

The Future of Emergency Communications



The advantages of cellular technology are spelled out in this Readers Platform.

by Thomas Worthington

With true analog phone lines all but a thing of the past, the elevator industry must transition to new technology, and many technologies are fighting to be the ultimate winner. It seems evident, however, that in the near future, cellular will emerge as the clear winner. Cellular has arrived as a viable solution to meet the ASME A17.1, 2.27 requirements for two-way communications. With cellular comes many advantages for the industry. Never before has the consumer, or the elevator contractor, been in such control of the communication path from the elevator to the call center. This is a good thing. Cellular offers flexibility, scalability and low costs, and allows elevator companies to provide the communications path themselves.

Flexibility

No real infrastructure is needed. From a single simplex elevator to a group of six elevators, cellular can be installed without major outside or inside infrastructure; in fact, the only real requirement is that the elevator be within range of a good cellular signal. A simple communicator can be installed right inside the elevator equipment room, utility room or shaft. With cellular, activation and deactivation of accounts is easy and immediate. Cellular communicators can be added to or removed from a job in a matter of hours. Converting an existing elevator from a traditional phone line to cellular phone line/communicator does not, in most cases, require changing the Americans with Disabilities Act phone.



The EC1000 enables emergency phone service through a cellular connection without the cost of extra infrastructure.



The ESRM Elevator Connect 1000 (EC1000) unit is a commercial-grade cellular communication system for elevators. The EC1000 provides code-compliant two-way emergency communication between elevator and call center.

Scalability

Elevator companies can basically build their own networks of communicators. No startup costs are involved, except for the purchase of the cellular communicators. With 95% of the U.S. having access to cellular service, the potential is vast. Integration into your own or a third-party call center is easy and comes without the need for extra proprietary equipment.

Low Costs

A typical commercial phone line can cost US\$45-US\$100 per month, while monthly cellular costs generally range from US\$19 to US\$40. Other benefits: every year, cellular gets less expensive, and bulk rates for elevator companies are available, which can reduce costs even further.

Control the Communications Path

Elevator companies can now offer cost-effective cellular phone lines and built-up recurring monthly revenue streams. With cellular communicators, the elevator company can install, maintain

and repair the entire elevator phone system without having to rely on third-party phone companies. Within a market, the elevator company that can provide cellular elevator phone lines will have an economic advantage over those that do not, which, in turn, can help it gain customers in a competitive environment.

Since 2012, ESRM Communications has been using cellular technology for elevator phones, elevator cameras and remote monitoring of elevators. With advancements in 4G, 4G LTE, and 5G, cellular will get even better and less expensive. Redundancies have made cellular even more reliable than traditional phone lines, and, soon, 24/7 supervision will be built into every cellular communicator we offer. The future is here; the future is cellular.

Thomas Worthington is president of ESRM Communications, LLC, located in Florida. He is a State of Florida Certified Elevator Technician and licensed electrical contractor. Worthington graduated from Florida State University with a bachelor's degree in criminal justice and specializes in elevator emergency communications and elevator security, consulting and installations.

Langer & Laumann
smart door solutions

Door drive moderizations made easy!

Our conversions kits are available for following manufacturers:

Kone	Otis	Sematic	Schindler	Peignen	Prisma
A DB	6770	ADC 10	QKS 6	A 30	Concord
A DB 3	6940	ADC 11	QKS 7	A 40	Linear DOS
ADC	6970	2000	QKS 8	A 45	Micro MS40
ADC 2	7300	2010	QKS 9	CA 72	Sinus Drive
ADC 3	9550 Orly	3DC	QKS 10	CA 73	
ADC X	9550CC	F 28	QKS 11		
ADF	9691	F 29	Varidoor		
ADM	9940 H	Encoder			
ADR	DO 2000	Dynamo			
ADV	GMP 1100				
ADX	LY teleskop				
AMD	OVL				
Fiam	RBSMRDS				
OAK	OR				
OAK 55					



More conversation kits can be found in our image directory at www.lul-ing.de.

Langer & Laumann

Wallgraben 30 · D-48356 Nordwalde · Tel.: +49 (2573) 955 99 0 · www.lul-ing.de