会议手册
EVENT GUIDE

SAE INTERNATIONAL

SAE 2021 汽车计算与通信大会

AUTOMOTIVE COMPUTING AND COMMUNICATION CONFERENCE

2021 年 7 月 20-21 日
上海大华虹桥假日酒店

July 20-21, 2021
Holiday Inn Shanghai Hongqiao

主办单位
HOST

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主办单位介绍 HOST INTRODUCTION

SAE International 国际自动机工程师学会 是一家全球性的学会组织，致力于推动造福人类的航空航天、汽车、商用车及工程农用机械行业知识与解决方案的发展。为了实现安全、清洁、便捷的交通运输解决方案，SAE 在全球建立了拥有 20 万名工程师、技术专家及志愿者的网络平台，并不断培养行业专业人才。我们工作的两大优先事项是：激励航空航天、汽车、商用车及工程农用机械行业工程专业人才的终身学习，并为行业工程设定标准。我们通过慈善机构 SAE 基金会的工作努力创造一个更美好的世界，包括 A World in Motion（运动中的世界）和 Collegiate Design Series（大学生设计系列）等项目。

SAE International 国际自动机工程师学会，作为目前全球最大的航空航天、汽车、商用车及工程农用机械行业的标准制定组织之一，始终致力于：

- 搭建中立平台，促进解决社会的出行需求
- 提供全球最可靠、最全面的工程资源，促进行业发展
- 通过 STEM 教育与职业发展项目，激发与培养行业现有与未来劳动力
- 通过共识的标准，提高产品质量、安全性和创新性
- 搭建全球性的社区，通过集体智慧让出行更安全、更清洁、更便捷

SAE International is a global association committed to advancing mobility knowledge and solutions for the benefit of humanity. By engaging nearly 200,000 engineers, technical experts and volunteers, we connect and educate mobility professionals to enable safe, clean, and accessible mobility solutions. We act on two priorities: encouraging a lifetime of learning for mobility engineering professionals and setting the standards for industry engineering. We strive for a better world through the work of our philanthropic SAE Foundation, including award-winning programs like A World In Motion® and the Collegiate Design Series™.

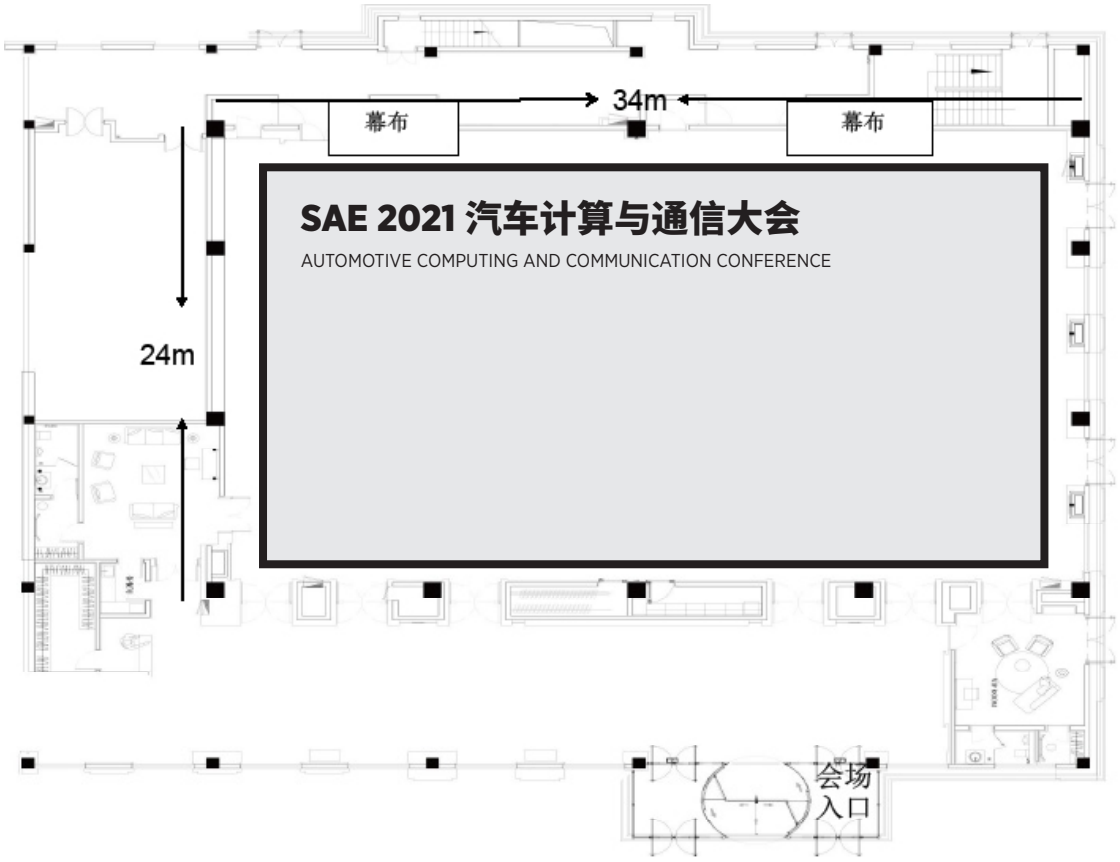
SAE International, as one of the world's largest standard development organizations in the mobility industries, we provide society and the global mobility engineering community with:

