

IEEE Computer Communications and Networking Conference

A Common Protocol



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History

- North America
 - Environment
 - Culturally Homogeneous
 - Hopelessly Wireless Technology Divided / Diverse
 - Somewhat Telematics Infrastructure Standardized
 - Results
 - Proprietary Solutions
 - Differentiation on Transparent Pieces
 - Single Player Dominance
 - Limited Apps & Adoption



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History

- Europe
 - Environment
 - Culturally Diverse
 - Wireless Technology Unified \Rightarrow Diverse
 - Telematics Infrastructure Divided / Diverse
 - Results
 - Proprietary Solutions
 - False Starts at Protocol Standards
 - No Real Market



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History

- **Japan / Asia**
 - **Environment**
 - **Culturally Homogeneous**
 - **Wireless Technology Unified**
 - **Telematics Infrastructure Unified**
 - **Results**
 - **Strong Market in Limited Apps**
 - **Public / Private Sector Cooperation**
 - **Still Seeking Protocol Solution**



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Advantages of a Common Protocol

- Reduced Development Costs
- Improved Time to Market
- Significantly Better Quality and Reliability
- Single Solution on Global Scale
- Standardizing a Non-Differentiator in Value Chain
- Establish Stability



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Requirements

- Open
- Scalable / Modular
- Compatible with IP World
- Future Proof
- Bearer Independence

