



Transforme Dados em Resultados

Técnicas para um Gerenciamento de Dados Adequado

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Engenheiro de Vendas

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Engenheiro de Aplicações

Agenda

- Por que você está aqui?
- Solução NI de Gerenciamento de Dados Técnicos
- Demonstrações

Por que você está aqui?

Dado é
Poder.

O Desafio dos Dados

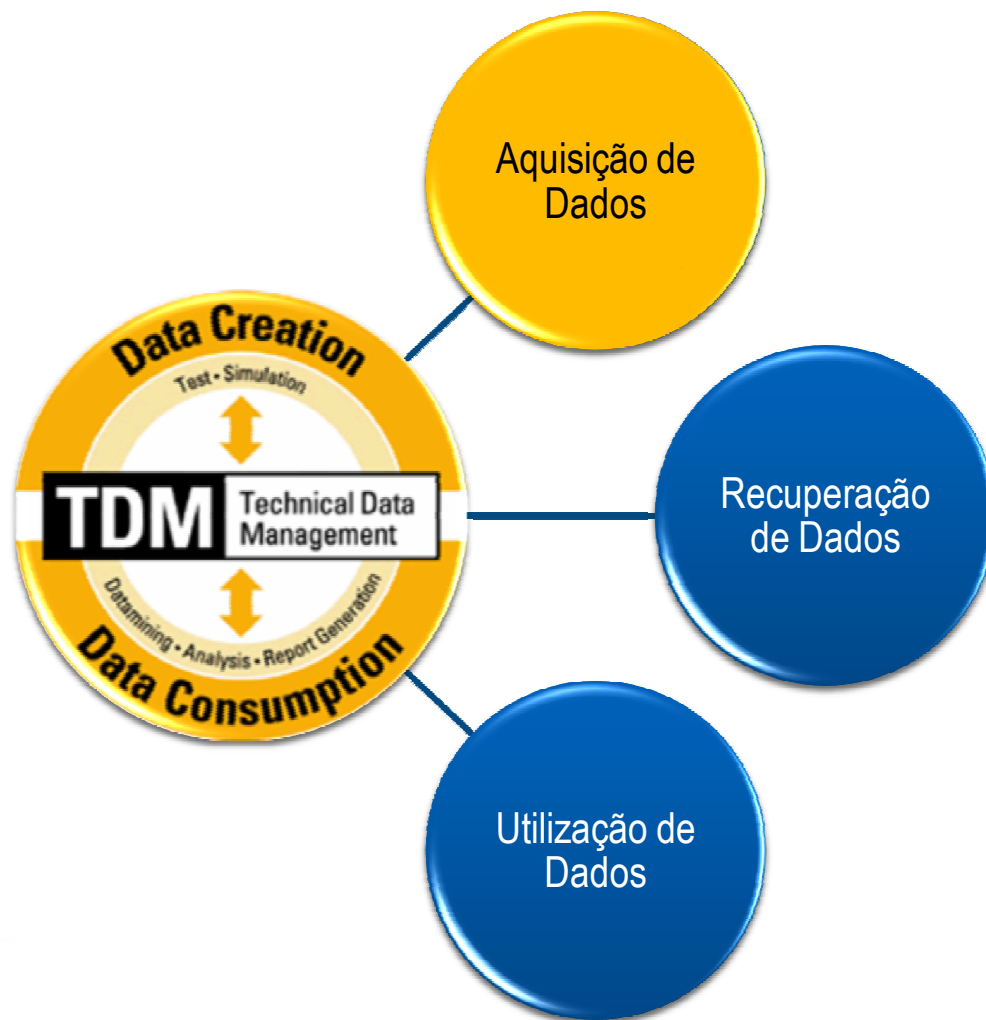


“Nós podemos criar e coletar dados complexos a tremendas taxas, mas a menos que possamos gerenciar e analisar este dado, ele é inútil.”



*Ron Musick, pesquisador senior no
Lawrence Livermore National Laboratory*

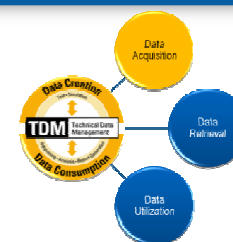
A Solução NI para Gerenciamento de Dados Técnicos