- Neutral forums that convene to address society's mobility needs
- The most reliable and comprehensive collection of engineering resources that advance mobility
- STEM education and professional development programs that inspire and build mobility's current and future workforce
- Consensus-based standards that advance quality, safety and innovation
- A global community whose collective wisdom makes mobility safe, clean and accessible

会议组委会 ORGANIZING COMMITTEE

尚 进 SHANG Jin	国汽智控 总经理、首席技术官 President / CTO, AICC
李星宇 LI Xingyu	地平线 市场拓展与战略规划副总裁 Vice President, Business Development and Strategic Planning, Horizon Robotics
黄军君 HUANG Junjun	蔚来汽车 数字架构实验室负责人、架构专家 Architecture Expert / Head of Digital Architecture Laboratory, NIO
Holger Zeltwanger	CAN in Automation 协会主席 Chairman, CAN in Automatio
段勃勃 DUAN Bobo	映驰科技 联合创始人、首席技术官 Co-Founder / CTO, Enjoy Move Technology
朱海龙 ZHU Hailong	紫金山实验室 技术总监 Technical Director, Purple Mountain Laboratories

会场平面图 FLOOR PLAN



会议概览 EVENT-AT-A-GLANCE

SAE 2021 汽车计算与通信大会
AUTOMOTIVE COMPUTING AND COMMUNICATION CONFERENCE

7 月 20 日 July 20
9:00~9:10 **欢迎致辞** WELCOME SPEECH
整车数字化系统架构 OVERALL DIGITAL SYSTEM ARCHITECTURE
9:10~12:00 **技术演讲** TECHNICAL SPEECH 午餐 Lunch
智能汽车计算能力技术 COMPUTING ABILITY OF INTELLIGENT VEHICLES
13:30~17:00 **技术演讲** TECHNICAL SPEECH

7 月 21 日 July 21
智能汽车基础软件技术 FOUNDATIONAL SOFTWARE TECHNOLOGY FOR INTELLIGENT VEHICLES
9:00~12:00 **技术演讲** TECHNICAL SPEECH 午餐 Lunch
车载网络通信技术 ONBOARD NETWORK COMMUNICATION TECHNOLOGIES
13:30~17:15 **技术演讲** TECHNICAL SPEECH

7 月 20 日 July 20

SAE 2021 汽车计算与通信大会
AUTOMOTIVE COMPUTING AND COMMUNICATION CONFERENCE

9:00 欢迎致辞

WELCOME SPEECH

整车数字化系统架构
OVERALL DIGITAL SYSTEM ARCHITECTURE

主持人：尚进 国汽智控
Moderator: SHANG Jin AICC

9:10 车云计算基础平台及其信息安全防护体系

尚进 国汽智控（北京）科技有限公司 总经理、首席技术官

摘要

- 自动驾驶操作系统
- 支撑车云计算的智能汽车操作系统
- 基于车云计算基础平台的信息安全防护体系

Basic Platform for Vehicle Cloud Computing and Information Security System
SHANG Jin President / CTO, AICC

