

CHALLENGE MAINTAINING OPERATIONS STAFF AVAILABILITY

- | Mandated number of control room operators required to meet safety requirements.
- | Insufficient staff may be available onsite due to illness, quarantine or HSE recommendations.
- | Onsite infection may require evacuation and sanitization of control room.
- | Personnel entering control room to access process information increases exposure to infection risk.
- | Engaging with offsite process experts to troubleshoot issues.



Control Room Operations Now



What If You Have Depleted Staffing?

How To Maintain Safe, Reliable Business Continuity With Less Onsite Staff?

EXPERION AUGMENTED REMOTE OPERATIONS



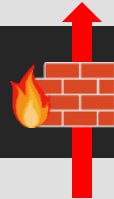
Process Control from Alternate Locations



Monitoring and Support from HQ



Support Operations Remotely



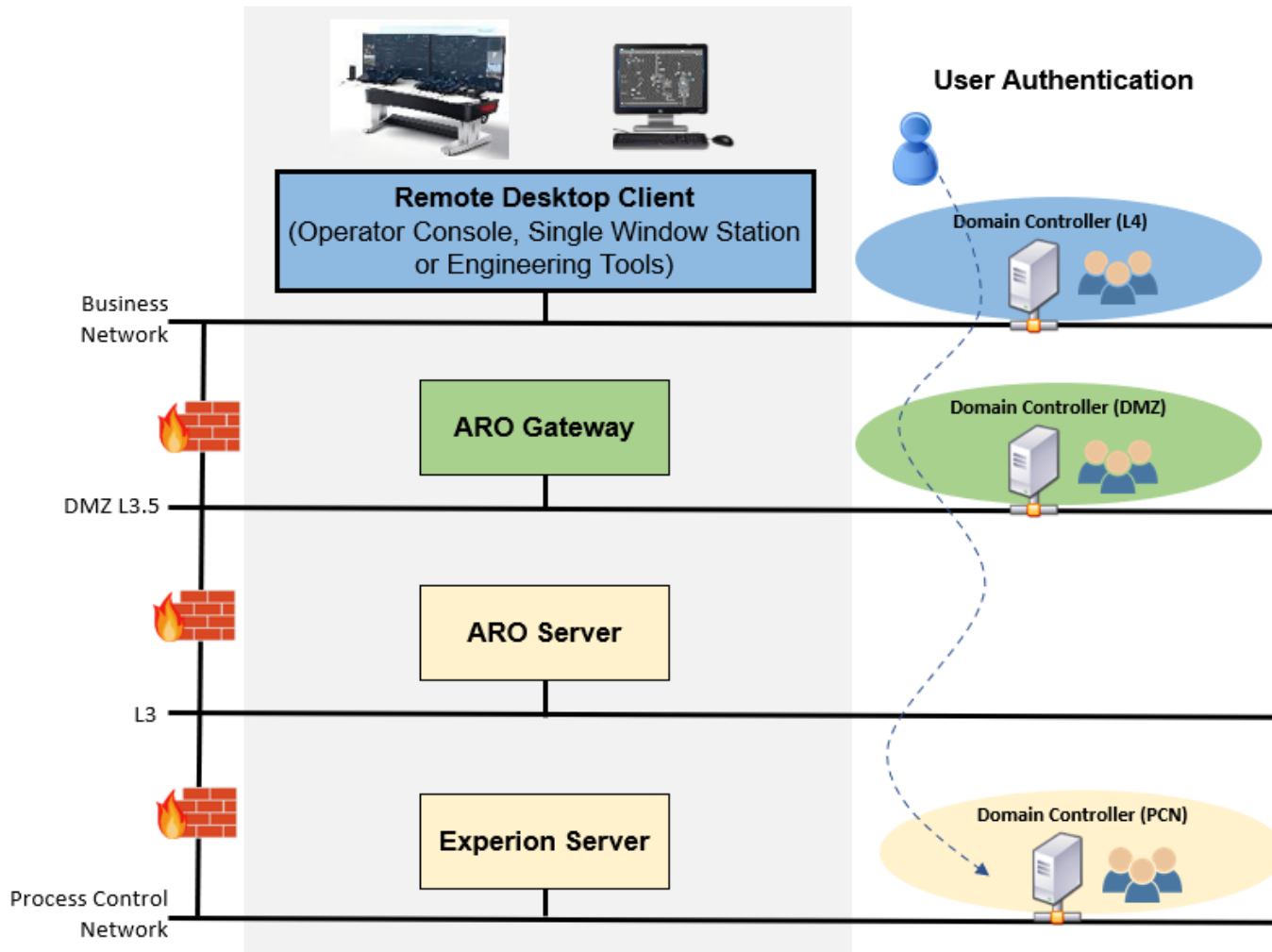
Control Room



- **RUN OPERATIONS FROM ANY FACILITY**
- **MAINTAIN PRODUCTION WITH MINIMAL ON-SITE STAFF**
- **SUPPORT OPERATIONS REMOTELY**
- **RAPID DEPLOYMENT**
- **HIGHEST CYBER SECURITY**

Maintain Operations from Alternate Locations

STANDARD TOPOLOGY



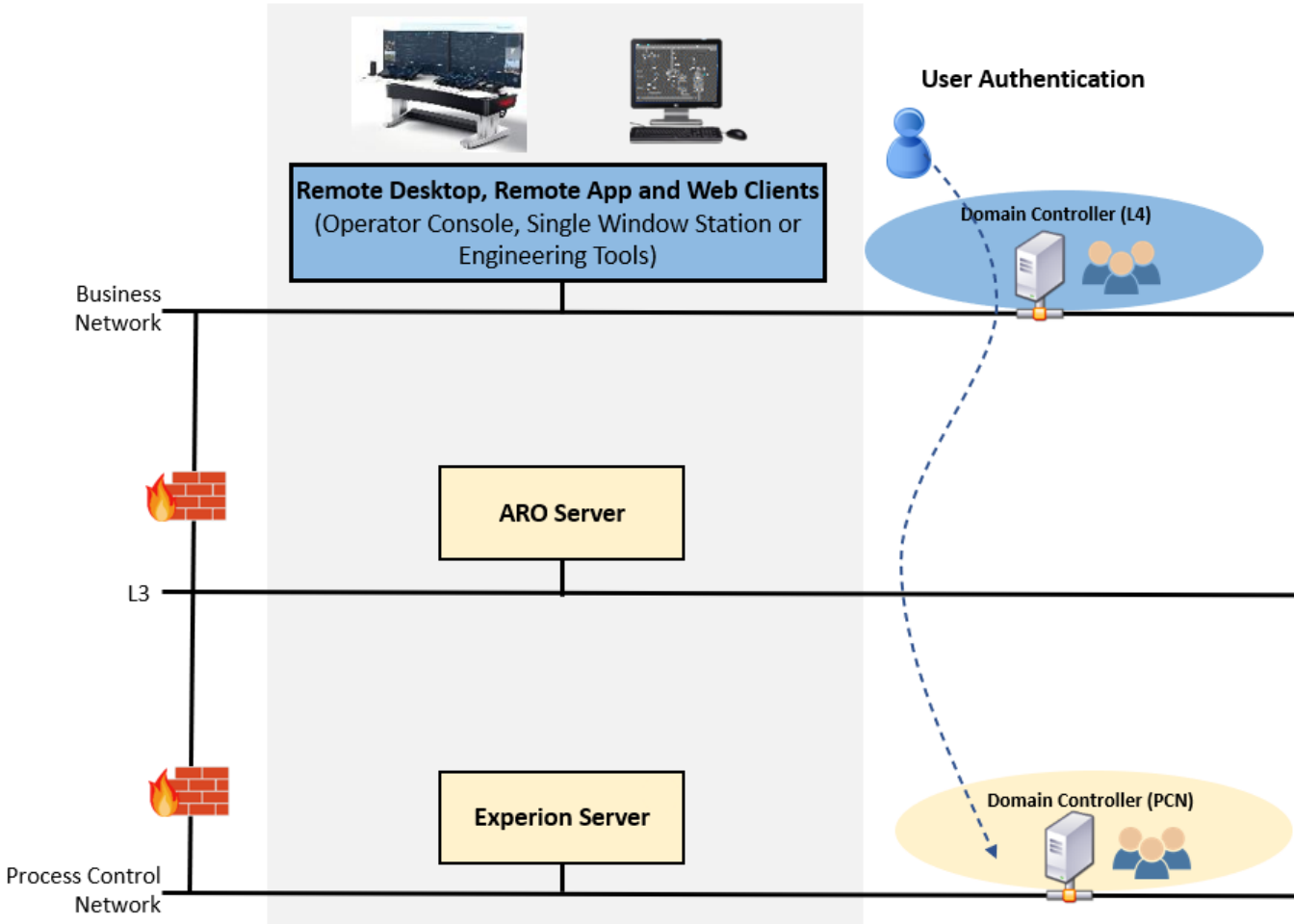
- **SECURE REMOTE ACCESS**
- **ENCRYPTED HTTPS COMMUNICATION**
- **ACCESS RESTRICTED TO SPECIFIC USERS AND CLIENT IP/MAC ADDRESSES**
- **FULL CONTROL OR READ ONLY ACCESS CONFIGURABLE PER USER**