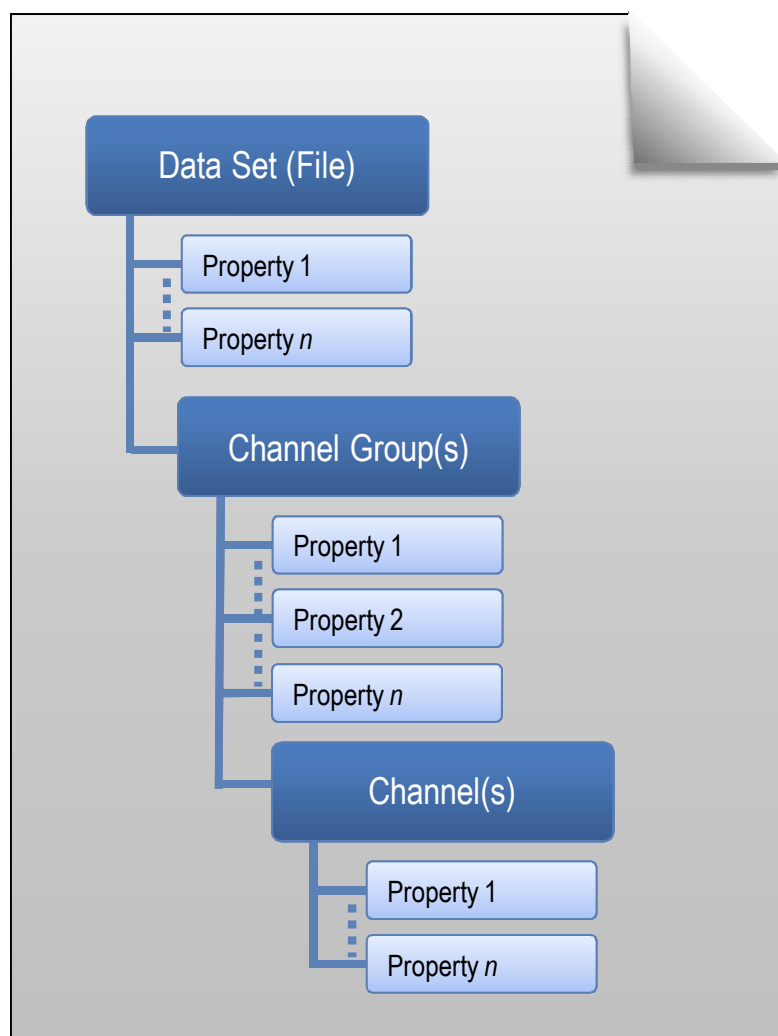
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Encontrar.

Processar.

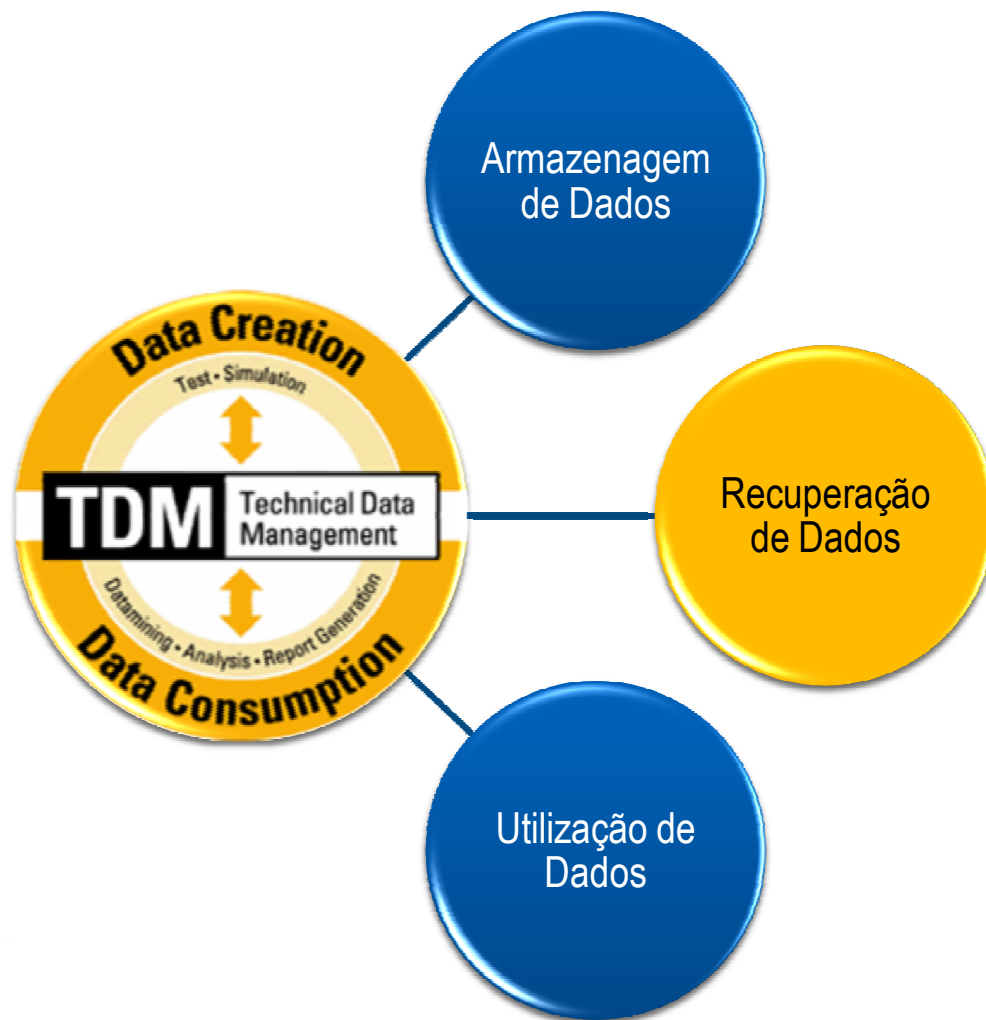


Formato de Arquivo TDMS



- Um único arquivo binário de streaming
- Três níveis de hierarquia para melhor organização
 - Arquivo, grupos e canais
- Propriedades personalizáveis e descritivas em cada nível

