Pro/INTRALINK Data Migrator
Migrating from 3.x to 8.0

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PTC®
The Product Development Company™

Agenda

- Evolution of Pro/INTRALINK 8.0
- Introducing the Pro/INTRALINK Data Migrator
- Supported data
- How it works
- Early success
- Performance
- Support information
- Software availability
- Available resources

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Evolution of Pro/INTRALINK 8.0

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2004 – CAD Data Management Customers Must Compromise

Pro/INTRALINK 3.X

Strengths:

- Full Pro/E Workgroup Level Data Management Functionality
- LAN Performance
- Customer Already Owns

Weaknesses:

- Enterprise Capabilities
- WAN Performance
- Extended Enterprise Access
- Multiple Client UI's

Windchill 7.0

Strengths:

- Enterprise Capabilities
- WAN Performance
- Modern Architecture (Scalability, Security, Integration)
- Single Client UI

Weaknesses:

- Full Pro/E Workgroup Level Data Management Functionality
- LAN Performance
- Upgrade Path from Pro/I 3.X Costly

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2005 – Eliminating the Compromise

Pro/INTRALINK 8.0 – A Single Solution with Modular Packaging to Eliminate Compromises

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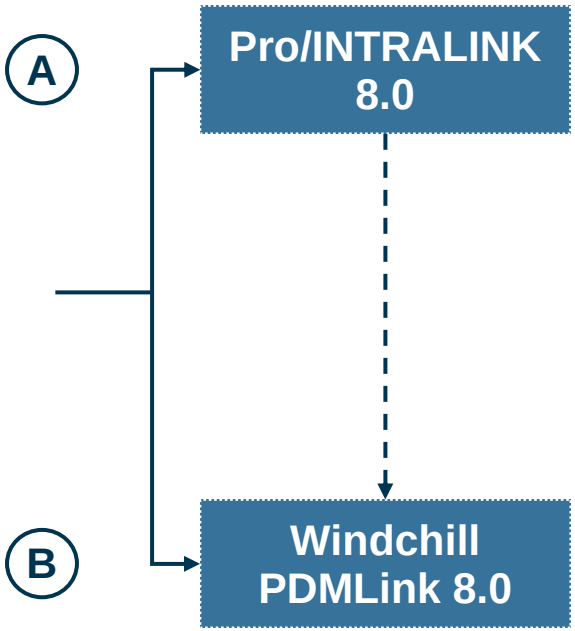
Pro/INTRALINK 3.x Customers Have Multiple Options



- Next generation Pro/ENGINEER workgroup data management
- Modern Windchill architecture
- Simple starting point with growth potential
- Included with Pro/INTRALINK maintenance
- Robust migration capabilities and training support

- All of the capabilities of Pro/INTRALINK, plus: multi-MCAD / ECAD, CMII change management, advanced configuration management, turnkey
- Best to obtain all the benefits of the PDS
- ERP integration, etc.
- One solution for workgroup and enterprise PDM
- Requires purchasing licensing upgrade package
- Option to add Light user pricing
- Robust migration capabilities and training support

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Differences Between Pro/INTRALINK & Windchill PDMLink

Pro/INTRALINK 3.x

- Pro/E versioning & vaulting
- Workgroup collaboration
- Basic lifecycle mgmt (simple release)
- Basic document mgmt
- Basic configuration mgmt (baselines)
- Content replication (multi-site version)
- Basic visualization
- Optional advanced visualization
- Basic search
- BOM/ Relationship reporting

Select non-core functionality planned for next releases

Pro/INTRALINK 8.0

- Improved distributed (WAN) performance
- New Web-based architecture
  - Streamlined Pro/ENGINEER Wildfire interactions
  - Expanded visualization
  - Scalability
  - Advanced security/ firewall/ LDAP
  - Eliminates client installations
  - Cross-locale support
- Additional capabilities
  - Enhanced document mgmt
  - Improved Difference Reporting
  - Expanded History Reporting
    - Rename history
    - Save As history
    - Location history
- Optional Archive module