OPTIONAL ADDITIONAL SAFEGUARDS



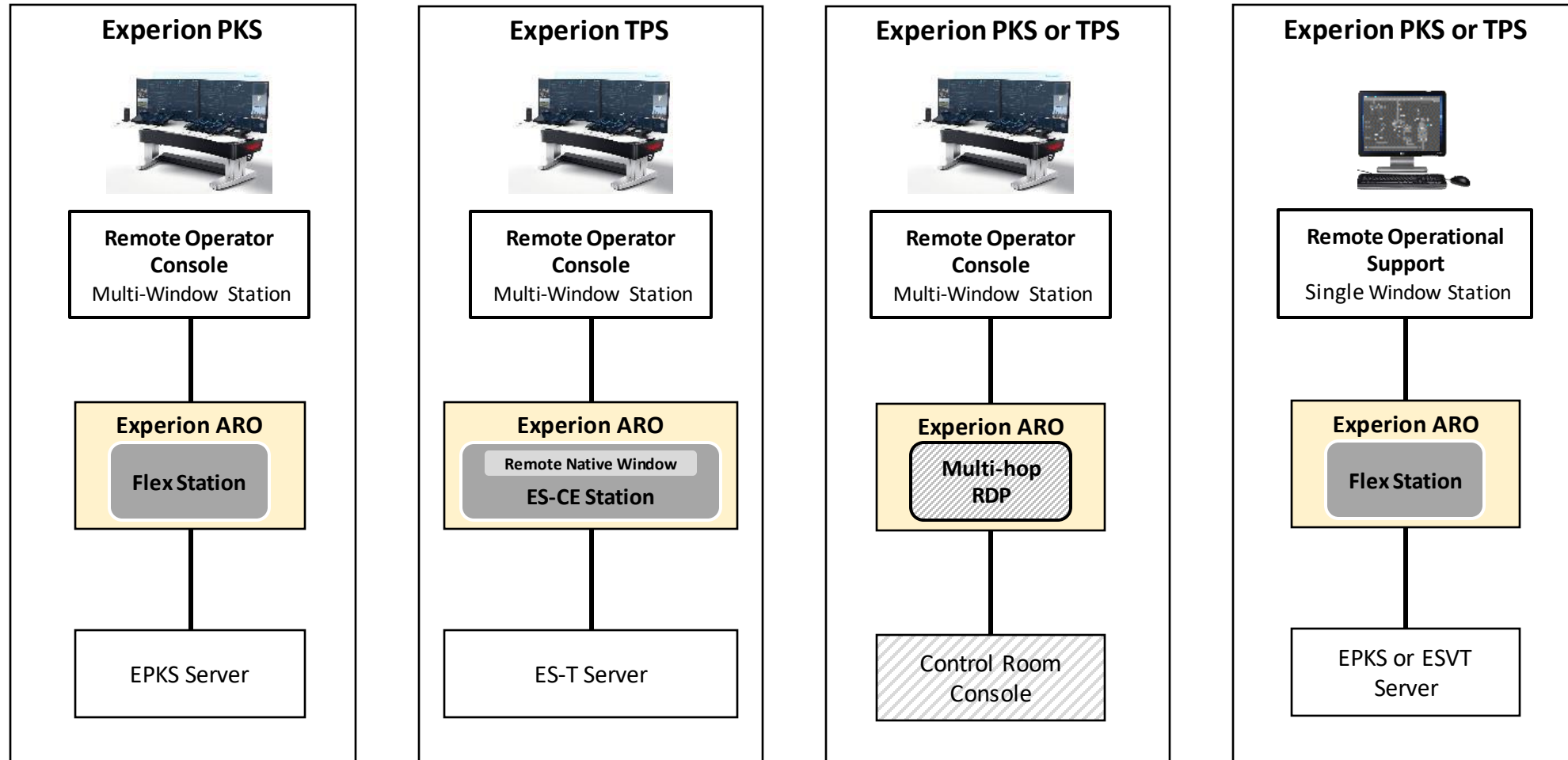
- **AVAILABLE FOR STANDARD ARO TOPOLOGY**
- **MULTI-FACTOR AUTHENTICATION**
- **FIREWALL PRE-AUTHORIZATION RESTRICTS PORT ACCESS TO AUTHENTICATED USERS ONLY**
- **APPLICATION WHITELISTING**
- **ADDITIONAL NODE HARDENING**