ABSTRACT

- Autopilot operating system
- An intelligent vehicle operating system that supports cloud computing
- Information security system based on basic platform for vehicle cloud computing

9:40 汽车软件及电子电气架构 2030 年趋势展望

陈晴 麦肯锡（上海）咨询有限公司 全球副董事合伙人

摘要

“新四化”驱动下，未来汽车软件、电子电气及整体系统架构的演进趋势及对产业生态各相关方的挑战、机遇与应对策略高阶思考。

2030 Outlook for Automotive Software and E/E Architecture
Sonny CHEN Associate Partner, McKinsey & Company

ABSTRACT

Future automotive software, electronics and overall architecture development trends driven by evolvement of ACES disruptions, under which the challenges, opportunities and high level strategic considerations for key industry stakeholders will be discussed.

10:10 茶歇 Tea Break

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会场日程 TECHNICAL PROGRAM

7 月 20 日 July 20

10:30 软件如何赋能汽车工业

韩青 风河系统公司副总裁 亚太区总裁

摘要

- “软件定义世界”的时代以及汽车行业实践
- 复杂软件开发策略与决胜因素
- 风河如何赋能客户应对新时代挑战

Software Defined Automotive Industry
HAN Qing Vice President / President of Asia Pacific, Wind River

ABSTRACT

- General trends and automotive practices
- How could you be prepared for digital transformation?
- Wind River innovations enable customer success

11:00 云管端一体化 SOA 软件解决方案

孟超 上汽零束 首席架构师

SOA Software Solutions for Integration of Cloud, Channels, and Ends
MENG Chao Chief Architect of Software Platform, SAIC Motor Z-ONE Software Company

11:30 共同塑造未来出行

Steffen Goerg 大众汽车集团（中国）高级经理

摘要

- 大众汽车集团概况
- 针对中国市场的携手共进 2025+ 战略
- 汽车行业面临的挑战
- 车辆架构和框架的今日与未来
- 新的核心竞争力：半导体和芯片
- 塑造未来出行

Shaping the Future of Mobility Together
Steffen Goerg Senior Manager, Volkswagen Group China

ABSTRACT

- Volkswagen Group at a glance
- TOGETHER for China 2025 + Strategy
- Challenges in automotive industry
- Today & Tomorrow of architecture and framework for vehicles
- New core competences: semiconductor & chips
- Shape the future of Mobility

12:00 午餐 Lunch

7 月 20 日 July 20

智能汽车计算能力技术
COMPUTING ABILITY OF INTELLIGENT VEHICLES

主持人：黄军君 蔚来汽车
Moderator: HUANG Junjun NIO

13:30 **福瑞泰克智能驾驶软件架构的设计和演进**
沈骏强 福瑞泰克智能系统有限公司 首席技术官

Freetech's Design and Evolution of Architecture for Intelligent Driving Software
SHEN Junqiang CTO, Freetech

14:00 **高性能计算软件平台在智能汽车多域融合下的实践**
吴俊杰 映驰科技 工程副总裁
摘要
- 智能汽车的多域融合趋势
- 高性能计算平台的软件开发挑战
- EMOS- 软件平台实践

Practice of High-performance Computing Software Platform in the Multi-field Fusion of Intelligent Vehicles
WU Junjie Engineering Vice President, Enjoy Move Technology
ABSTRACT
- Multi-domain integration of intelligent vehicles
- Challenges of software development for high-performance computing platforms
- EMOS-software platform practice

14:30 **HPC 助力中央化 E/E 架构平台**
顾淳 Elektrobit 项目总监

HPC Enabling Centralized E/E Architecture Platform
Channing GU Head of Customer Center China, Elektrobit

15:00 **茶歇 Tea Break**

7 月 20 日 July 20

15:30 **AI 赋能的无人驾驶平台**

卓睿 英伟达 软件芯片算法总监

摘要

在软件定义汽车的浪潮中，英伟达提供了满足功能安全，信息安全的开放式中央处理平台，赋能 OEM 开发基于 AI 的无人驾驶系统。

AI-empowered Unmanned Platform

ZHUO Rui Director of Software Chip Algorithm, NVIDIA

ABSTRACT

In the tide of software-defined vehicles, Nvidia provides an open central processing platform for functional security and information security, enabling OEMs to develop AI-based unmanned systems.

