

I-deas to NX: Evaluation Tools

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I-deas to NX Migration Tools

- I-deas Customers with Active ME&S Receive I-deas to NX Migration Tools Without License or ME&S Charge
- Migration Tools
 - Open I-deas Migration Tool
 - I-deas Program File Migration Tool
 - miadmin Utility
 - Migration Wizard
 - Content Migration Manager

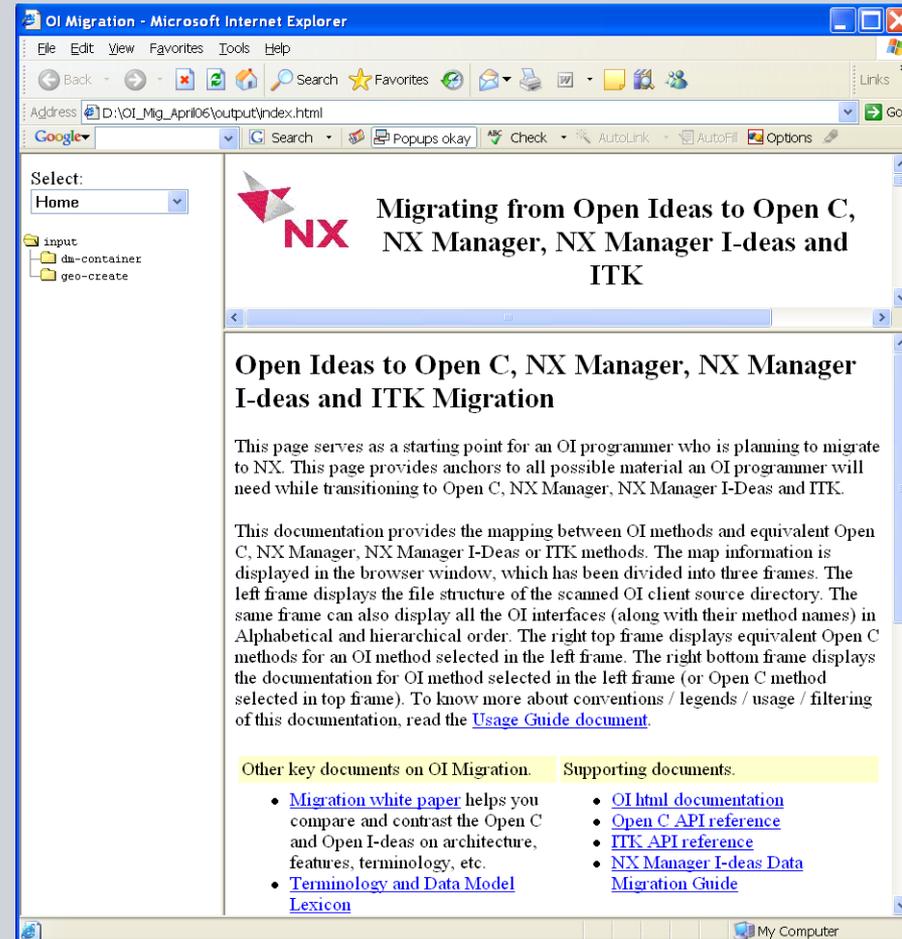
Open I-deas Migration Tool

Tool for Auditing Open I-deas Program Code

- Maps Open I-deas API Calls to Open C and NX Open Calls
- Maps Open I-deas TDM Methods to NX Manager, NX Manager I-deas, and Teamcenter Engineering ITK Calls

Basis for Quantifying Customizations, Developing Cost Estimates, and Defining Technical Plan for NX Customization

- Based on Existing I-deas Customizations Used by a Particular Customer



Open I-deas Migration Tool Capabilities

Aids in Developing Cost Estimates and Technical Plans for Moving Customizations to NX

- Analyzes Your Usage of Open I-deas API's in Your Custom OI Applications
- Provides Statistical Information on Your Usage of the OI APIs
- Accelerates the OI Programmer Learning Curve to NX Open
- Presents the NX Open Documentation in the Context of Your Existing OI Programs
- Tool does not Automatically Create an NX Version of Your Program

Technical Characteristics

- Lightweight Standalone Utility does not Require an I-deas or NX Installation
- Works with Java and / or C++ based OI source

