



GSS Migration Toolkit for Sun Java Communications Suite

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Agenda

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Why Customers Migrate to Sun

- Reduce costs (reduce numbers of servers and staff)
- Leverage low cost bandwidth
- Consolidate servers (centralize)
- Improve scalability
- Protect against threats
- Comply with government regulations
- Respond to legal requests



Overview of Migration

- Migration is a process, not a tool
- Tools are components of a technical solution for migration, not the solution
- A technical migration process must be developed for each customer
- Careful planning, design and testing lead to success
- There is no magic wand for migration—migrations are complex
- Every migration is different and requirements vary widely



Ingredients for Success

- Understand requirements and priorities
- Define the technical migration process with input from the customer
- Develop and test migration and coexistence plans
- Define resources, roles and responsibilities



Requirements for Success

- Understand data sources and targets
 - Directory, E-mail, Calendar, personal data
- Develop migration know-how
 - Moving data is just the first step
 - Establish orders of operation
 - Model solution and logistics
 - Understand constraining factors
- Co-existence
 - Message routing
 - Directory synchronization
 - Other requirements



Data Sources

- Directory
 - Domino Directory (Name and Address Book)
 - Public mail groups (distribution lists)
- Messaging
 - Server-based mail folders
 - Messages, folders, attachments, e-mail addresses (X.500)
- Calendar
 - Meetings, events, reminders, resources
- Personal address books
- Local mail archives



Data Targets

- JES Directory Server
 - Domino Directory (user and group data)
 - Personal Address Book
- JES Messaging Server
 - Mailboxes, folders, messages, attachments
 - Mail-in Databases
- JES Calendar Server
 - Calendar data
- Client-side Targets
 - Sun Convergence Web 2.0 client
 - Mozilla Thunderbird/Lightning
 - Microsoft Outlook (e.g., PST files)



Lotus Migration Suite (nX2jes)

- **nmail2jes** – Notes Mail Mover extracts and converts mailboxes, messages, attachments, addresses, etc.
- **ndir2jes** – Domino Directory Manager extracts and converts directory information and detects changes in Domino Directory
- **ddmodify** – LDAP modify for Domino Directory allows standard LDIF files (add, delete, modify functions) to be applied to Domino Directory
- **ncal2jes** – Notes Calendar Converter extracts and converts calendar information for people and resources
- **pnab2jes** – Personal Address Book Converter converts Personal Address Book to LDIF



Related Tools

- **nsf2pst** – CLI Notes NSF file to PST file converter, useful for customers using Microsoft Outlook as a client
- **xmlset** – CLI to set any attribute/value in an XML file, e.g., using environment variables or passed parameters, useful for automation using a common XML configuration file
- **xmlget** – Command line tool to get any specified data from an XML file, useful to retrieve configuration settings from XML configuration files



Tool Properties

- Written in C++ using the Lotus C API
- All configuration and data transformation defined in XML
 - Number of files minimized
 - User-definable conversion rules
 - Complete output structure in plain text
- Global language support via Unicode
- 100% standards-based XML, iCal, LDIF, RFC822, etc.



Language Support

The screenshot displays the Lotus Notes application window titled "Fwd: FW: 火山奇景 - Lotus Notes". The interface includes a menu bar (File, Edit, View, Create, Actions, Help), a workspace with tabs for "Welcome", "Workspace", and "陳春強 - Inbox", and a toolbar with icons for "新建便箋", "回信", "轉發", "刪除", "文件夾", "拷貝到", and "工具".

The main content area shows a forwarded message from "馮曉琳" (yvonnegq@gmail.com) to "xuyzhi@gmail.com" on 21/03/2007 00:28. The subject is "Fwd: FW: 火山奇景". The message body contains the following text:

----- Forwarded message -----
From: 封杰 <feng_jie@bankcomm.com>
Date: 2007-3-21 下午3:19
Subject: FW: 火山奇景
To:

Below the text is an icon for a PowerPoint file named "火山奇景.ppt".

Overlaid on the right side of the window is the "Regional and Language Options" dialog box. It has three tabs: "Regional Options", "Languages", and "Advanced". The "Regional Options" tab is active, showing the following settings:

- Standards and formats:** A dropdown menu is set to "Chinese (Hong Kong S.A.R.)" with a "Customize..." button next to it. Below this, a section titled "Samples" shows: Number: 123,456,789.00; Currency: HK\$123,456,789.00; Time: 17:15:18; Short date: 2/4/2007; Long date: Monday, 2 April, 2007.
- Location:** A section with the text "To help services provide you with local information, such as news and weather, select your present location:" and a dropdown menu set to "China".

At the bottom of the dialog box are "OK", "Cancel", and "Apply" buttons. The status bar at the bottom of the Lotus Notes window shows "8 unread document(s) remaining" and "Office".