A Solução NI para Gerenciamento de Dados Técnicos

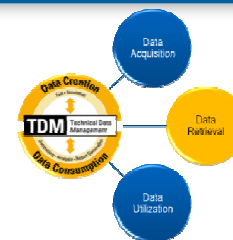


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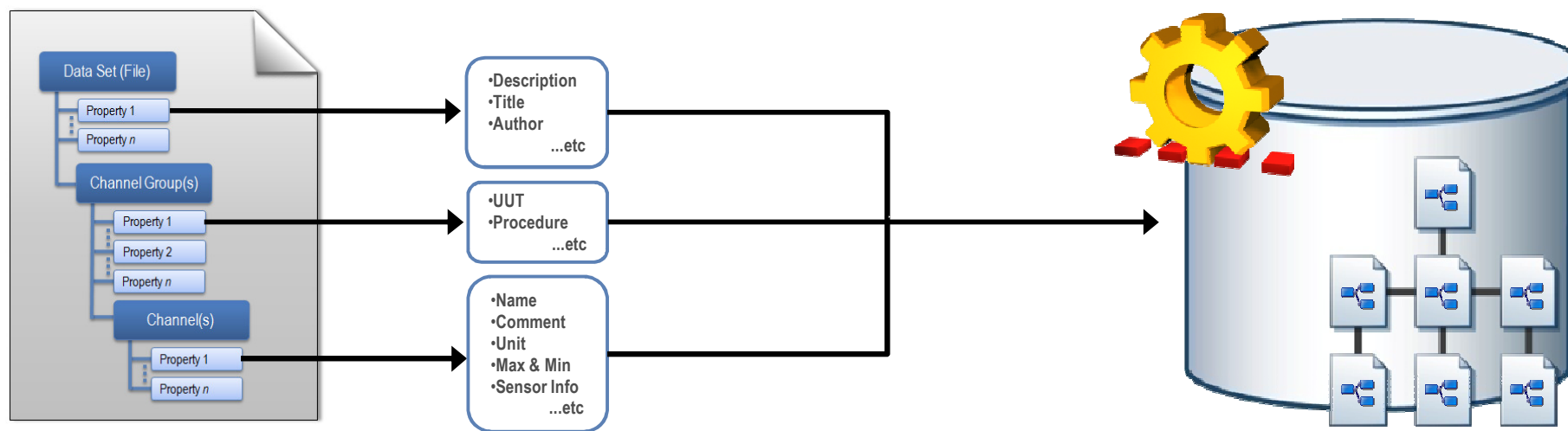
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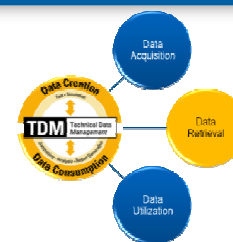
Tecnologia NI DataFinder



Indexador NI
DataFinder



Analise Propriedades Escalares Personalizadas



E os meus formatos de arquivos personalizados?

DataPlugins



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My Generic Measurement File.abc - Notepad
File Edit Format View Help

Measurement File
Author Derrick
Date 2009/04/05
Time 18:01:54.604
Description This file contains voltage measurements

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Time 18:01:54 18:01:54 18:01:54 18:01:54 18:01:54
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Delta_X 0.001 0.001 0.001 0.001 0.001

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File Edit Format View Help

My Generic Measurement File

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Write_Time      18:01:54.604
Description      This file contains voltage data from five thermocouples.

***End_of_Header***

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Channel_Max      8.620258 11.523453 21.440928 9.585559
Channel_Min      0.034181 0.565203 1.598865 2.285531
Date 2009/08/05 2009/08/05 2009/08/05 2009/08/05 2009/08/05
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***End_of_Header***

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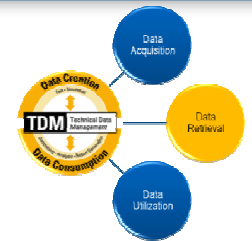
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1.919004
2.779321
3.437300
3.930174
4.565264
4.656514
5.275430
5.651112
6.277047
6.583148

voltage_2
1.598865
2.273324
2.690512
3.187963
3.848079
4.454176
4.990081
5.795770
6.055177
6.559343
7.207251
7.674184

voltage_3
2.285531
2.876675
3.775750
4.092532
4.966277
5.257424
5.990173
6.304819
6.619160
6.941130
7.364422
8.105716

voltage_4
3.078097
3.936277
4.434034
4.682150
5.576342
5.866878
6.342662
7.136448
7.080599
7.811213
7.993713
8.107242
```


Eles são mágicos?



