White Paper

Cellular Industry Developments Drive the Need for New Digital Cellular Alarm Communicators

Digital cellular alarm communications has become increasingly important in recent years as more and more end users opt out of conventional landlines on which alarm communications traditionally relied. The vast majority of cellular alarm communicators already installed use GSM/GPRS technology – a digital technology designed to carry wireless data. GSM/GPRS is known as a "second-generation" or "2G" cellular technology because it replaced earlier technology that relied on analog communications. GSM/GPRS technology has been well suited to the needs of the alarm industry because it has been deployed nearly ubiquitously throughout North America.

Wireless carrier technology did not stop with 2G. Since the deployment of 2G, third-generation and fourth-generation wireless technology has been developed and deployed in many markets to support greater network capacity and higher-speed data communications to meet consumers' demand for wireless data. Currently those networks operate alongside networks supporting 2G technology -- and because alarm communications require relatively low bandwidth, there has been no compelling reason to change to later-generation cellular communications technology.

In the years to come, most of the later-generation cellular technology will eventually replace today's networks, as cellular operators free up the spectrum supporting 2G by "re-farming" that spectrum to support newer generation technology. Ultimately, alarm dealers that have deployed cellular communications supporting today's GSM/GPRS technology will need to replace those communicators with newer-generation technology.

Already at least one cellular network operator, AT&T, has said it will no longer approve new GSM/GPRS devices for use on its network, and the next step may be to prevent any new installations of GSM/GPRS devices that were previously approved from being activated on its network. AT&T has also announced that they would be turning off the 2G network by January 2017.

DMP is continuing development of cellular technology to meet these anticipated changes in cellular networks by developing new digital cellular alarm communicators that work with newer-generation cellular technology. **Alarm dealers should seriously consider using the newer-generation products for any new alarm system installations and whenever an earlier-generation communicator must be replaced.**

The new DMP digital cellular communicators

As with earlier-generation products, new digital cellular alarm communicators from DMP are designed to work with digital cellular service from SecureCom Wireless LLC– enabling dealers to get systems up and running quickly and offering alarm dealers a consolidated bill that is detailed by account number.

Underlying the SecureCom Wireless service are cellular networks operated by some of the nation's largest cellular carriers. SecureCom Wireless has negotiated agreements with those carriers in order to be able to offer rate plans that are tailored for the unique needs of the alarm industry.

The newer generation alarm communicator models that DMP offers use two different newer-generation cellular technologies. This is important because not every carrier has deployed its later-generation technology in every market. By offering a choice of models supported by a total of three nationwide carriers, DMP helps ensure that in any specific location, at least one of those carriers offers newer-generation service.

The new DMP digital alarm communicator models include:

- **263C**: The 263C 3G CDMA Cellular Communicator provides wireless communication for the XT and XR150|350|550 Series Panels. The 263C contains third-generation CDMA communications module that allows alarms messages to be communicated to an SCS-1R or SCS-VR receiver over Verizon networks. CDMA does not use a SIM card.
- **463C**: The 463C provides wireless communication for the XR100/500 Series panels. The 463C contains an on-board third-generation CDMA communications module that allows alarm messages to be communicated to an SCS-1R or SCS-VR receiver over Verizon networks number. CDMA does not use a SIM card.
- **263H**: The 263H 3G/4G HSPA+ Cellular Communicator provides wireless communication for the XT and XR150|350|550 Series Panels. The 263H contains third-generation/fourth-generation HSPA+ communications module that allows alarms messages to be communicated to an SCS-1R or SCS-VR receiver over AT&T or T-Mobile networks. The 263H works with 2G, 3G, or 4G networks dependent on availability at the installation location. SIM card required. SIM cards from existing 263G installations may be used.
- **464**: The 464 board allows the 263H communicator to be used with existing XR100 or XR500 installations to upgrade them to current cellular networks.

	XT	XR150|350|550	XR100/500
263C	•	•	
263H	•	•	
463C			•
464			•

DMP is a privately held independent manufacturer of innovative intrusion, fire, access control, network and cellular communication products that are designed and made in the United States of America. DMP is the recognized leader in alarm communication over data networks, with products that are available through professional electronic security companies. For more information visit www.dmp.com.

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