

Wi-Fi Improvements Project

Commission Presentation

February 23, 2021



PROJECT OVERVIEW

Wi-Fi Improvements Project



- Significantly improves Wi-Fi coverage & performance throughout the terminal
- Improves the Port's ASQ score
- Benefits the Port and the Airport's passengers, airlines & tenants
- Improves network connectivity and Wi-Fi coverage on the ramp for Airline & Port ramp operations

Terminal Wi-Fi: ASQ Score & Download Speed

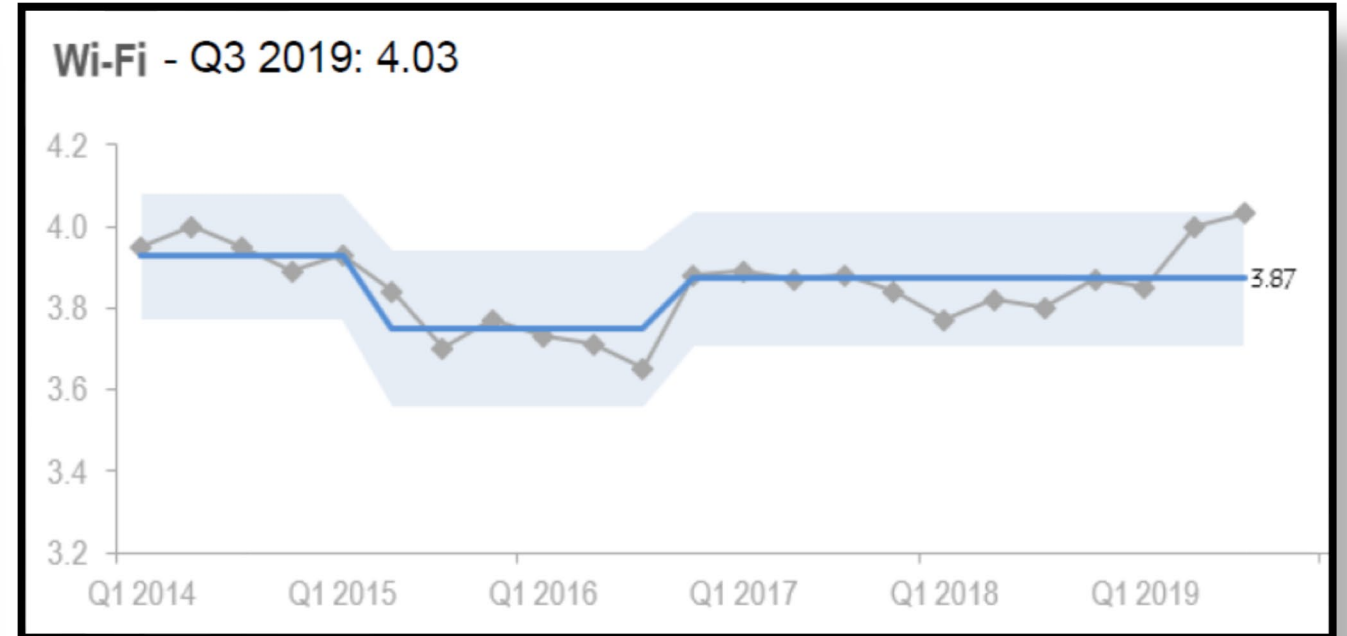
 **Benjamin Cabé**
@kartben Follow

Wow @SeaTacAirport has to be the best airport Wi-Fi I ever saw... by far! Thanks! 😊

