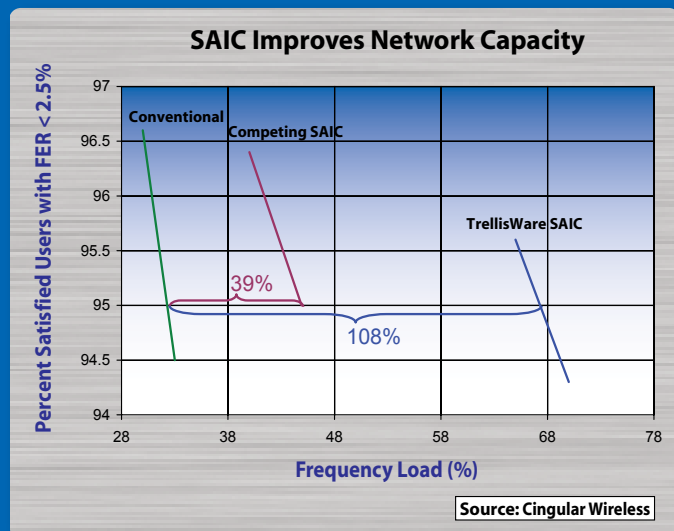


SAIC for GSM-GPRS phones by TrellisWare



TrellisWare
TECHNOLOGIES

TrellisWare has developed a cost-effective Single Antenna Interference Cancellation solution for GSM/GPRS mobile phones. TrellisWare's solution benefits the operator by increasing network capacity and reducing network interference. The end-user benefits include better voice-quality, fewer dropped calls, and higher data rates.



Co-channel interference in GSM

Given the repeated delays in 3G network deployments and handset introductions, the existing 2/2.5G GSM systems continue to be by far the largest revenue generators for operators. This is expected to continue for the foreseeable future. The challenge that faces GSM operators is to increase network capacity at the minimum cost.

Coping with co-channel interference is key in the operators' battle to increase network capacity. In an effort to boost capacity, operators are using the same frequencies in neighboring cells. Going forward, they plan to use the same frequencies even in the sectors within the same cell. This tight frequency reuse exacerbates the co-channel interference problems, and makes co-channel interference the limiting factor in increasing network capacity.

108% increase in capacity for Cingular's network

Key Features

- Cost-effective
 - Uses single antenna and conventional RF
- No change to infrastructure
- Offered in three configurations to fit partner's architecture
 - SW only, HW only and hybrid HW/SW
- Highest increase in network capacity in Cingular's network simulations
 - 108% for TrellisWare, 39% for Blind Interference Cancellation (BIC) solutions
- Robust to delays and frequency offsets between desired and interfering signals
- Enhanced voice quality, reduced dropped calls and higher data rates

Availability

TrellisWare's GSM-GPRS SAIC solution has been lab tested in real time and is ready to be incorporated into partner's digital baseband architecture. TrellisWare also has an SAIC solution for EDGE. For further information please email: info@trellisware.com

About TrellisWare Technologies

TrellisWare Technologies, Inc. is a privately-held communications IP and products company headquartered in San Diego. Self funded since its incorporation in April 2000, TrellisWare has built a reputation as a leader in advanced communication algorithms, waveforms and turnkey communication systems that work when nothing else does. TrellisWare has developed a wide range of highly-advanced Forward Error Correction (FEC) algorithms and software defined radio (SDR) waveforms used in many military and commercial communication products. With deep expertise in radio physical layer design, networking, efficient high speed decoding, algorithm development and RF integration, TrellisWare is also developing a unique family of communication products capable of operating in the harshest RF environments.

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