



NetApp® Data Center Planner (NDCP) Installation and Administration Guide

Version 1.0 beta

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Preface

This document is an Installation and Admin Guide for the NetApp Data Center Planner (NDCP) tool.

AUDIENCE

The primary audience for this document is Professional Service engineers, and partners.

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1 Overview of NDCP

NDCP is an application suite comprising of utilities that assist in data migration. The suite consists of the following tools:

Viewer: This tool can be used to view details of nSANity files.

Parser: This tool can be used to parse nSANity and SPcollect files. The parsed content is displayed in a tabular format. The parsed content can be exported to various formats like .csv, .xls, .yaml, and .json.

Note: The alignment tests and `lun create` commands in NDCP are only applicable for migrations. It must be clear that NDCP does not analyze partition alignment for existing LUNs residing on a NetApp system.

The current version of NDCP is 1.0.0, and runs on Windows® (XP, Windows 7) platform.

1.1 NDCP features

NDCP provides the following features:

- View and parse details of nSANity files/directories.
- Upload nSANity file to SanView server.
- Search for specific settings in the Viewer.
- Export parsed details.
- Supports nSANity files generated from the following platforms:
 - Windows® 2003, 2008
 - Red Hat Enterprise Linux® (versions 4 and 5)
 - Solaris® 9 (SPARC), 10 (x86 and SPARC)
 - VMware® (3.x, 4.x, 3i.x, 4i.x)
 - HP-UX® (11.11, 11.22, 11.33)
- Parse SP Collect files/directories.

1.2 Installing NDCP

The steps to install and run NDCP are as follows:

1. Unzip the downloaded zip file.
2. Run the executable (ndcp.exe) to launch the NDCP (version 1.0.0) tool as shown below:

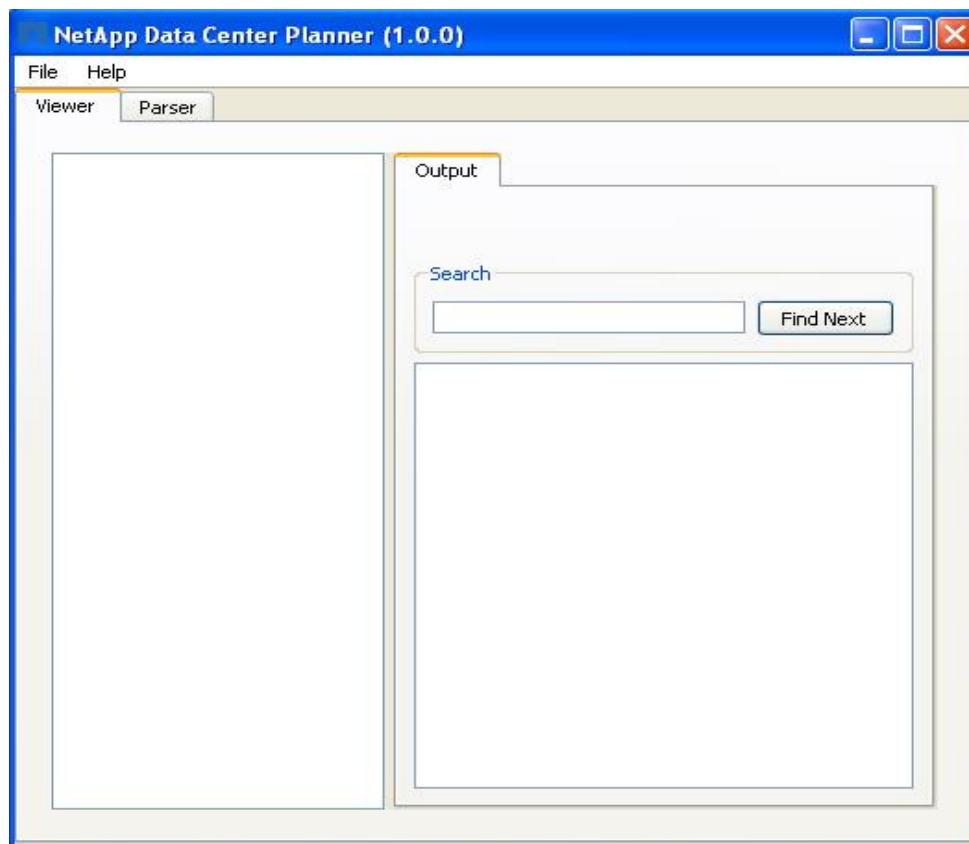


Figure 1 - NDCP GUI

3. The GUI has the following tabs:

- Viewer
- Parser

Note: NDCP can open only xml, xml.gz file types (in case of nSANity files), and .txt, .zip files (in case of SPcollect files).

