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TX Series High Availability Open Signaling Architecture

Client

NMS Communications (NASDAQ: NMSS) is a leading provider of technologies and solutions for mobile applications and infrastructure. NMS products enable new mobile voice, data, and video applications and improve the performance and quality of wireless networks, helping our customers grow their revenues and profits.

Solution

The High Availability Open Signaling Architecture is a set of hardware and software components that support the development of distributed, highly available call processing systems employing SS7 signaling. These systems can detect and recover from some types of failures (such as board failures and signaling links failures) without a total service outage. The core of the architecture is a SS7 software application that allows two TX series boards to be paired in a primary/backup arrangement for high availability. The TX boards may be spread across two signaling nodes or may be located in the same signaling node.

Auriga's Contribution

- The project targets the implementation of redundant primary/backup signaling subsystem under complete control of the local call processing applications.
- Development includes the ISUP, TUP, MTP application interfaces, which are integrated into the signaling APIs with Natural Access™.
- Other important components of the architecture are a board-to-board communication facility that allows to exchange of signaling messages and state information between the paired boards and a health management facility which monitors the state of the signaling boards and initiates recovery actions which directed by the local applications.