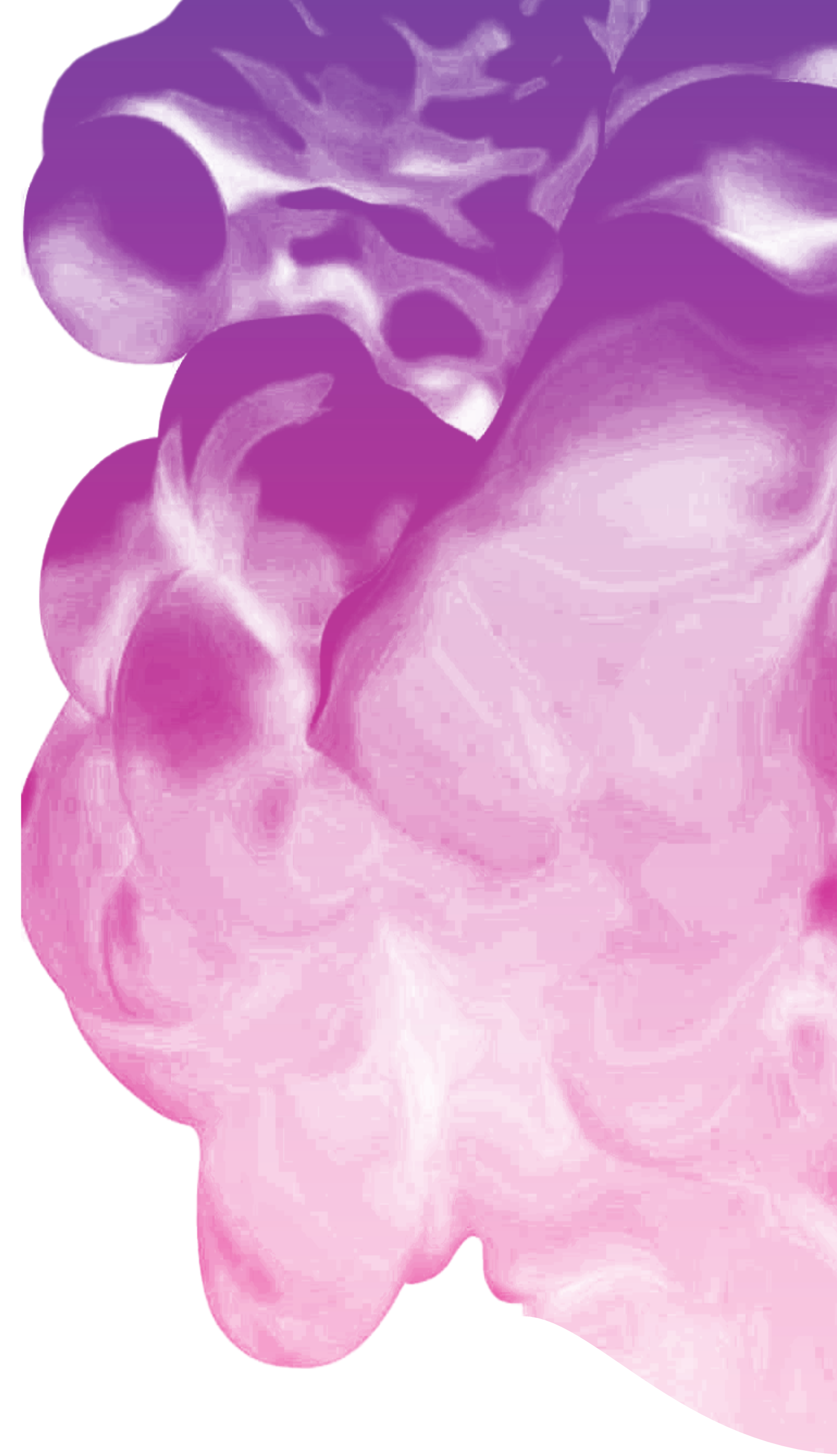


Importing Large Sets of Content from Trusted Partners into your Repository

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Manager, IT Applications
Solvay Pharmaceuticals

Jes Wills
Content Migration Practice Manager
ArgonDigital



Moving Mountains

Agenda

- Introductions
- Environment
- Challenge
- Solution Approach
- Solution - ArgonDigital



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Introductions

- **Solvay Pharmaceuticals**

- International pharmaceutical group, part of Solvay S.A. a 143 year old Belgium-based Pharmaceutical and Chemical company
- Represented in 50 countries with almost 30,000 employees

- **ArgonDigital**

- Exclusively focused on ECM since 1999.
- Content Migration, WCM and Custom ECM Practices and Information Access.
- Recognized Documentum Expertise.

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Goal of the Presentation

- Solving Real World business problems
- Leveraging common and existing tools
- Creating solutions to present a low barrier to entry
- Performing movement in a controlled manner

Moving Mountains Environment

- Single Global Docbase (SOLID)
- Located in Brussels
- >750,000 documents and 750 GB
- 4i Docbase with FCG FirstDoc Compliance Layer
- Accessed from 11 sites in 5 languages
- Partners are located around the world



Moving Mountains Process

- Docbase is used to create Regulatory Submissions
- Content comes from studies generated all over the world
- Internal and External sources
- Typical large submissions are over 1 million pages of paper (200 cases of paper or 10 pallets of paper)

Moving Mountains Challenge

- Solvay has many trusted external partners, content needs to be entered quickly
- External partners are responsible for about 30%-40% of our content
- Attributes are highly repetitive
- Not feasible to give all of our partners access to our docbase
- Content for studies were not verified until the creation of the submission – Too Late!

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Solution Approach

- Leverage Current Tools to meet business need
 - DIXI – Migration Product
 - Office Products – low barrier to acceptance
- Create a tool with no client installation
- Create a tool that didn't require the end user to have access to the docbase
- Create a tool with robust error handling, reporting and audit trail
- Minimal impact to current processes
- Provide some configuration to the end user
 - Reports, notifications, instant execute

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An observation ...

This collaboration between Solvay and ArgonDigital was not a classic content migration. However, we were able to make use of technology that had been previously developed for a content migration. This lateral thinking allowed us to demonstrate:

- Flexible design
- Component reuse

These benefits combined to reduce the development time and cost.

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Goals

- To simplify the process of getting data from the partner and into the system (SOLID).
- To construct a flexible system that could be used in many different environments, to solve many different problems.
- To provide end-to-end consistency checking.