1.3 Using NDCP

NDCP is used to analyze the customer environment prior to performing any data migration activities. The first of two tabs is the Viewer.

1.4 Viewer

NDCP Viewer is used to view details of nSANity files. The following procedure explains how to use NDCP Viewer.

1. Select **File > Open** to load an nSANity file.
2. Select a node in the left pane to view its details. The collected output corresponding to the selected node is shown in the right hand pane as shown below:

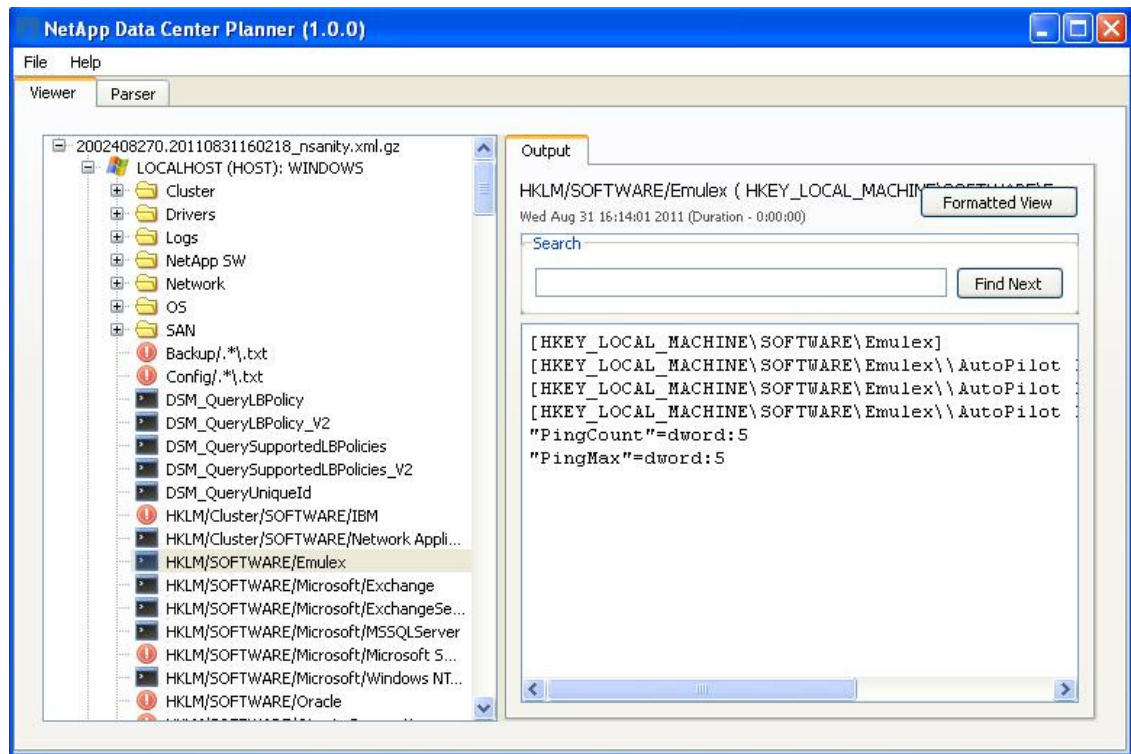


Figure 2 - Tree view showing Collected Output

You can also open multiple files by selecting **File > Open > Directory**, as shown below:

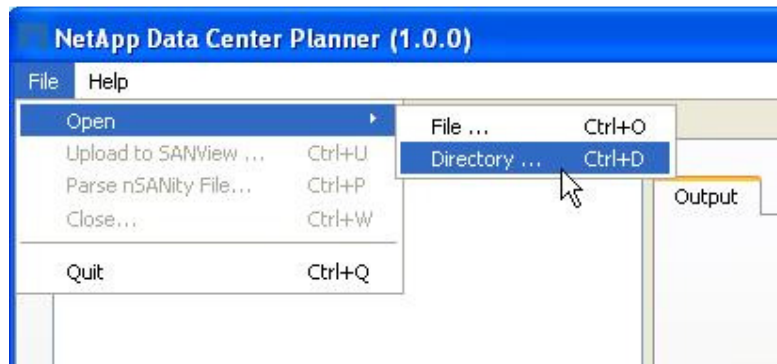


Figure 3 - Open Directory from Viewer.

