

From GSM to WCDMA - New Matrix 3G Offers Seamless Migration For Operators Deploying High Accuracy Location Based Services

- new trials highlight sub-50m performance, all area coverage and fast fixes

(3GSM World Congress, Cannes, Tuesday February 15) OPERATORS seeking seamless migration from GSM to WCDMA high accuracy location based services are set to benefit from a new version of Matrix3G technology from CPS (Cambridge Positioning Systems Ltd).

Matrix 3G uses standardised Observed Time Difference of Arrival (OTDOA) to deliver sub-50m accuracy, fast locations fixes and all environment coverage. By providing OTDOA as an upgrade into its software-only Matrix product for GSM, CPS will allow operators to migrate easily to WCDMA without the need for extensive and expensive network hardware. It also means handsets and devices can implement OTDOA as specified by 3GPP today.

Previously, it was proposed within the industry that supplementary techniques such as Idle Period Downlink (IPDL), or Software or Cumulative Virtual blanking (CVB, SVB) were required to make OTDOA work effectively. However, recent Matrix3G trials have shown that it is possible to for OTDOA to operate successfully using only existing WCDMA standards.

The trials also highlighted sub-50m accuracy and the traditional benefits of Matrix performance in terms of speed and coverage.

CPS CEO Chris Wade said: "Operators can now specify OTDOA handsets and devices, and with the addition of a Matrix server, provide sub-50m accuracy to their subscribers. High accuracy has never been this cost-effective - nor more seamless for operators transitioning from GSM to 3G".

"Having a Matrix 3G solution which gives this level of accuracy as well as providing all-area coverage and sub-three second fixes will be very important to operators as they roll out compelling profitable location services across 3G networks. Following the success of Matrix for GSM, and the combination of Matrix with GPS in E-GPS, the CPS vision of 'Matrix Everywhere' is coming closer to reality."

Matrix 3G is the latest addition to CPS's product portfolio, which also includes Matrix for GSM and the recently announced E-GPS (Enhanced-GPS) technology, which combines Matrix with GPS.

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