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Challenges & Solutions

Adoption Challenges

- Keep the requirements for training to a minimum
- Make as few requirements of the partner system as possible
- Make administration simple
- Keep things flexible



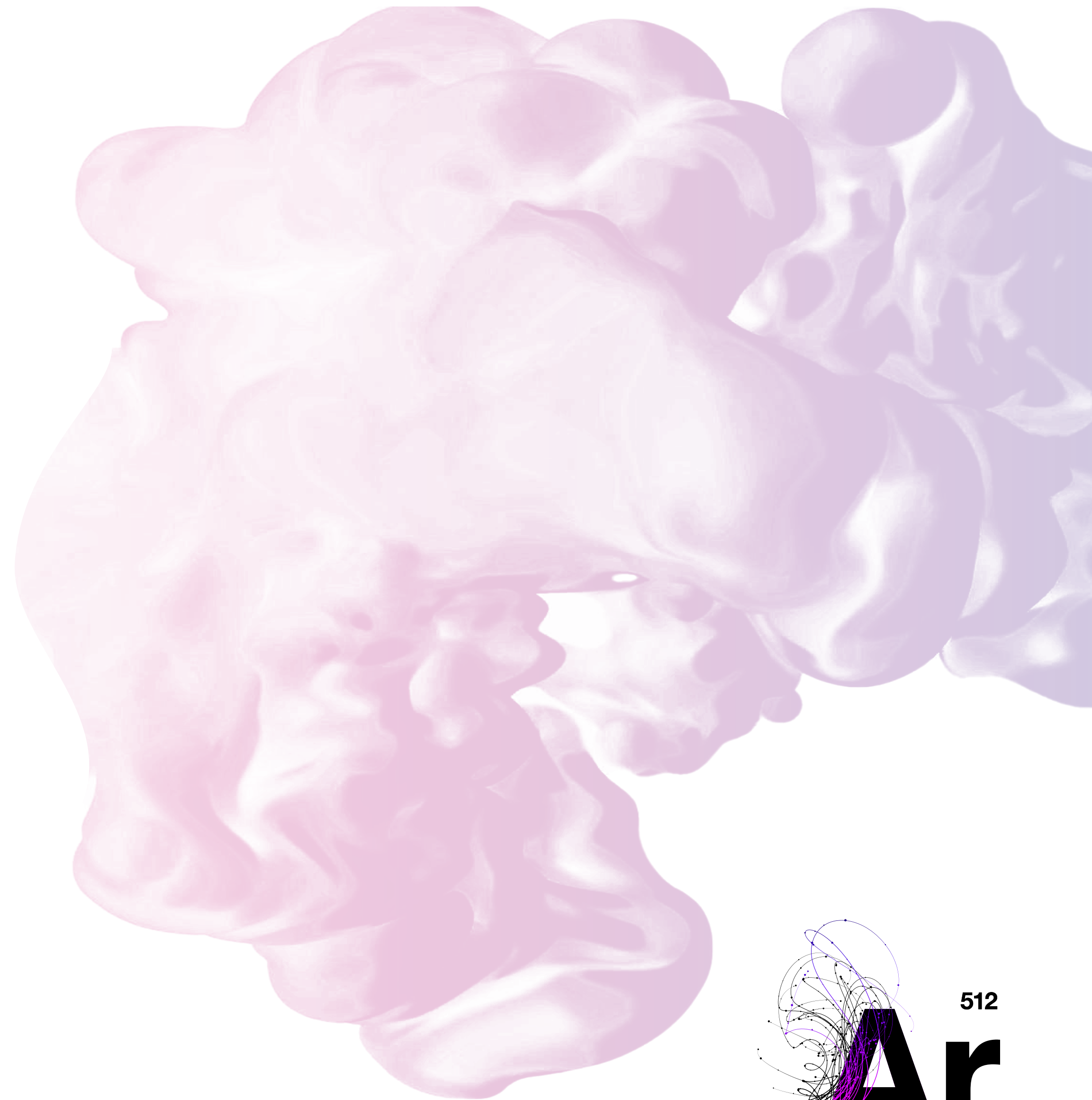
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Challenges & Solutions

Adoption Challenge: minimize training

Solution: use familiar technology

In this case we used an excel spreadsheet



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Challenges & Solutions

	A	B	C	D	E	F	G	H	I	J	K
6		Document Lifecycle	Record								
7		Language	English								
8		Owning Department	Quintiles								
9		Abbreviated Title	<Rule:AbTitle>								
10		Product	0133								
11		Legacy Document Number	Partner XChange								
12		Document Status	Approved								
13		Year of Creation	<Rule:Year>								
14		Restricted Flag	Restricted								
15		Author(s)	Marietta Author 40								
16		Owning Country	Global								
17		Owning Site	Clinical								
18											
19		Data									
20		Title	Issue Date	Named Reviewers	Named Approvers	Advisor Name	Filename	Ready for Import	SOLID		
21		Advisor Contracts Title 1	2/5/2006	mar_rv45	mar_ap45	D. Szweda	file1.pdf	X			
22											

Document Class

Per-file values

Fixed Values

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Challenges & Solutions

Adoption Challenge: minimize training

Solution: use familiar technology

In this case we used email for notification



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Challenges & Solutions

A sample email from Partner XChange

Imported:

Date: 2-mei-2006 19:02:54
Spreadsheet: C:\BlueFish_PartnerXchange\20060428_1535\pipeline\test\partner_test_data_solway.xls
Spreadsheet Version: 0,17
Content Sub Folder: \Burse
Product: 0133
Study #: S154.1.011
Import ID: 4078
Total Time: 1 minute 54 seconds

Errors:

Missing Files:

File Name
missing.xls

Duplicate Entries:

File Name
duplicate.doc

Data Validation:

File Name	Error
file1.xxx	Unsupported file format

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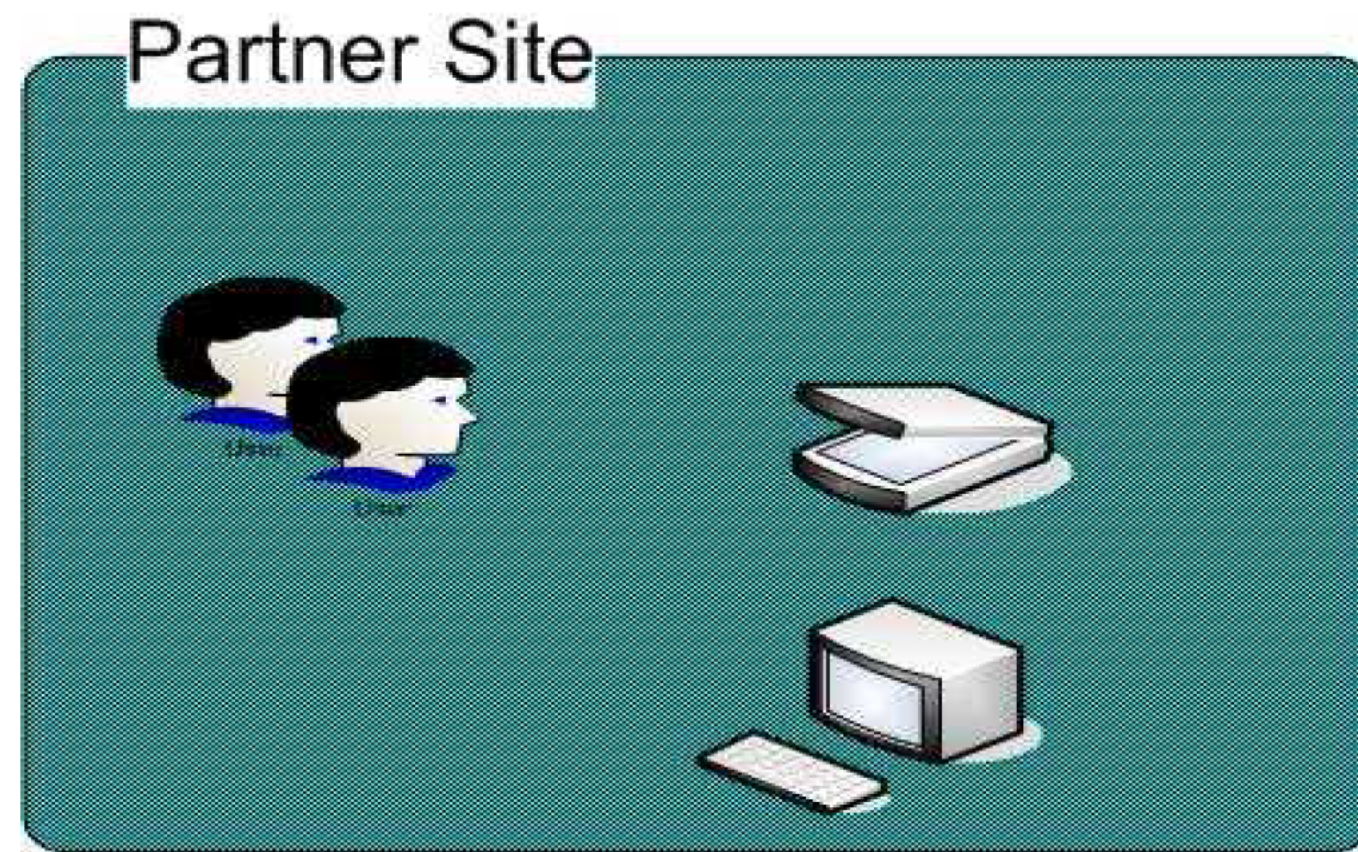
Challenges & Solutions

