



# xMCF in Siemens workflows

Where today meets tomorrow.

## Connections – full workflows

**Weldings and Properties** of weldings are important for

- Production (CAM) (Which machines do I need ?, how long does the welding process need ? Can I weld it ?)
- CAD (define the process data early!)
- CAE (Welds define the strength and durability, geometry and manufacturing has a high influence)

### Geometry and Process parameters

- Need to be defined early
- Are needed in CAE
- May be changed due to CAE
- Need to be transferred to CAM

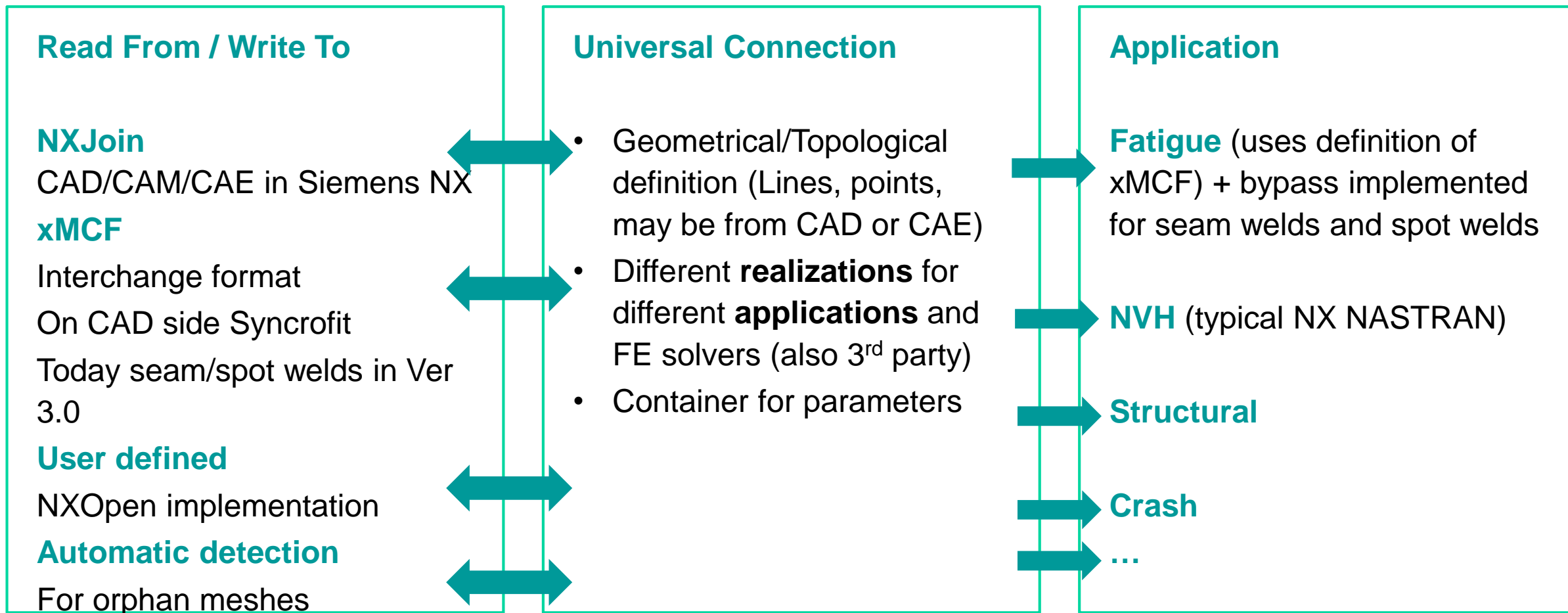
### Three solutions

#### Special workflows

- Support inhouse standards
- Fully integrated process in one software environment, keep track of geometry and welding parameters (Connect to NX)

#### Workflows in mixed environment

- Interchange format (**xMCF** for Auto should get ISO)



## Investment in xMCF (and connections) – for Siemens Simcenter3D

**Implement import/export of current xMCF format** **2018/2019**

**Improve workflows** **2020**

switch between xMCF definition of weld position (vector) and universal connection (topological) incl visualization

**Improve infrastructure** **2021/2022**

Parameters (CAM/Fatigue etc.)

**Further improve workflows + more connection types** **2022 +**