



Summary of CMX Design Overview

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This part of the CVD describes the various components and technologies necessary for the implementation of a successful CMX solution. Multiple deployment models in which the components may be implemented within campus and branch network infrastructures are discussed. Finally security considerations as well as other additional considerations are discussed.

This part of the CVD includes the following chapters:

- **CMX Solution Components**—Highlights the wireless (Wi-Fi) network infrastructure necessary for providing location services and CMX services within this design guide. A discussion of the Cisco Context Aware Service (CAS), which provides location services, and the technologies behind CAS are also presented. Finally, an introduction to the various CMX services which make use of the location information provided by CAS is discussed.
- **CMX Deployment Models**—Introduces high-level models for the deployment of infrastructure components necessary for location services and CMX. Considerations around bandwidth utilization and scalability of the MSE are discussed. Finally the high-level models are mapped to campus and branch designs showing physical infrastructure designs for supporting CMX services as well as guest access for CMX Visitor Connect.
- **CMX Security Considerations**—Focuses on traffic isolation for guest wireless access as part of CMX Visitor Connect. Additionally, it discusses Role-Based Access Control (RBAC) for the Mobility Services Engine (MSE) as well as the CMX Connect & Engage service.
- **CMX Additional Considerations**—Highlights additional considerations when deploying a CMX solution, including:
 - How fast location information is updated and made available.
 - Considerations around specific mobile device platforms, such as Apple IOS 8 devices and some Android devices.
 - Considerations around the use of 2.4 and 5 GHZ frequency bands when deploying location services and CMX services.
 - Considerations around the deployment of the FastLocate feature.