Adoption Challenge: minimize partner requirements

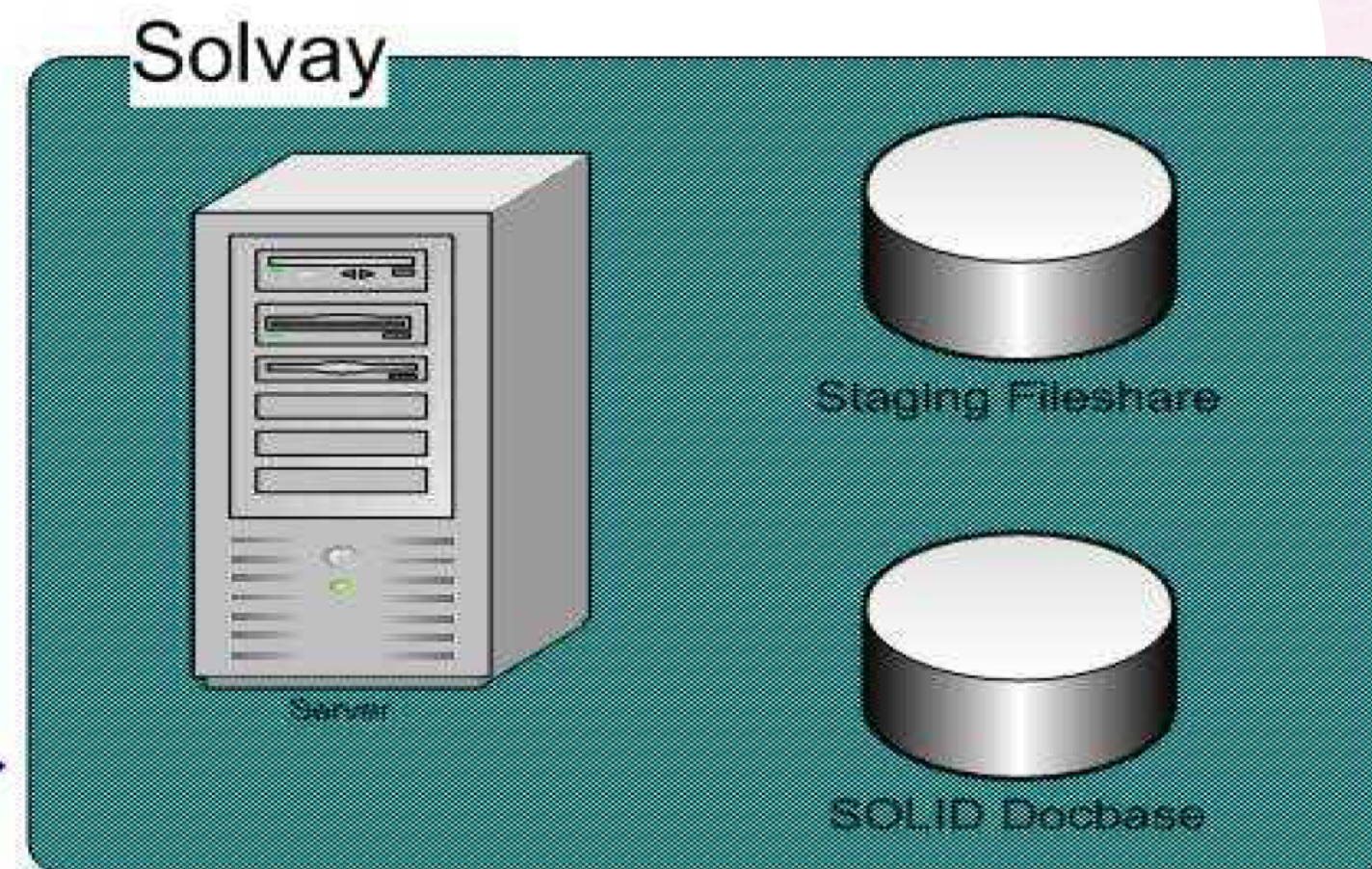
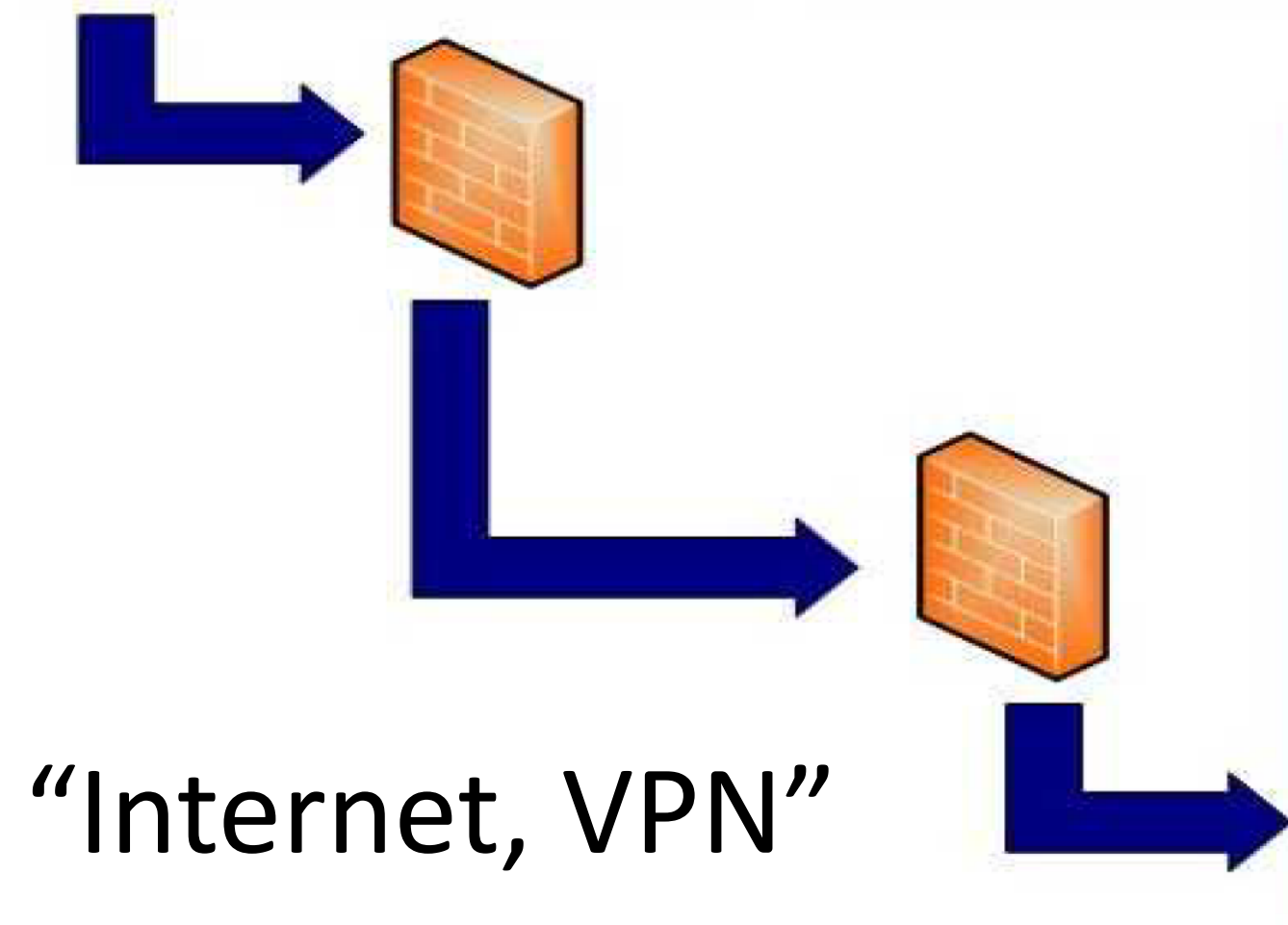
Solution: don't require any installation at the Partner site



Moving Mountains Challenges & Solutions



No Partner XChange software installed at the Partner Site. Neither the Partner nor Solvay need compromise their firewall.