Open I-deas Migration Tool Availability

Tool is available on I-deas CD's, beginning with I-deas 11 NX Series

- `$$SDRC_INSTL/oimig/Readme.pdf`
- `$$SDRC_INSTL/oimig/oimig_download.zip`

I-deas Program File Migration Tool

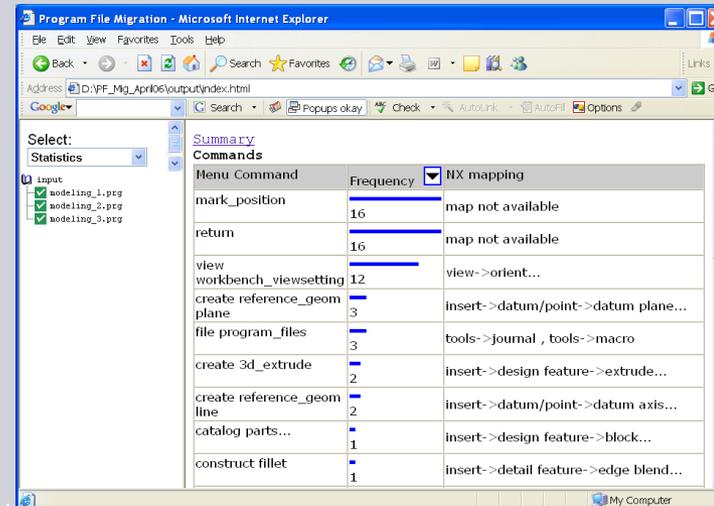
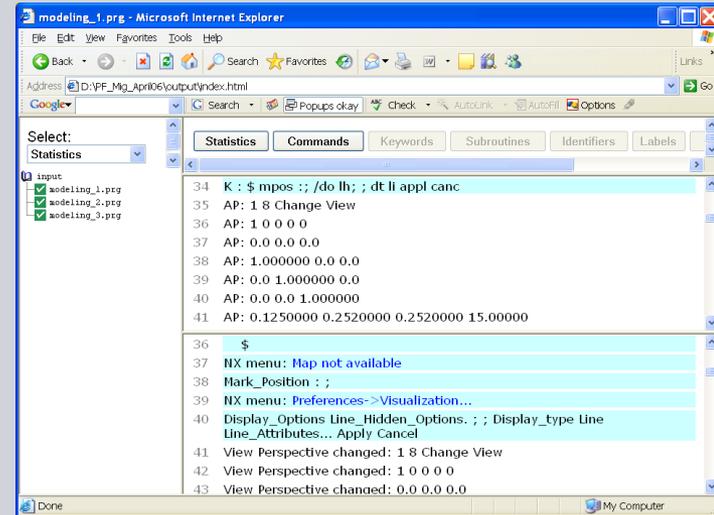
I-deas Program File Migration Tool

- Analysis of Existing I-deas Program Files
- Reports Statistics on Functional / Command Usage
- Expands Minimum Character Mnemonic Shorthand To Readable English
- Provides Mapping to NX Journaling

Basis for Quantifying Customizations, Developing Cost Estimates, and Defining Technical Plan for NX Customization

- Based on Existing I-deas Customizations Used by a Particular Customer

Lightweight, Standalone Utility



NX Journaling

NX Journaling

- Next Generation Program File Capability
- New Capability Introduced in NX3
- Independent of User Interface
- Journal with VB.Net, an Industry Standard Language
- Journaling Supports Calling NX Open Functions to Handle any Missing Journaling Coverage

I-deas Program File Migration to NX Considerations

- Recommendation that I-deas Program Files are Migrated to NX Journaling
- Program Files can optionally be migrated into NX Wizards or NX Open if NX Journaling Coverage is an Issue

I-deas Program File Migration Tool Availability

Tool is available on the I-deas CD's, beginning with I-deas 11m3 NX Series

- `$$SDRC_INSTL/pfmig/Readme.pdf`
- `$$SDRC_INSTL/pfmig/pfm_download_id12m2_Windows.zip`
- `$$SDRC_INSTL/pfmig/pfm_download_NXIdeas5_win.zip`