Design Philosophy

- Target audience has CLI and scripting expertise on Windows and UNIX, plus Lotus Notes and Comms Suite admin expertise—there are no training wheels
- Powerful command line primitives intended for use in scripted, automated processes
- Flexible XML based output definition, user-definable attribute mapping, and data conversion rules
- Toolkit to enable the main steps in the migration process



Design Philosophy

- File-centric approach:
 - Fastest approach
 - Highly scalable
 - Flexible in terms of how data are transported to target hosts
 - Straightforward to troubleshoot—files don't lie
 - Allows convenient post processing of data
 - No dependency on network performance or accessibility
 - No dependency on having running Domino servers
 - Proven approach used in previous successful tools

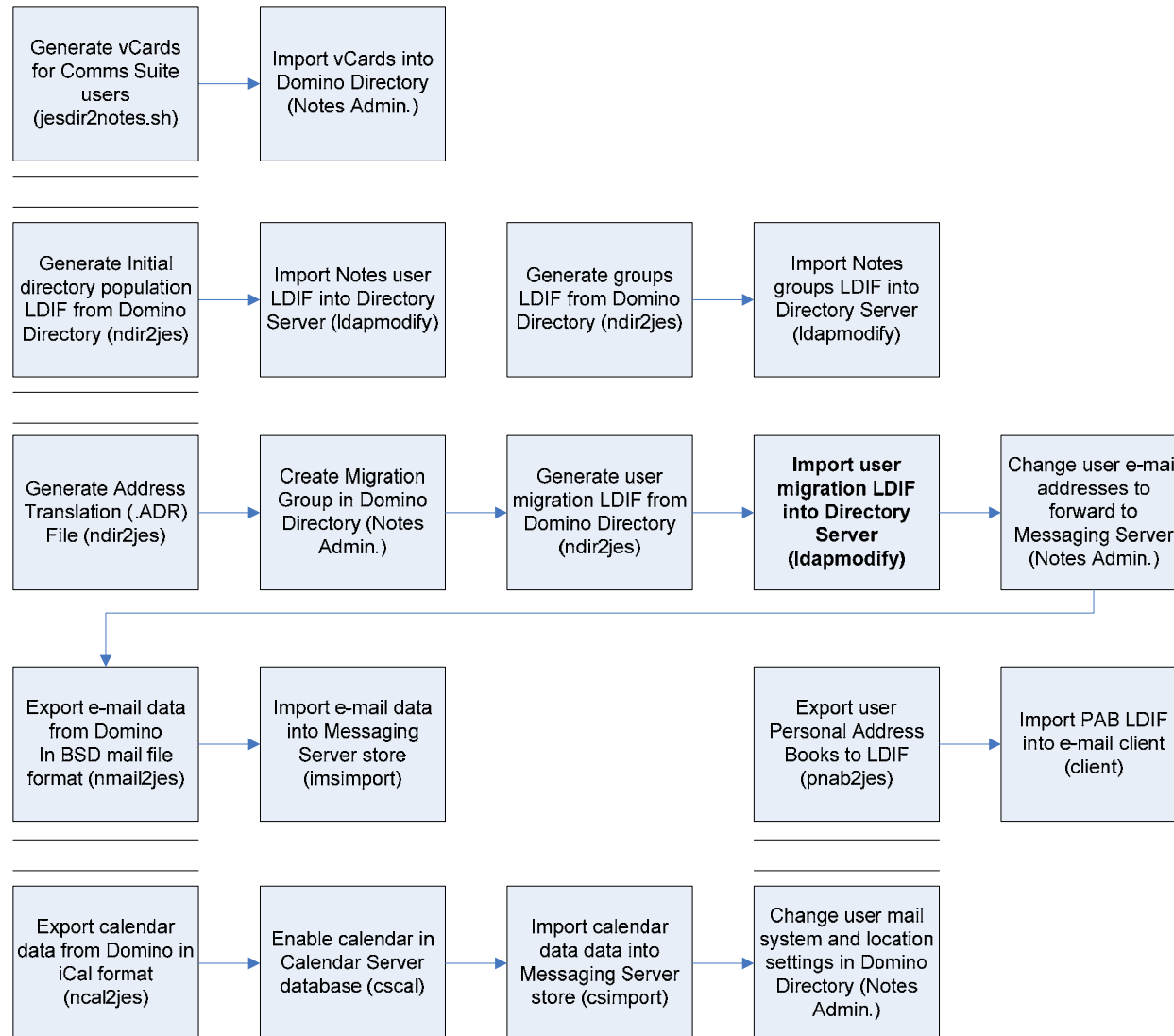


Technical Migration Process

- Understand requirements, sources and targets
- Define what, when, how users will be migrated
- Define order of operations
 1. Enable JES mailboxes
 2. Initiate mail forwarding, disable user logins
 3. Extract data from source repositories
 4. Insert data into target repositories
 5. Finalize changes to user information
- Configure tools, assemble and test solution
- Enable coexistence (exchange directory data)
- Perform a pilot migration



Example Process Flow





Best Practices

- Lotus Notes Applications
 - Custom tools
 - Database integration
- Requirements and expectations
 - Sources and targets (e-mail versus calendar, tasks, e-mail archive files, personal address books, etc.)
 - Migration versus synchronization
 - End user impact (support and training)
- Understanding of customer's existing system
 - Mail routing
 - E-mail archiving



Best Practices

- Performance and reliability of existing system
 - Domino servers (Use a dedicated migration server!)
 - Network
- Integrity of source data
 - Anomalies related to multiple upgrades or legacy e-mail gateways
- Gating factors for project timelines
 - Logistics for distributed servers
 - Client deployment
 - End user support



Q&A

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