

APCO Emerging Technology Forum

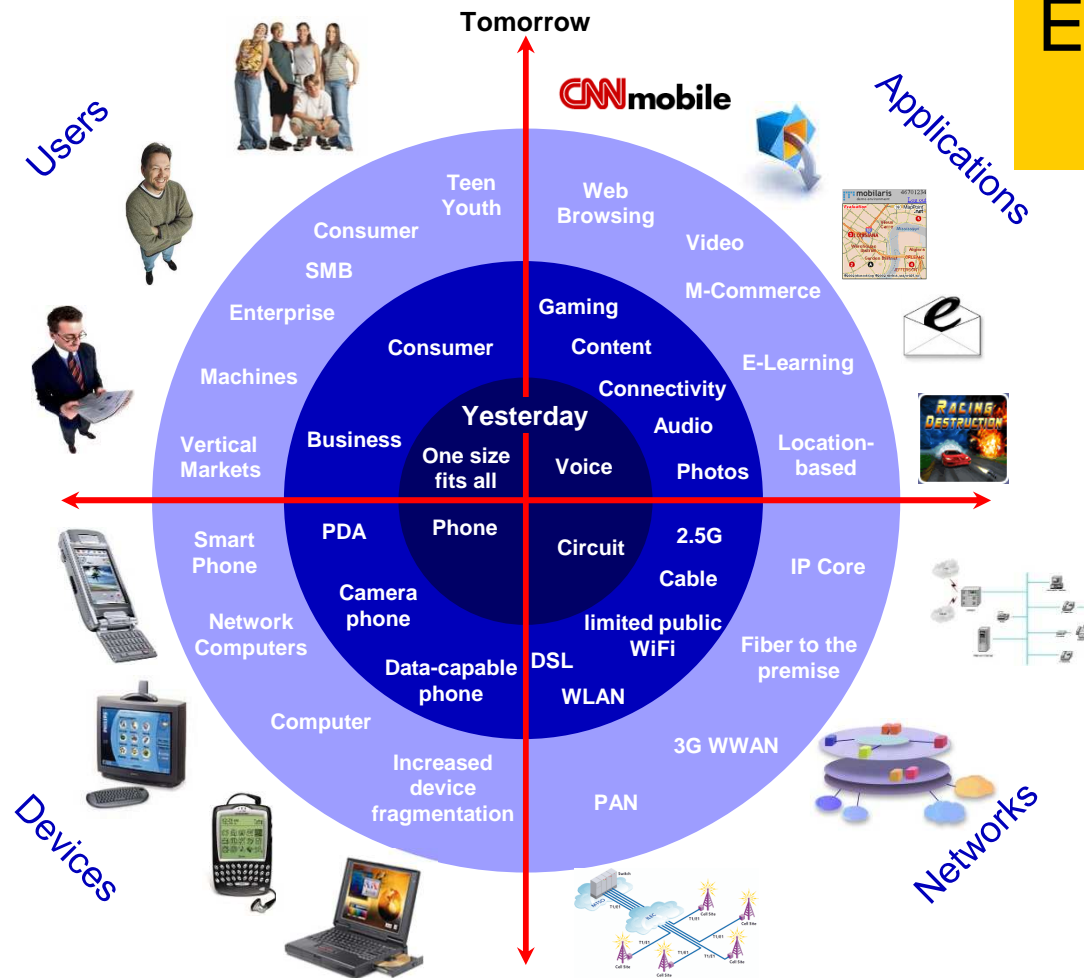
**Exposing Network Services to Public
Safety Application Developers**

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Ericsson, Business and Solutions Creation