FAST

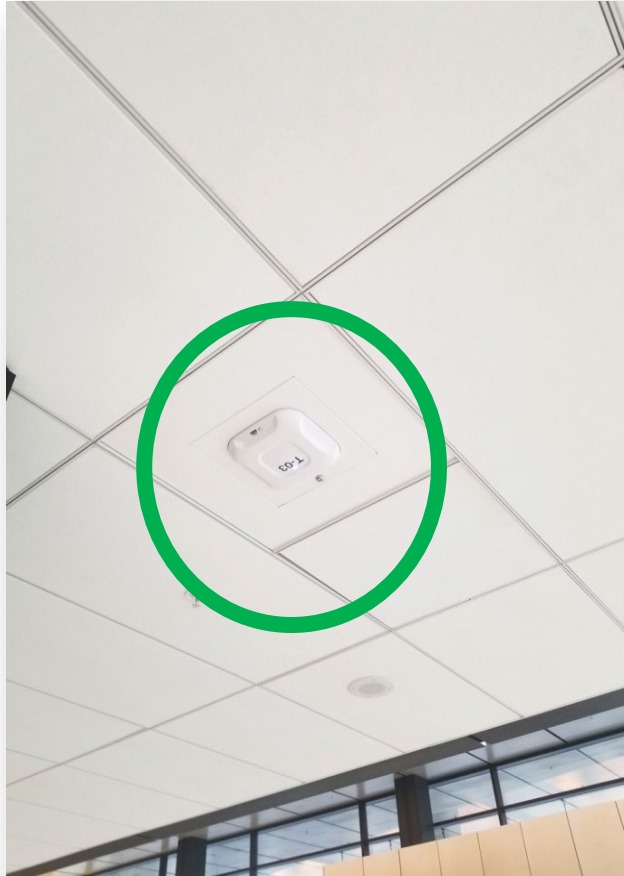
Your Internet speed is

130 Mbps



ASQ Score: **5 Year Avg. — 3.82** **2019 Q3 — 4.03**

Wireless Access Points (WAP)



Terminal Wi-Fi Access Points



Ramp / PLB Wi-Fi Access Points

Micro-Distribution Cabinet (MDC)



- Each MDC provides connectivity to the Airport's communication infrastructure backbone system
- Designed and developed to implement PLB Wi-Fi capacity
- Provides high-performance network access for future Port and Airline ramp operations