TOPOLOGY FOR SITES WITH NO DMZ NETWORK



- **ARO GATEWAY NOT REQUIRED**
- **ENCRYPTED HTTPS COMMUNICATION**
- **ACCESS RESTRICTED TO SPECIFIC USERS AND CLIENT IP/MAC ADDRESSES**
- **FULL CONTROL OR READ ONLY ACCESS CONFIGURABLE PER USER**

STATION OPTIONS



REMOTE OPERATIONS EXAMPLE



- **RELOCATE CONTROL ROOM OPERATOR**
- **SET UP CONSOLE MONITORS & PERIPHERALS**
- **IDENTICAL OPERATIONS VIA THIN CLIENT**

REMOTE OPERATIONS DEMONSTRATION



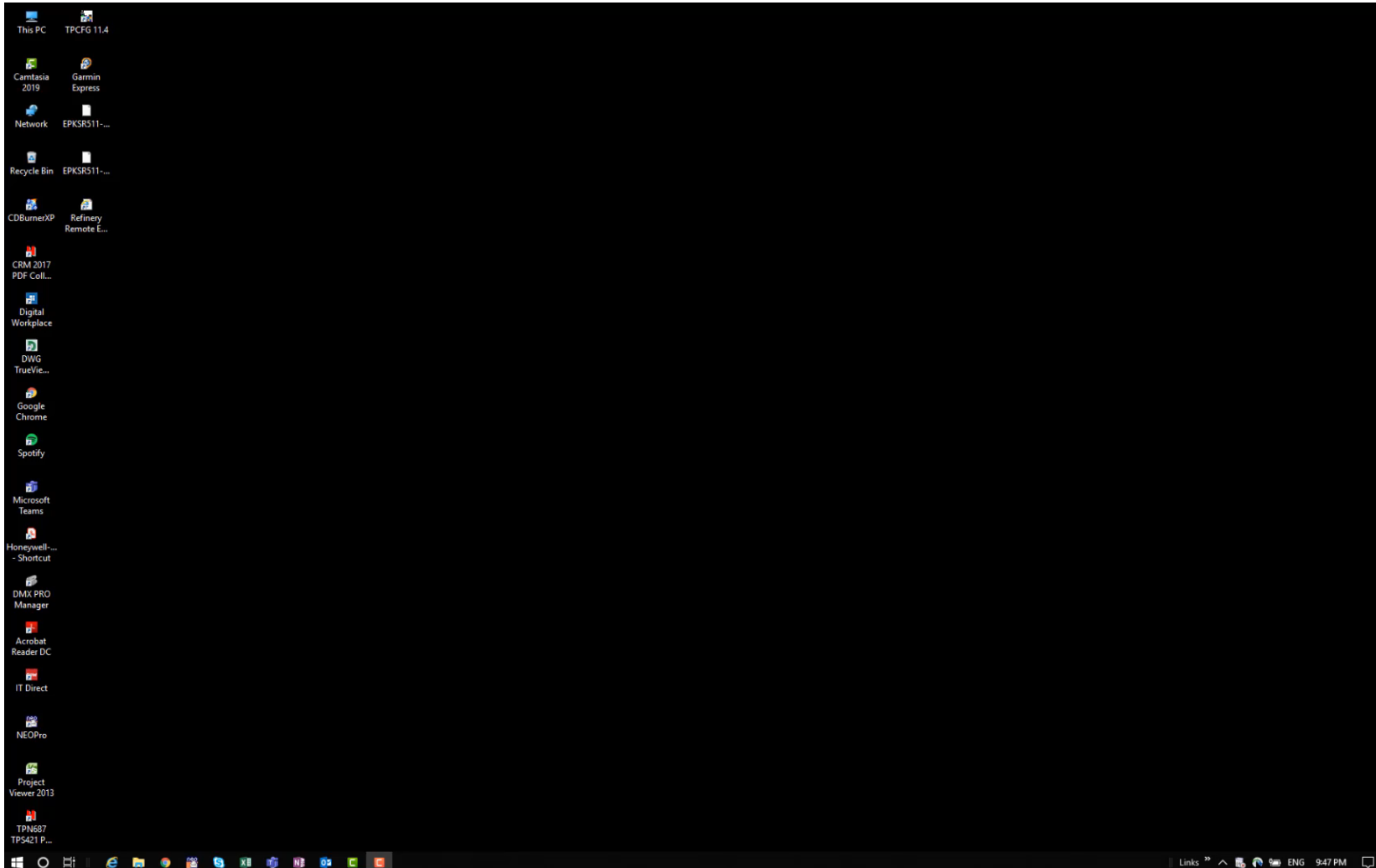
← Click to
run demo

REMOTE OPERATIONAL SUPPORT EXAMPLE



- **ENGINEER AT HOME CONNECTS VIA COMPANY VPN**
- **SECURE ACCESS WITH CERTIFICATES AND HTTPS ENCRYPTED PROTOCOL**
- **READ-ONLY BY DEFAULT, FULL FUNCTION ACCESS TO CONTROL ROOM DISPLAYS**

REMOTE OPERATIONAL SUPPORT DEMO



← Click to run demo

SUMMARY

- **FULL EXPERION STATION AND ORION CONSOLE FUNCTIONALITY AVAILABLE REMOTELY**
- **SUPPORT OPERATIONS FROM HOME WITH READ ONLY STATION ACCESS**
- **RAPID DEPLOYMENT WITH NO RE-ENGINEERING REQUIRED**
- **HIGHLY SECURE: HTTPS ENCRYPTED ACCESS TO SPECIFIC CLIENTS AND USER WITH SUPPORT FOR ADDITIONAL SAFEGUARDS SUCH AS MULTI FACTOR AUTHENTICATION**
- **STANDARD EXPERION SOLUTION WITH 24/7 HONEYWELL SUPPORT**

Honeywell

THANK

YOU