3. If the command (corresponding to the selected node) does not have any output, the node is highlighted in red and the collected error is displayed in the right hand pane as shown below:

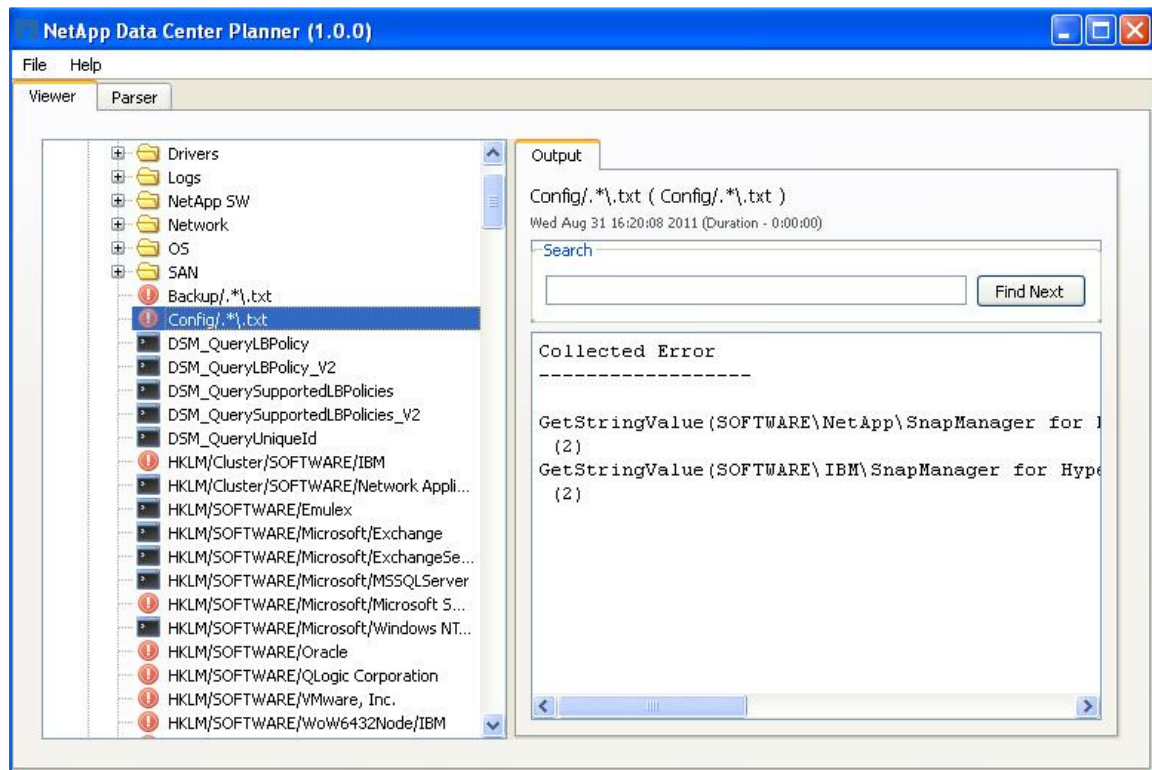


Figure 4 - Tree View showing Collected Error

- You can also search for a specific string or value from the collected output, by using the search option, as shown in the screenshot below:

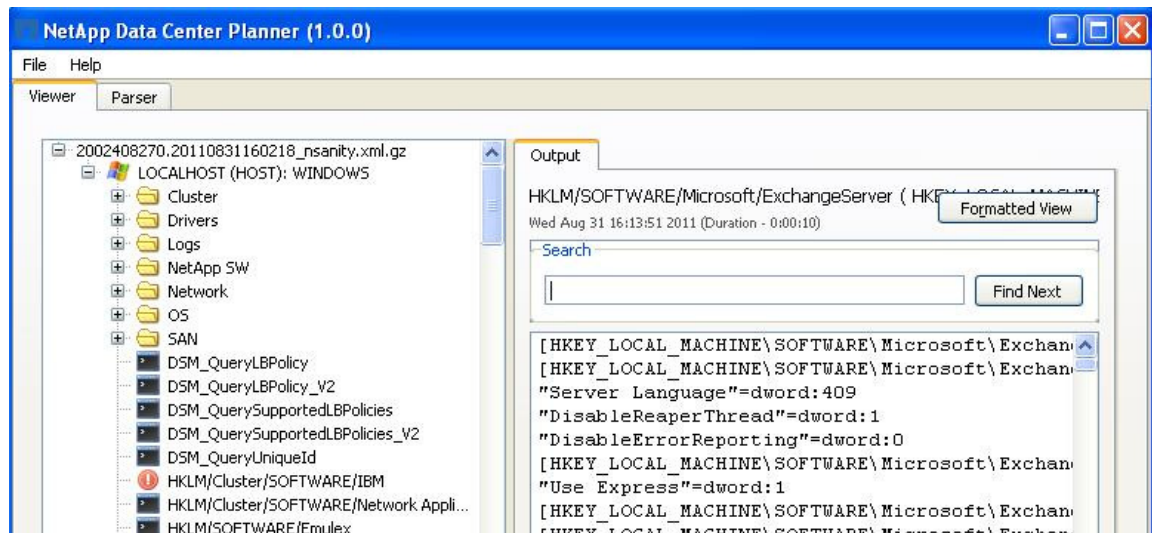


Figure 5 - Using search option within Viewer.

The search is case sensitive. In case of a match, the word will be highlighted.

- Select **File > Upload to SANView** to upload the file to the SANView server (<http://sanview.hq.netapp.com>). The user will be prompted to enter a User ID and Case Number, as shown in the screen below:

Note: SANView is accessible to internal users only.