16:00 **车规级智能驾驶计算平台的关键挑战**

汪意革 华为智能汽车解决方案 BU MDC 营销总监

摘要

- 智能驾驶产业拐点已至
- 车规级计算平台的关键挑战
- 平台化标准化走向量产新阶段

Key Challenges of Automotive-grade Intelligent Driving Computing Platforms

WANG Yige MDC Marketing Operation Director, Huawei IAS BU

ABSTRACT

- Intelligent driving industry has reached an inflection point
- Key Challenges of automotive-grade Computing Platforms
- Platform-based standardization to a new stage of mass production

16:30 **一种软件定义车辆功能的框架**

Simon TENG ARM 亚太区汽车生态 高级总监

摘要

- 汽车行业主要发展趋势
- 软件、EE 和服务架构发展趋势
- 设计中面临的挑战
- 来自 ARM 的技术和解决方案

A Framework for Software-defined Functionality in Vehicle

Simon TENG Senior Director, APAC Automotive Partnership, ARM

ABSTRACT

- Key trends in automotive industry
- Software, EE and Service Architecture Trend
- Challenges in Designs
- Technologies and Solutions from ARM

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智能汽车基础软件技术
FOUNDATIONAL SOFTWARE TECHNOLOGY FOR INTELLIGENT VEHICLES

主持人：段勃勃 映驰科技
Moderator: DUAN Bobo Enjoy Move Technology

9:00 **智能网联汽车操作系统：数字底座架构与实践**

冉雪峰 国汽智控（北京）科技有限公司 研发副总裁

摘要
- 行业背景
- 智能网联汽车操作系统发展现状
- 智能网联汽车操作系统核心服务：数字底座与实践
- 展望与建议

ICV Operating System: Digital Base Architecture and Practice
RAN Xuefeng Deputy President of R&D, AICC

ABSTRACT
- Automotive industry background
- Development status of ICV operating system
- Core services of ICV operating system: digital base and practice
- Outlook and suggestions

9:30 **面向服务的汽车软件架构**

曹斌 东软睿驰 总经理

Service Oriented Automotive Software Architecture
CAO Bin General Manager, Neusoft Reach

10:00 **车规级操作系统 - 汽车电子功能安全的基石**

董渊文 黑莓 QNX 大中华区首席代表

摘要

随着智能汽车电子电气架构的演进，在 SDV 及 SOA 中，软件的地位在汽车电子系统中越来越重要，而基础软件，特别是车规级的操作系统是承载汽车电子软件的基石，介绍了汽车电子架构的演化，黑莓 QNX 作为基础软件技术方案核心供应商的特点，在当今世界，此时此刻正在经历的百年来汽车电子架构重要大革命中的基石作用及贡献。

Regulation-level Operating System - The Cornerstone of Vehicle Electronic Function Safety
William DONG Chief Representative of Greater China, BlackBerry QNX

ABSTRACT

With the evolution of the electronic and electrical architecture of intelligent vehicles, software is becoming more and more important to automotive electronic systems in SDV and SOA, and the basic software, especially the vehicle-grade operating system, is the basis for carrying automotive electronic software. This presentation introduces the evolution of automotive electronic architecture, the characteristics of BlackBerry QNX as a core supplier of basic software technology solutions, as well as its cornerstone role and contribution in the big revolution of automotive electronic architecture that the world is going through since automobiles came into being over 100 years ago.

10:30 **茶歇 Tea Break**

7 月 21 日 July 21

11:00 **大陆集团软件定义汽车车辆控制服务框架实践**

丁大宇 大陆集团 车联网事业部首席工程师

摘要

随着下一代车辆电子电气架构逐渐向服务型架构转型，全方位寻求行业价值关系网中的新定位是每个业内企业的当务之急。
大陆集团在此基础上除了提供硬件设备之外，也致力于汽车生态软件，操作系统，特定应用算法，SOA 架构咨询及集成服务等，此次大会上将分享大陆集团针对车身控制框架服务的实践与应用。

Continental SDV Vehicle Control Service Framework Practice

Dave DING Chief Engineer BU Connected Car Networking, Continental Holding China

ABSTRACT

With the transformation of the next generation EEA to SOA, it is urgent to seek a new position in the industry value network for each stakeholder. In addition to provide hardware and equipment, Continental is also committed to automotive ecology software, operating system, specific application algorithm, SOA architecture consulting and integration services etc. This speech will share Continental's practice and application of body control framework services.

