DIAdem NAVIGATOR Configuration

Use this dialog box to make the settings for the DIAdem NAVIGATOR panel.

Settings

NAVIGATOR library path	Specifies the path and the name of the library folder for data sets.
NAVIGATOR user path	Specifies the path and the name of the user folder for data sets.
Data storage	Specifies which data storage DIAdem loads when it starts.
Start file	Specifies which file DIAdem loads when it starts.

Further Settings

Search	Opens the dialog box where you open any data storage.
Search	Opens the dialog box where you select the start file.
Path selection	Opens the dialog box where you define the library and user folders for data sets.

Related Topics

Procedures

Examples

Browser Options

Use this dialog box to limit the amount of external data to be displayed. This speeds up the data display.

Settings

Limit object number	Specifies that DIAdem only reads a limited amount of data.
Max. read count	Specifies the amount of data to read in.

Related Topics

Procedures

Examples

Setting Parameters for DIAdem DAT File Export

Use this dialog box to specify the parameters for saving DIAdem DAT files.

Settings

Storage mode	Specifies whether DIAdem saves the data in channels or rows.
Data type	Specifies the data type DIAdem saves the data in.
Real format	Specifies the format for floating comma values for ASCII block storage.
Integer length	Specifies the length for integer values in ASCII block storage.
Separator	Specifies the separator for ASCII block storage.
Check implicit data	Specifies whether DIAdem checks all implicit data channels.
Check integer data	Specifies whether DIAdem checks all data channels with integer values.

Related Topics

Procedures

Examples

dBase Data

Use this dialog box to specify the settings for importing dBase data.

Note To import dBase data, you must register the GPI-DLL GFSDBASE.DLL first. For more information about GPI-DLLs, refer to Registering GPI Extensions.

Settings

General comment	Specifies the general comment for the data set.
Name	Specifies the name of the data set.
Author	Specifies the author of the data set.

Note DIAdem only imports the numeric data in the file.

Related Topics

Procedures

Examples

Additional Information on the DIF File

Use this dialog box to specify the settings for importing DIF data.

Note To import DIF data, you must register the GPI-DLL GFSDIF.DLL first. For more information about GPI-DLLs, refer to Registering GPI Extensions.

Note You can transfer the comments of a DIF file directly into the data set properties and the channel properties. If a DIF file contains the optional set types LABEL, COMMENT and DISPLAYUNITS, DIAdem moves these set types into the channel name, the channel comment and the channel unit.

Settings

Total number of channels	Shows the number of channels in the DIF file.
Maximum number of values per channel	Shows the maximum number of values in a channel.
General comment	Specifies the line containing the general comments about the data set.
Name	Specifies the line containing the name of the data set.
Author	Specifies the line containing the author of the data set.
Channel name	Specifies the line containing the channel name.
Channel comment	Specifies the line containing the channel comment.
Units	Specifies the line containing the units.
Column with date and/or time	Specifies the column containing the time values.
Format for time/date	Specifies the time format used.

Note DIAdem only imports the numeric data in the file.

Further Settings

Reduced	Opens the dialog box in which you specify the data to be imported.

Related Topics

Procedures

Examples

Reduced Loading

Use this dialog box for reduced loading of DIF files.

Settings

Start value	Specifies the start value of the interval.
Width	Specifies the width of the interval.
Channel number	Specifies the number of the channel.
1. Value	Specifies the first value of the channel.
Minimum	Specifies the minimum of the channel.
Maximum	Specifies the maximum of the channel.
Arithmetic mean	Specifies the arithmetic mean of the channel.

Related Topics

Procedures

Examples

Importing TEAC Data

Use this dialog box to specify the settings for importing TEAC data.

Note To import TEAC data, you must register the GPI-DLL GFSTEAC.DLL first. For more information about GPI-DLLs, refer to Registering GPI Extensions.

Settings

Name	Specifies the name of the data channel. This also enables the data channels to be imported.
Comment	Specifies the comment on the data channel.
Unit	Specifies the data channel unit.
Reduce number of values to be transferred, for all channels	Specifies reduced loading for the data.
Reduction mode	Specifies the value that DIAdem loads from an interval.
Interval definition	Specifies the parameters for defining the interval.
Start value	Specifies the first value to be taken into account in the data channel.
Last value	Specifies the last value to be taken into account in the data channel.
Number of intervals	Specifies the number of intervals.
Interval width	Specifies the number of values an interval contains.