I-deas miadmin Utility

miadmin = metadata integrity administration

- Tool for I-deas Administrators to Maintain TDM Metadata
- Clean and Correct I-deas Data in One TDM and/or Multiple TDM's

Run prior to TDM Migration to Teamcenter Engineering or I-deas Release Upgrade
Benefits

- Prepares TDM Metadata for Migration to Teamcenter
- Errors can be Corrected Efficiently
- Simultaneously Analyze Data from Multiple TDMs
- Runs Independent of I-deas

#	Error Type	Error Group Number	Item Name	Part Number	Item Type Name	Version Number
1	#USERNAME = bsmith					
2	#DATE = Thu Mar 27 09:22:19 2003					
3	#					
4	#Error Type	Error Group Number	Item Name	Part Number	Item Type Name	Version Number
5	MULTIPLE_PART_NUMBERS	1	42-AH0607-05	42-AH0607-05	LIB PART	5
6	MULTIPLE_PART_NUMBERS	1	42-AH0607-07		LIB PART	5
7	MULTIPLE_PART_NUMBERS	1	42-AH0607-03	42-AH0607-03	LIB PART	5
8	MISSING_PART_NUMBER	2	socket_rt_angle		LIB PART	1
9	MISSING_PART_NUMBER	3	pwr_conn_72		LIB PART	2
10	MISSING_PART_NUMBER	7	42-AH0607-54		LIB PART	3
11	MULTIPLE_PART_NUMBERS	16	42-AH0616-23	42-AH0616-23	LIB PART	2
12	MULTIPLE_PART_NUMBERS	16	42-AH0616-01	42-AH0616-01	LIB PART	2
13	MULTIPLE_PART_NUMBERS	22	42-AH0641-01	42-AH0641-01	LIB PART	1
14	MISSING_PART_NUMBER	45	standoff_AH16-03		LIB PART	2
15	INVALID_IMPORT_EXPORT_LOCK	60	64-AH0018-01	64-AH0018-01	LIB PART	2
16	INVALID_IMPORT_EXPORT_LOCK	80	64-AH0057-22	64-AH0057-22	LIB PART	1
17	INVALID_IMPORT_EXPORT_LOCK	80	64-AH0057-01	64-AH0057-01	LIB PART	1
18	MULTIPLE_ITEM_NAMES	81	58-AH0044-14	58-AH0044-14	LIB PART	1
19	MULTIPLE_ITEM_NAMES	81		58-AH0044-01	LIB PART	1
20	MULTIPLE_ITEM_NAMES	81	58-AH0044-01	58-AH0044-01	LIB PART	1
21	MISSING_PART_NUMBER	82	connector-64b		LIB PART	1
22	MISSING_PART_NUMBER	84	retainer_43c		LIB PART	1
23	MULTIPLE_PART_NUMBERS	85	19-AH8554-07	6_MECH_WELDDRAFTING SE	LIB DRAWING	13
24	MULTIPLE_PART_NUMBERS	85	19-AH193L-01	K94_MECH_WELLIB DRAWING	LIB DRAWING	1
25	MIGRATED_DRAWING_DUPLICATE	86	19-AH8554-04	6_MECH_WELDDRAFTING SE	LIB DRAWING	13

miadmin – Scan, Analyze, Update

Operates in 3 Modes

- Scan – extracts key metadata from I-deas projects
- Analyze – investigates metadata for various errors
- Update – makes corrections to original metadata

Uses Microsoft Excel to view errors and edit data

Miadmin Results and Cleanup Next Steps are detailed in the Audit Report

```

C:\ Command Prompt
Analyzing these installations:
D:\UGS_Audit\