Windchill PDMLink 8.0

- Complete product definition
  - Ability to add 3rd party MCAD and ECAD integrations
  - Define and manage enterprise BOM
  - Advanced structure/ configuration management
  - Improved document management (MS Office integration, structured docs)
- Engineering change management
- Process automation/ workflow
- Expanded visualization
  - Additional object adapter support
  - Incl. Lite visualization
  - ECAD validation with InterComm
- Enterprise user (light) seats
- Ability to add Windchill ProjectLink
  - Product development collaboration
  - Project management and execution
- Optional modules
  - Classification and reuse
  - Enterprise system integrations (e.g, SAP)
  - Adobe PDF integration

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Introducing the Pro/INTRALINK Data Migrator

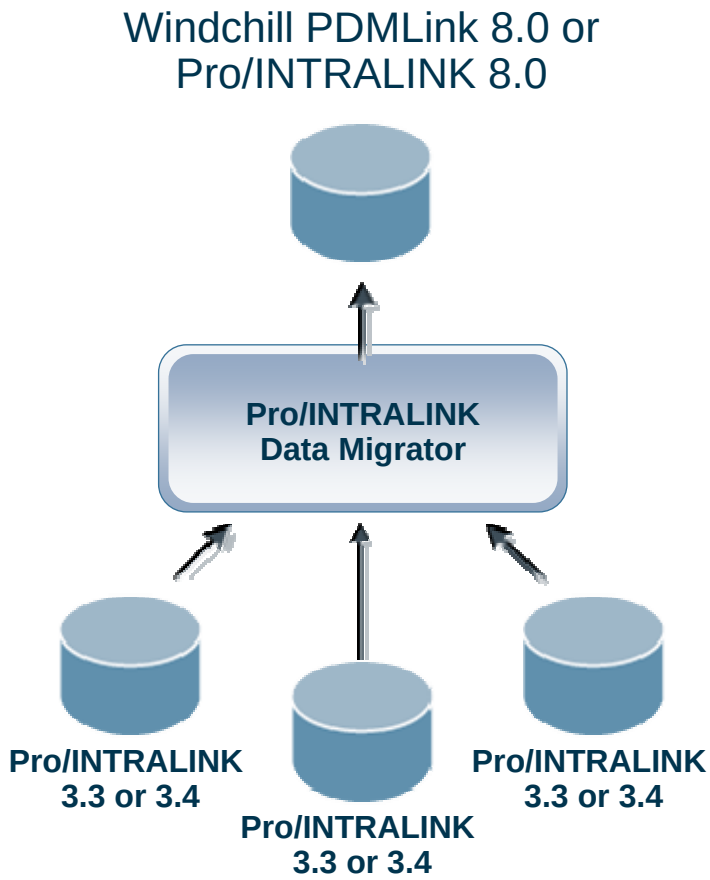
Enables migration from Pro/INTRALINK 3.x to the 8.0 architecture

Key capabilities

- Consolidation of multiple Pro/INTRALINK instances
- Out of the box support for all Pro/ENGINEER file types
- Migration of non-Pro/ENGINEER data currently managed in Pro/INTRALINK
- Preservation of the history of migrated data
- Works with a pre-populated target system
- Optional part and product structure initialization

Benefits

- Increased reuse with system consolidation
- Simplified system administration
- Improve product development in a dist. env.



