Members Added: Garmin, Micware, Mitsubishi Motors, NTT Data, Unimax

41 MEMBERS TOTAL TO DATE

SMARTDEVICELINK CONSORTIUM - 2018

CES 2018

- ▶ Livio's 4th year exhibiting SDL technology
- ▶ 10 total demonstrations
- ▶ Partner cooperation
- ▶ Quick planning





I AUTOMAKERS

SDL enables automakers to maintain their user experience and driver distraction standards throughout the vehicle.

II DEVELOPERS

Open source Android and iOS libraries are provided to developers with features such as video streaming, voice integration, and real time vehicle data.

III DRIVERS

SDL gives drivers control over the flow of their data between the vehicle and connected applications.



SYNC 3 APPLINK: WAZE



SYGIC CAR NAVIGATION



TOMTOM SDL NAVIGATION BETA



CUSTOMER SATISFACTION WITH EB VELIMA





LUXOFT
AUTOMOTIVE

SPEAK MULTILINGUAL:
COMMUNICATION WITHOUT LANGUAGE BARRIERS

amazon

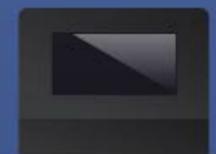
SDL EXPERIENCE: FORD + ALEXA APP

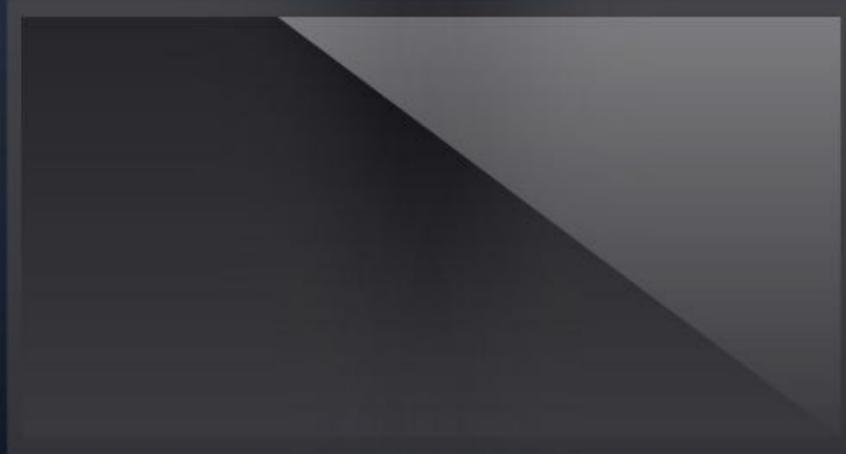
Ford

SYNC 3 APPLINK