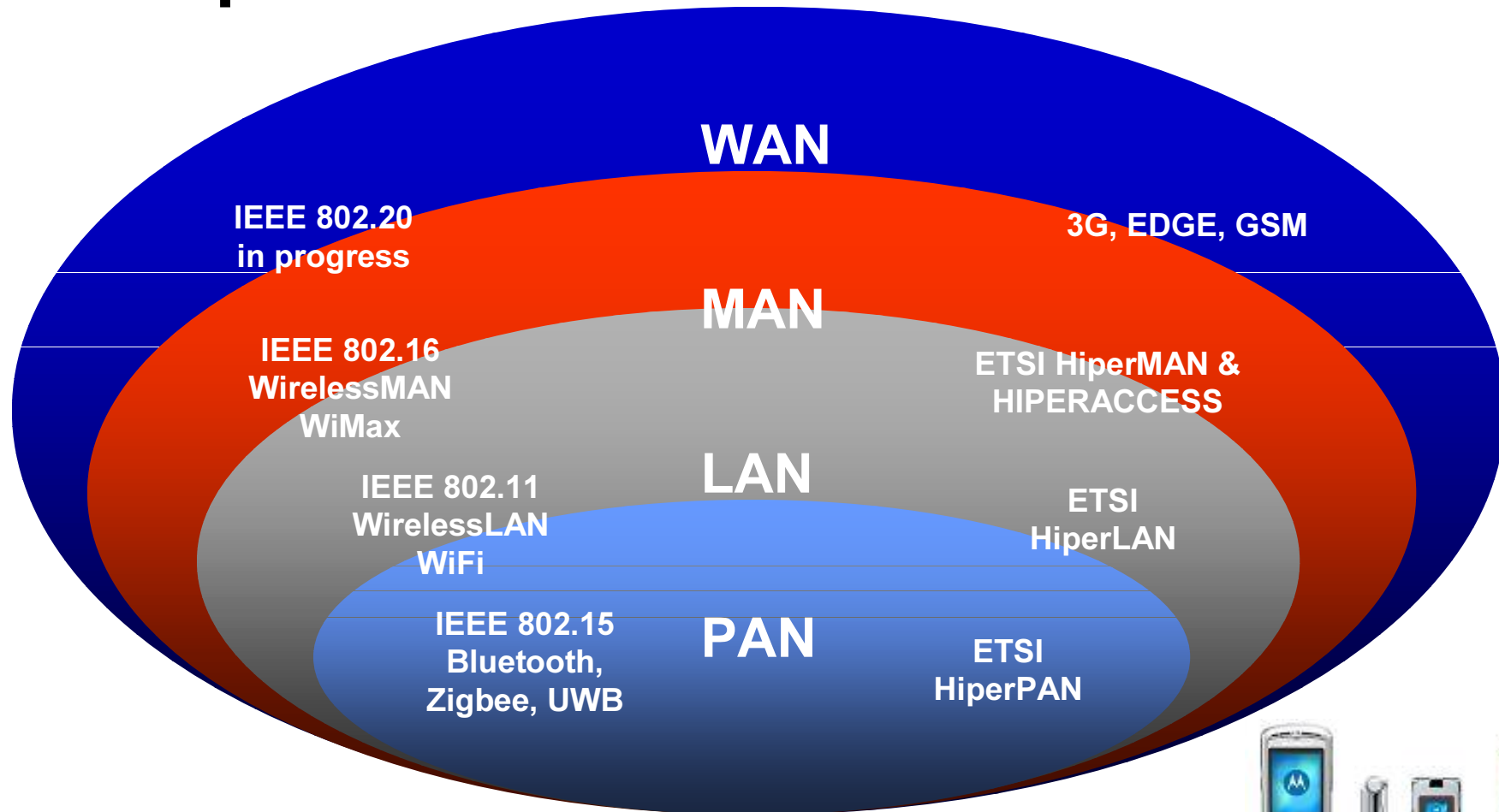


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Requirements

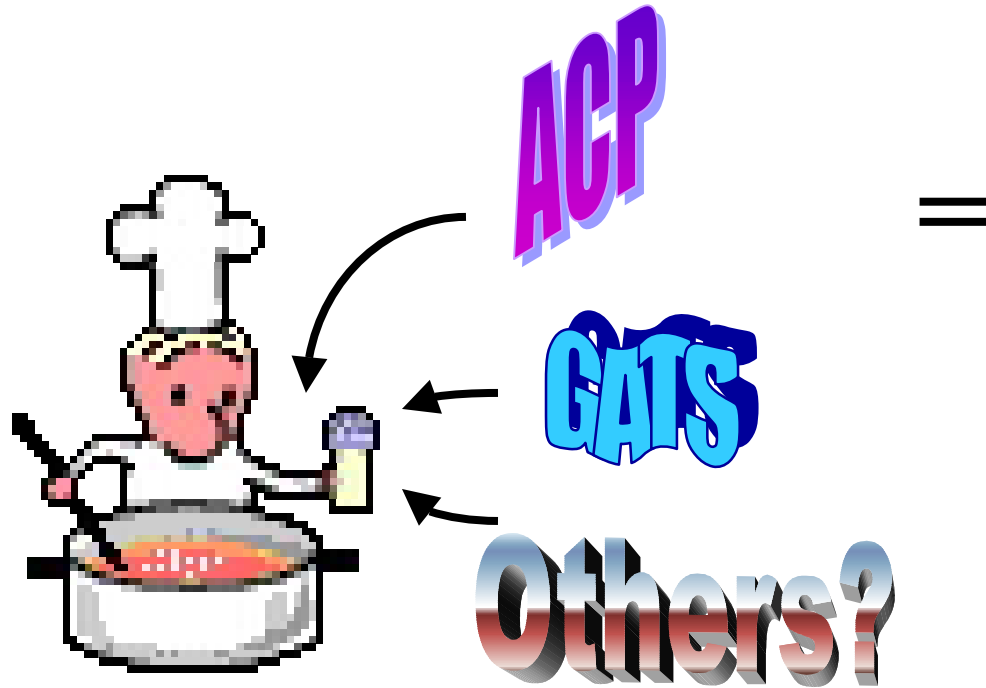


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Possible Solution



GTPML or GSTP

- Open
- Scalable & Modular
- IP Compatible
- Flexible
- Wireless Independent

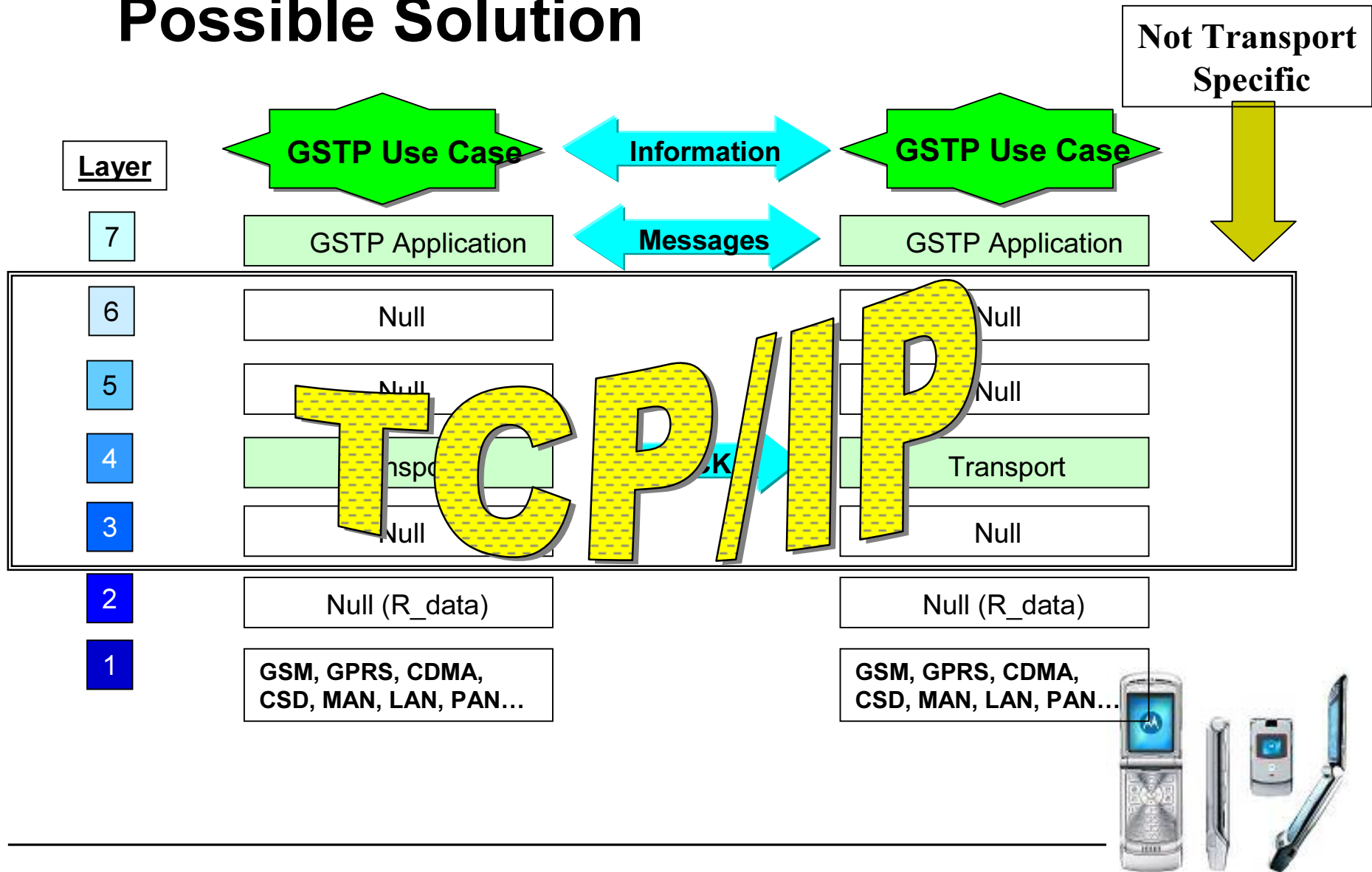


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Possible Solution



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Possible Solution

Use Cases Already Defined

- ◆ Emergency call (E-Call)
- ◆ Breakdown Call (B-Call)
- ◆ Post E-Call, B-Call Management
- ◆ Vehicle tracking
- ◆ Covert Call (Silent Panic)
- ◆ Remote vehicle control
- ◆ Provisioning
- ◆ Information services
- ◆ Remote Diagnostics (Vehicle, Terminal, SW)
- ◆ Data pass through
- ◆ Direct Message
- ◆ Customer Relationship Management
- ◆ Capability Inquiry



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Potential Solution

Additional Use Cases

- Internet Access
- Travel Companion
- Traffic Information
- Floating Vehicle Data
- Off Board Navigation
- Fleet Management Services
- Digital Information
- ?
- ?
- ?
- ?

