

Kelowna General Hospital

Organization: Kelowna General Hospital through Western Pacific Enterprises

Technology Focus: Distributed Antenna System (DAS), Multi Carrier, Wireless Operators

Duration of the project: 2015

Western Pacific Enterprises engaged Cartel Communication Systems Inc. to supply engineering design and commissioning services for a multi-operator cellular In-Building Coverage enhancement system for the Kelowna Hospital IHSC Building.

Our design objective was to provide RF coverage enhancement of Telus/Bell and Rogers to 95% of the facility at a signal level of approximately -75 dBm or better in the general areas and -95 dBm or better in the stairwells and crawl space area. The cellular bands supported are 850 MHz, 1900 MHz and 2100 MHz. According to Telus, Levels 1, 2 and 3 as well as the crawl space required enhancement after reviewing the site survey results. Rogers did not require any additional coverage but the system does support the Roger's cellular network if required at a later time.

A passive and active distributed antenna system (DAS) design was utilized to meet the design objective.