Further Settings

Select all	Specifies that DIAdem imports all data channels.
Delete all	Specifies that DIAdem does not import any data channels.

Related Topics

Procedures

Examples

Load

Use this dialog box to load data.

Settings

File name	Specifies the file name.
File type	Specifies the file type.

Further Settings

Load	Loads the selected data set.
Selective loading	Loads the selected channels of the selected data set.

Related Topics

Procedures

Examples

Load With...

Use this dialog box to specify the loading method and to load a data set. For example, you can load ASCII files with the ASCII import filter.

Settings

Loading method	Specifies the loading method.

Further Settings

Load	Loads the selected data set.
Selective loading	Loads the selected channels of the selected data set.

Related Topics

Procedures

Examples

Selective Loading

Use this dialog box to load single channels of a data set.

Settings

External data	Displays the data set for selective loading, with channels and comments. Select the channels to be loaded.
Value	Displays the contents of the comments.

Further Settings

Load	Loads the selected channels of the data set.

Related Topics

Procedures

Examples

Save

Use this dialog box to save data.

Settings

File name	Specifies the file name.
File type	Specifies the file type.

Further Settings

Save	Saves the entire internal data storage.
Selective storage	Saves the channels selected in the data portal.

Note DIAdem saves group information only if the information is saved in a TDM format.

Related Topics

Procedures

Examples

Paste from File

Use this dialog box to load data channels or data sets without deleting or overwriting existing data.

Settings

No.	Specifies the number of the data channel.
Name	Specifies the name of the data channel.
Length	Specifies the number of channel values.
Comment	Specifies the comment about the channel comments.
Reduce lines	Specifies that you only load specific values from the data channels.
Loads the data set properties	Specifies whether DIAdem loads the data set properties from the selected file.

Further Settings

Line reduction	Opens the dialog box where you specify the parameters for data reduction.
Properties	Opens the dialog box with the properties for the selected data set.

Related Topics

Procedures

Examples

Line Reduction

Use this dialog box to load particular values from a data channel. DIAdem covers the data channel with a window, in successive steps at a specific interval width, and loads a value from each interval.

Settings

Reduction mode	Specifies how DIAdem determines which value to load from an interval.
Reduction channel	Specifies the reduction channel. If the reduction channel contains a value that is greater than zero, DIAdem loads the data from the row of the selected data channel.
Interval definition	Specifies the parameters for defining the interval.
Start value	Specifies the first value to be taken into account in the data channel.
Last value	Specifies the last value to be taken into account in the data channel.
Number of intervals	Specifies the number of intervals.
Interval width	Specifies the number of values an interval contains.
X-channel	Specifies which data channel contains the values to be loaded when you select a reduction channel.

Related Topics

Procedures

Examples

Data Set Properties

Use this dialog box to view the properties of a data set. The data properties contain information that the user enters and information that DIAdem generates.

Settings

Name of a data set	Specifies the name of the data set.
No.	Specifies the number of the comment.
Name	Specifies the name of the comment.
Comment	Specifies the comment about the data set.
Author	Specifies the author of the data set.
Storage date	Specifies the storage date of the data set.
Storage time	Specifies the time the data set is saved.

Related Topics

Procedures

Examples

Importing via Header

Use this dialog box to load, generate, save, and delete the channel properties for importing external data.

Settings

Name	Specifies the name of the data channels.
Comment	Specifies the comment about the data channel.

Further Settings

Loading	Opens the dialog box where you load a header file.
Save	Opens the dialog box where you save the header file.
Save as	Opens the dialog box where you save the header file with a new name.
Generation	Opens the dialog box where you generate the channel properties.
Editing	Opens the dialog box where you edit the channel properties.
Data set properties	Opens the dialog box where you specify the data set properties.
Delete	Deletes the selected channel properties.

Related Topics

Procedures

Examples

Generating Channel Properties

Use this dialog box to generate the channel properties for a data storage.