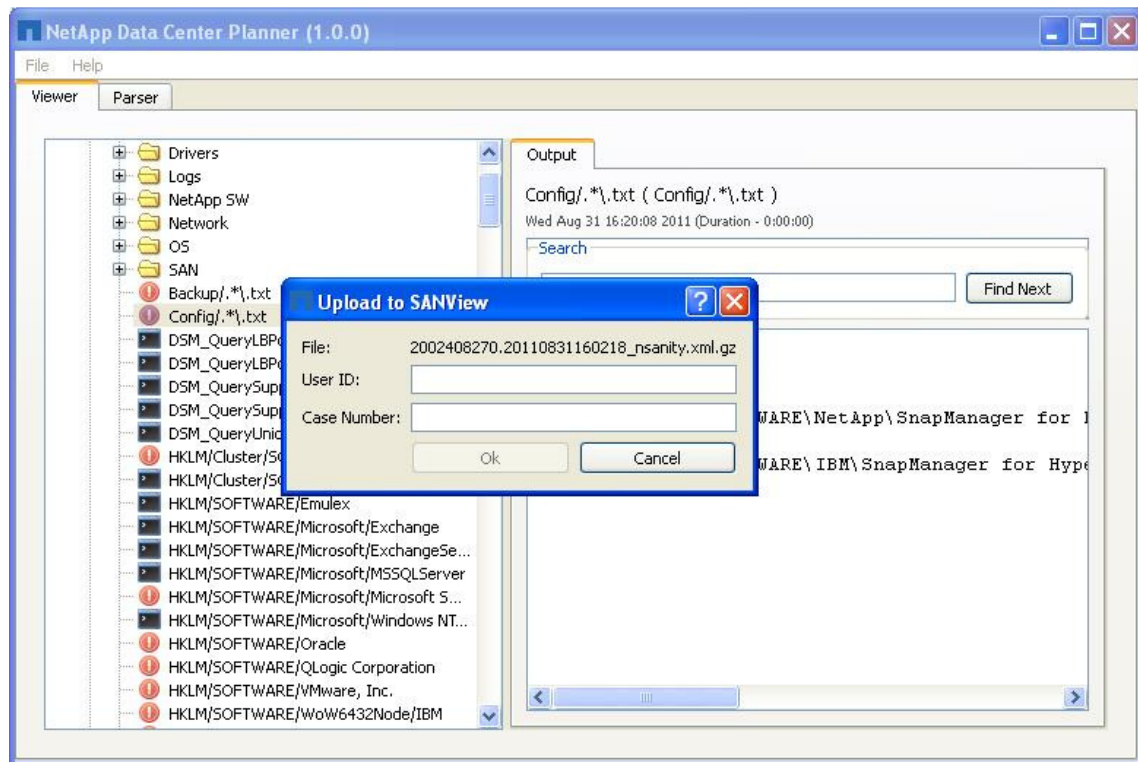


Figure 6 - Upload to SANView

- Viewer also allows the user to parse the selected nSanity file from the viewer tab. This allows the user to save the time required to open the file from the parser tab. See screenshot below:

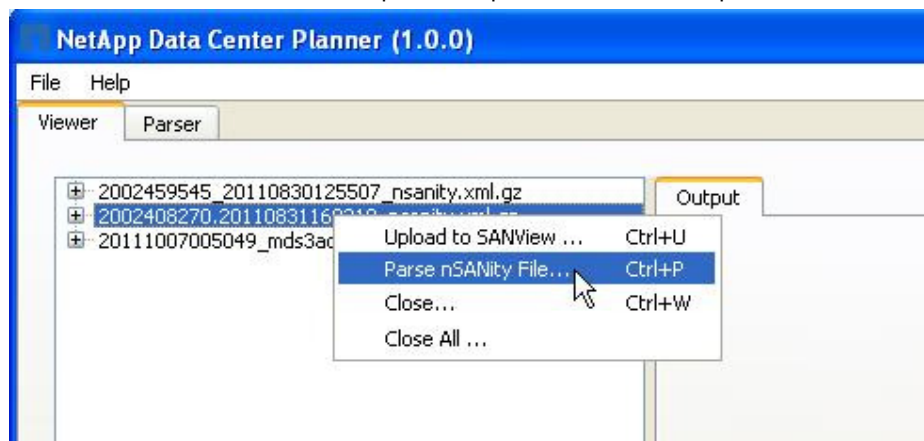


Figure 7 - Parse nSANity file from Viewer

1.5 Parser

NDCP Parser is used to parse nSANity and SPcollect files. The parsed output is displayed in a tabular format. This data can be used to determine a customer's environment and setup. Parser output consists of the following main tabs.

- **Components:** Provides information about the host type (OS), and nSANity version (is also called as Collector Version, and so on).
- **Hosts:** Indicates the validity of the collected sample file. If valid, information of interest would be hardware description, and major and minor versions of the OS.
- **HotFixesIPatches:** Provides information about the latest upgrades or patches installed on the machine corresponding to the OS present on the host.

- **Lun List:** View the LUN information like device name, LUN ID, Page83 serial numbers, capacity and target ports for each resident LUN.
- **HBA List:** Displays the HBA details like model, manufacturer, World Wide Port Numbers (WWPN), World Wide Node Names (WWNNs), driver, firmware, BIOS versions, and so on.
- **FS Info:** Indicates the file systems installed and the corresponding devices.
- **Partition List:** Lists all the partitions available for every LUN, and their corresponding device names, capacity and free space available.

Perform the following steps to use the Parser.

1. Select **File > Open** to open a file for parsing (You can also open a directory by selecting **File > Open > Directory**). Select a tab to view the details as shown in the screenshot below.

