

DNS Management & Naming Conventions
27 May 2011

DNS Zone Administration

SVRIA owns the domain *svria.org*, registered with Go Daddy, and has designated San Jose as technical contact. Management of the following sub-domains is delegated to administrative and technical contacts of each participating agency as follows:

<i>SVRIA Participant</i>	<i>SVRIA Sub-Domain</i>
Cal Fire	cdf.svria.org
Campbell	cmb.svria.org
Gilroy	glr.svria.org
Los Altos	cla.svria.org
Los Gatos	lgt.svria.org
Milpitas	mlp.svria.org
Morgan Hill	mhl.svria.org
Mountain View	mtv.svria.org
Palo Alto	cpa.svria.org
San Jose	csj.svria.org
Santa Clara	scl.svria.org
Santa Clara County	scc.svria.org
Sheriff's Office	sho.svria.org
Sunnyvale	snv.svria.org
Water District	vwd.svria.org

Each EComm user is responsible for creating and implementing a local DNS resolution strategy for its local agency network. At a minimum, this includes the following two tasks:

- Create and manage additional sub-domain user accounts with Go Daddy as per agency requirements.
- Understand, select and implement one of the following strategies:
 - *Outside (Internet) name resolution only* – In case of an Internet outage at the EComm user, EComm will still function for that user on an IP address basis only but no name resolution will be available unless locally cached entries or static configurations exist.
 - *Inside (local network) copy of zone file* – In case of Internet outage at the EComm user, EComm will still function for that user on both IP address and DNS basis. However, any updates performed by other EComm users at Go Daddy will not be available until Internet connectivity is restored and a fresh copy of the zone file has been obtained. *(Note: This approach requires a locally administered DNS server to be operational at the user.)*

- *Inside (local network) administration of the zone file* – In case of Internet outage at the EComm user, EComm will still function for that user on both an IP address and DNS basis. However, any updates performed by this user will not be available to other EComm users until Internet connectivity is restored and the current zone file is publicly available again. (Note: This approach requires zone delegation of the sub-domain by Go Daddy and a locally administered DNS server to be operational at the user.)

Naming Conventions for Hosts and Applications

General Guidelines

The following general naming convention guidelines apply to both host names and application names:

- Do not use special (non-alphanumeric) characters (!@#%&^*()_+ -= <> / ? \ | ~ etc.)
Examples: Use *coplinklogon* instead of *coplink-logon*
Use *aries50* instead of *aries#50*
- Keep all host and application names short
Examples: Use *mugapp* instead of *mugshotapplication*
Use *cooldb* instead of *cooldatabasebackend*
- Do not use leading numbers
Examples: Use *frazier30* instead of *30frazier*
Use *cad56* instead of *56cad*
- Do not duplicate content already present in a sub-domain name
Examples: Use *slets* instead of *sletssho*
Use *host98* instead of *mlp98*
- Use only lower case characters
Examples: Use *character* instead of *ChArAcTeR*
Use *nicehost* instead of *NiceHost*

Default Host Names

Each agency creates standardized name records within its respective sub-domain for the IP addresses of the two outside firewall interfaces:

- EComm firewall: *gwecomm.<sub-domain>.svria.org*
- Agency firewall: *gwagency.<sub-domain>.svria.org*

Additional name records should be created as needed for every IP address that must be accessible by other participating agencies via EComm.

Application/Server Host Names

The decision regarding the choice of an application designator is part of the initial SVRIA approval process for new EComm transport requests.

Some applications may require access to multiple servers (perhaps a separate authentication server for a logon page which then redirects to an actual application server). For these applications, an additional sub-designator may be meaningful, such as *slets01* and *slets02*, or *sletslogon* and *sletsmain*.