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Public Safety Dynamic Needs

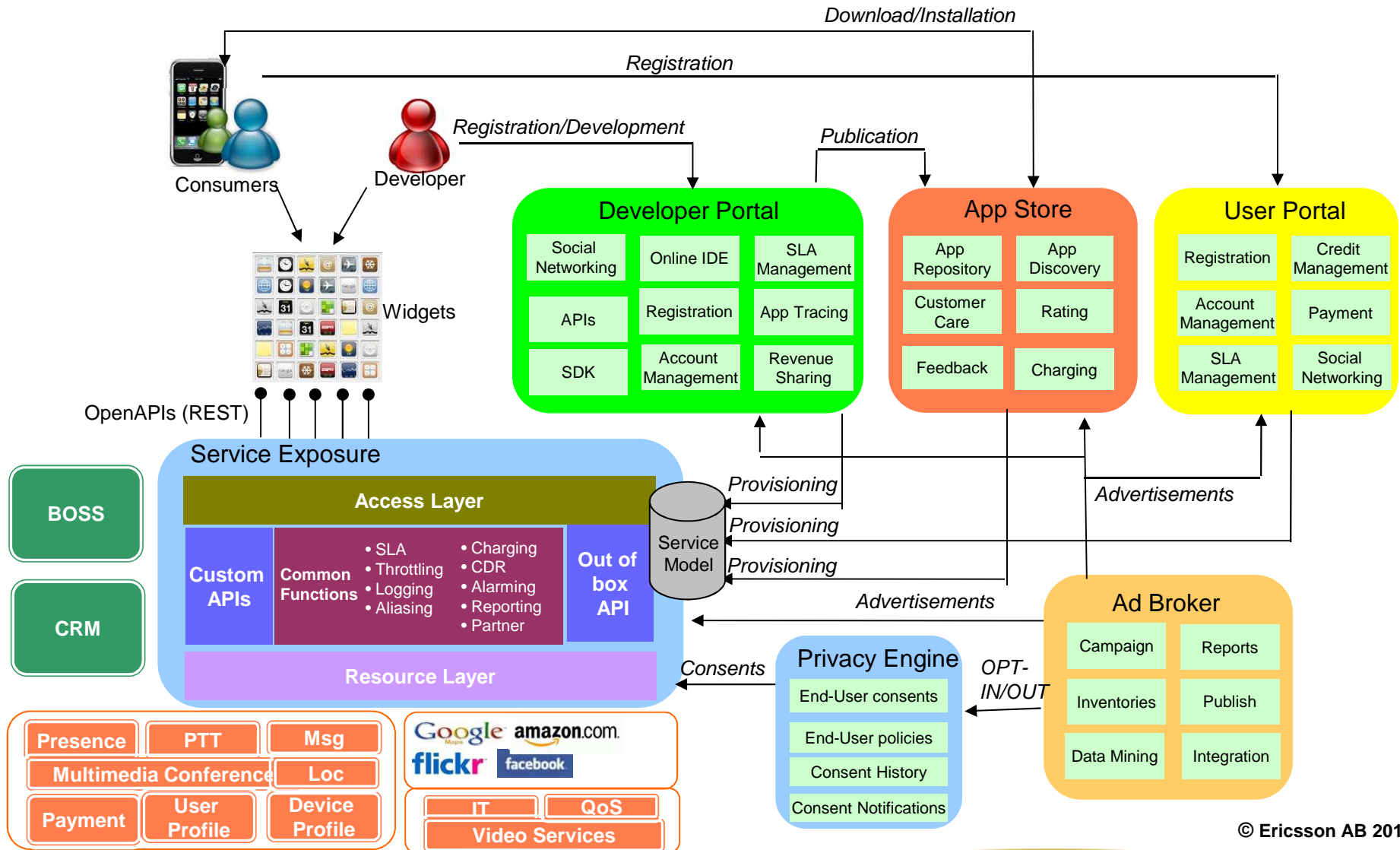


Evolving user needs and applications

Rich open ecosystem is key to enabling agency specific applications.

Source: Yankee Group

Open Services Ecosystem



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API Fabric Enables Agency Innovation with flexible interworking foundation

- Innovation
 - API fabric to enable Local agency applications and network abstraction for faster TTM.
 - Process automation for application on-boarding and distribution.
 - Leverages existing Public safety developer ecosystem.
 - Enable services for both Public safety network subscribers and for non-PS network Subscribers.
- Flexibility
 - Differentiated service for agencies and for people.
 - Can instrument “What-if” scenarios that can automatically reconfigure priorities, policies, bandwidth throttling, access permissions etc. using same mechanisms used every day.
 - Security and policy frameworks configurable to local agency needs.