```
1 Option Explicit
2
3 Sub ReadStore(File)
4     'Provide the file object with information about the file format
5     File.Formatter.LineFeeds = vbNewLine
6     File.Formatter.IgnoreEmptyLines = true
7     File.Formatter.TrimCharacters = " "
8     File.Formatter.Delimiters = ":"
9     File.Formatter.ThousandSeparator = "."
10
11     'Read the name of the source out of the first line of the file.
12     Dim TitleValue : TitleValue = File.GetNextStringValue(eString)
13     Call Root.Properties.Add("Name", TitleValue)
14
15     'Read the description of the implicit channel out of the second line of the file.
16     File.SkipLine() 'Advance to the next line.
17     Dim ChannelName : ChannelName = File.GetNextStringValue(eString)
18     Dim StartValue : StartValue = File.GetNextStringValue(eI32)
19     Dim Increment : Increment = File.GetNextStringValue(eI32)
20     Dim ChannelSize : ChannelSize = File.GetNextStringValue(eI32)
21
22     'Create the implicit channel.
23     Dim ChannelGroup : Set ChannelGroup = Root.ChannelGroups.Add("MyChnGroup")
24     Call ChannelGroup.Channels.AddImplicitChannel(ChannelName, StartValue, Increment, ChannelSize, eI32)
25
26     'Read the root's properties out of the file
27     File.Formatter.Delimiters = ":" 'Properties and their values are separated by a ":"
28
29     Dim PropertyName, PropertyValue
30     While (File.Position <> File.Size)
31         File.SkipLine() 'Advance to the next line.
32         PropertyName = File.GetNextStringValue(eString)
```

storage refnum (File) in

storage refnum (File) out

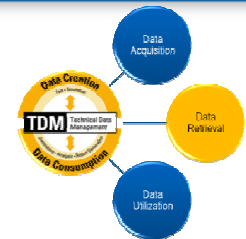
File Path

error in (no error)

error out

Parameters

www.ni.com/dataplugins



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Downloads and Developer Information