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Supported data

Administrative Data

- Users
- Attribute definitions
- Folder structure

All Object Types

- Both Pro/E and Non-Pro/E data
- Maintain revision/version history
- Main branch data only

File content

Relationships

Configurations

- Named baselines
- As-stored transaction IDs

Object Maturity

Attribute Values

- User defined
- System attributes

Forms

- Completed RTP Forms
- Check-in Form Comments

Rename History

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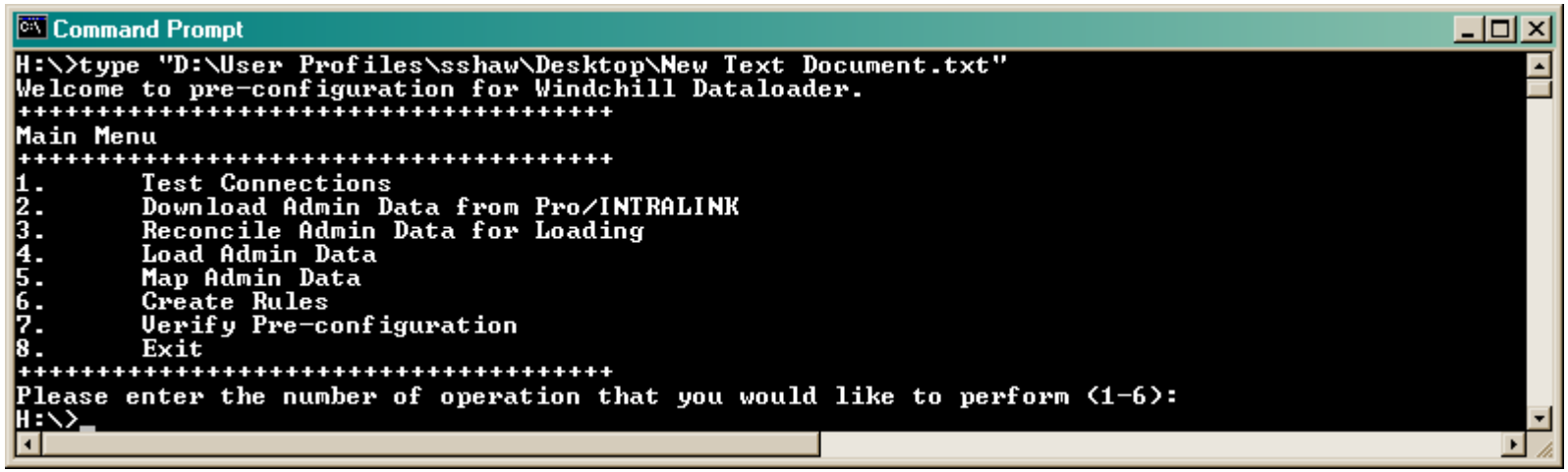
How it works

Command line driven



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How it works

Controlled by host of editable mapping files

usermap.properties - WordPad

```
INTRALINK=INTRALINK
alice=alice
andy=andy
carl=carl
chris=chris
dave=dave
hiren=hiren
kevin=kevin
mark=mark
martin=martin
```

ibamap.properties - WordPad

```
#The following are Versioned attribute Definitions
#---------- BEGIN READ ONLY ----------
#The following are FileBased Versioned attribute Definitio
#Please do not modify these names. They are READ-ONLY.
VER.Connector_Type=CONNECTOR_TYPE
VER.Mc_Config=MC_CONFIG
VER.Mc_Mode=MC_MODE
VER.Color=COLOR
VER.Description=DESCRIPTION
VER.Model_Check=MODEL_CHECK
VER.Modeled_By=MODELED_BY
VER.Mc_Errors=MC_ERRORS
#---------- END READ ONLY ----------
#The following are Non-Versioned attribute Definitions
#The following are Lifecycle Attribute attribute Definitio
#They will be migrated as versioned attributes.
#The following are Dependency attribute Definitions
DEP.Description=DESCRIPT
```

