

Fitchburg State University
Construction Standards
Wireless Locks

Last Updated 9/10/20

1. Wireless electronic mechanical lock requirements shall be Allegion/Schlage AD-400 locksets. No substitutes will be accepted.
 - a. All Allegion Wireless locks must have:
 - i. Integrated door position switch, request-to-exit, and card reader.
 - ii. Multi-Technology readers that reads both 13.56 MHz Smart cards and 125 kHz Prox cards. Ability to read the following credentials:
 1. 13.56 Smart card secure sector credential: aptiQ, MIFARE Classic, aptiQ, MIFARE DESFire EV1, and NFC.
 2. 125 kHz Proximity with HID PROX.
 - iii. A twelve Button keypad on all academic and administrative offices and suites.
 1. Residence hall rooms would not have a keypad.
 - iv. Interior pushbutton to allow the lock to enter into a privacy mode. i.e. overrides unlock schedule and locks from the exterior.
 - v. 626 finish, unless specified otherwise
 - vi. Lockset shall have the ability to utilize emergency mechanical key override with the following manufacturer's key systems in the lever:
 1. Seven Pin BEST ACCESS core
 - vii. Sparta contour angel return lever style, unless specified otherwise.
 - viii. Mortise chaise
 - ix. Fail secure
 - x. Ability to accept 8AA batteries
 - xi. Lock features include the following switches and reportable alarms in the Lenel Access Control Software:
 1. Door Position Switch
 2. Interior Cover Tamper Guard
 3. Mechanical Key Override
 4. Request to Exit
 5. Request to Enter
 6. Lock/Unlock Status (Clutch Position)
 7. Low Battery, Communication Loss, Access Granted, Access Denied, Door Forced Open, and Door Held Open Alarms
 8. Remote commanding by Lenel Integrated Access Control software: Wireless lockset shall have "Wake on Radio" feature causing activation of remote, wireless access control locksets, enabling activated locksets to be configured, locked or unlocked from a centralized location within 10 seconds or less without user interface at the device.
 9. The lock offline mode should be setup to "Degraded/cache mode" and remember only the last five successful access granted cardholders and allow them to enter in an offline mode.
 - b. Preferred Model:
 - i. Office and Suite Doors: AD400 MS 60 MTK RHO 626 BD x Handing x 8B (with keypad)
 - ii. Residence Hall Suite and Room Doors: AD400 MS 60 MT RHO 626 BD x Handing x 8B (no keypad)
 - c. All Allegion wireless locks require a PIM with the ability to accept up to 16 locks. For every additional 16 locks, another PIM shall be installed.
 - i. PIM placement must be coordinated with security vendor or Allegion.
 1. Communication between the wireless lock and PIM must be tested prior to install.

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- a. Each AD-400 lock shall not be more than 200' away from PIM.
2. The following three cables shall be home run between each PIM and main Access Control panel location.
 - a. Data 1: 24AWG, 4 conductor shielded, Belden 9843, 9841 or comparable.
 - b. Data 2: CAT6, yellow cable.
 - c. DC Power: 18 AWG, 4 conductor, Belden 8760 or comparable.
3. A Lenel 3300X Intelligent System Controller (ISC) will be installed at every head-end location where a wireless lock and PIM are installed.
 - a. A Lenel 3300 panel is capable of accepting 64 readers. For every additional 64 readers a Lenel 3300 shall be installed, including necessary network data drops.
 - i. Note: Although a Lenel 3300X can accept up to 64 readers, they can only handle up to 16 PIMs.
- d. Additional Lenel licensing shall be provided by security vendor to accommodate all wireless and online doors.