



INTERNATIONAL SPECIFICATION FOR MATERIEL MANAGEMENT

SPEC 2000M

INTEGRATED DATA PROCESSING FOR MILITARY EQUIPMENT

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1. SPEC 2000M an overview

2. Defined and supported procedures

3. Out look into the future

PURPOSE

- ▶ *harmonize the business processes*
- ▶ *standardize the electronic communication between aerospace industry and military customer.*

SCOPE

- ▶ *cover all Materiel Management activities in support of military Products.*
- ▶ *describe the interfaces between Industry and Customer for the Logistic Materiel Management.*

Goal

- ▶ *cut processing cost tremendously*
- ▶ *simplifying the handling of business data within the supply chain between the manufacturing/maintenance companies, industry consortia and customers from the public sector.*

Who is using SPEC 2000M?



E. g. the international EuroFighters (EF 2000) project of the nations United Kingdom, Germany, Italy and Spain. They signed a *Memorandum of Understanding*, to run all future multinational projects by SPEC 2000 M.

International

SPEC 2000M is used throughout Europe, USA, Canada, Australia and South Africa by well-known industry consortia, aerospace manufacturers/maintenance companies and customers from the public sector.

Industry consortia:

Eurofighter, Panavia, Eurocopter, ...

Manufacturers:

Dassault, BAE, Rolls-Royce, Westland, Lockheed, CASA, Agusta, SNECMA, ...

Customers from the public sector:

Ministries of Defence in France, Germany, Italy, Spain, UK, ...

In addition SPEC 2000M was selected by NATO as a source specification for the Acquisition Logistics Model process

