



Introduction

This chapter presents Cisco Unified 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](#)
- [Analysis, page 1-2](#)
- [Digit Discard Instructions and Dialing Patterns, page 1-3](#)
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Dialed Number Analyzer

You can install Cisco Unified CallManager Dialed Number Analyzer as a plug-in to Cisco Unified CallManager. The tool allows you to test a Cisco Unified 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 adjust the dial plan before it is deployed.

Additional Information

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

Key Features

Cisco Unified CallManager 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 Unified CallManager performance.

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

Additional Information

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

Analysis

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

Cisco Unified CallManager 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 CallManager 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 displays 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.

Additional Information

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

Related Topics

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

- [Key Features, page 1-2](#)
- [Analysis, page 1-2](#)
- [Digit Discard Instructions and Dialing Patterns, page 1-3](#)
- [Analysis Output, page 1-3](#)

Additional Cisco Documentation

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