National Instruments DataPlugins extend the data file support capabilities of DIAdem, DataFinder and LabVIEW. Choose from a list of DataPlugins to download and use with LabVIEW VIs, DataFinder and DIAdem, or read about how you can create your own DataPlugin to read data from a custom formatted file into DIAdem.

The DataPlugins API, optimized for parsing test data files in both ASCII and binary forms, is fully described with supporting examples. Download the DataPlugins programmer's reference guide and start developing a DataPlugin today, or place a request to NI to have a DataPlugin developed for you.

- [Download DataPlugins programmer's reference guide](#)
- [Visit the DIAdem home page](#)

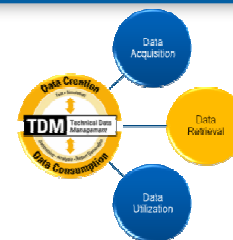
Top 5 DataPlugin Improvements

- [Paradox](#)
- [ISD](#)
- [IST](#)
- [DCM](#)
- [C3D](#)

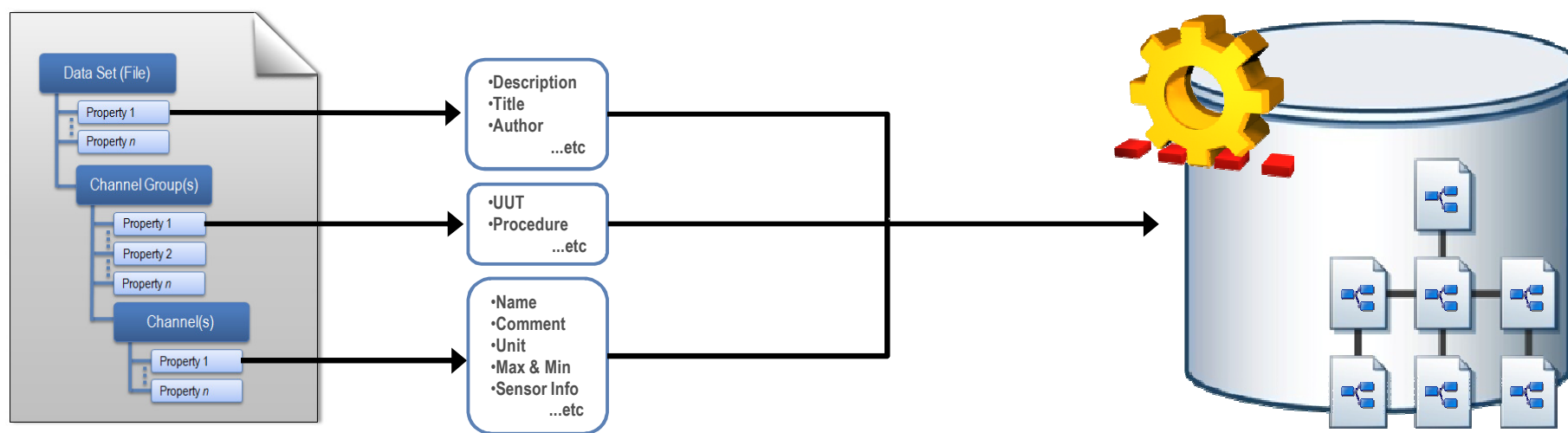
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Tecnologia NI DataFinder

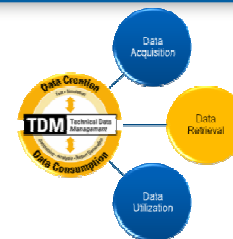


Indexador NI
DataFinder



Analise Propriedades Escalares Personalizadas

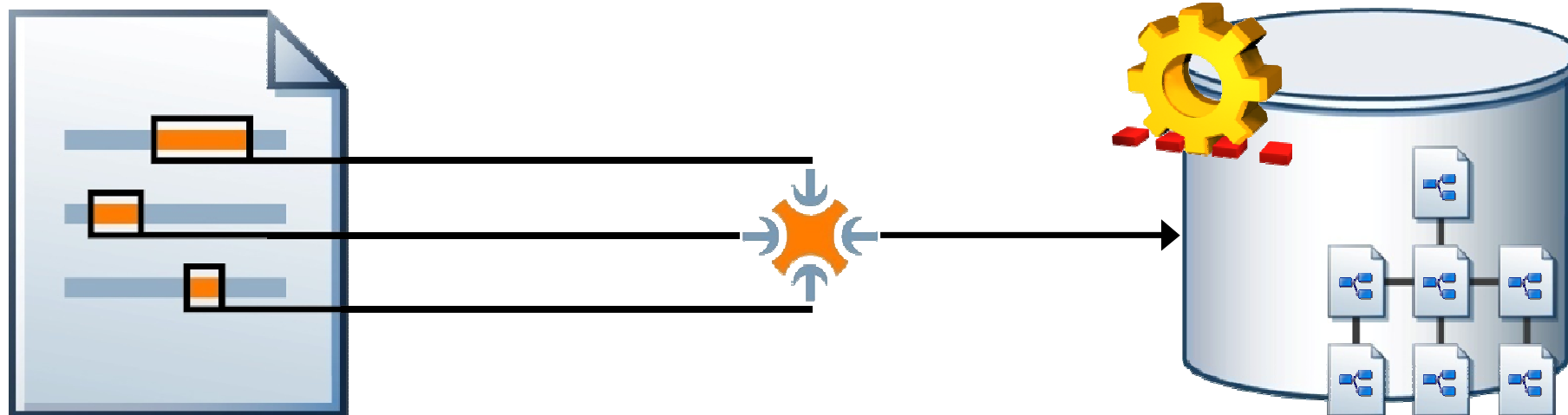