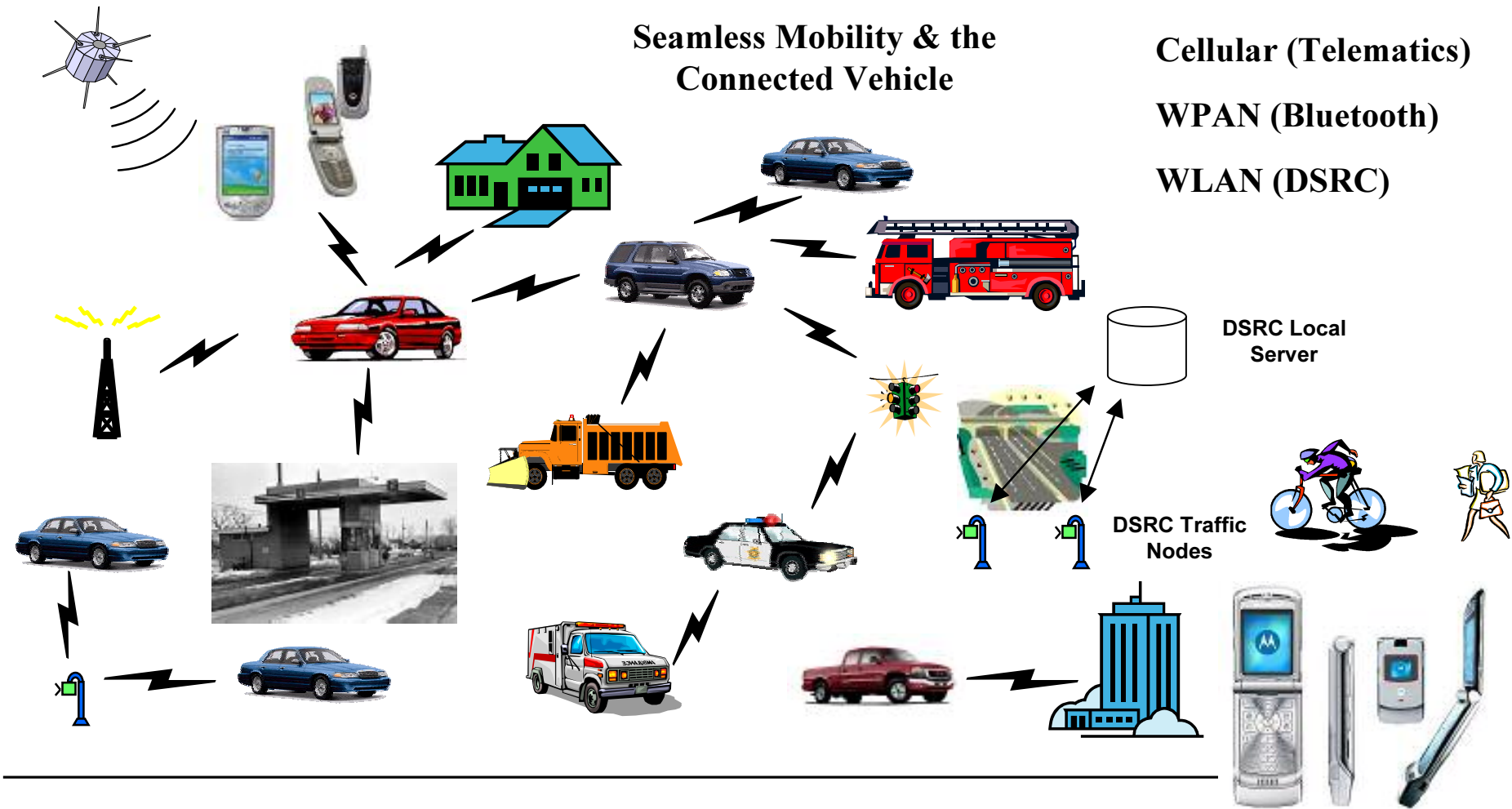


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Potential Future



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Summary & Conclusions

- Communications landscape will only get more complex so standardized where possible with future in mind
- Build on past experience
- Make sure the IP world is included
- Include Public and Private Sectors



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Thank You



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