Settings

Number of channels to be generated	Specifies how many data channels are to be generated.
Number of values per channel	Specifies the number of values for each data channel.
Name	Specifies the name of the data channels.
Comment	Specifies the comment about the data channels.
Data type	Specifies whether DIAdem generates data channels explicitly or implicitly.

Related Topics

Procedures

Examples

Explicit Data Channels

Use this dialog box to specify the settings for generating explicit data.

Note Explicit data is available as individual values in a data channel. For implicit data, DIAdem only saves the generation notes.

Settings

Data display mode	Specifies whether DIAdem generates the data in the time format or as numeric data.
Offset	Specifies the value that DIAdem adds to the generated data.
Factor	Specifies the value that DIAdem multiplies the generated data by.
Name of the data file	Specifies the name of the file that contains the generated data.
First data point in this line of the file	Specifies the first value in the data file.
Storage mode	Specifies whether the data is in channels or blocks.
Data type	Specifies the data type of the channel data.
Records to be skipped	Specifies the offset between two values in a channel.
Decimal separator character	Specifies the decimal separator for the data file if you select the ASCII data type.
Exponent character	Specifies the exponent character for the data file if you select the ASCII data type.
Local ASCII pointer	If you select the ASCII data type and the Block storage mode, this item specifies which value in each line belongs to a channel.
Separator	If you select the ASCII data type and the Block storage mode, this specifies the separator for the data file.

Related Topics

Procedures

Examples

Implicit Data Channels

Use this dialog box to specify the settings for generating implicit data channels.

NoteDIAdem defines implicit channels using the start value and the difference between two sequential values. DIAdem only stores the generation parameters when saving implicit channels.

Settings

Display mode	Specifies whether a data channel is in the time format or in a numeric format.
Start value	Specifies the first value of the data channel.
Step width	Specifies the difference between two sequential values.

Related Topics

Procedures

Examples

Editing Channel Properties

Use this dialog box to edit the channel properties for importing data using the header.

Settings

No.	Specifies the number of current channel properties.
Name	Specifies the name of the data channel.
Comment	Specifies the comment about the data channel.
Data type	Specifies whether a data channel is implicit or explicit.
Display mode	Specifies whether a data channel is in the time format or in a numeric format.
Storage mode	Specifies whether the data is in channels or blocks.
Name of the data file	Specifies the name of the file with the data to be imported.
Data type	Specifies the data type of the channel data.
Number of values	Specifies the length of the data channel.
Start value/offset	Specifies the start value or the offset of a data channel.
Step width/factor	Specifies the value that DIAdem either adds to the start value, or which DIAdem multiplies the data by.
First data point in this line of the file	Specifies the first value in the data file.
Offset between two values	Specifies the number of values between two values in a channel.
Local ASCII pointer	If you select the ASCII data type and the Block storage mode, this item specifies which value in each line belongs to a channel.
Separator	If you select the ASCII data type and the Block storage mode, this specifies the separator for the data file.
Decimal separator character	Specifies the decimal separator for the data file if you select the ASCII data type.
Exponent character	Specifies the exponent character for the data file if you select the ASCII data type.

Related Topics

Procedures

Examples

Data Set Properties

Use this dialog box to generate the properties of a data set.

Settings

Name	Specifies the name of the data set.
Author	Specifies the author of the data set.
No.	Specifies the number of the comment.
Name	Specifies the name of the comment.
Comment	Specifies the comment about the data set.
NoValue in the file	Specifies the NoValue value.
Format of the time channels (ASCII file)	Specifies the format for the time channels.
Byte order (binary file)	Specifies the order of the bytes in binary files.

Related Topics

Procedures

Examples

Filter Settings

Use this dialog box to display files with specific file name extensions in the external data storage.

Settings

File filters	Specifies the file name extension of the files to be displayed.

Further Settings

Extended	Opens the dialog box where you specify other filter parameters.

Related Topics

Procedures

Examples

Setting Filter Parameters

Use this dialog box to define filter parameters.

Settings

Object types	Specifies the object types you want to filter. DIAdem only displays the object types that relate to a data storage.
Object properties	Specifies the properties DIAdem filters.
Operator	Specifies the operator that DIAdem filters with.
Operand	Specifies the operand that DIAdem filters with.