Tecnologia NI DataFinder



Qualquer Arquivo de
Dados Arbitrários

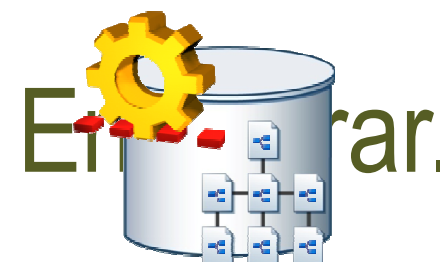
DataPlugin

Índice NI DataFinder



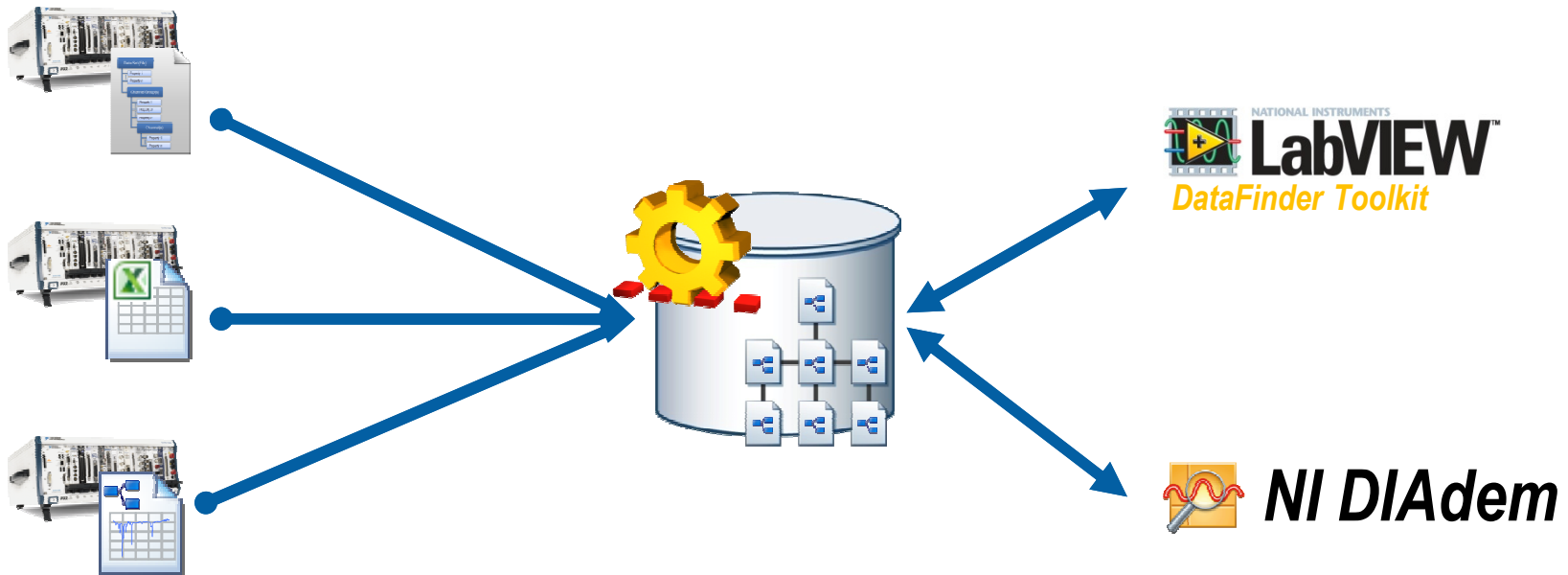
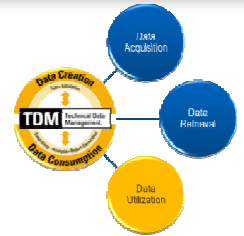
- Construções e escalas automaticamente
- Não requer suporte de TI para instalação, configuração ou manutenção

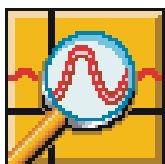
A Solução NI para Gerenciamento de Dados Técnicos



Processar.

Software Cliente do NI DataFinder





NI DIAdem

Software interativo para Gerenciamento, Busca, Análise e Relatório de Dados técnicos e para Processamento de Dados Automatizados

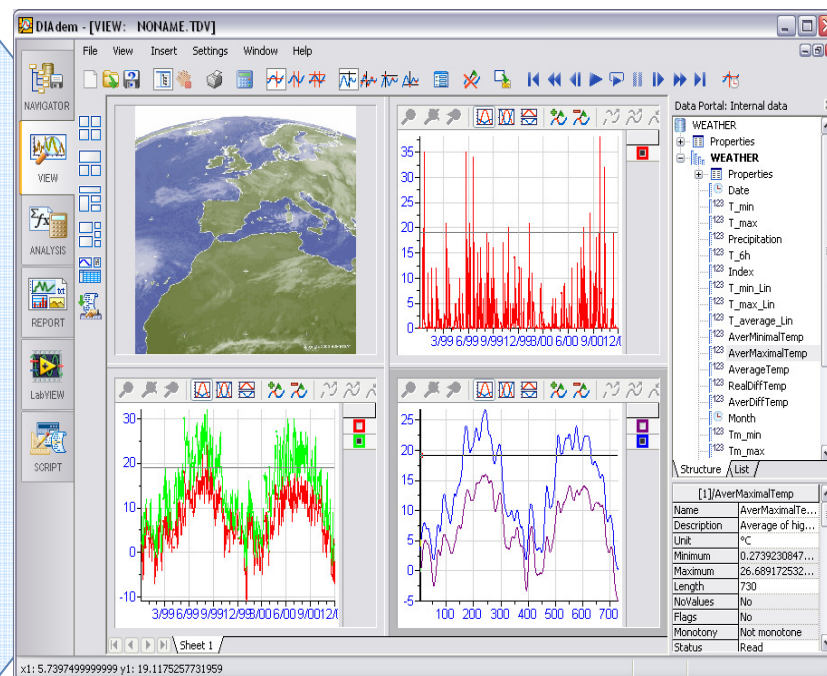
Software de pós processamento projetado para técnicos, engenheiros e pesquisadores

Busca e filtragem de dados pronta para usar sem esforço custoso de TI

Acesso fácil e flexível a bancos de dados e arquivos (ni.com/dataplugins)

Análise e geração de relatório interativa sem programação (PDF, HTML ...)