```

Example miadmin Run

- The two items ITEM_NAME_TOO_LONG and PART_NUMBER_TOO_LONG are current limitations in Teamcenter Engineering. Many users work around this limitation by storing the TDM item names and part numbers in a separate attribute field. We recommend changing the data in TDM prior to migration to Teamcenter Engineering.
- The MISSING_PART_NUMBER, MULTIPLE_PART_NUMBERS, and DUPLICATE_PART_NUMBER errors must all be fixed, and could take time because of the large number of these. Missing part numbers can be auto assigned during migration or with miadmin if that is appropriate, but that would be dependent on <Company name> processes. We understand that there is a large amount of older data that may not need to be migrated to Teamcenter and could just be archived. The miadmin dump (Option 0) and the feature tool results will tell you when each part, drawing and assembly was created and last modified.
- The MULTIPLE_ITEM_NAMES and DUPLICATE_ITEM_NAME errors are not as important to fix, since Teamcenter goes off of part number rather than item name. <Company name> can decide whether or not they want to address these errors.
- The BAD_MIGRATED_DRAWING_RELATIONSHIP and INVALID_MIGRATED_DRAWING_ATTRIBUTE errors can usually be automatically fixed by an miadmin update. We recommend doing this on your TDM's as soon as possible.

miadmin Best Practices

- miadmin creates a large amount of data. You must understand its recommended actions before accepting and updating your TDM.
- Backup your TDM's .imd and .pmd files before you begin. You can validate changes on a copy of your TDM installation before moving to your production TDM. You only need to copy the .imd and .pmd files.
- Work with individual TDMs first and resolve the issues within each TDM before working on combined TDM analysis and update. (You can analyze all your TDMs first to get a scope of the work to be done, but always start updates based on a single TDM before updating combined TDMs.)
- Resolve migrated drawing errors first. Resolving these can resolve other errors, too.
- Review the best practices section in the latest miadmin documentation before you begin.

miadmin Availability

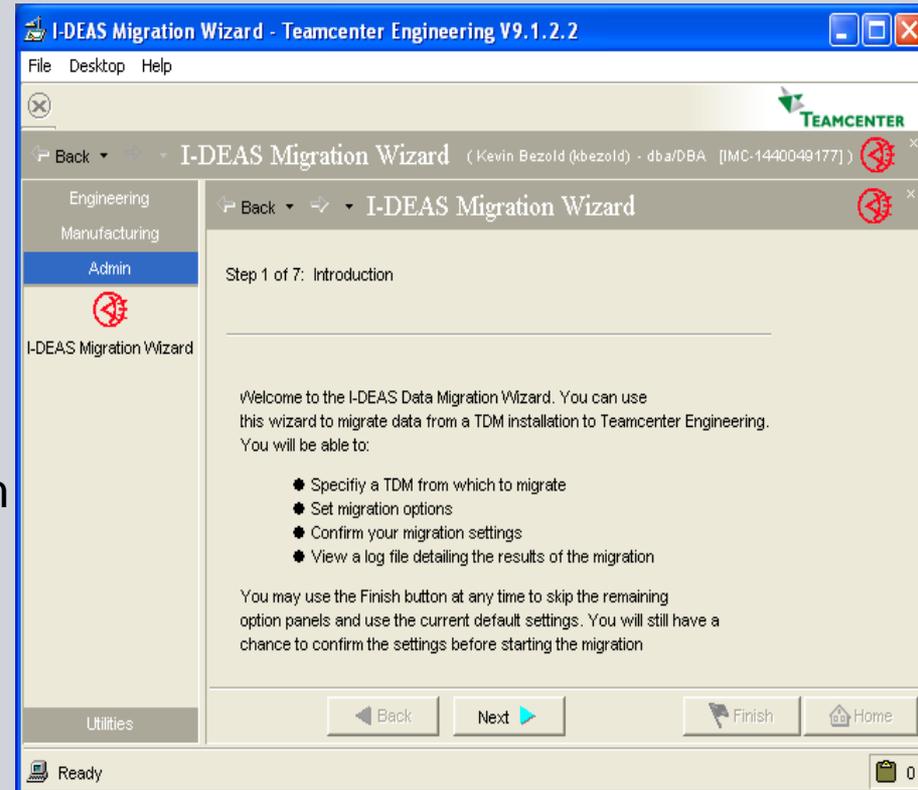
- Tool is available in I-deas 10 NX Series installations and later
 - \$SDRC_INSTL\readme\miadmin_User_Guide.htm
 - \$SDRC_INSTL\prl\miadmin.cmd
- Download the latest version of miadmin for your specific I-deas version in order to get the latest enhancements
- miadmin updates can be downloaded from <http://ftp.ugs.com/>
 - For I-deas 11, download the miadmin update at http://ftp.ugs.com/i-deas/I11/patch/miadmin_dmadmin/
 - For I-deas 12, download the miadmin update at http://ftp.ugs.com/i-deas/I12/patch/miadmin_dmadmin/
 - For NX I-deas 5, download the miadmin update at http://ftp.ugs.com/i-deas/NX15/patch/miadmin_dmadmin/