Note If you use the =- operator, you can use text attribute wildcards as an operand. Use a question mark (?) as a wildcard for one character, and an asterisk (*) as the wildcard for any number of characters. DIAdem filters case-sensitively.

Note A gray rectangle with a green point in front of the object type indicates that the filter is enabled.

Further Settings

Combine parameters	Specifies that DIAdem uses the filter settings on all object types.
Filter file	Specifies the filter file.
Loading	Loads filter settings. Filter settings have the filename extension .tsf.
New file name	Specifies the name of the file where DIAdem saves the filter settings.
Reset	Resets all the filter settings.
Extend list	Extends the list of object types.
Reduce list	Reduces the list of object types.

Note If you set several filters for one object type, DIAdem filters with all the set filter settings simultaneously.

Note Enable filters by clicking **View»Extended filters active**.

Related Topics

Procedures

Examples

Data storage manager

Use this dialog box to configure data storages and to load data. Double-click **New data storage** to create a new data storage.

Note If you open the shortcut menu of the existing data storage you can set parameters for the data storage, rename the data storage, generate a new data storage, and delete a data storage.

Settings

TDM	Opens a data storage that has data in the DIAdem TDM format.
VI Logger	Opens a data storage from a VI logger database.
Citadel	Opens a data storage that was generated with NI LabVIEW data logging and Supervisory Control Module or NI Lookout.
FILES	Opens a data storage from the file system.
SQL	Opens a data storage on an SQL server.
AOP	Opens a data storage on an AOP server.
ATF	Opens a data storage that has data in the ATF format.
USF	Opens a data storage that has data in the USF format.
AOP4	Opens a data storage on an AOP4 server.

Note The second function bar in the DIAdem NAVIGATOR panel directly accesses the data storage based on the database. Each button is assigned to a data storage. When you press the button the default data storage opens. If no data storage with this name exists, DIAdem automatically generates the data storage. The data storage appears in the data storage manager under the respective data storage type.

Related Topics

Procedures

Examples

Opening Data Storage - AOP4

Use this dialog box to specify the parameters for connecting an AOP4 server.

Settings

Connection type	Specifies the type of connection.
Server	Specifies the name of the AOP4 server.
Port	Specifies the port.
URL	Specifies the address of the AOP4 server.
User	Specifies the user.
Password	Specifies the user password.
Save password	Specifies that the DIAdem saves the password encoded. If you save the password, you can open the data storage the next time without entering the password.

Further Settings

...	Opens the dialog box where you search for an address.
Extended	Opens the dialog box where you make additional settings.

Related Topics

Procedures

Examples

Opening Data Storage - AOP

Use this dialog box to specify the parameters for connecting an AOP server.

Settings

User	Specifies the user.
Password	Specifies the user password.
Server	Specifies the name of the AOP4 server.
RPC	Specifies the RPC number of the AOP server.
Server Version	Specifies the version of the AOP4 server.
Save password	Specifies that the DIAdem saves the password encoded. If you save the password, you can open the data storage the next time without entering the password.

Note You can also call an AOP server with the OdsAopOpen command.

Related Topics

Procedures

Examples

Opening Data Storage - Citadel 4 and Citadel 5

Use this dialog box to specify the parameters for connecting a Citadel database. Use Citadel data storages to directly access databases that were generated with LabVIEW Datalogging and Supervisory Control Module.

Settings

Computer	Specifies which computer the Citadel database is on. If the Citadel database is on the local computer, you must enter localhost as the computer name.
Directory	Specifies which folder the Citadel database is in.
Database	Specifies the Citadel database.
Time interval enabled	Specifies that the server only provides data from the specified time interval.
Start time	Specifies the start time of the interval.
End time	Specifies the end time of the interval.
Time intervals	Specifies that DIAdem divides the time interval into subintervals.
Interval width (sec)	Specifies the size of the subintervals for the values of the Citadel database in seconds.
Enable calculations	Specifies that the Citadel database provides calculated data instead of the data from the database.
Interval width (sec)	Specifies the size of the subintervals for calculated values in seconds.
Interpolation (Citadel 5)	Specifies the type of interpolation
Interpolation	Specifies that DIAdem runs linear interpolation on the values in the calculation interval.
Minimum	Specifies that DIAdem calculates the minimum in the calculation interval.
Maximum	Specifies that DIAdem calculates the maximum value in the calculation interval.
Mean	Specifies that DIAdem calculates the mean value in the calculation interval.
Standard deviation	Specifies that DIAdem calculates the standard deviation in the calculation interval.

