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SOURCE¹: GlobespanVirata Inc.

TITLE: NEXT & FEXT Models for JJ-100.01 Version 3

Abstract. The present contribution questions the reliability of the NEXT/FEXT models used in JJ-100.01 Version 2 for extrapolation beyond 1.1 MHz and below 1km.

The present contribution asks NTT to assess the reliability of the JJ-100.01 Version 2 NEXT/FEXT extrapolation method beyond 1.1 MHz and below 1km.

1 Introduction

Extended Upstream and Downstream systems aim to provide very high rates at small distances based on bandwidth extension beyond 138 KHz for the upstream channel and beyond 1.1 MHz for the downstream channel.

The present contribution questions the reliability of the NEXT/FEXT models used in JJ-100.01 Version 2 for extrapolation beyond 1.1 MHz and below 1km.

2 Extrapolated NEXT and FEXT Models

NEXT and FEXT Models contained in JJ-100.01 Version 2 are based on extrapolation of the 1 km/160 KHz loop/coupling data points.

Since extended Upstream and Downstream systems operate at small distances (*smaller than 1km for the highest rates services*) on the one hand and very high frequencies on the other hand, the reliability of the extrapolation of the 1 km/160 KHz data point should be reasonably questioned.

3 Conclusions-Recommendations

The present contribution asks NTT to assess the reliability of the JJ-100.01 Version 2 NEXT/FEXT extrapolation method beyond 1.1 MHz and below 1km.

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