docrules.properties - WordPad

```
#Rules

#EPMDOC_NUMBER- Specifies what value to be assigned as the document number.
#EPMDOC_NUMBER rule can have one of the two value-
#NAME_WITH_EXTENSION - use the PI name.
#AUTO_NUMBERING - will use an auto numbering sequence.
EPMDOC_NUMBER=AUTO_NUMBERING

#WTDOC_NUMBER- Specifies what value to be assigned as the document number.
#WTDOC_NUMBER rule can have one of the two value-
#NAME_WITH_EXTENSION - use the PI name.
#AUTO_NUMBERING - will use an auto numbering sequence.
WTDOC_NUMBER=AUTO_NUMBERING
```

epm_folder_rsrl_map.properties - WordPad

```
##########################################################################
RS.BEGIN.21.Library Release Scheme
#
#
##########################################
RS.DEF.BEGIN.Library Release Scheme
Library Release Scheme=Basic
Library Release Scheme.1.WIP=INWORK
Library Release Scheme.2.Released=RELEASED
RS.DEF.END.Library Release Scheme
##########################################
#
#
REPOSITORY=Library
Root Folder/Library=
Root Folder/Library/Fasteners=/Fasteners
Root Folder/Library/Groups=/Groups
Root Folder/Library/Standard Components=/Standard Comp
#
REPOSITORY=Machine Design
Root Folder/Machine Design/Fasteners=/Fasteners
Root Folder/Machine Design/Formats=/Formats
Root Folder/Machine Design/Symbol=/Symbol
Root Folder/Machine Design/UDF=/UDF
#
REPOSITORY=Standards
Root Folder/Standards=
Root Folder/Standards/Formats=/Formats
Root Folder/Standards/Notes=/Notes
```

filevaults.properties - WordPad

```
##########################################################################
#
# - Trailing spaces will be ignored.
# - '=' is not a valid character
# - The only editable fields are fields with '=' entry. Only t
#   side of such entries are editable.
# - You should find two types of entries for each filevault, s
#     - FILEVAULT. Please specify an existing PDMLink filevaul
#     - NETWORK_PATH. (required only for Move option) Please s
#       You can manually copy/move the Intralink filevault to
##########################################################################

FILEVAULT.ILINK33O3D:D:\ptc\ilink\vaults\CustomVault=migvault
NETWORK_PATH.ILINK33O3D:D:\ptc\ilink\vaults\CustomVault=

FILEVAULT.ILINK33O3D:D:\ptc\ilink\vaults\Default=migvault
NETWORK_PATH.ILINK33O3D:D:\ptc\ilink\vaults\Default=
```

pitdmapping.properties - WordPad

```
# Some pitypedefnames can appear multiple times in this file with
# type being 0 and/or 1 and/or 2. If this happens, migrator will
# first try to migrate the object with the pitypedef as
# first as secondary content( if the pitypedef appears with type 2)
# if not possible, then EPMDocument( if the pitypedef appears with type 0)
# or WTDocument( if the pitypedef appears with type 1)

# for EPMDocument: pitypedefname=0/@AuthoringApplication/@EPMDocumentType/@SubType/@Category

Animation Playback File=0/@PROE/@OTHER/@NULL/@Analysis Results
AnsysOut=0/@OTHER/@OTHER/@NULL/@NULL
Appearance=0/@PROE/@OTHER/@NULL/@PROE_UGC
AssemMembInfo=0/@PROE/@OTHER/@NULL/@PROE_UGC
Assembly=0/@PROE/@CADASSEMBLY/@NULL/@PROE_UGC
BendOrder=0/@PROE/@OTHER/@NULL/@PROE_UGC
BumpMapTexture=0/@OTHER/@OTHER/@NULL/@NULL
CableParams=0/@PROE/@OTHER/@NULL/@PROE_UGC
CATIA=0/@CATIA/@OTHER/@NULL/@Export
```