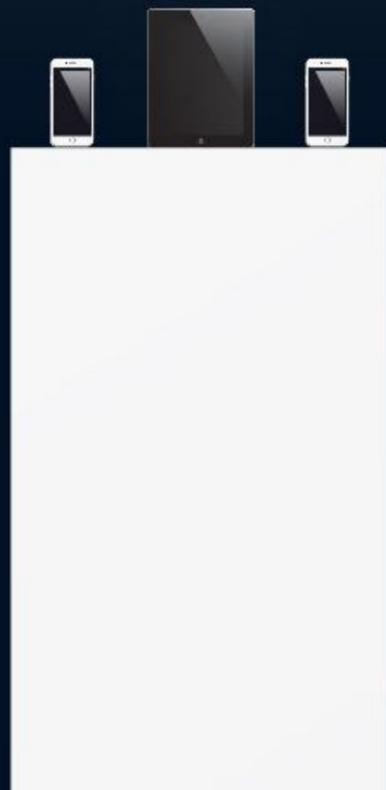
TOYOTA

TOYOTA'S SDL IMPLEMENTATION

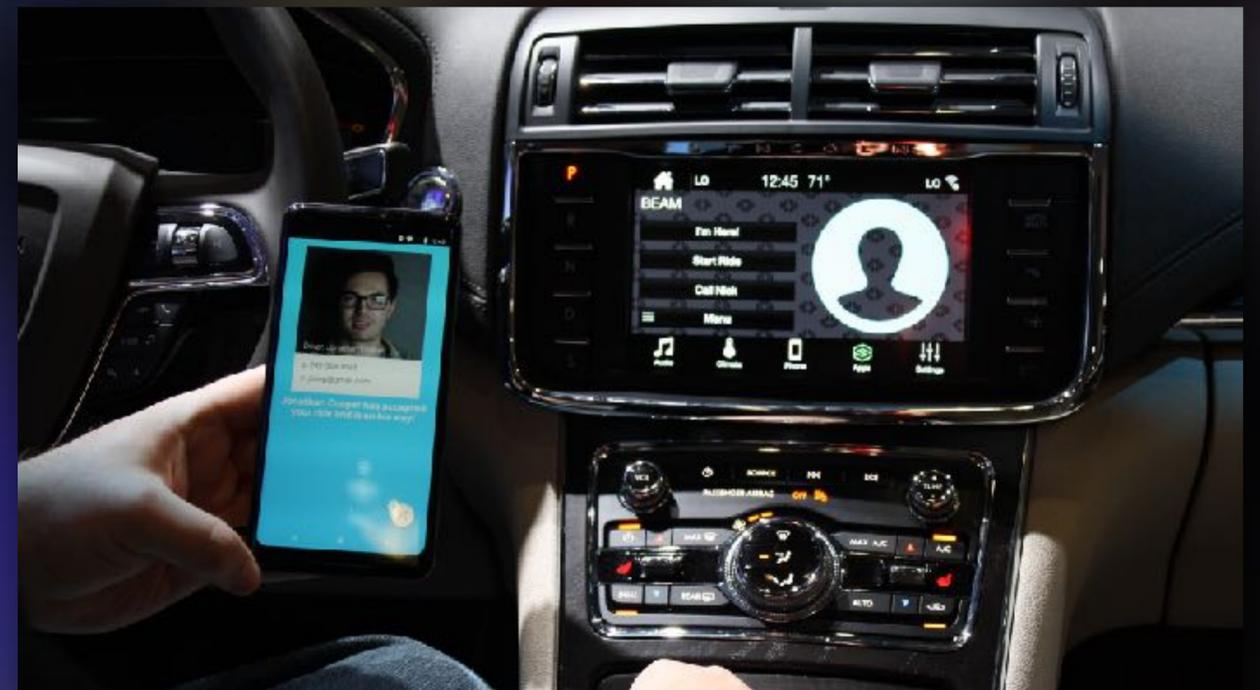




DRIVE-ON-DEMAND WITH KAHU



W BEAM



SMARTDEVICELINK CONSORTIUM - 2018

MWC 2018 - BARCELONA

- ▶ 3rd year exhibiting SDL technology
- ▶ Partnered with the Ford Dev booth
- ▶ 3 partner demonstrations



Livio is an emerging leader in automotive connectivity, and was acquired by Ford in 2013. Livio is the project maintainer of SmartDeviceLink and an active contributor to software projects within the Ford Research & Advanced Engineering organization.



Groupe PSA joined the SmartDeviceLink Consortium in February 2017 in order to explore the integration of smartphone applications including entertainment, navigation, parking, and others with in-vehicle infotainment systems.



Toyota announced their adoption of SmartDeviceLink during CES 2016, and worked with Ford to establish the SmartDeviceLink Consortium in November 2016. Toyota is planning a SmartDeviceLink rollout on select Toyota and Lexus vehicles around 2018.

