SCSN

Nature of the Initiative	Foundation
Mission	To simplify data sharing and digitalization of manufacturing companies and their IT-suppliers with high-tech manufacturing supply chain.
Sector(s) addressed	Manufacturing
Leading organisation	TNO
Members (approx.)	400 manufacturing companies | 10 service providers |3 sector organizations | 2 knowledge institutes
Founded (Year)	2014
Web (URL)	https://smart-connected.nl/en
Social Media Presence	LinkedIn
Relevance for Industry 4.0	SCSN focuses specifically on supply chains in the manufacturing industry.

Key Information	Levels	Important Links
Data Space Technical Specifications	★ ★ ★ ★ ★	GitHub
Data Space Governance	★	https://smart-connected-supplier-network.gitbook.io/processmanual/deployment/openapi-data-app-usage
Data Space Demonstration	★	GITbook
Data Space Adoption	★ ★ ★ ★ ★	
Connected Initiatives	https://www.edi4steel.eu/	

Additional Information

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What is SCSN?

The addressed Challenge by The Smart Connected Supplier Network (SCSN) is to connect of manufacturing companies and their suppliers. It facilitates cross-factory communication and ensures interoperability in an open data ecosystem.

The success of these chains stands or falls on the sharing of large amounts of data. In respect to SMEs in particular, which play a central role in this chain, the receipt and transfer of data is not automated. This means that the data they receive from their customers must be read, interpreted and usually manually entered into their own ERP systems. This is often time consuming and prone to error.

Mission

The success of SCSN is to facilitate a data standard that makes information exchange in the supply chain more efficient, allowing companies to share data more easily, quickly and reliably. It has the next technical components:

- IDS Identity Provider (Certificate Authority, DAPS, ParIS)
- IDS Metadata Broker
- IDS Clearing House
- IDS Connectors
- Data Apps

Solutions & Key Assets

- SCSN solution: SSCSN simplifies data sharing within the chain because SCSN messages can be automatically processed in the ERP system of a connected company. There are also strict agreements in place on the semantics of the messages, so they can only be interpreted in one way.
- A company only needs to be registered once with an SCSN service provider, then share data with all other connected companies.

Benefits

- Fast, secure and interoperable data sharing within the high-tech supply chain between companies.
- Increased supplier chain productivity.
- Seamless scalable integrations for manufacturing companies for exchanging purchase-to-pay information across supply chains based on off-the-shelf integrations.
- Reduction in administrative burden, faster time-to-market, lower IT integration costs instantaneous access to a large group of suppliers.
- IT service providers only need a single integration, no custom connections anymore! IT service providers can build their own proposition around SCSN.

Roles & Members

The foundation has a directory for manufacturing companies joined to the network: SCSN Directory and a directory for the service providers: Service Providers and also for connectors. The SCSN Foundation consists of 2 bodies, the board and the supervisory board.

1. The Board
The board of the foundation consists of at least one member. The number of board members is determined by the supervisory board. The board members are appointed by the supervisory board. The board elects a chairman, a secretary and a treasurer from among its members. The various functions can also be fulfilled by one person. The board is in charge of managing the foundation and is responsible for defining its long-term ambitions, drawing up and implementing its annual plan and budget, approving important changes in the standard, coordinating and implementing daily activities, directing the support organisation, and forming and chairing working groups.

2. Supervisory Board
The foundation has a supervisory board consisting of at least four members who are elected biennially by stakeholders. The stakeholders are divided into 4 groups: Manufacturing companies; Service providers and software suppliers; Industry organisations; and Knowledge institutions. The aim is to appoint two members from each category of primary stakeholders, supplemented by a chairman from the board. The supervisory board is primarily responsible for

approving long-term ambitions, the annual plan and annual budget, and supervising the management of the foundation.

3. <u>Working Groups</u>

Alongside these formal bodies, the SCSN Foundation works with a support organisation and working groups. The support organisation is used for the technical support of, among other things, semantic standards and the infrastructure.

Working groups are formed on a project basis, e.g. to implement extensions or improvements. Working groups are the main medium by which member companies can contribute to developments and shape the future of the SCSN Foundation. Working groups are formed on a project basis in order to carry out, for example, expansions or improvements. Working groups are the main medium by which member companies can contribute to developments and shape the future of the SCSN Foundation. The most important objectives and working methods of the working groups are further explained in the internal regulations:

- ✓ A working group has a clearly defined subject and goal;
- ✓ A working group aims to formulate one or more proposals for change, which are then presented to the board for assessment;
- ✓ Working group meetings are announced in good time to all relevant people;
- ✓ All manufacturing companies, service providers & sector organisations involved can participate in a working group;
- ✓ A working group is disbanded when it has achieved its objective or by decision of the board.

The following working groups are currently active:

- Order: material treatments and additional services: The order form is amended to include the possibility of requesting additional services on standard items, for example: sawing of tubes, galvanising of metal sheets and requesting material certificates. This working group will expand the range of services supported within SCSN.
- Resilience: COVID-19 has made us realise that digitalisation is of enormous importance to the manufacturing industry: the loss of people and partners in supply chains due to quarantines and lock-downs has demonstrated how vulnerable collaborations are and has highlighted the need to be able to respond to changing supply and demand quickly. As a result, this working group was established to look at the resilience of supply chains.
- Communication & Marketing: SCSN is a fast-growing initiative, which in a few years has grown from a small group of companies to a large ecosystem of hundreds of parties. Communication and marketing are essential to support this rapid growth. Within this group, we are working on a communication plan, improving the website and involving social media channels, among other things.

How to join & participate in a working group

All member companies and service providers can submit proposals for additions or changes to the SCSN standard. Submitted proposals are evaluated and prioritised by the board. Proposed working groups are published via the internal newsletter, after which interested parties can apply to join the working group. After deciding to start a working group, the board decides on the group's final composition and appoints a chairman. Further communication to interested parties takes place via the internal newsletter.

After a working group has been disbanded, the results have normally become part of the SCSN standard and can be found at the usual place (i.e. GitBook/Semantic Treehouse).