Further Settings

... (Computer)	Opens the dialog box where you search for a computer.
... (Directory)	Opens the dialog box where you search for a folder.
... (Database)	Opens the dialog box where you search for a database.

Note The second function bar in the DIAdem NAVIGATOR panel offers direct access to data storages that were generated with NI LabVIEW Datalogging and Supervisory Control Module and NI Lookout. If you want to access data storages of earlier product versions, proceed as follows:

1. Delete the default data storage that is to be replaced, in the data storage manager, for example, 'Default LabVIEW DSC Module'.
2. Generate a new data storage with the same name (for example 'Default LabVIEW DSC Module') for the matching data storage type. In the following table you can find information about which data storage type supports which product version:

Data storage type	Product version
Citadel 4	LabVIEW Datalogging and Supervisory Control Module 6.x and Lookout 4.x and 5.x
Citadel 5	LabVIEW Datalogging and Supervisory Control Module 7.x

Note To access data storage from NI VI Logger, NI Lookout, or the NI LabVIEW Datalogging and Supervisory Control modules, you require the appropriate software components. These software components are installed with the above-mentioned NI products. However, you also can install the software components independently of the above-mentioned products, if necessary. Refer to the the knowledge base at ni.com/support.

Related Topics

Procedures

Examples

Opening Data Storage - SQL

Use this dialog box to specify the parameters for connecting an SQL database.

Settings

Database	Specifies the type of database.
Server	Specifies which server the database is on.
File	Specifies the name and the path of the database.
User	Specifies the user name.
Password	Specifies the user password.
Save password	Specifies that the DIAdem saves the password encoded. If you save the password, you can open the data storage the next time without entering the password.
ADO connection	Allows you to enter an "Open call" command in the Microsoft ADO.

Note You must install ADO to work with ADO connection strings. Microsoft installs ADO with the Internet Explorer in Version 4 and later, and with Microsoft Office. If your system cannot open a storage, update your ADO installation. The "Universal Data Access Package" is on the Microsoft homepage. If you want to access Oracle data storages, you must install an Oracle client.

Related Topics

Procedures

Examples

Opening Data Storage - VI Logger

Use this dialog box to specify the parameters for linking DIAdem to a VI logger database.

Settings

Data from MAX	Specifies that you get the data the way you view it in the MAX. DIAdem also registers later name changes.
Folder	Specifies that you get the data as it exists in the database. DIAdem does not register later name changes.
Time interval enabled	Specifies that DIAdem only provides data from the specified time interval.
Start time	Specifies the start time of the interval.
End time	Specifies the end time of the interval.
Time intervals	Specifies the subintervals DIAdem divides the time interval into.
Interval width (sec)	Size of the subintervals in seconds.
Use relative time	Specifies that DIAdem specifies the period of time.

Note To access data storage from NI VI Logger, NI Lookout, or the NI LabVIEW Datalogging and Supervisory Control modules, you require the appropriate software components. These software components are installed with the above-mentioned NI products. However, you also can install the software components independently of the above-mentioned products, if necessary. Refer to the the knowledge base at ni.com/support.

Related Topics

Procedures

Examples

Opening Data Storage - File System

Use this dialog box to select and to display folders or files from the file system.

Settings

Alias name	Specifies an alias for selected folders or files. Double-click a folder to generate an alias. You can also specify an alias by selecting a line and pressing <F2>.
Path	Shows the path to the selected folder or to the selected file.

Further Settings

Extended	Opens the dialog box where you specify other properties.
Adds selected component elements to the list	Copies a folder or a file into the list of data storages to be opened.
Adds paths to the list using the keyboard	Opens the dialog box where you define the path to a folder or to a file.
Deletes selected elements from list	Deletes the selected line from the list of data storages to be opened.

Related Topics

Procedures

Examples