Migration Wizard

Migrate the I-deas metadata from TDM(s) to Teamcenter Engineering

- Information within the installation metadata file (*.imd) and the project metadata files (*.pmd) files converted to Teamcenter Engineering format

I-deas Part, Assembly and Drawing files are transferred without modification from TDM to Teamcenter Engineering



Content Migration Manager

Migration Modes

Interactive User Interface

Command Line/Bulk Tools

Select Data for Migration

User may select Items,
Item/Revisions or Folders

CMM resolves Dependencies

Configure Migration

User may Configure the Migration
Operation

Style of Migration (eg. Brep vs
features)

Success Criteria

Level of Checking

Migration Reporting

Pre-Migration Report

In-Migration Status (dashboard)

Post-Migration Summaries

Item Migration Reports

The screenshot displays the Teamcenter Engineering V9.1.2.2 interface. The 'My Navigator' window shows a tree view of the 'Pump Assembly' structure. The 'Options' dialog box is open, showing migration settings for 'Content Migration' and 'Geometry'. The 'Migration Status' dialog box is also open, displaying a table of migration progress for various items.

Name	Number	Type	State	Status	Completion Status
Home	---	---		---	0%
Pump Assembly	000239/2	drawing	I-deas data	Selected	0%
Pump Assembly	1234-876b/1	assembly	I-deas data	Selected	0%
Lid	232-2354667/1	part	NX data	Completed	100%
Dowel Pin	779-23455A/1	part	NX data	Completed	100%
Stator	221-78563/1	part	NX data	Completed	100%
Control Slide	221-23542/1	part	NX data	Completed	100%
Rotor Assembly	111-239843/1	assembly	I-deas data	Selected	0%
Rotor	221-3456767/1	part	NX data	Completed	100%
Wing	192-94362/1	part	NX data	Completed	100%
Shaft	221-977656/1	part	NX data	Completed	100%
Flange	232-34525/1	part	Import	Processing	90%
Housing	232-235425/1	part	Export	Scheduled	0%
Screw	779-332231C/1	part	Export	Scheduled	0%
Valve Assembly	111-787643/1	assembly	I-deas data	Selected	0%
Seal 21	779-0204521/1	part	Export	Scheduled	0%
Thrust Bolt	221-94762/1	part	Export	Scheduled	0%

The 'Migration Status' dialog also includes a log area showing the following messages:

- * Connecting to I-deas service...
- * Connecting to NX service...
- * processing [2 of 21] 779-23455A/1 part : Dowel Pin ...
- * processing [3 of 21] 221-78563/1 part : Stator ...
- * processing [4 of 21] 221-23542/1 part : Control Slide ...
- * processing [5 of 21] 221-3456767/1 part : Rotor ...
- * processing [6 of 21] 192-94362/1 part : Wing ...
- * processing [7 of 21] 221-977656/1 part : Shaft ...
- * processing [8 of 21] 232-34525/1 part : Flange ...

I-deas to NX Migration Tools Summary

- UGS Migration Tools
 - Open I-deas Migration Tool
 - The Tool for Auditing and Migrating Open I-deas Programs
 - I-deas Program File Migration Tool
 - The Tool for Auditing and Migrating I-deas Program Files
 - miadmin Utility
 - Use to Prepare TDM Data for Migration to Teamcenter
 - All I-deas Administrators should use miadmin regularly
 - Migration Wizard
 - Migrates I-deas Metadata from TDM(s) to Teamcenter Engineering
 - Content Migration Manager (CMM)
 - Migrates I-deas Part, Assembly, and Drawing Data to NX
- I-deas Customers with Active ME&S Receive I-deas to NX Migration Tools without License or ME&S Charge
- Only UGS Provides the Breadth and Depth of Migration Tools Necessary to Successful Move I-deas Customers Forward to Product Lifecycle Management

www.siemens.com/plm