

TraVer



Bill Verification using Danet's *TraVer*

Danet's *TraVer* Transaction Verification System supports automatic verification of electronic bills in order to improve customer satisfaction.

TraVer is completely rule driven and can easily be adapted to new requirements.

Higher Profitability through Improvement of Bill Presentment Quality

In times of stronger competition, weakening markets, delayed launches of new technologies and the general downturn in the economy, telecommunications service providers are suffering like all other industry sectors. The strategic priorities of a strong economy, when the main goal was to win significant market share, must now be paid for dearly.

In a start-up phase, billing and other IT environments are built under time pressure to allow speedy implementation and to present invoices quickly. Short term production is the main focus rather than long term development of the business.

With a growing customer base different issues arise: Customer Care must be honed and expanded and Call Centers need to be established and operated.

Afterwards, with the growing complexity of the service offering, further investment is necessary

to install or expand order management systems and all available resource is linked to this.

For end customers, invoices are the face of the company. Even if the invoice data is correct – erroneous layouts, zero amounts etc. are usually embarrassing to the providers.

Providers generally manage this by performing spot checks. However these are limited in scope and only address certain problems.

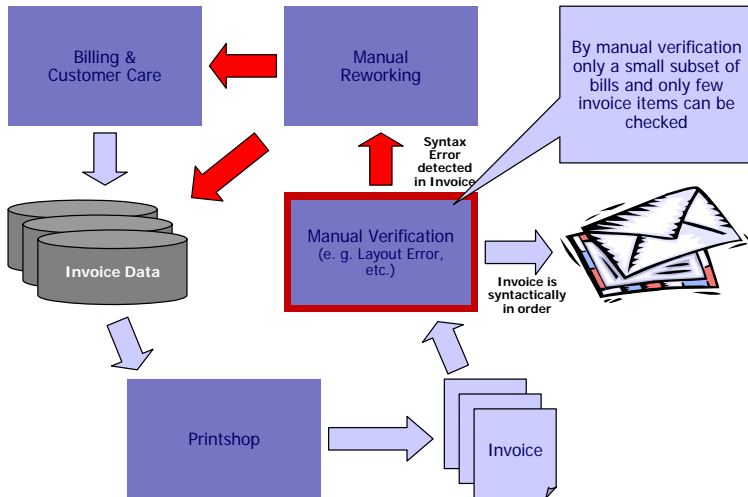
Bill Verification through *TraVer* automates these checks

The bill verification part of Danet's Transaction Verification tool *TraVer* allows operators to check electronic bills in a flexible manner. *TraVer* checks the electronic bills before printing which saves large additional printing costs.

Bills are checked automatically by *TraVer* for consistent layout, zero or minimum amounts, etc.. The automated check by *TraVer* also allows the complete verification of all invoices generated by the billrun, which improves the quality of the whole invoicing process.

Current Situation – Believe in Luck

Telecommunication providers usually perform invoice checks manually. To do this, bills are generated electronically and then processed by a



print shop. Spot checks are done on the printed version.

However, these manual spot checks have severe disadvantages. They generally cover only a small sample of invoices and at best only detect the most obvious errors. It is easy to detect layout problems but much more difficult to detect logical content errors.

After detecting an error, manual corrections must be made in the billing or the bill presentment system and the invoices must be printed again.

Further spot checks must then be made and, if errors are still detected, the whole process chain must start again.

Vision – Performing checks and corrections automatically

Manual checking can never give 100% verification coverage - automation is the only way to achieve this.

Automation also allows the scope of potential errors to be expanded: e. g. detection of zero, negative or minimum amounts, invoice inconsistencies, incorrect correlations, etc..

The same automated verification tool should also provide automated invoice correction facilities – at least for layout errors.

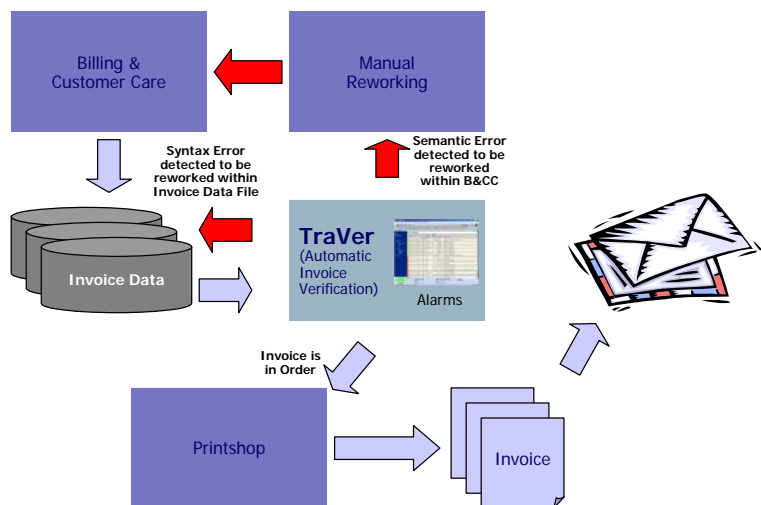
Danet's Solution – Bill Verification through *TraVer*

Danet's *TraVer* Transaction Verification System allows complete and flexible automation of the bill verification process.

TraVer handles all standard file formats including: XML, EDIFACT, ASN.1, etc.. *TraVer* can also be easily configured to handle any proprietary file format.

Verification of electronic invoices can be re-configured with simple rule changes. With this approach it is very simple to adapt existing verification steps, to add new ones or to discard obsolete steps.

After detecting errors, Danet's *TraVer* can trigger multiple actions such as alarms, invoice layout corrections, content corrections, etc.. These actions can also be activated or deactivated with simple reconfiguration.



Danet's *TraVer* Bill Verification Solution is available for all leading UNIX environments like SUN (Solaris), HP (HP-UX, Tru64), IPM (AIX) and Intel/AMD (Linux).

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