1. SPEC 2000M an overview

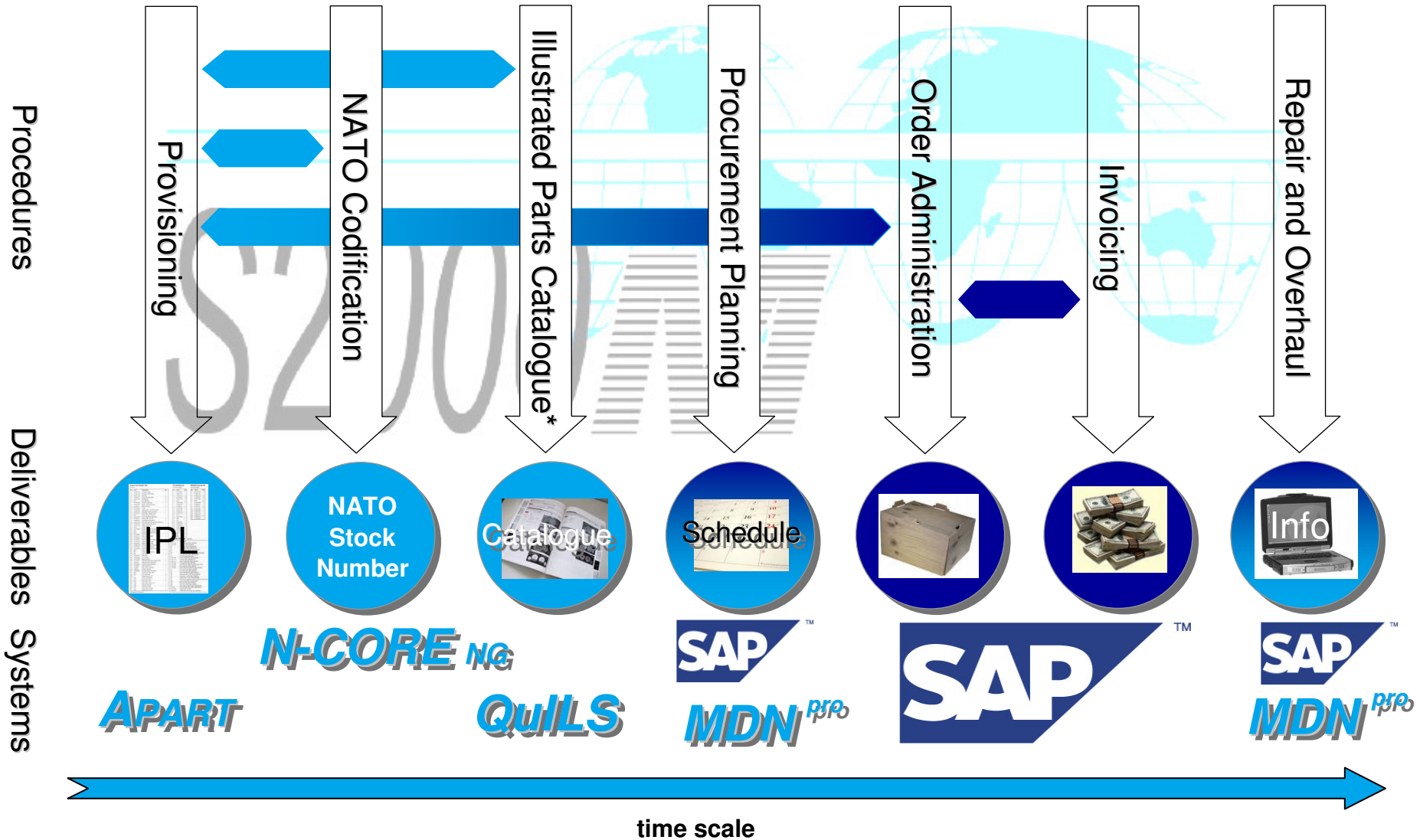
2. Defined and supported procedures

3. Out look into the future



SPEC 2000M

Procedures, Deliverables, Systems



APART	N-CORE ^{NG}	QuILS	MDN ^{pro}
<p>Supports</p> <ul style="list-style-type: none">▶ S2000M with<ul style="list-style-type: none">▶ Initial Provisioning▶ Creation of codification request for NATO Codification▶ Creation of Data for Illustrated Parts Catalogue	<p>Supports</p> <ul style="list-style-type: none">▶ NATO Codification with<ul style="list-style-type: none">▶ Maintenance of NSN▶ Processing of Codification requests▶ all other processes laid down in the ACodP-1▶ ISO 22745 with<ul style="list-style-type: none">▶ Import, export and processing of q-,r- and i-XML files▶ full integration into codification process▶ Module for NCB and supplier/ manufacturer▶ S2000M with<ul style="list-style-type: none">▶ Import and processing of requests▶ Export of codification results	<p>Supports</p> <ul style="list-style-type: none">▶ Illustrated Parts Catalogue with<ul style="list-style-type: none">▶ Creation▶ Publication▶ Retrieval	<p>Supports</p> <ul style="list-style-type: none">▶ Process control▶ Requirements management▶ Information services▶ Workflow requirement planning▶ Due-in/ Due-out control▶ Consumables stock management▶ Data management▶ Repairable parts stock management