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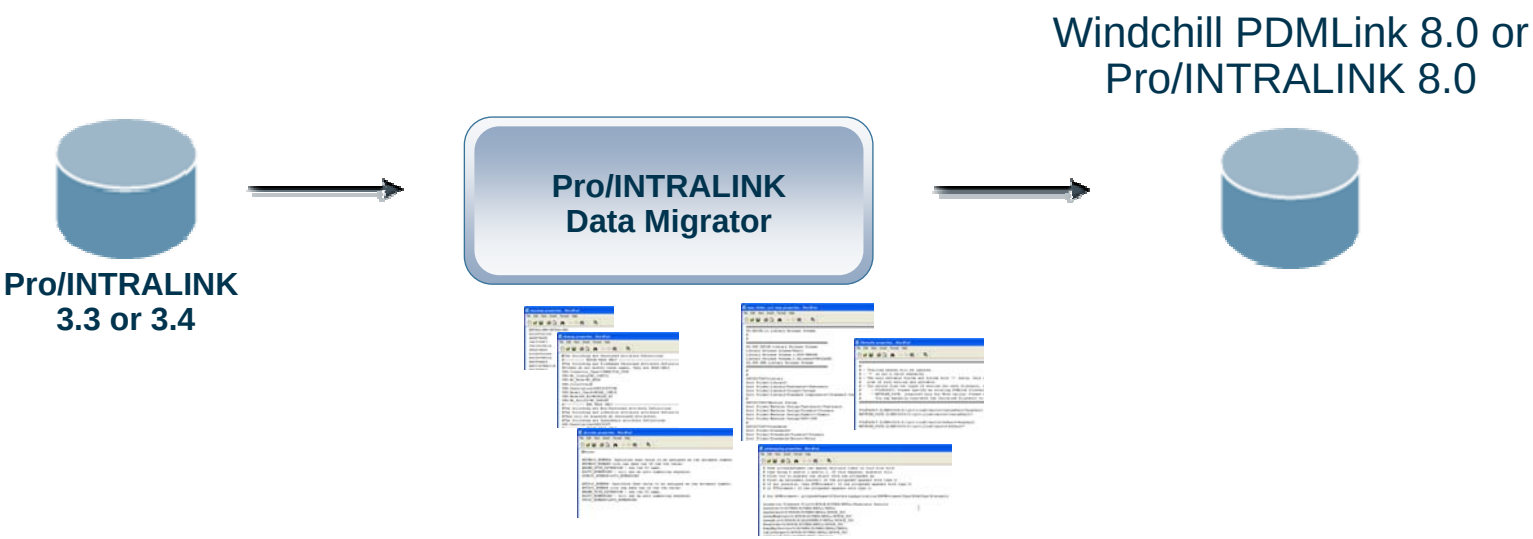
How it works



Database → database when possible

- Avoiding MS business logic = performance
- Works independently against software objects
- Migration not complete until last object has migrated

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How it works

Step 1: Load Administrative Data

- Users
- Folders
- Attribute definitions

Step 2: Establish and Load Mapping

Step 3: Conflict Handling

- Check for conflicts
- Prescribe resolution
- Zero conflict state required to continue

Step 4: Initiate Migration

- Document
- FT
- Link
- UDA
- Baseline
- AsStored
- RTPForm
- RenameHistory
- FileTransfer
- Part
- BuildProcess

Step 5: Migrated data available in target

- Unhide
- Usable by non-administrative users

Migrates entire Pro/INTRALINK Database (no partial migrations)

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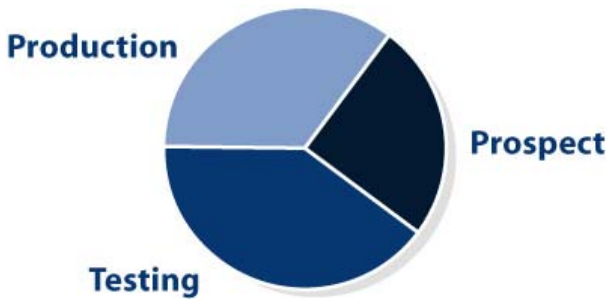
Successes – Proving the technology

