



## October 2021 5XX NPA Exhaust Analysis

### Introduction

NANPA projects the exhaust of the non-geographic 5XX NPA resources based upon the utilization and forecast data submitted by service providers via the NRUF process. The following assumptions were used in this exhaust analysis. The 5XX NPAs currently in service are 500, 533, 544, 566, 577, 588, 522, 521, 523, 524, 525, 526 and 527.

### October 2021 5XX NPA Exhaust Projection Assumptions

The following is a list of assumptions used in the development of the October 2021 5XX NPA exhaust projection prepared by NANPA.

1. The 5XX NPA exhaust study uses as its basis the NXX code forecasts submitted via the NRUF reporting process and historical NXX code assignment information. The five-year total forecasted demand is used to calculate the number of 5XX NPAs that will be needed over the next five years. This demand is also used to forecast when the current quantity of assigned and reserved 5XX NPAs will exhaust.<sup>1</sup>
2. A new 5XX NPA will be required when the number of assigned and unassignable NXX codes reaches 800.
3. It is assumed that each new 5XX NPA will require the same number of unassignable codes as the current 5XX NPA.

### Results Based on Assumptions

Using the August 2021 NRUF data, the aggregated forecasted demand for 5XX-NXXs for 2021 through 2025 ranges from 1200 NXXs to 2100 NXXs per year. Below is the demand rate versus the actual assignment rate from 2016 through 2020.

Year	Annual Gross 5XX NXX Code Demand	Annual Net 5XX NXX Code Demand
2016	827	777
2017	781	700
2018	1,146	1,108
2019	700	618
2020	1,356	1,186

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<sup>1</sup> The 5XX NPAs reserved for future expansion include the following: (528, 529, 532, 538, 542, 543, 545, 547, 549, 552, 553, 554, 556, 569, 578, 589, 550, 535, 546 and 558).

The average annual demand for non-geographic 5XX NPA NXX codes for the next 5 years is 1,800 NXX codes. It is expected that 12 new 5XX NPAs is needed over the next five years.

In projecting the exhaust of the assigned and reserved 5XX NPAs (13 assigned 5XX NPAs and 20 reserved 5XX NPAs), an annual demand rate of 1,800 5XX-NXXs was used, resulting in the projected exhaust in 9 years.