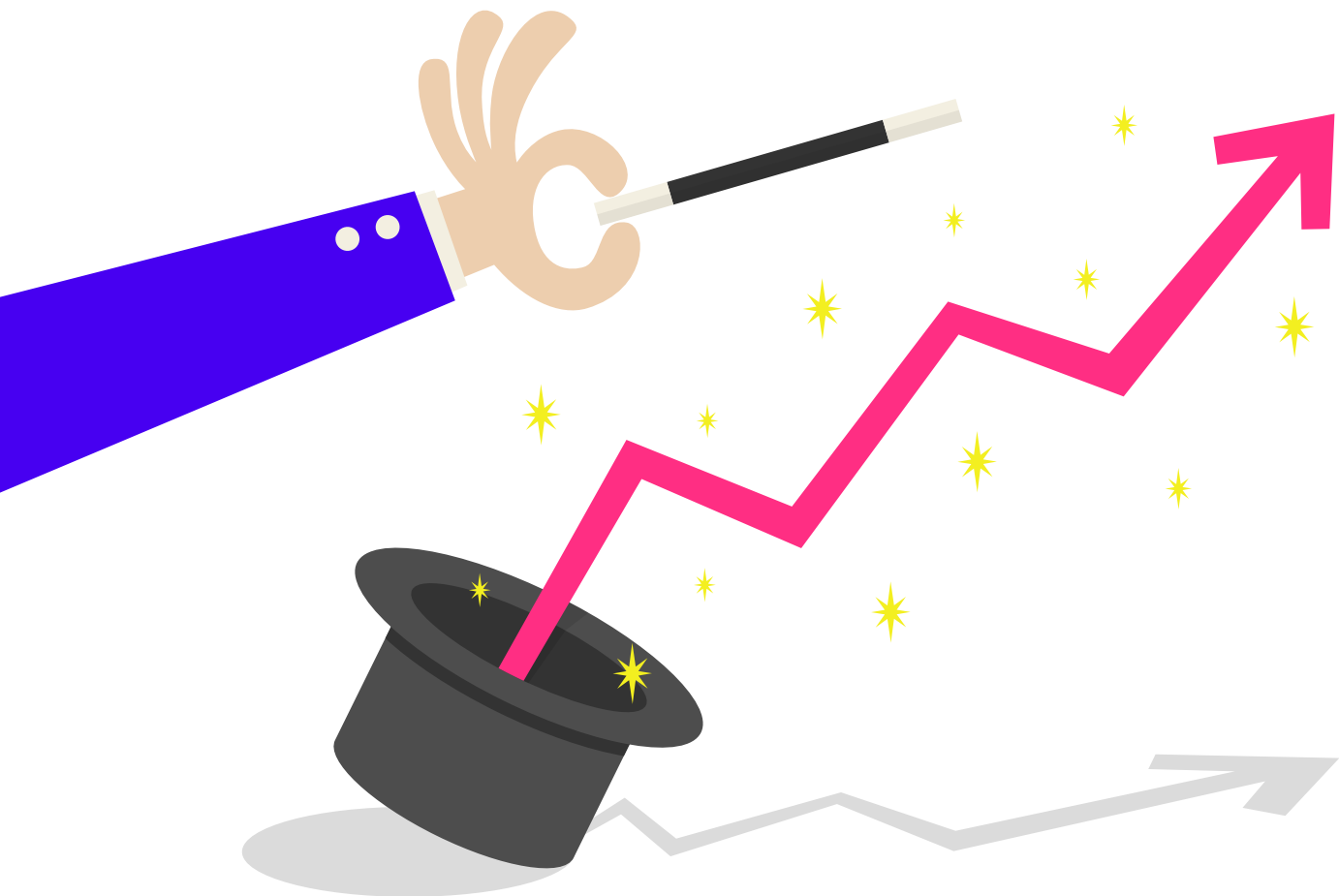
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Challenges & Solutions

Adoption Challenge: – make administration simple

Solution: make common tasks easy

- use templates
- enter data values once
- keep configuration in a single location



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Challenges & Solutions

Process Challenges

- Streamline the overall process
- Ensure accuracy
- Keep things flexible



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Challenges & Solutions

Process Challenges: – streamline the overall process

Solution:

- Keep it simple
 - o User scans document onto file share
 - o User enters the scanned filename and any other information into the project spreadsheet
 - o User saves project spreadsheet



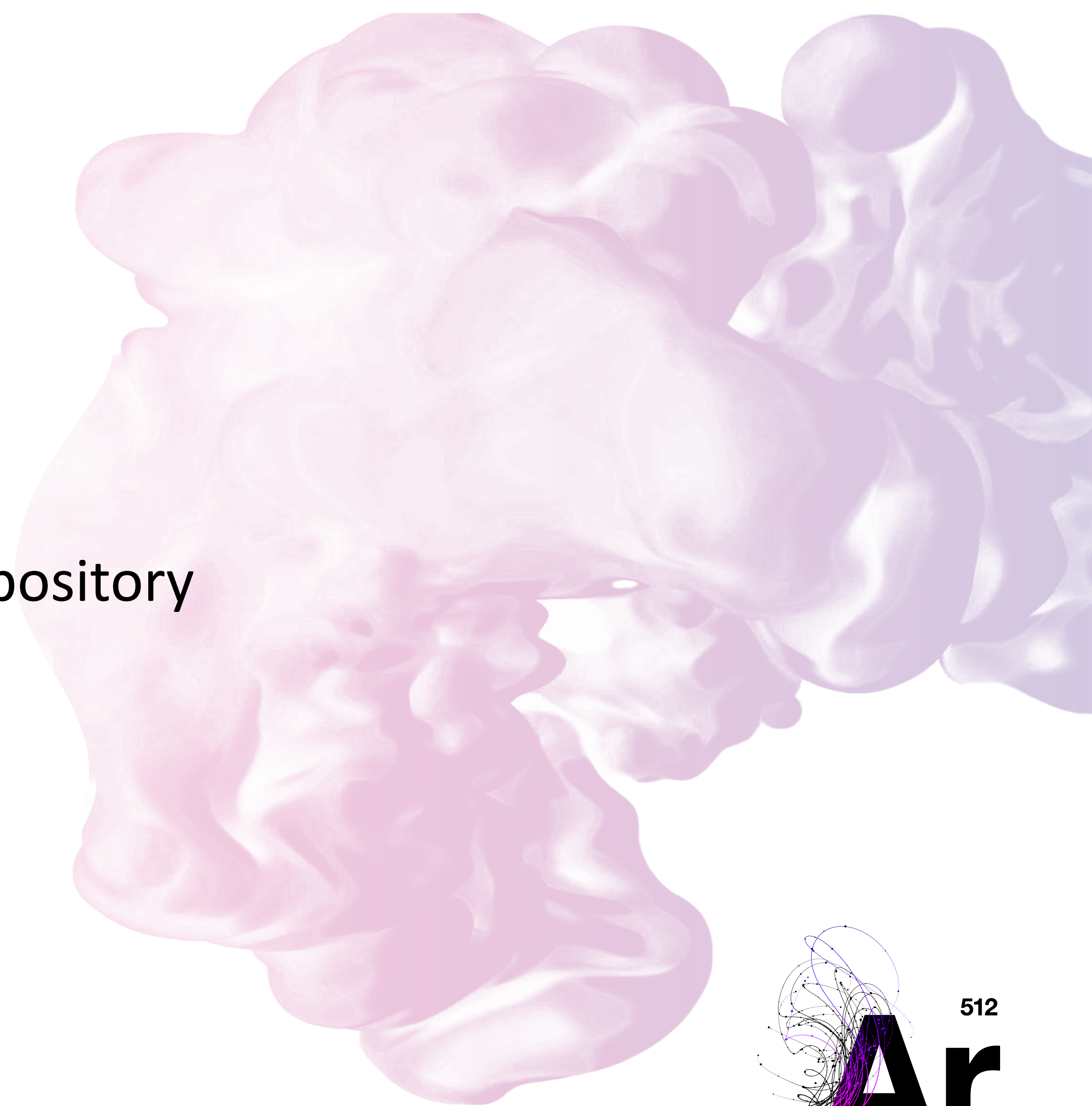
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Challenges & Solutions

Process Challenges: – ensure accuracy

Solution:

- Keep data entry to a minimum
- Validate data entry before accessing the repository



