



CHAPTER 1

Introduction

This chapter presents Cisco Unified Communications Manager 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 1-1](#)
- [Accessibility Compliance, page 1-2](#)
- [Analysis, page 1-2](#)
- [Digit Discard Instructions and Dialing Patterns, page 1-3](#)
- [Analysis Output, page 1-3](#)
- [Related Topics, page 1-3](#)

Dialed Number Analyzer

Dialed Number Analyzer installs as a feature service along with Cisco Unified Communications Manager. The tool allows you to test a Cisco Unified Communications Manager dial plan configuration before 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 you deploy it.

Additional Information

See the [“Related Topics”](#) section on page 1-3.

Key Features

Cisco Unified Communications Manager Dialed Number Analyzer runs as a Cisco Unified Communications Manager feature service that can be accessed from a remote server.

Cisco Dialed Number Analyzer allows analysis of inbound and outbound calls in a Cisco Unified Communications Manager 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.

Additional Information

See the [“Related Topics”](#) section on page 1-3.

Accessibility Compliance

The design of the Dialed Number Analyzer web pages make them user friendly and compatible with most accessibility requirements. Skip Navigation links on all pages help screen reader users to navigate easily and to complete forms. All text fields accept high contrast Windows system settings for fonts and colors. Dialed Number Analyzer also provides high contrast implementation for the final output page.

In the final output page, the screen reader application users cannot access information about the hierarchical results (all icons are read as bullets), and cannot selectively access information at different levels. However, because DNA uses XML data structure in the final results output pages, this represents a limitation. To alleviate the issue of level accessibility to some extent, a standard tree-control image icon provides level information. Also, when a screen reader is used, regardless of whether the **Expand All** button or **Collapse All** button is clicked, the screen reader still reads the entire contents of the XML tree data structure in the output page.

Additional Information

See the [“Related Topics”](#) section on page 1-3.

Analysis

Cisco Unified Communications Manager 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 a device.

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

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

Additional Information

See the [“Related Topics”](#) section on page 1-3.

Digit Discard Instructions and Dialing Patterns

The Cisco Unified Communications Manager database stores called party transformation information such as discard digit instructions (DDIs) that are specified for Cisco Unified Communications Manager dial plans. Because Dialed Number Analyzer uses the Cisco Unified Communications Manager database to analyze dial plans, the tool also allows you to view discard digit instructions that are specified for the dial plans.

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

Additional Information

See the [“Related Topics”](#) section on page 1-3.

Analysis Output

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

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

Additional Information

See the [“Related Topics”](#) section on page 1-3.

Related Topics

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

Additional Cisco Documentation

- *Installing Cisco Unified Communications Manager*
- *Cisco Unified Communications Manager System Guide*
- *Cisco Unified Communications Manager Administration Guide*
- *Cisco Unified Communications Manager Serviceability System Guide*
- *Cisco Unified Communications Manager Serviceability Administration Guide*

