



# Introduction

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This chapter presents Cisco CallManager Dialed Number Analyzer concepts and discusses key features. Use the following topics to understand Dialed Number Analyzer:

- [Dialed Number Analyzer, page 1-1](#)
- [Key Features, page 1-2](#)
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## Dialed Number Analyzer

You can install Dialed Number Analyzer as a plug-in to Cisco CallManager. The tool allows you to test a Cisco CallManager dial plan configuration prior to deploying it. You can also use the tool to analyze dial plans after the dial plan is deployed.

Because a dial plan can be complex, involving multiple devices, translation patterns, route patterns, route lists, route groups, calling and called party transformations, and device level transformations, a dial plan may contain errors. You can use Dialed Number Analyzer to test a dial plan by providing dialed digits as input. The tool analyzes the dialed digits and shows details of the calls. You can use these results to diagnose the dial plan, identify problems if any, and tune the dial plan before it is deployed.

# Key Features

Cisco Dialed Number Analyzer runs as a service that can be accessed from the server on which it is installed or from a remote PC. It runs on low priority and does not affect Cisco CallManager performance.

Cisco Dialed Number Analyzer allows analysis of inbound and outbound calls in a Cisco CallManager dial plan. It analyzes the calls and provides results that show complete details of calls, including call patterns and calling and called party transformations that are applied to the dialed digits.

The following sections describe specific features of the tool.

## Analysis

Cisco Dialed Number Analyzer allows selection of specific devices that act as calling parties and called parties to test the dial plan. It allows analysis of calls from devices such as IP phones, CTI ports, and gateways.

The tool allows you to perform a simple analysis by directly entering dialed digits as input and choosing a calling search space within which the analysis must be performed. If you choose a device, the tool uses the calling search space that is associated with the device to perform the analysis.

The tool also allows analysis of calling party numbers that are not bound to any device.

Dialed Number Analyzer analyses calls to feature-specific patterns like Call Park, MeetMe, Message Waiting Indicator (MWI) and Call Pickup Patterns.

Dialed Number Analyzer applies calling and called party transformations to dialed digits at various stages just as Cisco CallManager does in a deployed system. The analysis output includes end-to-end details of the dialed digits.

# Digit Discard Instructions and Dialing Patterns

Called party transformation information such as discard digit instructions (DDIs) specified for Cisco CallManager dial plans are stored in the Cisco CallManager database. Because Dialed Number Analyzer uses the Cisco CallManager database to analyze dial plans, the tool also allows you to view discard digit instructions specified for the dial plans.

Cisco CallManager uses route patterns to route or block internal and external calls. Route patterns are assigned to Cisco Access Gateways, phones and route lists. Dialed Number Analyzer allows you to view dialing patterns associated with devices that are configured in the Cisco CallManager dial plan that you are analyzing.

## Analysis Output

Dialed Number Analyzer displays analysis results in the same browser window that you use to perform analysis. You can either view the results online or save the output displayed in the form of an XML file for easy retrieval and use.

You can find information on how to use these features later in this guide.

## Where to Find More Information

### Related Topic

- [Installing Cisco CallManager Dialed Number Analyzer, page 2-1](#)

### Additional Cisco Documentation

- *Installing Cisco CallManager 4.0*
- *Cisco CallManager System Guide*
- *Cisco CallManager Administration Guide*
- *Cisco CallManager Serviceability System Guide*
- *Cisco CallManager Serviceability Administration Guide*