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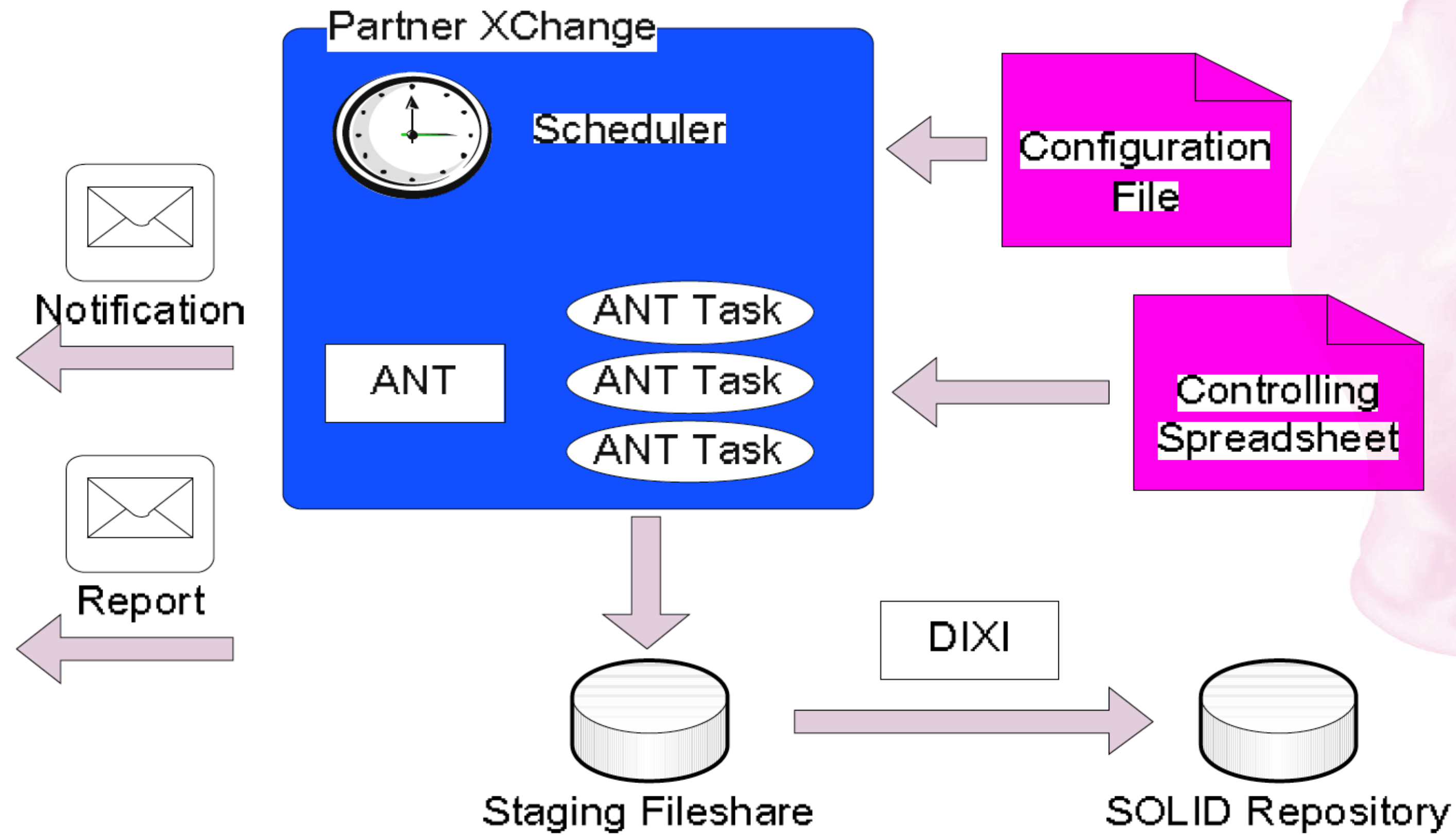
Technical Details

The major components of the solution:

- Scheduling
- Process Control
- DIXI
- Validation and Verification
- Notification
- Report Generation
- Spreadsheet updates



Moving Mountains System Architecture



Moving Mountains

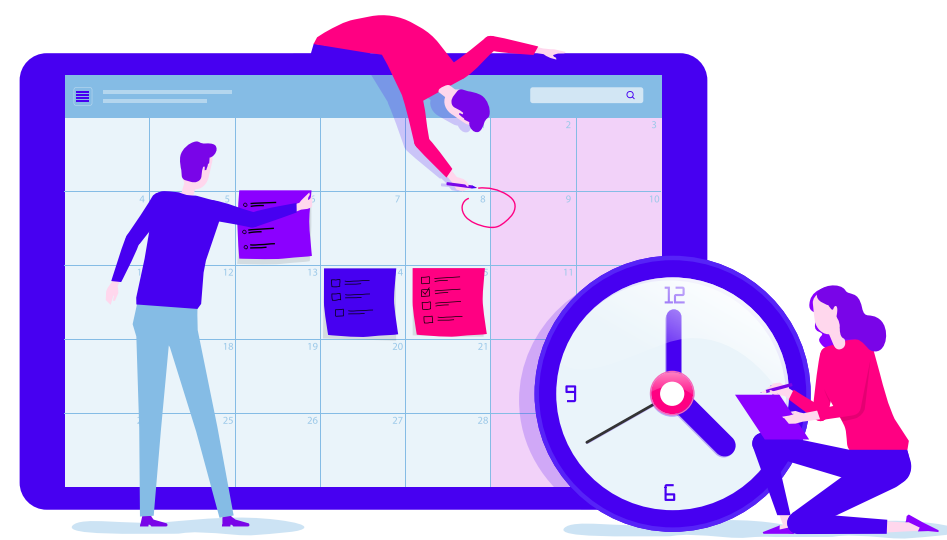
Technical Details

Import Scheduling:

The import schedule for a project is set up by an administrator according to the volume of content associated with the project.

Both timing – 3:30 am – and periodicity – every Friday, may be specified.

The system also supports an ‘immediate’ request for processing of a project ‘right now’.



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Technical Details

ANT:

The processing sequence for Partner XChange requires a controlling framework. ANT, an open-source build management utility, provided the right kind of facilities for the application.