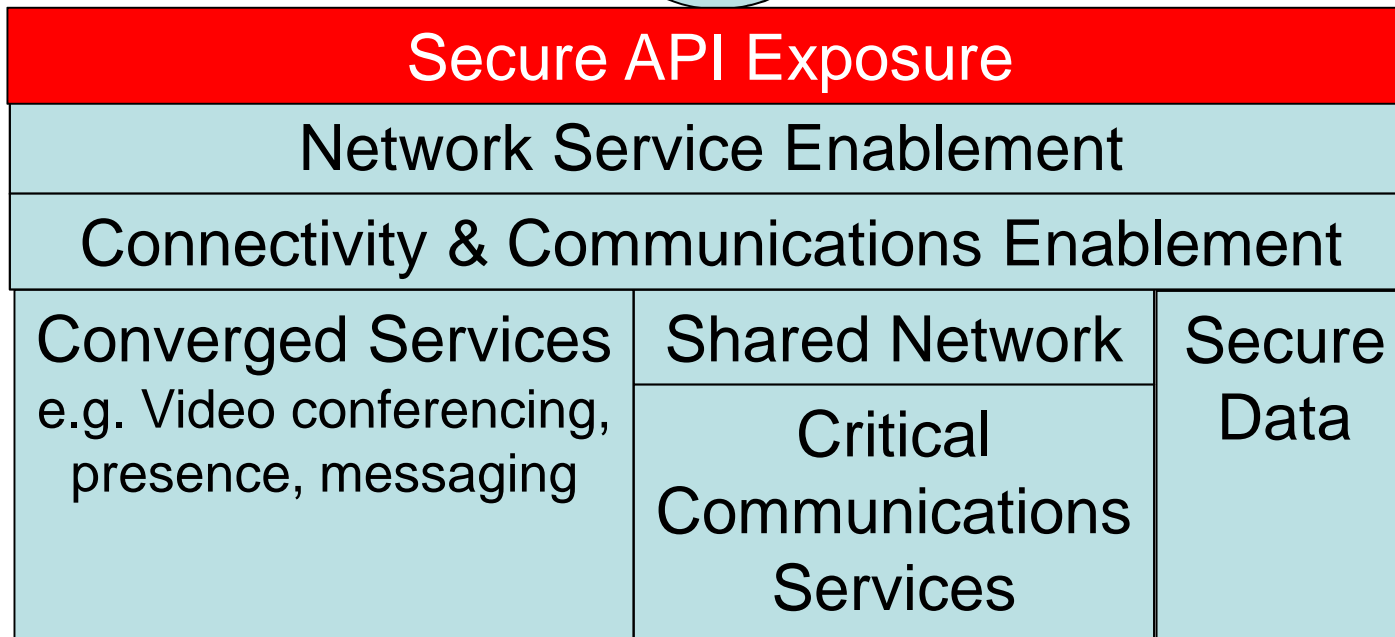
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Key Requirements for Exposing Network Services

- **Adaptability** – The needs of various public safety agencies are unique, require adaptation to situational circumstances and typically evolve over time. APIs enable developers to adapt.
- **Local Control** - Local agencies must be able to control provisioning and configuration of their users, devices, applications, and secure data. Provisioning APIs are key for developers.
- **Dynamic Flexibility** – Local agencies need the flexibility to dynamically determine which users are authorized to use which devices and applications, which resources users can access, which policies govern the device and user, and how users and applications fit into priority and Quality of Service schema.
- **Real-Time** – Developer use APIs for real-time enablement of local agency unique requirements.

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API Fabric to Leverage Shared Network



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Enabling First Responders – Anywhere, Anytime, Any Device

First Responder is like superman!



- Clark Kent is reporter until crisis happens. Then he uses what he has with him.

United States First Responders Association



- First Responder has many roles. In crisis, can he use devices he has with him?

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Key Takeaways

- The future public safety communications system must:
 - **Expose** a network API fabric to public safety applications for real-time enablement of local agency unique needs.
 - **Enable** public safety applications on whatever device may be available with adequate QOS and security.
 - **Adapt** to developer needs via modular horizontal framework to optimize time to availability of services.

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