11:30 **域控制器的基础软件架构与 SOA 开发平台**

黄志辉 联合汽车电子有限公司 软件架构师

摘要

- 域控制器的现状
- 域控制器的总体软件架构
- 域控制器的关键中间件
- SOA 开发平台

Basic Software Architecture of Domain Controller and SOA Development Platform

HUANG Zhihui Software Architect, United Automotive Electronics Systems Co., Ltd.

ABSTRACT

- The status of domain controller
- Overall software architecture of domain controller
- Key middleware of domain controller
- SOA development platform

12:00 **午餐 Lunch**

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车载网络通信技术
ONBOARD NETWORK COMMUNICATION TECHNOLOGIES

主持人：朱海龙 紫金山实验室
Moderator: ZHU Hailong Purple Mountain Laboratories

13:30 **CAN XL – 第三代 CAN 数据链路层协议**

Holger Zeltwanger CAN in Automation 主席

摘要

- CAN 协议发展历史
- LLC 与 MAC 子层与以太网相似之处
- 低速传输遵循经典的 CAN 仲裁 (仲裁阶段) 的规则，而高速的数据段在仲裁段之后使用。
- CAN SIC XL 收发器 CAN XL 网络可以使用符合 ISO 11898-2:2016 的任何类型的收发器，或者 CiA 601-4(2.0.0 版本) 中规定的 CAN SIC(信号改进功能) 收发器。
- CAN FD 和 CAN XLCAN FD 将随着技术发展逐步替代经典 CAN
- 注意 : CAN FD 和 CAN XL 可以为不同问题提供解决方案，彼此完成。

CAN XL – Generation-III CAN DLL (data link layer)
Holger Zeltwanger Chairman, CAN in Automation

ABSTRACT

- History of CAN protocol
- Similarities between LLC and MAC sublayers and Ethernet
- Low-speed transmission follows the classic CAN arbitration (arbitration phase) rules, while the high-speed data segment is used after the arbitration phase.
- CAN SIC XL transceiver and CAN XL network can use any type of transceiver that complies with ISO 11898-2:2016, or the CAN SIC (Signal Improvement Capability) transceiver specified in CiA 601-4 (version 2.0.0).
- CAN FD and CAN XLCAN FD will gradually replace classic CAN as technologies develop.
- Note: CAN FD and CAN XL can provide solutions to different problems and complement each other.

14:00 **汽车整车电子架构与网络通信技术探讨**

徐匡一 国家新能源汽车技术创新中心 电子电控首席专家

摘要

近年来汽车有者各项新的功能需求使得电子架构有者蓬勃的發展与演进 , 伴随而兴起的域控制器技术、信息安全、软件架构与应用等都有显著的演变。然少有谈到在整车电子架构上如何实现各项技术 , 亦少有在网络的层次上有所探讨与创新。

本文探讨新一代的整车电子架构与新型网络并如何实现各项技术。

Discussion on Vehicle Electronic Architecture and Network Communication Technologies
XU Kuangyi Chief Expert of Electronic Control, NEVC

ABSTRACT

In recent years, various new functional needs of vehicles have led to the vigorous development and evolution of electronic architecture, as well as the domain controller technology, information security, software architecture and application that emerge with the electronic architecture. However, there is little discussion about how to implement various technologies in the vehicle-level electronic architecture or the innovation on the network level.

This paper discusses the new generation of vehicle-level electronic architecture and new network and how to implement various technologies.