Aplicações turn-key baseadas em VBScript e interfaces de usuário personalizadas



Algumas das novidades



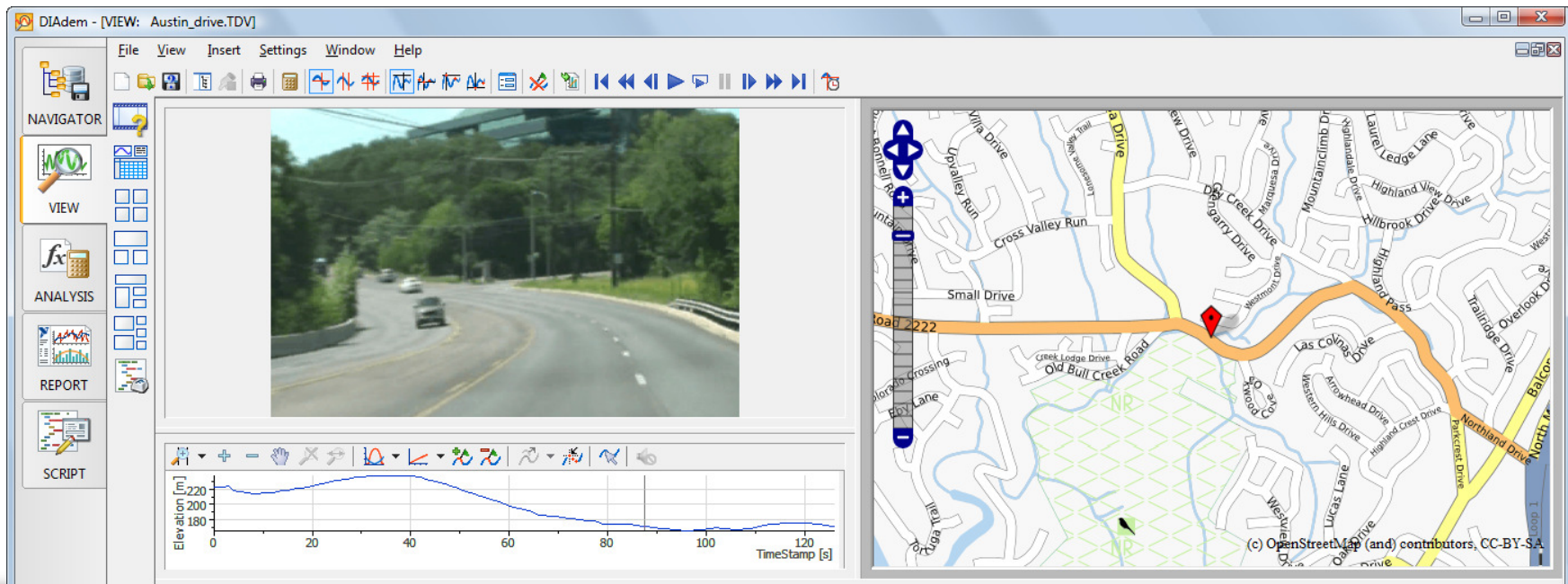
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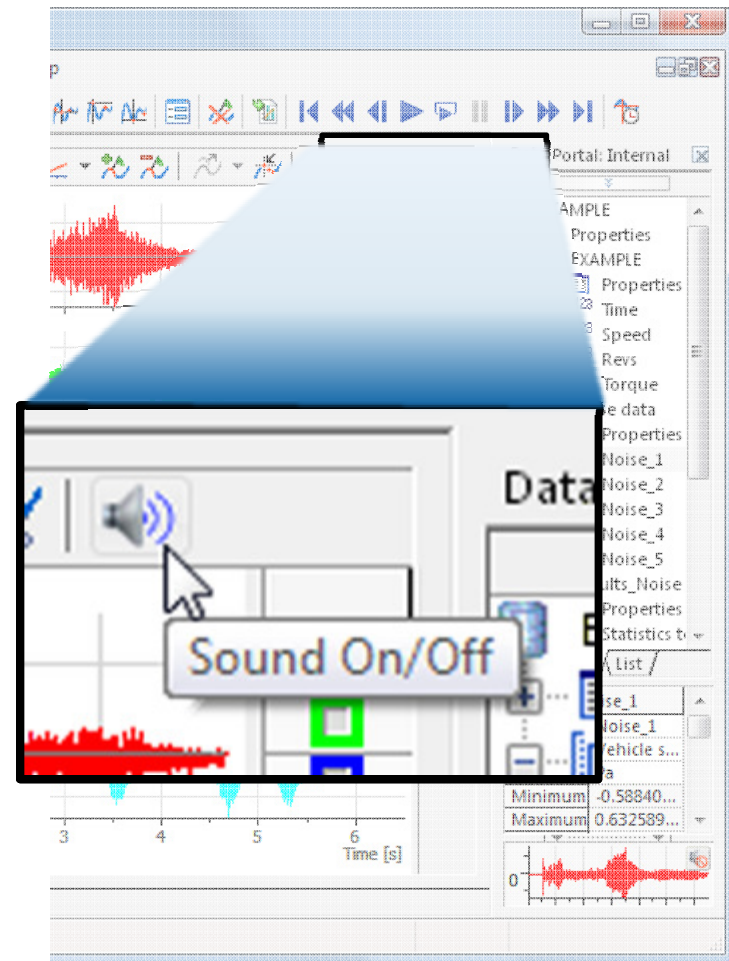
Sincronize Apresentações em Mapas de GPS

- Apresente dados de GPS na nova área map display
- Sincronize com todas as outras áreas de apresentação
- Carregue as imagens de mapas pela rede ou mantenha em cache



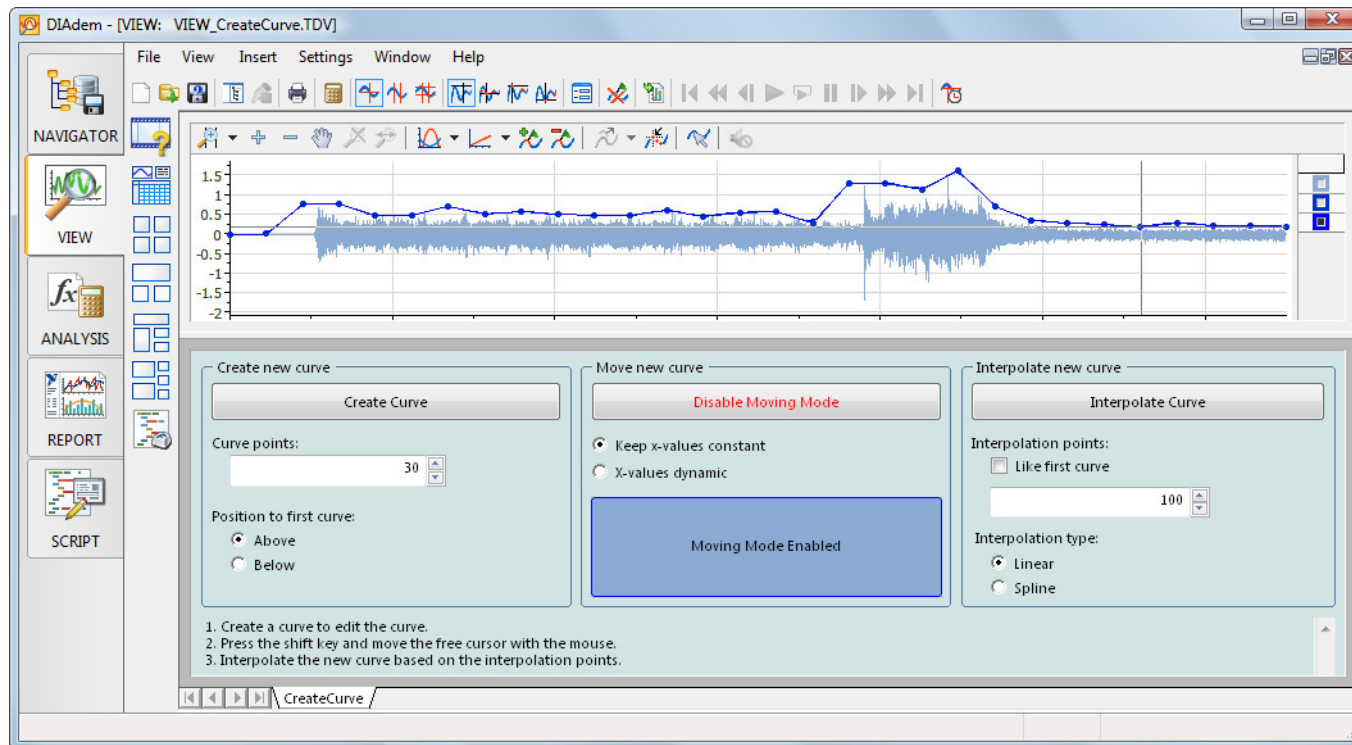
Reproduza e Coordene Dados de Áudio

- Reproduza dados de áudio com som
- Sincronize áudio com todas as áreas de apresentação
- Visualize canais de áudio no Data Portal



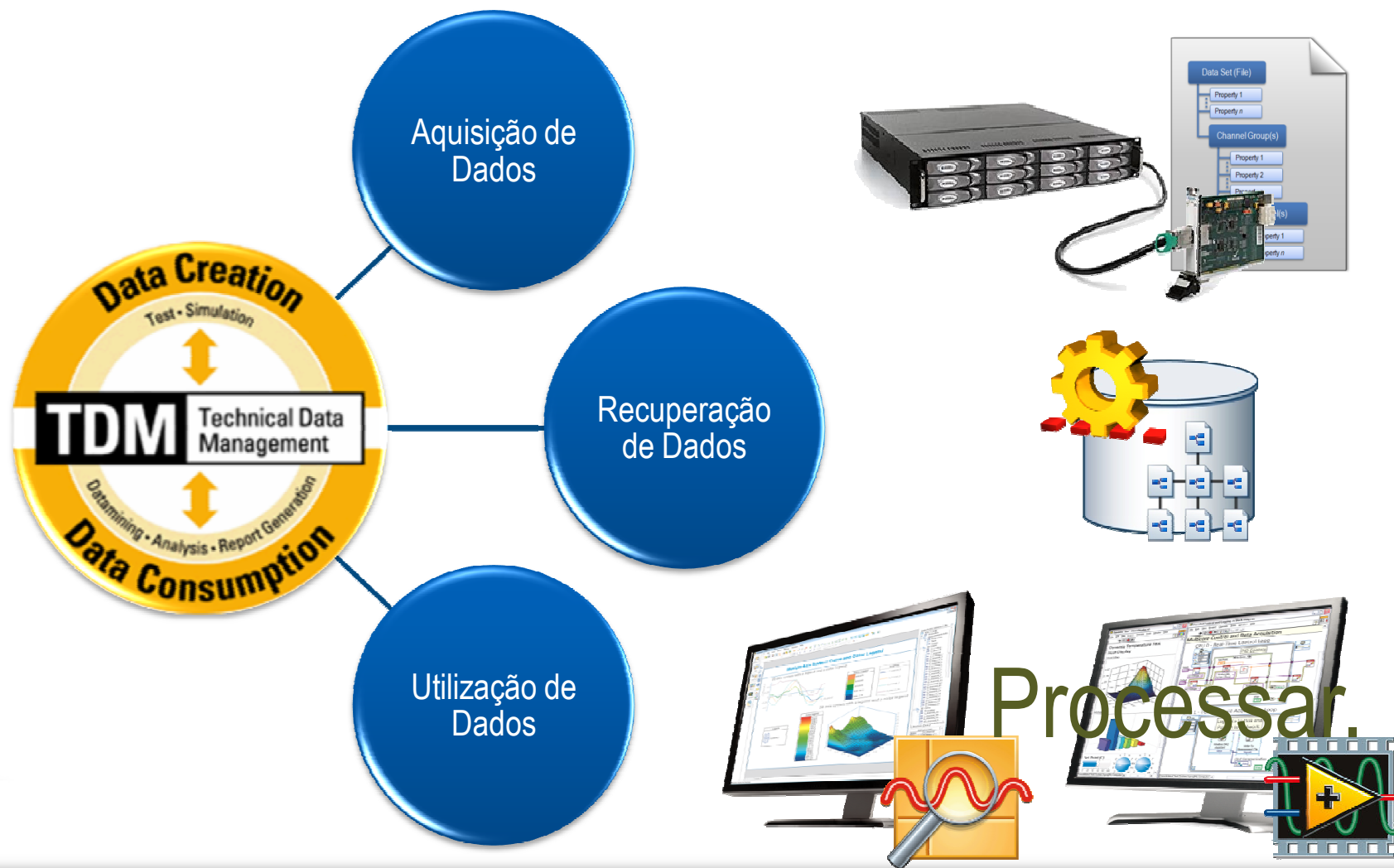
Caixas de Diálogo

- Crie caixas de diálogo interativas com o editor reprojeto
- Embarque diálogos nas visualizações



Demo

A Solução NI para Gerenciamento de Dados Técnicos



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