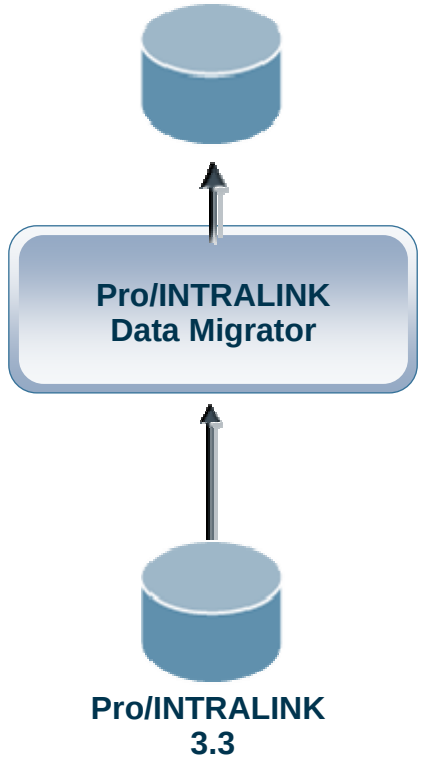
Customers are migrating today

- 7 **Production** accounts
  - Europe & North America
  - Small & large
- 8 Pre-production accounts
  - Actively working through the Testing phase
  - Production slated for Q2-3
- Pipeline growth continues
  - 8.0 customers lining up



Current 7.0 Migration Activities

Windchill PDMLink 7.0



PTC Global Service led engagements

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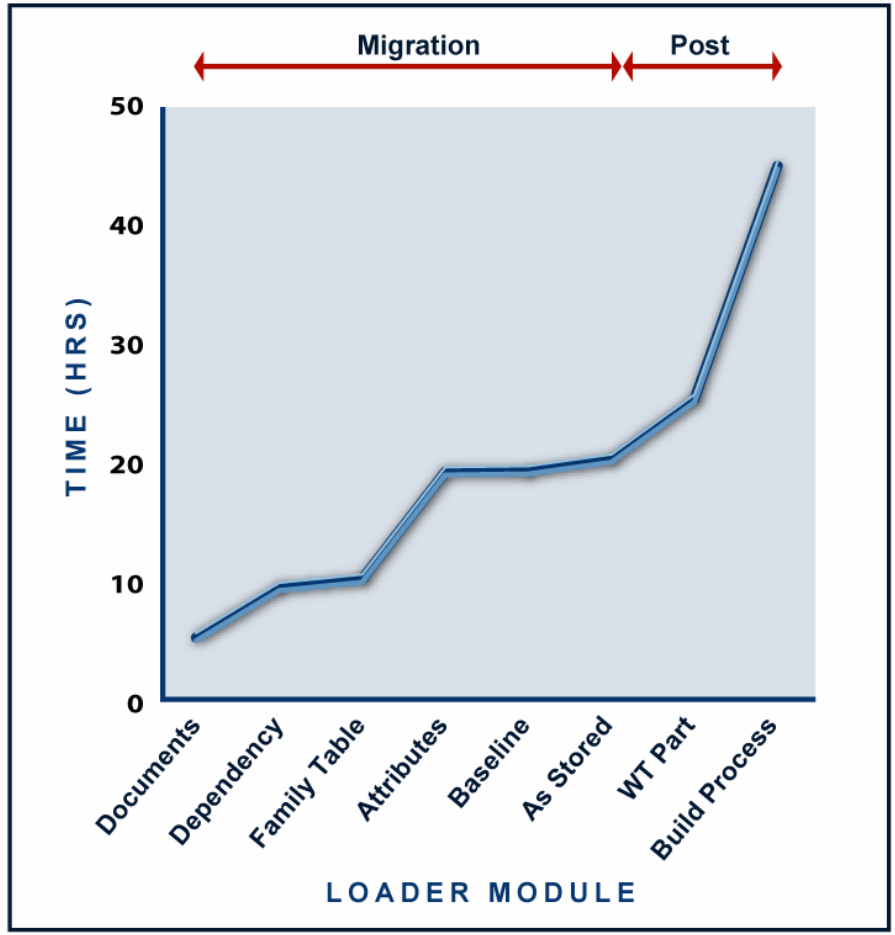
Performance sample