SmartDeviceLink.com



MWC - AMERICAS 2018

- ▶ Ford
- ▶ Toyota
- ▶ Intelematics
- ▶ Abalta
- ▶ Sygic
- ▶ Xevo



SDL PROPOSALS

- ▶ Held 34 Steering Committee meetings to date
- ▶ Steering Committee moved 113 proposals through Evolution Process

PROPOSALS SUBMITTED BY

5 DIFFERENT
SDLC MEMBERS
& PROJECT
MAINTAINER.

97 ACCEPTED
PROPOSALS
AS OF 9/1/18.

48 IMPLEMENTED
PROPOSALS
AS OF 9/1/18.
CONTRIBUTED BY 5 SDLC MEMBERS
AND PROJECT MAINTAINER.

PRODUCT HIGHLIGHTS

- ▶ Continuous maintenance and development on smartdevicelink.com
- ▶ 7 Proxy Releases
 - ▶ 3 Android Releases , 4 iOS Releases
- ▶ 2 Core Releases
- ▶ 3 Policy Server Releases

DEVELOPER PORTAL

NEW VISITORS

75.73% 51,528 USERS

RETURNING VISITORS

24.27% 16,512 USERS

TOTAL NEW MEMBERS
CREATED SINCE JAN 1, 2018

819

TOTAL MEMBER ACCOUNTS

1558

PAGE VIEWS FROM JAN 1, 2018
THROUGH AUG 20, 2018

411,420

OVERALL VISITOR OS

52.08% ANDROID

29.11% WINDOWS

8.81% IOS

7.22% OSX

SDL CORE

- ▶ Core [4.5.0](#) Released April 5, 2018
 - ▶ Connectivity via iAP-BT and Transport Switch- Implementation of a mechanism to change a registered app connected over one transport to another seamlessly
- ▶ Core [5.0.0](#) will be released October 2018, and will include 44 accepted proposals from SDLC
 - ▶ RPC design refactoring, Supporting simultaneous multiple transports, Mobile API versioning, New remote control modules, and Template improvements (Color Scheme)

NUMBER OF MODIFIED LINES AS OF 9/1/18: **597,403**

IOS

- ▶ iOS [5.1.0](#) Released on January 16, 2018
 - ▶ CarWindow Automatic Video Streaming API
- ▶ iOS [5.2.0](#) Released March 27, 2018
 - ▶ Text, Graphic and SoftButton Screen Management API
- ▶ iOS [6.0.0](#) Released June 27, 2018
 - ▶ Main menu screen management API
- ▶ iOS [6.1.0](#) is on track to be release October 2018
 - ▶ Choice Set & Keyboard screen management API

NUMBER OF MODIFIED LINES AS OF 9/1/18: **175,148**

ANDROID

- ▶ Android [4.5.0](#) Released March 29, 2018
 - ▶ Improved transport stability, enhanced router service version checking, and ability to target Android Oreo
- ▶ Android [4.6.0](#) on Released June 21, 2018
 - ▶ Improved notification lifecycle for router service to be less intrusive and overhaul stability improvements and bug fixes
- ▶ Android [4.7.0](#) is on track to release October 2018
 - ▶ Android manager API to match iOS, transport overhaul (multiple apps over USB), support RPC spec 5.0.0 and protocol spec 5.1.0

NUMBER OF MODIFIED LINES AS OF 9/1/18: **42,756**

SHAID

- ▶ Introduced application versioning for change tracking and improved change distribution
- ▶ Enhancements to support GDPR compliance (100% data encryption at rest, HTTPS-only connections, etc)
- ▶ Centralized OEM approval tracking (with Policy Server integration) for an optimal 3P developer experience
- ▶ Real-time app approval synchronization to the Android router validation service

POLICY SERVER

- ▶ <https://smartdevicelink.com/news/policy-server-230-new-ui/>
- ▶ Added an intuitive user interface to manage application approvals, functional groups, module configuration, and consumer-friendly messages
- ▶ Released optional policy table caching feature can improve capacity by up to 10x
- ▶ Launched support for an optional SSL certificate and basic password authentication
- ▶ Introduced the ability to blacklist an application to revoke all permissions from problematic applications
- ▶ Support for Short App IDs for legacy systems incapable of handling SDL App IDs longer than 10 characters



THANK YOU!

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