Ramp Wi-Fi supports mobile devices used by personnel and vehicles



WAP for above-the-wing operations

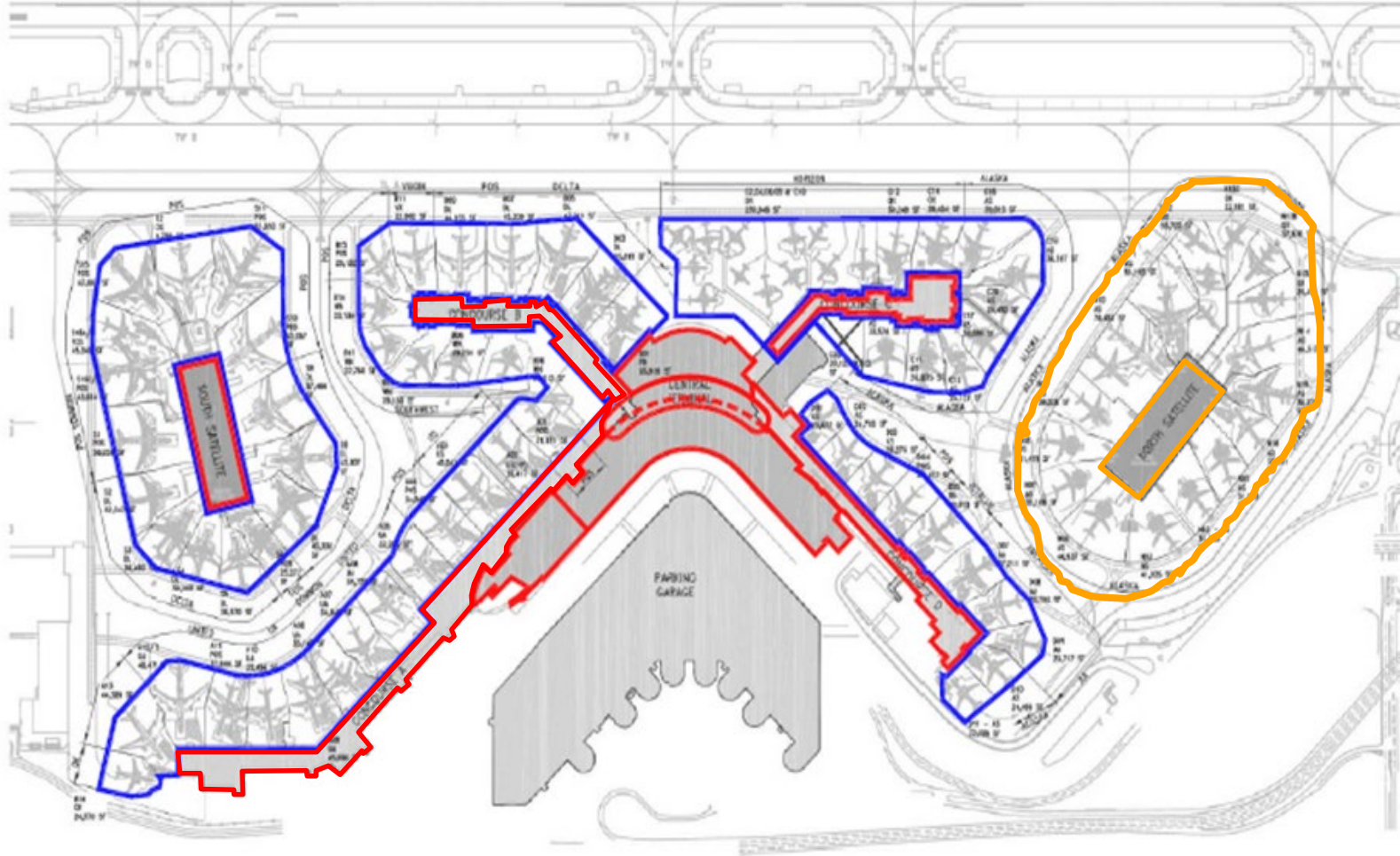
WAP for below-the-wing operations




Antennas are oriented so that the signal can reach between the rear door and the tail of the aircraft where most of the Wi-Fi use will take place.

Wi-Fi Improvements Project: Overview

Package 1	Concourse C Ramp and Interior	Completed
Package 2	Concourse A, B, D, South Satellite Exterior	Completed
Package 3	South Satellite Interior	Completed
Package 4	Concourse D Interior	Completed
Package 5	Central Terminal; Ticketing	Completed
Package 6	Bag Claim; Bagwell; Gina Marie Lindsey Hall	Completed
Package 7	Passenger Loading Bridges at Concourses A, B, C, D and S Satellite	Requesting funding
Package 8	Passenger Loading Bridges at North Satellite	Requesting funding

Wi-Fi Improvements Project: Revised Scope of Work



-  Red – Interior Wi-Fi complete
-  Blue – Ramp Wi-Fi remaining
-  Gold – North Satellite Ramp Wi-Fi new

Blue and Gold work requested today

Changes Requiring Additional Budget

- Additional funds needed to complete construction of the remaining Wi-Fi work on the PLBs at Concourses A, B, C, D and South Satellite as the work was more complicated than initially planned
- Additional funds needed to complete a portion of the design and construction of North Satellite Modernization project's Wi-Fi work



BUDGET & AUTHORIZATION REQUEST

Schedule

Activity	Quarter
Package 7 Construction Start: PLB Wi-Fi at all concourses except NSAT	Q2 2021
Package 8 Design Start: PLB Wi-Fi at NSAT	Q2 2021
Phase 8 Design Complete	Q4 2021
Phase 8 Commission Authorization for Construction	Q4 2021
Phase 7 Construction Complete	Q3 2022
Phase 8 Construction Complete	Q3 2022
Phase 7 & 8 Close-Out	Q2 2023

Requested Revised Project Budget

Authorizations	Project Budget
Original Budget (2014 Capital + Expense)	\$ 9,880,000
Previous Budget Addition	\$ 561,000
Current Authorized Budget (Capital + Expense)	\$ 10,441,000
Additional Budget to Authorize	\$ 6,000,000
Total Budget	\$ 16,441,000

CONCLUDES PRESENTATION