

BayLoop Network Application Request Form

| APPLICATION / SYSTEM information | | | |
|---|--------------------|-----------------------------|-----------------------------------|
| Application/System Name: | WebEOC | | |
| Requesting Agency/Dept: | San Mateo County | Executive Sponsor/Reviewer: | |
| Document Date/Version | Date: 6 May 2014 | Version: 2 | Exec Sponsor/Reviewer's Phone No. |
| Author's Name | Thomas Meyers | Author's Phone Number: | |
| Author's Email Address: | tmeyers@smcgov.org | | |
| Project Priority (provide only if multiple application requests are submitted): | __ of __ | | |

Please check all that apply:

- | | | |
|---|---|---|
| <p>a. BayLoop Approval Request</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> New Application/System <input type="checkbox"/> Update/Modify Existing Application/System <input type="checkbox"/> Connect to/Expand BayLoop Network | <p>b. Point of Connection</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Existing BayLoop Access Point <input type="checkbox"/> Adds New Microwave Link/Spur (licensed/unlicensed) <input type="checkbox"/> Adds new leased T1 link <input type="checkbox"/> Adds new leased fiber link | <p>c. Application/Service Type</p> <ul style="list-style-type: none"> <input type="checkbox"/> Voice <input checked="" type="checkbox"/> Data <input type="checkbox"/> Voice and Data <input checked="" type="checkbox"/> Public Safety <input type="checkbox"/> General Government <input type="checkbox"/> Special District/Other |
|---|---|---|

1. Application/System Description:

- Briefly describe the application and its purpose in operational terms.
 WebEOC® is a web-enabled, user-friendly, and locally-configurable incident and event management system. Emergency managers and first responders, regardless of location, can enter and view incident information in WebEOC status boards. WebEOC is a multi-functional collaboration tool that creates a common operating picture, enabling emergency managers to make sound decisions quickly.

- Describe typical users (law, fire, medical, emergency management, etc.).
 WebEOC could be used by BayRICS first responders and emergency managers working at the county and city level.

- Explain how the application fits BayLoop transport requirements:
 - Transaction based and designed to efficiently utilize network bandwidth.
 Yes. This is a data efficient IP application.
 - Supports mission critical public safety operations, and/or
 - Will be mission critical in the event of a disaster incident impacting public networks.
 Yes. This application can support public safety agencies on day-to-day activities and in the event of an emergency.

- Explain connectivity requirements (DS0, DS1, Ethernet, encryption or other security needs), data packet size, transport frequency, number of end users/agencies across system, transport frequency (continuous/intermittent/random/scheduled), maintenance response requirements, and loading impact on system capacity, etc.
 This is a data efficient IP based application that requires minimal bandwidth. With an expected 8 standalone WebEOC servers attached to the BayLOOP ring, under normal day-to-day operations, would require approximately 5 Mbps bandwidth. During a full fledged emergency (major earthquake or firestorm) with all servers exchanging major amounts of data, the bandwidth requirements could go as high as 100 Mbps.

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- If any external agency approvals required for this application, attach proof of approval.
TBD

- Does the application have an anticipated termination date?
No.

2. How will approval of this request enhance and improve operational efficiency, service delivery and/or system reliability for your agency or jurisdiction?

Participating agencies will be capable of communicating interactively via BayLoop with other regional EOCs both on a day-to-day basis and during emergency incidents. This capability will provide a secure and resilient link to enhance emergency response and recovery and potentially replace more costly existing communications services. Access to WebEOC via BayLoop will provide the following operational enhancements:

- Increases intra and inter-county communications
- Improves operational efficiency of individual EOCs, dispatch centers, and command operations
- Enhances communications between counties, cities, and outside agencies
- Saves cost by regionalizing WebEOC across multiple counties, cities

3. If an existing application, explain how connectivity is currently being achieved and why BayLoop transport is being requested (include any potential cost savings that could be achieved and if the savings will be one-time or ongoing).

WebEOC is currently installed [and functional?] in San Francisco, San Mateo, Santa Clara, and is being installed in Marin County. Currently each of these systems are autonomous, standalone systems. The end-goal of this BayLOOP application project would be to attach each of the existing WebEOC systems to the BayLOOP ring and add, for any node, connectivity to a WebEOC Fusion server that acts as the "traffic cop" for the routing of the exchanged data traffic.

Basically, each of the existing WebEOC servers would be connected to the BayLOOP ring with the appropriate interface equipment (router, firewall, ect.) as defined by each of the individual agencies.

In this configuration, all of the WebEOC servers would be able to communicate with the other WebEOC servers and share data. In the event of a major event (earthquake) disrupting the BayLOOP ring, all of the individual WebEOC servers would still be able to function in a standalone operational mode.

4. Describe any one-time and ongoing costs associated with adding connectivity to BayLoop and/or moving this application/system onto the BayLoop network for voice/data transport (e.g., one-time programming or other services, labor, equipment, interface, data conversion, maintenance, leased circuit, etc.) and how these activities and associated cost will be addressed.

- One WebEOC "Fusion server" shared by all nodes
- User interface equipment (router, firewall, etc.)
- Network configuration and programming
- Additional costs will be dependent upon which sub-applications and add-ins are selected to be adopted by the BayRICS members in support of the Regional and local agency needs.

5. Provide a diagram of how network expansion/connectivity to BayLoop and/or how the application/system voice/data will flow on the BayLoop network (mark-up of existing BayLoop diagram).

The main structure of the BayLoop structure will not need to change. The Fusion server hosting the application will need to be physically located at one of the BayLoop nodes. At each other node where a county or agency wishes to interconnect WebEOC to their EOC or internal networks, an IP based interconnection to BayLoop will need to be installed (routers, Firewall, etc.). At all other node sites, those that are not accessing the WebEOC application, the owners of the nodes need to allow the passing-through of data on the ring.

6. Desired Outcomes (use bulleted list):

- Increases intra and inter-county communications
- Improves operational efficiency of individual EOCs, dispatch centers, and command operations
- Enhances communications between counties, cities, and outside agencies
- Saves cost by regionalizing WebEOC across multiple counties, cities

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7. Estimated start and completion dates:

- Desired start date: 1 Oct 2014 (Date work begins)
- Desired completion date: 15 Nov 2014 (Date fully operational on BayLoop)

8. Attachments:

- Diagram application/system voice/data flow on BayLoop network (Item 5). Identify whether physical or logical topology is provided.

N/A for this application

- Equipment inventory list (if applicable)

TBD

- List of authorized agencies requiring access for this application and estimate of total number of users.

TBD

- List of BayLoop translated IP addresses that correlate to requester's device IP addresses.

TBD

- List of IP addresses of devices on requester's network accessed by other agencies.

TBD

- List of TCP or UDP ports which need to be allowed on BayLoop firewalls.

TBD

- If devices will be accessed by hostname, include the Fully Qualified Domain Name (FQDN) and method of name resolution (local DNS or DNS zone transfer).

TBD

- Proof of external agency approval, if required.

TBD