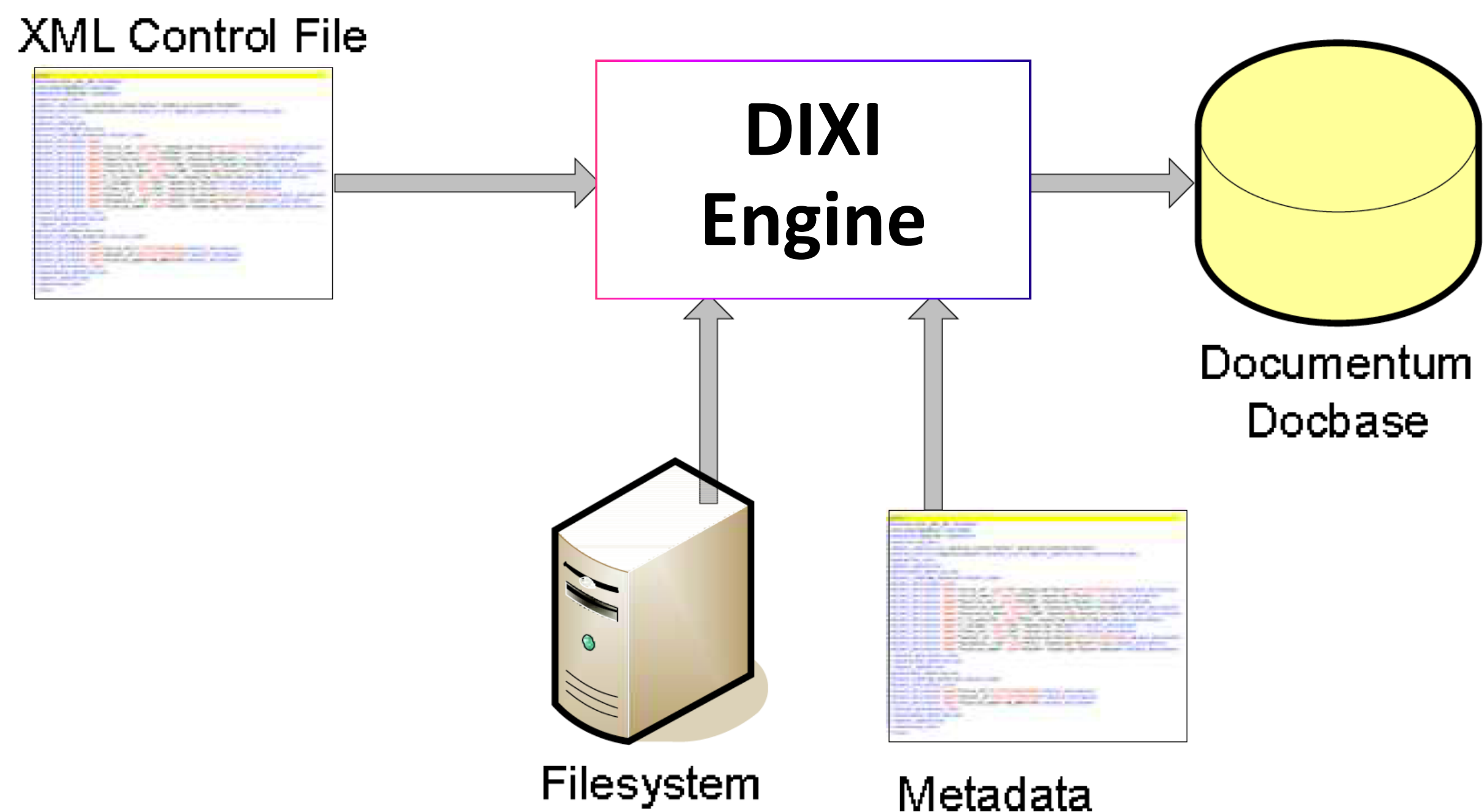
The individual tasks include:

- Extract and Validate the spreadsheet
- Generate a DIXI import control file
- Generate a DIXI validation control file
- Send Import Results Notification

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Technical Details

DIXI – the ArgonDigital Migration Suite:



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Technical Details

Verification and Validation:

Attribute values are checked against the repository dictionary prior to importing the content objects.

Attempts to import the same content more than once are detected.

All imported objects are verified to ensure that SOLID has correctly incorporated them.



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Technical Details

Notification:

E-mail is used as the notification mechanism. Each project has a set of addressees configured for the various events that can occur during the lifetime of a project.

For example:

- Successful import
- Failed import
- Weekly digest of activity



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Technical Details

Report Generation:

- Immediate and digest form
- Different reports for users, administrators and managers
- Reports are distributed via e-mail.



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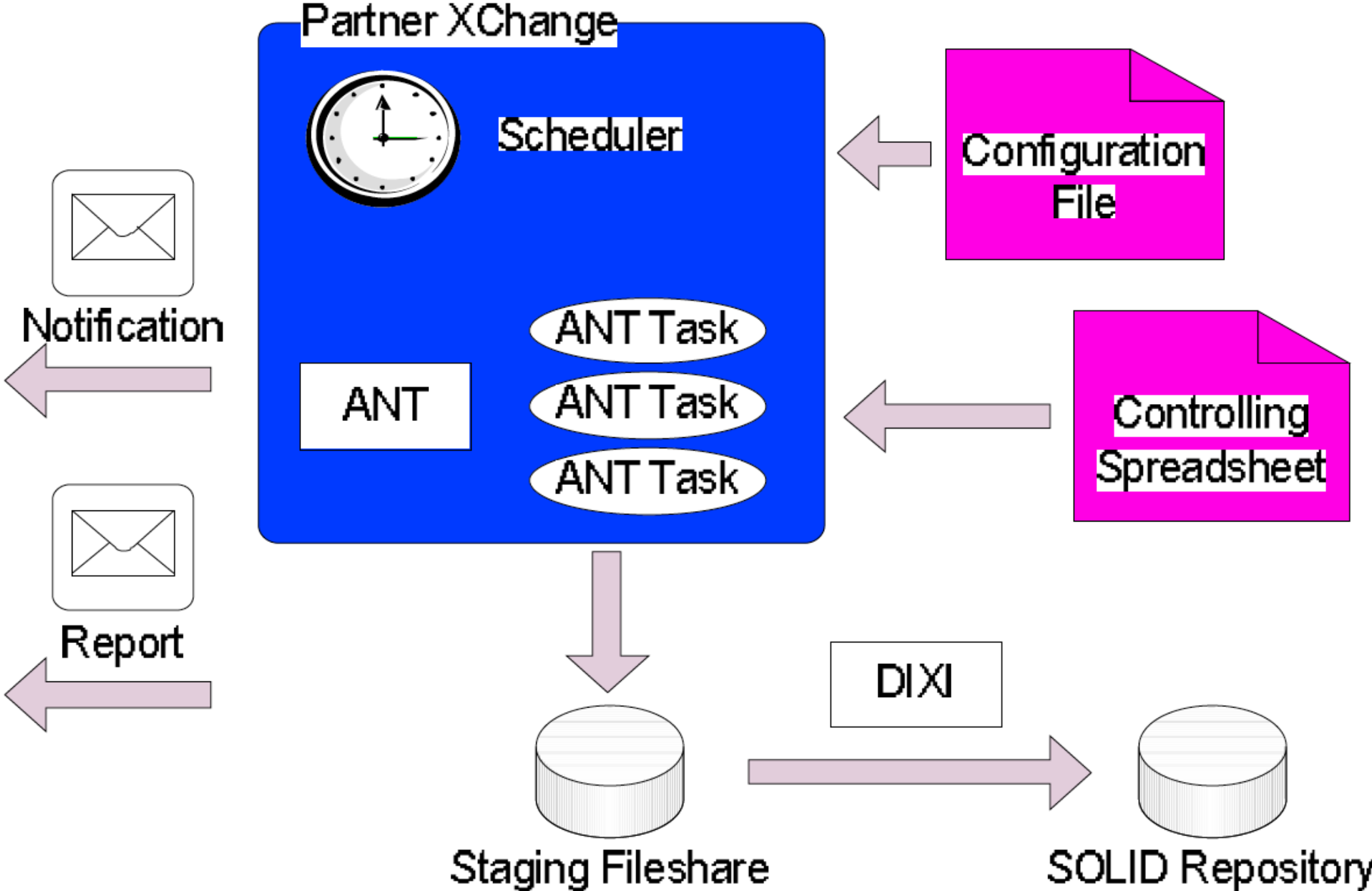
Technical Details