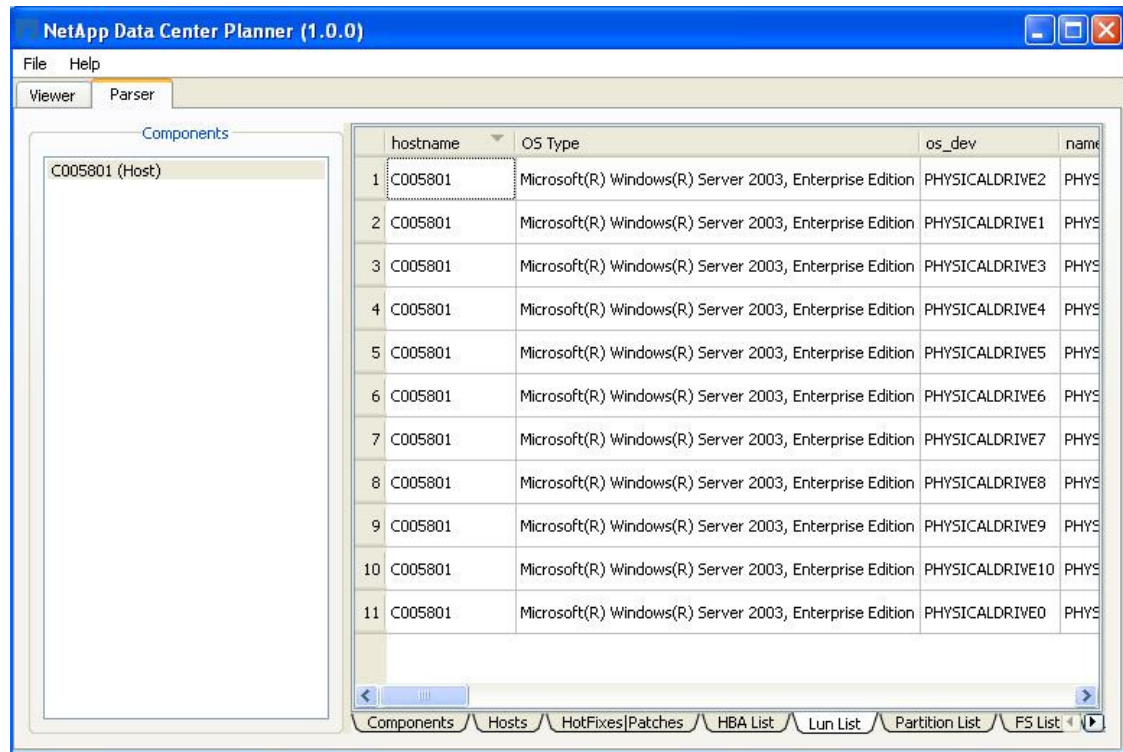


Figure 8 - Display Component details

The various tabs are listed in the bottom of the output window. Use the left/right arrows to view more tabs. The user can also parse SPcollect files as shown below:

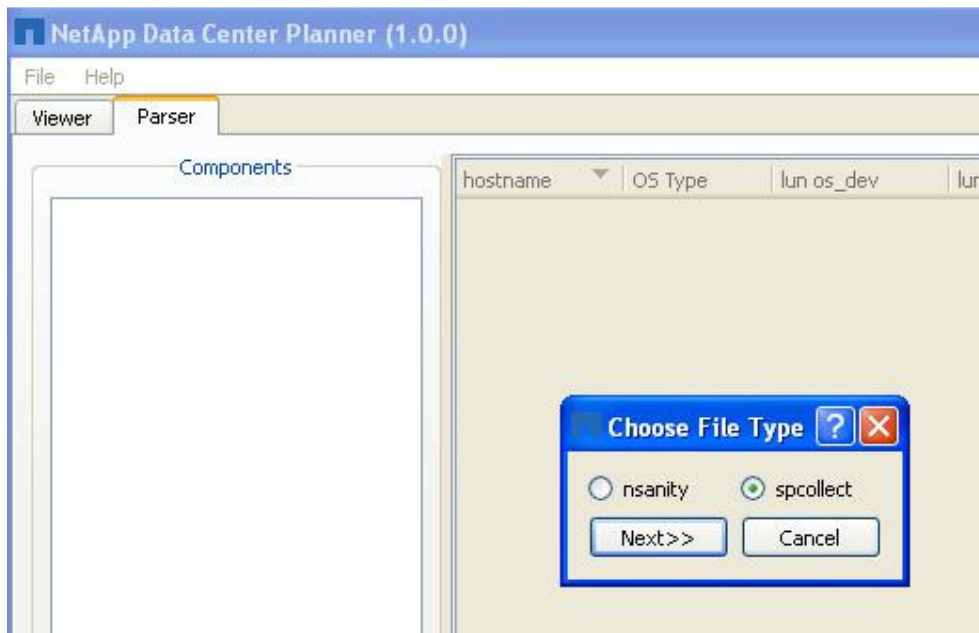


Figure 9 - Parse SP collect files

2. Select **File > Export** to export the parsed component details to different file formats, such as xls, csv, yaml, and json as shown in the screenshot below. You can choose to export details of all the loaded components or selected components.

