

October 2011

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TECH TIP:

*X-Forwarded-For support in
Palo Alto:*

What's New at Comm Solutions?

Comm Solutions gives back to the Community

In September, Comm Solutions held our 8th Annual Technology Expo and Golf Outing at Downingtown Country Club in which Comm Solutions customers, as well as employees, attended and gave back to the community by donating to the charity of their choice by purchasing a mulligan to be used during play on the golf course. A drawing was held to select the charity and we are happy to announce that the 2011 donations will be made to Children's Miracle Network. To give more back to the community, Comm Solutions decided to match the amount given to Children's Miracle Network. The employees at Comm Solutions are excited to continue this tradition moving forward and hopes to increase the donation amount next year! Comm Solutions will be planning more Community Outreach programs in the next year, so look for more information to see how you can help your local community.

Comm Solutions Certifications

Comm Solutions maintains excellent alliances with best players in the industry and our team of certified specialists understand how to leverage these technologies and shorten deployment cycles. Our expertise allows you to provide fast reliable results as well as have significant purchasing power with leading manufacturers and software vendors to provide you the best overall value and ROI on your technology deployments.

- Robert Clinton passed the F5 LTM Essentials Exam
- Tony Tanzi is now a F5 Technical Accredited Sales Professional
- Rich Weber passed the Technical & Sales Requirements for ShoreTel Mobility
- Robert Clinton is now an Aruba Certified Mobility Associate
- Brian Schott passed the F5 Technical Sales Accreditation

Featured Solution

Outdoor Options for Wireless LAN Client Access

OUTDOOR WIRELESS CHOICES:

Providing Outdoor coverage is generally being handled via one of

The X-Forwarded-For (XFF) HTTP header is used for identifying the originating IP address of a client connecting to a web server through an HTTP proxy or load balancer. This is a non-RFC-standard request header which was introduced by the Squid caching proxy server's developers.

The general format of the header is:

X-Forwarded-For: client1, proxy1, proxy2

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Did You Know....

According to a new IDC study, data requirements are growing at an annual rate of 60 percent?

Today, that figure tops at 45 gigabytes for every person, or 281 exabytes total (equivalent to 281 billion GB). Unstructured data represents 95% of all new data created.

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three methodologies.

- A fully-weatherproofed, Outdoor Access Point, designed expressly for harsh/outdoor environments.
- An Indoor Access Point, mounted in an enclosure providing weatherproofing and optionally temperature controls.
- An Indoor Access Point, paired with external antennas, with the Access Point mounting within the building shell, and the antennae mounted outside the building.

Recently Comm Solutions has been asked a lot of questions about each option and decided it was worth developing a brief write-up of the pro's and con's and potential pitfalls of each type of deployment.

For this exercise Comm Solutions is only concerned with providing WLAN client coverage, the following will not be taken into consideration: mesh, backhaul or point-to-point bridging applications, as they are more unique and would potentially have other constraints and needs for alignment, antenna selection, etc. Look for future documents to address antenna choice for point-to-point and other non-WLAN client servicing applications.

CLIENT SERVICING ANTENNA CHOICE

The most important thing to consider for client access is that WiFi is a two-way communication method. Putting a high-gain antenna on an Access Point does nothing to help the communication from the client to the Access Point, it simply focuses the antenna's transmit power and receive sensitivity in a direction, while also removing it from another. There's no free lunch in antenna gain, for every dB gain in one direction, there's generally an equal loss in another. Comm Solutions' engineers' have seen high-gain antennas deployed for these uses, only to have disappointed clients who have 100% receive signal strength (as they can hear the AP perfectly due to the high gain antenna), but have horrible or unusable throughput, (due to the fact that without a focused antenna on the client, the AP doesn't hear the client's transmitted data).

High gain antennae should only be used in pairs, for point-to-point or mesh deployments with rigid mounting locations.

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