System landscape



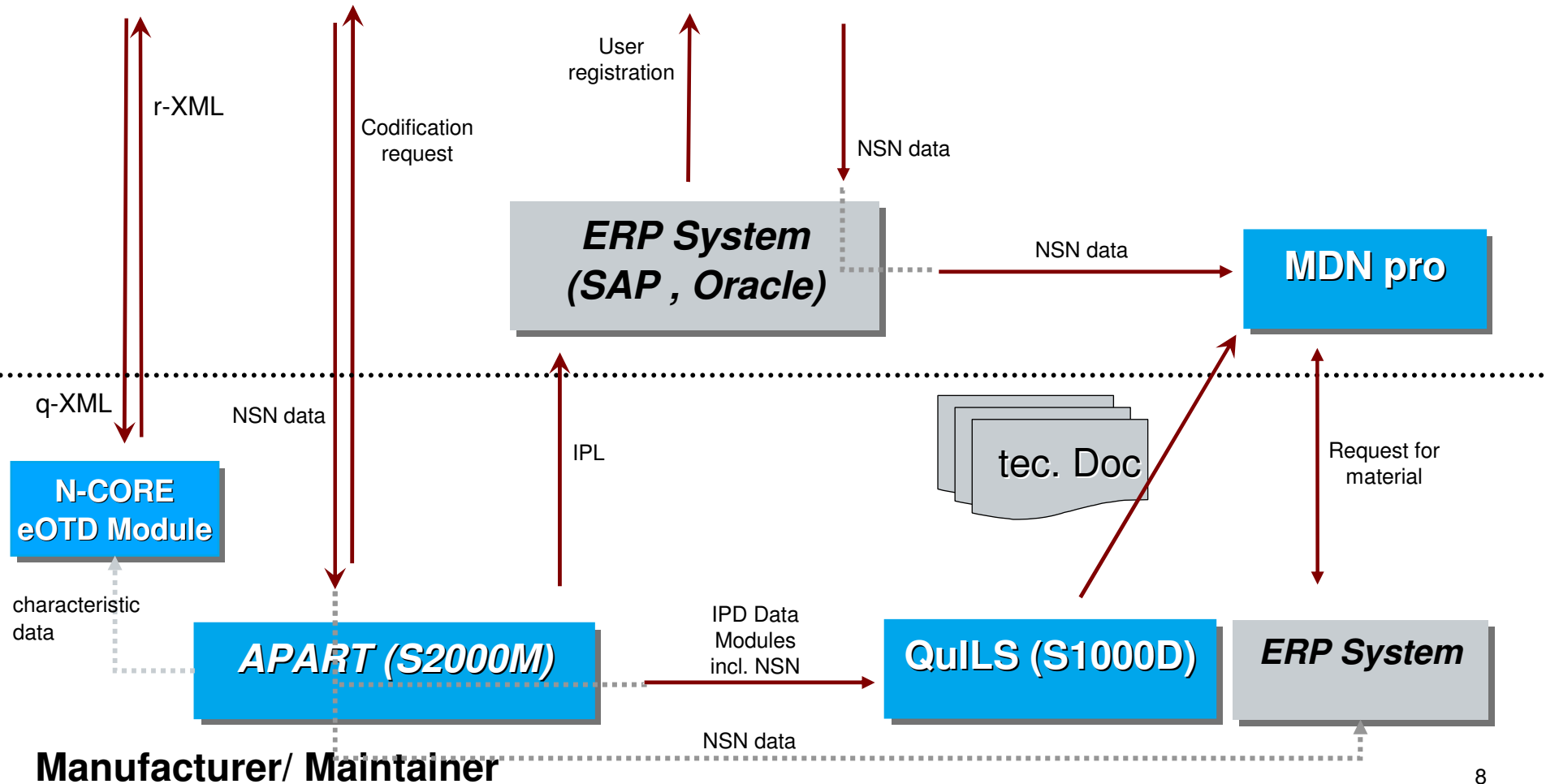
MoD

N-CORE

eOTD Module

S2000M Module

SAP/ ERP interface



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Current Situation

- ▶ Codification Requests delivered in text-based files
- ▶ Many validation rules implemented at sender and receiver
- ▶ No descriptive data or documentation delivered

Under investigation

- ▶ Change of the exchange format into XML
- ▶ Delivery of descriptive data
 - ▶ 2 possible ways
 - ▶ Use of current NADEX format inside XML
 - ▶ Use of available XML based standards like ISO 22745
- ▶ Delivery of documentation (.pdf, .jpg, .bmp, ...)

Possible layout of a XML based exchange format

```
<?xml version="1.0" encoding="UTF-8"?>
```

XML header

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```
<spec2000mltem>
```

```
<header>
```

Header and routing information of SPEC 2000M

```
</header>
```

```
<!-- Request data -->
```

```
<codreq>
```

Basic data of a codification request according SPEC 2000M

```
<parts>
```

Basic data about reference and manufacturer according SPEC 2000M

```
</parts>
```

```
<descriptiveData>
```

Descriptive data in ISO 22745 r-XML format.

```
</descriptiveData>
```

```
</codreq>
```

```
</spec2000mltem>
```

```
...
```

Advantages

- ▶ **Use of existing standards**
- ▶ **Processes by industry and military were established and agreed**
- ▶ **Ways of communication and data transfer were established**
- ▶ **Only one communication way**
- ▶ **Only data format must be changed and content must be expanded**

Further Information and Contact



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