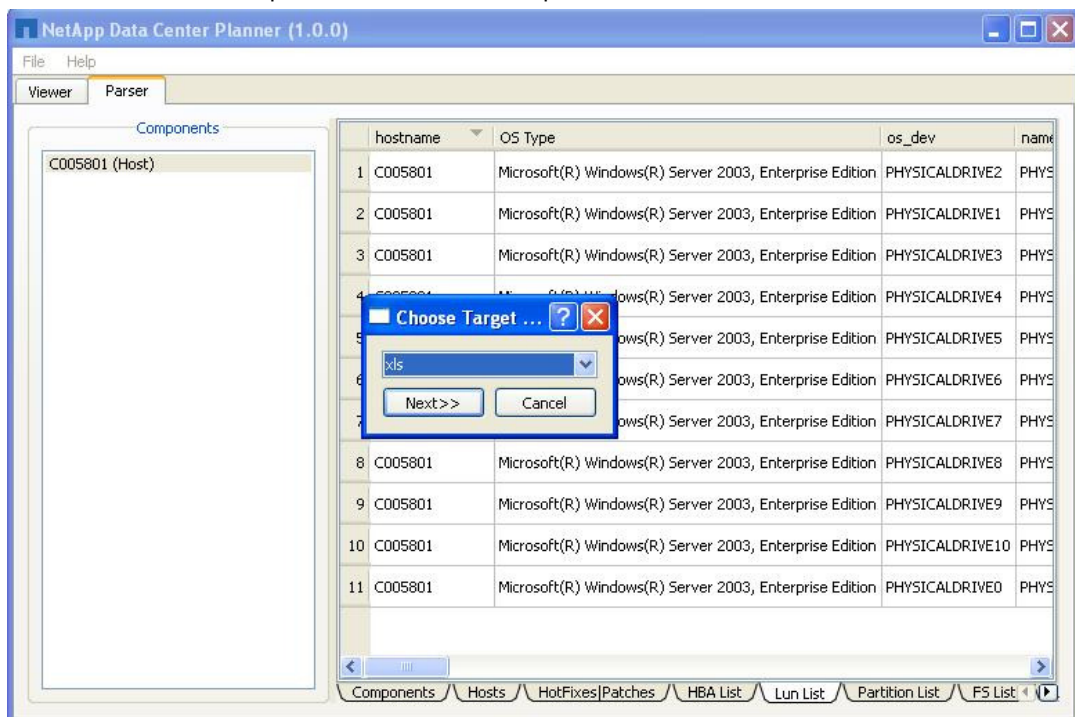


Figure 10 - Export component details

You can also export a particular table (corresponding to the selected tab), to any of the supported formats by right clicking on the table, and choosing the **Export table** option.

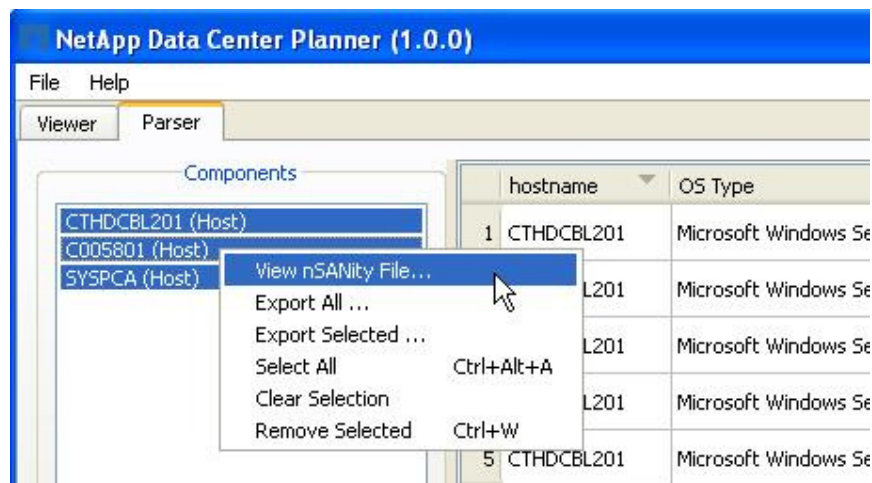


Figure 13 - View nSANity file from Parser

1.6 Support

- For any NDCP related queries and support issues, mail to dl-migration-tools@netapp.com.

