



dn:Director solutions: Real-time (SOA) Deployment

Operating in batch mode, dn:Director applications offer powerful data profiling, matching, de-duplication, validation, standardisation, screening, transformation and enrichment, delivering fit-for-purpose data to business applications across the enterprise.

The same rules and configurations to both data quality improvement and compliance screening can be applied in real-time, delivering on-going data protection and instant screening results from your dn:Director deployment.

From Batch to Real-time

Moving your data quality or screening processing from batch mode to real-time doesn't present technical problems, thanks to dn:Director's operational design and inherent flexibility.

All dn:Director's processing of data is independent of the physical source of the data - whether it's a database, a flat file, a web service etc - so switching to real-time starts with a simple reconfiguration of the Reader and Writer processes (see fig. 1).

Dependent upon your business process and the data that you are working with, you then have one of three main options:

1) Real-time validation and standardisation

Wherever data is entered into your business application, there is the potential for degradation of the data as a whole, through incomplete, inconsistent, inaccurate or inappropriate data entry. Using

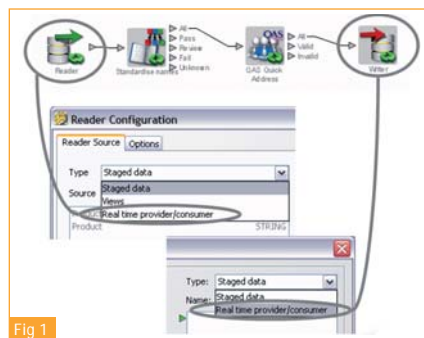


Fig 1: To switch to Real Time mode, simply reconfigure the Reader and Writer settings to real time mode in the dn:Director process workflow.

dn:Director in real-time mode allows the new data to be validated against your business rules and, if necessary, standardised to ensure consistency, before the record is even entered into the application data set.

In addition, whenever data is updated or amended the same validation and standardisation rules can be applied to ensure the data underpinning all your business-critical applications is fit-for-purpose.

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Another benefit of running dn:Director in real time is that as your business evolves and your validation and standardisation requirements change, no amendments to the underlying business application are needed - simply reconfigure the rules in dn:Director.

2) Real-time linking/enhancement

In addition to checking the fitness-for-purpose of any new or amended record, it may also be important to check that record's constituent information against reference data sets, such as checking a new customer record against a Sanctions list (see fig.2).

In this scenario, the new applicant's data is entered into the system where dn:Director checks the record against pre-prepared (and regularly-updated) snapshots of the reference data sets.

In Client Screening, because fuzzy matching is necessary to ensure no sanctioned individuals or entities slip through the net, the matching process typically delivers both definite and possible matches to the user. It is the users themselves who determine how the system is then updated, either with a new record, or to merge or link the new data with an existing record.

3) Real-time duplicate prevention

When new data is entered into the business application, dn:Director can be used in real-time mode to intercept the new entry and interrogate the application's underlying database and perform a duplicate check.

Most importantly, when performing this duplicate check, dn:Director is not staging or copying the data from the source application - it is passing back and forth enquiries and results. This approach prevents any data replication and synchronisation issues that might result if cached data was used.

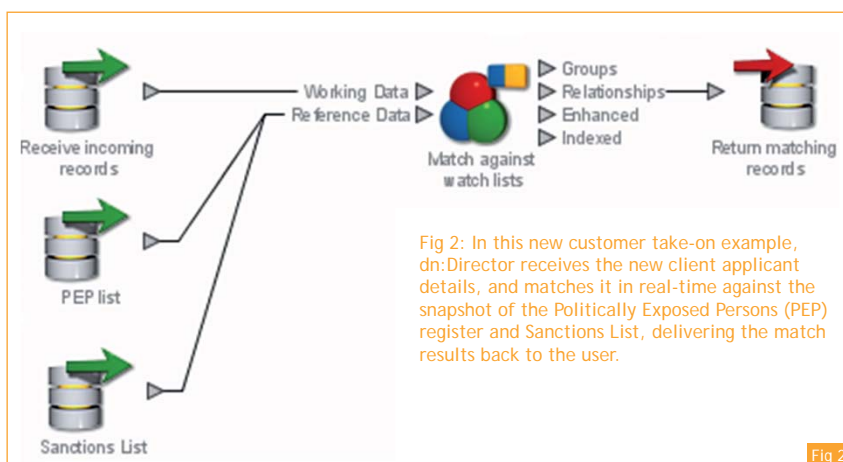


Fig 2: In this new customer take-on example, dn:Director receives the new client applicant details, and matches it in real-time against the snapshot of the Politically Exposed Persons (PEP) register and Sanctions List, delivering the match results back to the user.

Fig 2

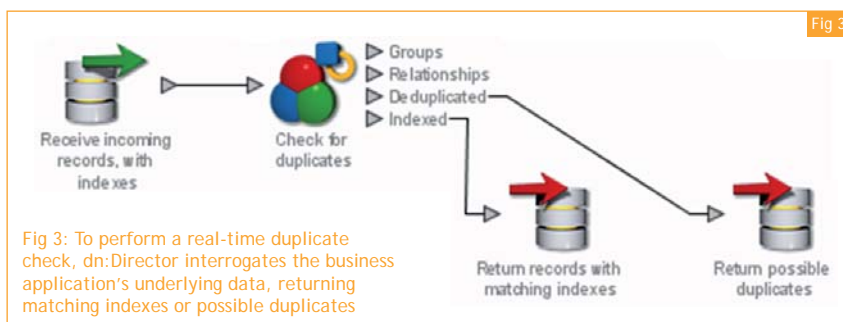


Fig 3: To perform a real-time duplicate check, dn:Director interrogates the business application's underlying data, returning matching indexes or possible duplicates

Fig 3

As with the screening example, the results are passed to the user, who then is able to decide how to update the system, either with a new record, or to merge or link the new data with an existing record.

Benefits of dn:Director in Real-Time Mode

In summary, operating dn:Director in real-time mode allows your data to be protected from degradation in advance of data entry, rather than retrospectively.

Using the same rules and configurations as your dn:Director batch-mode implementation, switching to real-time mode requires minimal configuration effort, and guarantees that your

rules are consistently applied, regardless of the source of the data.

Making amendments to your business rules is simple, as all configuration changes are made in dn:Director, with no re-working of the integration.

As a result, fit-for-purpose data throughout the enterprise becomes the norm.

For more information about using dn:Director in real-time mode, or to discuss how your organisation could benefit from improving the fitness-for-purpose of your business application data, call +44 (0)1223 228450 or email info@datanomic.com

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