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## Unified network inventory ecosystem

Consolidate fragmented inventories into a single source of truth, and optimize processes such as network planning and design, and service assurance

## Credits

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Telecom companies have been seeking an integrated inventory strategy, which has historically been arduous to develop. Integrated inventory strategy provides an all-in-one dashboard with an in-depth view of the network, thus revolutionizing the way telecom assets are operated and maintained.

Integrated inventory strategies can be incredibly complex to develop and implement, discouraging most telcos from attempting them. Although there is growing demand for this strategy, the logistics involved pose an impenetrable barrier. However, the industry is changing radically. Consumers growing demand for quad-play, converged services and the recent M&A trends of CSP's have triggered the need for consolidation like never before.

In this insight on Network inventory consolidation(NIC), *Metasolv* is used as an example throughout. However any COTS based application can be considered for the NIC program using the mentioned accelerators & methodologies .

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# Three distinct scenarios to help CSPs evaluate the right kind of consolidation strategy



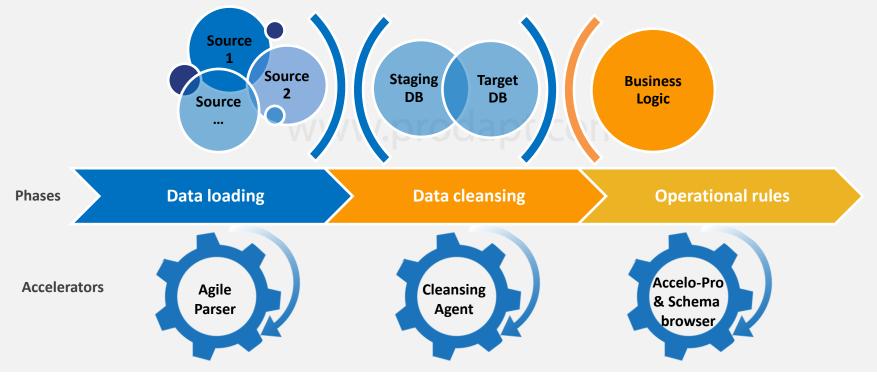






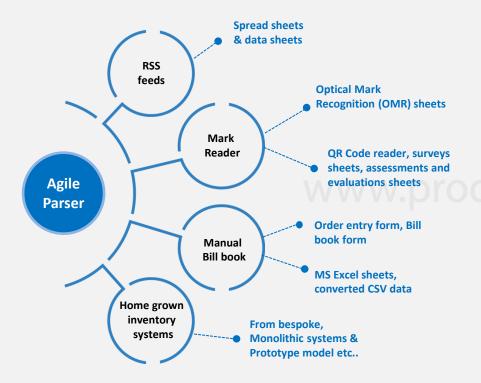
# Key accelerators to advance the major phases of Inventory consolidation

Following are the set of accelerators which helps in achieving network consolidation in lesser time frame. These accelerators are only applicable to scenario 1 & 2 of the consolidation strategy discussed in previous slide. Scenario 3 involves consolidated dashboard view with no changes in underlying inventory systems.





## Accelerators to expedite Inventory Consolidation – Agile parser



By using this generic parsing agent, various data feeds can be fetched from multiple sources like spread sheets, mark reader, bill book, data sheets and also from any other home grown inventory systems.

Correct/modify data entities at source & target side systems to normalize the data sets. For e.g. field level update at source system. It's not just combining attributes or unification of equipment's various parameters; it's all about normalizing the data.

### Key benefits of parser

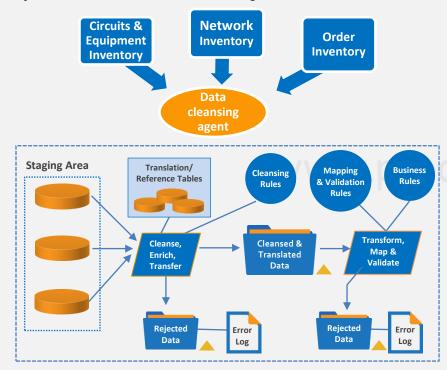


A generic parser with ability to read data from multiple domains in any format is key for accelerating inventory consolidation



## Accelerators to expedite Inventory Consolidation – Data cleansing agent

#### Major areas considered for data cleansing in Metasolv are shown below



As part of data clean up activity, data assessment activity will be performed. The assessment report contains data which violated predefined standards; With the help of audit reports & existing MetaSolv procedures, Data cleansing will be performed on the incorrect equipment associations.

### Cleansing agent helps in identifying,

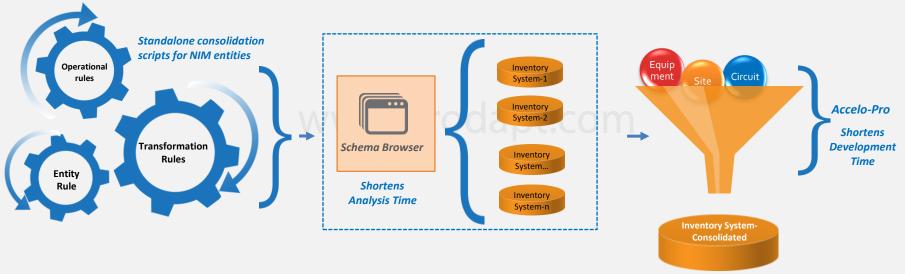
- Scenarios which has data discrepancy issues during status correction.
- Associations exists to cancelled or disconnected service
- Network template and network design mismatches
- Network components, equipment and circuits assigned under a Inactive Exchange or Network Location
- Identification of the working path for optical network.
- Shared components between multiple networks with different Topologies

Cleansing audit report helps in making cognitive decisions by Network planning & Engineering team & also supports in innovative business solutions.



## Accelerators to expedite Inventory Consolidation – Accelo-Pro

'Accelo-pro' is a tool majorly used during the migration of inventory data from one MetaSolv Solution (MSS) version to another MetaSolv Solution (MSS) version, however it can be enhanced to support non-MSS based tools with customization.



Key Accelerators : Schema Browser, Accelo-Pro, Reusable Consolidation Scripts(30% Faster Conversion)

#### **Schema Browser**

- Study the data & its relationship recursively

- Identifying master table dependencies by greatly reducing analyzing time

#### Accelo-Pro

- Decomposing elementary level DB & domain level objects
- Set of reusable scripts, specific for inventory migration
- In house development tool, takes less development time

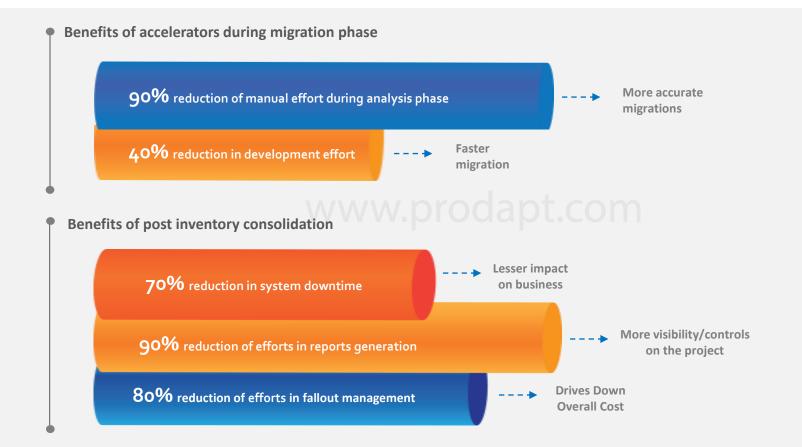


# Recommendations for efficient inventory consolidation exercise





## **Business & Operational Benefits**







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