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14:30 SOA 架构下 AP 与 CP 通信探讨

王一强 ETAS 专家

摘要

- Zone 架构和 SOA
- AP 和 CP 通信的几种方式探讨

Discussion on AP and CP Communication Under SOA Architecture
WANG Yiqiang Expert, ETAS

ABSTRACT

- Zone architecture and SOA
- Discussion on several modes of communication of AP and CP

15:00 茶歇 Tea Break

15:15 车载以太网时代的车辆网络架构和解决方案

刘鹏 恩智浦 高级业务拓展经理

摘要

本次演讲主要针对快速演进的车载网络架构，介绍国内外车企的技术发展趋势和遇到的挑战及 NXP 的技术解决方案。演讲内容包括：

- 车载网络拓扑结构的技术演进趋势和技术难点
- 主流车企的未来网络拓扑选择
- 车载高速网络技术标准的发展路线图
- NXP 车载以太网和服务型网关整套解决方案

Vehicle Networking Architecture and Solution in Ethernet Era
LIU Peng Senior Business Development Manager, NXP

ABSTRACT

This presentation focuses on the on-board network architecture that is rapidly evolving, the technology development and challenges encountered by domestic and foreign vehicle companies, as well as NXP's technology solutions will be introduced in this speech. The presentation will include:

- Technology evolution and difficulties of on-board network topology
- Future network topology chosen by mainstream vehicle companies
- Roadmap for the development of on-board high-speed network technology standards
- NXP's complete solutions for on-board Ethernet and service-oriented gateway

15:45 车载以太网测试场景以及方案

刘峰 英特佩斯 大客户技术方案经理

摘要

- 车载以太网与常规以太网物理层的区别与转换
- 车载以太网链路层交换机的功能与应用
- 车载以太网其它应用与测试

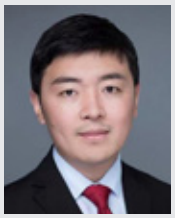
Test Scenarios and Schemes for On-board Ethernet
LIU Feng Key Customer Technical Solution Manager, Intrepid Control Systems, Inc.

ABSTRACT

- The difference in physical layer and conversion between on-board Ethernet and conventional Ethernet
- Functions and applications of the switch on the on-board Ethernet link layer
- Other applications and tests of on-board Ethernet

7 月 21 日 July 21

16:15 软件系统（Classical/Adaptive AUTOSAR 和非 AUTOSAR）虚拟验证与交付



范科发 VECTOR 商业开发经理

摘要

- V 模型中新增环节 – 软件系统测试
- Classical/Adaptive AUTOSAR 软件系统测试
- 非 AUTOSAR 软件系统测试
- 持续集成、持续测试和持续交付软件系统

Classical/Adaptive AUTOSAR and Non-AUTOSAR Software System Validation - SIL

Kevin FAN Business Development Manager, VECTOR

ABSTRACT

- Software System Testing Overview
- Classical/Adaptive AUTOSAR Software System Validation
- Non-AUTOSAR Software (C, C++, Python) Validation
- Continuous Integration, Testing and Delivery Software System

16:45 车载 TSN 技术探索与实践

朱海龙 紫金山实验室 技术总监

摘要

- 车载 TSN 需求分析
- 基于 TSN 的新一代汽车 E/E 架构
- 车载 TSN 解决方案探索
- 后续研究计划

Research and Application on In-vehicle TSN

ZHU Hailong Technical Director, Purple Mountain Laboratories

ABSTRACT

- On-board TSN demand analysis
- A new generation of automotive E/E architecture based on TSN
- Exploration of on-board TSN solutions
- Follow-up research plan

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www.blackberry.com/cn/zh

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BlackBerry QNX

Address Room 831,International Finance Centre, No. 8 Century Avenue, Pudong District, Shanghai

www.blackberry.com/cn/zh

BlackBerry (NYSE: BB; TSX: BB) provides intelligent security software and services to enterprises and governments around the world. The company secures more than 500M endpoints including over 195M cars on the road today. Based in Waterloo, Ontario, the company leverages AI and machine learning to deliver innovative solutions in the areas of cybersecurity, safety and data privacy solutions, and is a leader in the areas of endpoint security, endpoint management, encryption, and embedded systems. BlackBerry' s vision is clear - to secure a connected future you can trust.

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地址 沈阳浑南区新秀街2号东软软件园

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