

Implications of Deploying InfeXBloc™ Architecture

When the new paradigm of ‘proven trust’ security is adopted, actors involved will feel a significant impact. Let’s take a look at that impact:

On Facility Owners, Operators and Investors

The adoption of InfeXBloc™ architecture can be expected to deliver:

- A demonstrably safer facility for senior residents and their families with a quantifiable proof point for the assertion
- A sound defense in the event of arising legal liability



- A certifiable audit that creates an a strong viable evidentiary trail
- A simulation proof point to justify the investment
- A real time visibility of the InfeXCON™
- A balanced scorecard (InfeXBloc Scorecard™) to achieve quarterly ratings to brag on
- A codified measurement mechanism to assess the value of a business
- Restoration of your ability to do high risk high consequence work better and safer than before the pandemic
- Pressure-indicator outside of rooms will indicate if the room is negative or positive pressure so that the caregivers can determine the course of entry
- Scrubbing stations in rooms as well as for a collection of rooms
- UVC lights for room disinfection

On Architects & Designers

The physical architecture must now pay attention to the implementation of the following:

- A strong perimeter entrance gate, entrance temperature check station, caregiver changing room (from street clothes to facility cleaned scrubs, donning of PPEs, the deposit of cell phones, etc.)
- Design of rooms for 'infection containment' (negative pressure HVAC, touch-free door, touch-free faucets, private baths as far as possible, anterooms, the ability for caregivers to discard biohazardous waste, air scrubbing equipment, etc.)
- Possible design of sunroom – as this has disinfectant qualities and is beneficial for seniors
- Hands-free sliding room doors to minimize contact surfaces
- Hands-free faucets that automatically activate/deactivate to minimize contact surfaces
- Shower handles, toilet flush handles, doorbells should be cleansed/disinfected regularly
- No bags permitted past the outer firewall
- Facility will not allow street footwear, rather will provide disinfected house shoes for everyone except non-caregivers who must wear work boots as part of OSHA compliance. They will be provided booties.
- Groceries, vegetables, meats, fruits, supplies, bags, and similar items will be cleaned and disinfected before storage
- Schedule rooms/common areas will be vacant for one hour per day for UVC disinfection
- Laundry will be done once a day separately for each resident to avoid cross-contamination amongst residents' laundry

On the Process Architecture

The process design must now pay attention to the implementation of the following:

- Verification/validation/medical check for granting of 'InfeXPASS™'
- Mandatory handwashing between every caregiving event
- Residents with an infectious sickness will not leave their rooms and will be provided with meals in the room
- No bags permitted past the outer firewall
- Facility will not allow street footwear, rather will provide disinfected house shoes for everyone except non-caregivers who must wear work boots as part of OSHA compliance. They will be provided booties.
- Groceries, vegetables, meats, fruits, supplies, bags, and similar items will be cleaned and disinfected before storage
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On the Equipment

The use of senior care equipment will need to factor in the following:

- Wheelchairs, walkers, canes, gurneys, blood pressure monitors, thermometers,

- medicine carts, nurse's iPad, and other care equipment must be cleaned and disinfected
- Stairs, banisters, elevator components, furniture, and other facility fixtures must be cleaned and disinfected
- Books in the library should be cleaned and disinfected

On the PPE

The facility must now pay attention to the supplies of and the usage of PPE and must ensure that PPE is changed before and after every care-giving event with an 'infectious' resident.

On Caregiver Health

Caregiving creates undeniable stress on the frontline staff. The facility must pay attention to the health of its caregivers in the following ways:

- Physical health
 - Caregivers need to be careful with their health, declaring the presence of coughs, colds, fevers. If present, taking leave until they are healthy is important.
- Emotional health
 - Employee Assistance Programs will be available for caregivers to deal with 'caregiver stress' or other causes of stress.
 - Workload rebalancing will be used to deal with extra work when one or more of the residents in a caregiver's rotation is designated 'infectious'.
 - A caregiver reporting 'sick' or 'infectious' must withdraw from active caregiving tasks.
 - Better perception of safety because of higher levels of controls and safeguards.

On Resident Families

Resident families must be educated about the shared responsibility of placing their beloved senior in an InfeXBloc™ home in the following ways:

- Visiting family members must obtain InfeXPASS™ screening, wear appropriate PPE, booties, etc.
- Physical contact with residents will only be across plexiglass dividers or 'hug-screens' if the facility is not in Green status.
- Give a scoring card (InfeXBloc Scorecard™) for resident families to score a facility.
- Encourage virtual visits if the facility is not in Green status.
- Weekly 'State-of-Mom' video report will be posted on the website which will include her medication journal, care journal, etc. (this is based on Mom's HIPAA permissions)
- Family members can have authenticated access to "Mom's Page" on the facility website.
- All "Mom's Treasures" (physical and digital) will be part of a farewell package delivered to the family after Mom's death.