Pro/INTRALINK 3.3 Statistics

DATA TYPE	SIZE
Oracle dump file	2.9GB
PI	441662
PIV	1454047
Attributes (V, NV, LC)	20
Dependency Attributes	None
Family Table Contained in Links	1048752
Dependencies	8734573
Named Baseline	25
AsStored Transaction IDs	93507

Migration Processing Times



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Support information

Software Compatibility

UPGRADE ←

UPGRADE ↓

	Pro/INTRALINK 8.0	PDMLink 8.0	Windchill Foundation 8.0
Pro/INTRALINK 2.0 – 3.3 M0101	☐	☐	☐
Pro/INTRALINK 3.3 M02x	☑	☑	☐
Pro/INTRALINK 3.4	☑	☑	☐

OS Support

- Windows Server 2003
- SUN Solaris 9
- HP-UX 11i

Language Support

- Not localized
- Supports all certified Pro/INTRALINK Languages

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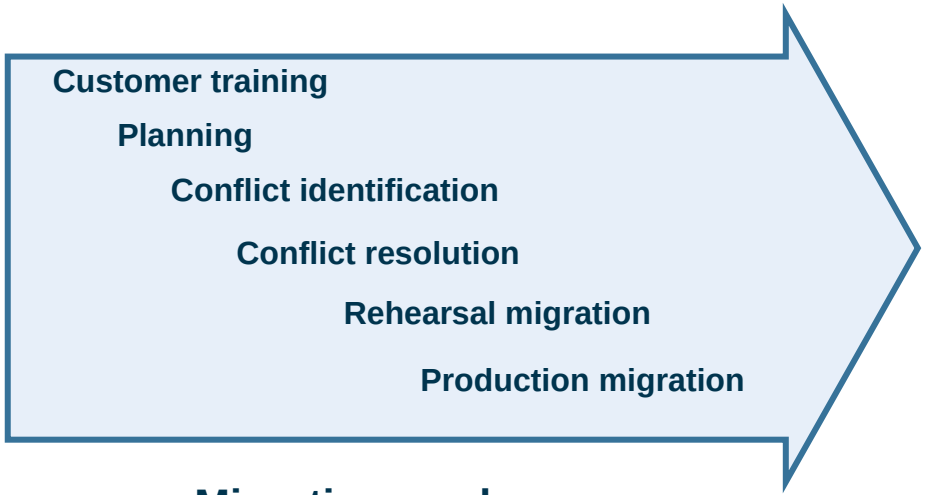
Migration paths

It’s more than just moving data

- People
- Processes
- Data is the easy part



Migration roadmap

Engage PTC Global Services

- Time and materials depending upon customer size and complexity

Certified Migration Partners

- Set of VARs will be trained and certified as migration experts

Perform the migration in-house

- Software general availability Oct. 2005
  - Free for Pro/INTRALINK customers on active maintenance
  - Training prerequisite removed
- Prior to Oct. 2005 training required
  - Attend training get early access to Migrator
- Training course
  - Migration tool training (2 days)
  - Administrative training (3 days)
- PTC Services Health-checks
  - Available as separate purchase
  - Provides access to PTC migration experts

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www.PTC.com/go/ProINTRALINK

Community web site for current Pro/INTRALINK customers

- Your central on-line resource to help you plan and make the move
- Experts who can provide advice about making the move to the new release
- Discussion forums to communicate with experts and other users

Find tips and resources to help you in:

- Getting started
- Installing
- Migrating data
- Administering the system
- Learning
- Finding additional resources

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