Updates:

- These are received by the user via email and automatically incorporated into the spreadsheet. A macro updates each record with the SOLID number – the number assigned to the document by SOLID. This provides traceability back from the repository to the original documents.
- The completed project spreadsheet provides end-to-end traceability for all documents and allows un-imported documents to be detected.

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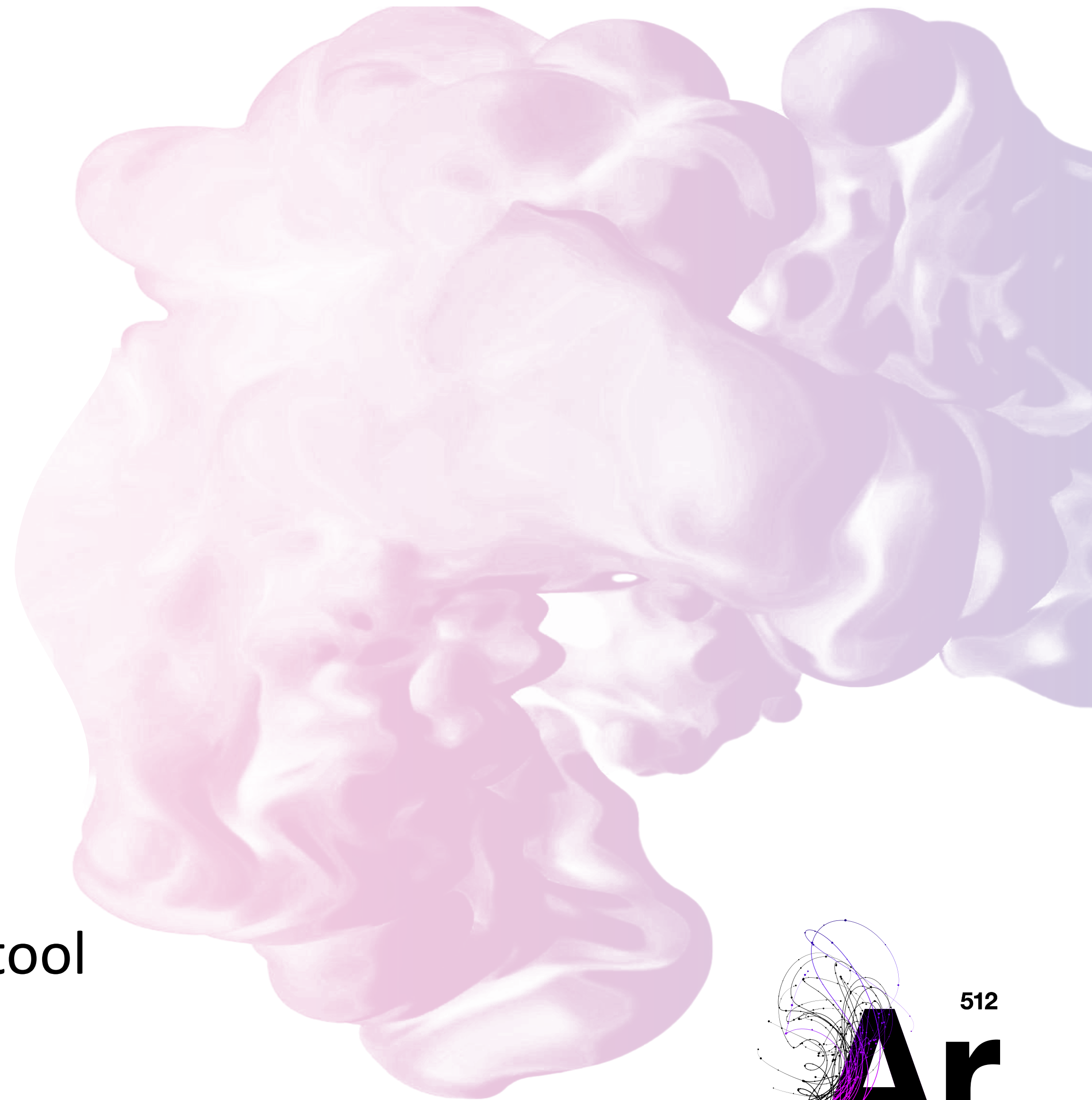
System Architecture - reprise



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Lessons Learned

- Small Investment had Big Rewards
 - On Time
 - Good Acceptance
- Leveraging Existing Tools:
 - Reduced Training Needs
 - Decreased the Cost of the Project
 - Increased the Acceptability of the Project
- Thinking “outside the box” was a success:
 - Migration Tool could be used as an import tool



Moving Mountains Future

- Leverage the Tool to import purchased products
- IM and SMS Notifications
- Web Based Excel

Moving Mountains Questions