On Placement Agencies

Placement agencies may:

- Use the InfeXBloc Scorecard™ to gauge the suitability of a facility for their clients.
- Encourage prospective residents to use a virtual 3D tour to preview a facility. These will be magic carpet ride tours beyond the current Matterport video tours and will be available long before the facility is built.
- Follow visitor protocol during open-house tours.

On Residents and the Care-Service, They Receive

Residents should expect:

- Some restrictions to mobility when they are diagnosed with 'infectious' diseases unless the Doctor designates them as needing isolation, in which case they will be relocated to 'isolation' rooms (if such a room is available, otherwise they will be transferred to a hospital).
- To use face masks when interacting with other residents.
- To be outside of their room when the UVC light/Robotic disinfecting will be performed.
- A stronger cleaning and disinfection routine.
- To enjoy more connectedness via virtual visits.
- More personalization.
- Meetings with family members will adhere to 'social distancing' norms until normal operations resume.
- Better perception of safety because of higher levels of controls and safeguards.

On Healthcare Providers

Doctors, Nurses, and other health professionals:

- Can self-certify their 'InfeXPASS™'.
- Should follow the PPE protocols.
- Should encourage virtual health visits.
- Better perception of safety because of higher levels of controls and safeguards.

On Non-Caregiving Staff

Chefs, handymen, equipment maintenance staff, hairdressers, delivery staff, and other non-caregiving staff:

- Should enter only via 'entrance complex'.
- Must sign a declaration to obtain 'InfeXPASS™' on site.
- Should avoid resident contact unless essential.
- Better perception of safety because of higher levels of controls and safeguards.

On Oversight, Regulators, Inspection (LPA), Ombudsman

Regulators, Inspection agents, Ombudsman and similar individuals will:

- Be enabled for virtual visitation and virtual inspection.
- Have access to monthly 'State-of-InfeXBloc™ home' video reports.
- Be able to use conference rooms for personnel interviews, audit reviews, etc.

On Volunteers

Volunteers must sign a declaration to secure 'InfeXPASS™' on site.

On Activity Staff

Activity staff must:

- Sign a declaration to secure 'InfeXPASS™' on site.
- Avoid contact with residents.

On Delivery Staff

The delivery staff will:

- Have their company certify their 'InfeXPASS™'.
- Minimize contact with residents.

On the Cost of Care

It is important to recognize the cost implications of implementing a paradigm change. After 9-11, commercial aviation security switched from 'implicit-trust' (every flyer is safe unless they proved unsafe) to 'proven-trust' (every flyer is unsafe unless they proved safe) and this had huge cost implications:

- Airport architectures had to be redesigned.
- Security checkpoints, X-ray machines, baggage screenings, safety perimeters, traffic patterns around airports had to be redesigned.
- Process architecture had to be fully redesigned.
- Total travel duration planning had to be redone for airline travelers.
- TSA had to hire a brand-new workforce of hundreds of thousands.

Everyone bore the brunt of these increased costs. Adopting InfeXBloc™ will have similar implications.

The cost of care is:

- Expected to be more for InfeXBloc™ architecture than before, given the hardware enhancements, the rigorous processes and protocols and strenuous extra work and responsibility assumed.

In Event of Litigation

In the event of litigation, your insurance company and your defending attorney will have the benefit of the 3 'black boxes' (Video Data Recorder, Audio Data Recorder, and the Events Data Recorder). These data streams can be combined and synchronized to understand the actual sequence of events for understanding "what happened".



To learn more about InfeXBloc™ and how your facility can leverage the architecture to move forward, enhance safety, and rebuild trust in a post-pandemic world, check out www.infexbloc.com.

INFEXBLOC™ PILOT SITE

Golden Springs Ranch





About Ashish Warudkar

Ashish has worked in the software industry for 30+ years including 19+ years in the healthcare sector. He also has been an entrepreneur for over two decades and provides consultation to “Golden Springs Ranch” which is an upcoming InfeXBloc™ home in Palmdale, California which will introduce the innovations discussed in this paper to provide its precious residents with a safe happy home and their families with peace of mind.

Ashish Warudkar is trained at:

IIT Bombay	Mechanical Engineering
UCI	Predictive Analytics (7/8)
Harvard	Disruptive Innovation Strategy with Clayton Christensen
MIT	Advanced Certificate for Executives in Management, Innovation & Technology Architecture & Systems Engineering of Complex Systems Platform Strategy – Building & Thriving A Vibrant Ecosystem Business Dynamics – Diagnosing and Solving Complex Business Problems Executive Certificate in Strategy and Innovation
Product School	Product Management
BWW	Network Marketing
Oren Klaff	Pitch Mastery

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Meetup: Monthly meeting (first Sunday 6pm CA time) of Senior Care Accountability Network
<https://www.meetup.com/Senior-Care-Accountability-Network-SCAN/>

