Wireless Site Survey - Small

Wireless Site Survey for Small Office building up to 500 m² in wireless coverage area.

Description

Wireless Site Survey Report detailing nominal Access Point locations and the corresponding proposed Wireless Coverage Areas (Heat Map)
Analysis Activities

- Pre-survey consultation teleconference - The purpose of this meeting is to establish customer requirements including coverage, usage models, system availability, as well as site access and installation constraints. This meeting will be conducted remotely by telephone;
- Complete predictive survey off of floor plan provided by the customer;
- Meet with customer and obtain access to the site;
- Conduct Site Survey - The purpose of this activity is to engage in Passive mode walk test results that will provide ambient RF conditions in the 2.4GHz and 5 GHz spectrum and other elements. Specifically the following components of the Site Survey will be undertaken:
  - Identify any Wireless Access Points currently in operation (potential rogues/interferers), RSSI, Channel Width, Data Rate and Transmitting Channel;
  - Survey on a stick is used to survey the desired coverage areas and immediate surrounding locations from a test Access Point placed in each of the proposed Access Point Locations as determined by the Planning Survey.
- All Surveyed data will be overlaid onto the Customer’s provided floor plans of the facility;
- The Surveying engineer will take Photos of the Access Point locations once confirmed by the Survey on a Stick results. Photos will also be taken of the current communications cabinet and a reference placed on the Site Map.

Design Activities

- Develop Site Survey Report - Based on the collection of data from the Site Survey CSA will develop a Wireless Site Survey report that identifies the proposed Wireless Access Point locations overlaid on Customer provided floor plans (RF heat map) with the following information:
  - RSSI (Signal Strength);
  - Signal to noise Ratio (SNR);
  - Network Issues – This will display areas that may have issues based on Coverage Requirements configured;
  - Channel Plan (Planning);
  - Client Data Rate (Predicted);

Constraints

- CSA’s Wireless Site Survey for 'Small Office' is limited to a survey coverage area not exceeding 500m2 and is limited to a single building only;
- CSA’s Wireless Site Survey is based on conducting an on-site RF wireless survey. In certain circumstances conducting an on-site RF survey may not be practical or achievable for various reasons such as:
  - Site is not in a fully constructed state;
  - Site is in a remote location;
  - Accessibility to the site is difficult to obtain;

In such circumstances the Customer may elect for CSA to perform a predictive wireless survey using a computer model rather than an on-site RF survey. Customer is to advise CSA at the commencement of the engagement if a predictive survey is required. It is understood
by Customer that a predictive survey is limited in its ability to accurately model the environment and a predictive survey will not identify the following items:

- Sources of wireless interference;
- Physical irregularities or constraints requiring visual inspections;
- Unique or complex architectural characteristics of the building will not be modelled, Consideration of site cabling conditions and availability;

- Accuracy of measured coverage will be dependent upon CSA’s ability to access all coverage areas;
- Surveys will be completed with Ekahau software and Enterasys 3620 Access Points where customer is unable to provide alternative access points (autonomous or with the necessary control mechanism) pre-configured for survey purposes;
- All in-scope workshop, design and as-built configuration documentation, diagrams and information registers, procedural documentation, training activities and testing activities for this service will be completed to CSA’s standard level of detail unless otherwise agreed in advance;
- Where possible CSA will complete work remotely to minimise travel and expenses;

**Assumptions**

- Should CSA determine that the extent of the wireless site survey is greater than that of a 'Small Office' building exceeding 500m2 then CSA will charge the Site Survey at the appropriate building size;
- The survey will be conducted within a single continuous engagement;
- Wireless Survey Questionnaire has been completed prior to sale, in the event this has not been completed it will be provided and must be completed by the customer prior to scheduling of this service.

**Excluded**

- Outdoor Area Wireless Site Surveying is out of scope;
- Surveys for specific location tracking applications are out of scope;
- Survey of other buildings or areas exceeding the 500m2 limit;
- Assessment of access point client density;
- Costs associated with travel, accommodation and other miscellaneous expenses are not included in this proposal and if required will be billed separately;
- Any activities or services not clearly identified in the scope of work;
- Time spent travelling will be charged at CSA’s standard engineering rates from the nearest CSA office. Any additional travel or other expenses incurred will be charged at cost. A standard overnight allowance of $103 will be charged for overnight stays;
Customer Responsibilities

- Customer to email an electronic copy of the floor plan to CSA prior to Pre-Survey Consultation meeting. Electronic floor plans should depict all coverage locations with accurate scale and in standard graphic of document format (JPG, BMP, PNG, PDF);
- Provide CSA with nominated site contact that can facilitate access to all coverage areas within scope of the survey;
- Providing access to sites, buildings, and equipment in a timely manner as required;
- Completing Wireless Survey Questionnaire accurately prior to requesting the service to be scheduled by CSA;
- Providing any required information before and during the project in a timely manner (including but not limited to: IP addressing, login credentials, licensing and support contracts, etc.);
- Actively participating in any in-scope workshop sessions, project & coordination meetings, operational familiarisation sessions, handover sessions;