



Towards Shared Awareness and Self-Synchronization in a Coalition Environment

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**If we undertake this war without preparation, we
should by hastening its commencement only
delay its conclusion.**

Archidamus II, King of Sparta, 432 BC

Introduction

Interoperability through an Enterprise Services Architecture

Master Data Unification and Distribution

Next Generation Analytics

Conclusions

Introduction

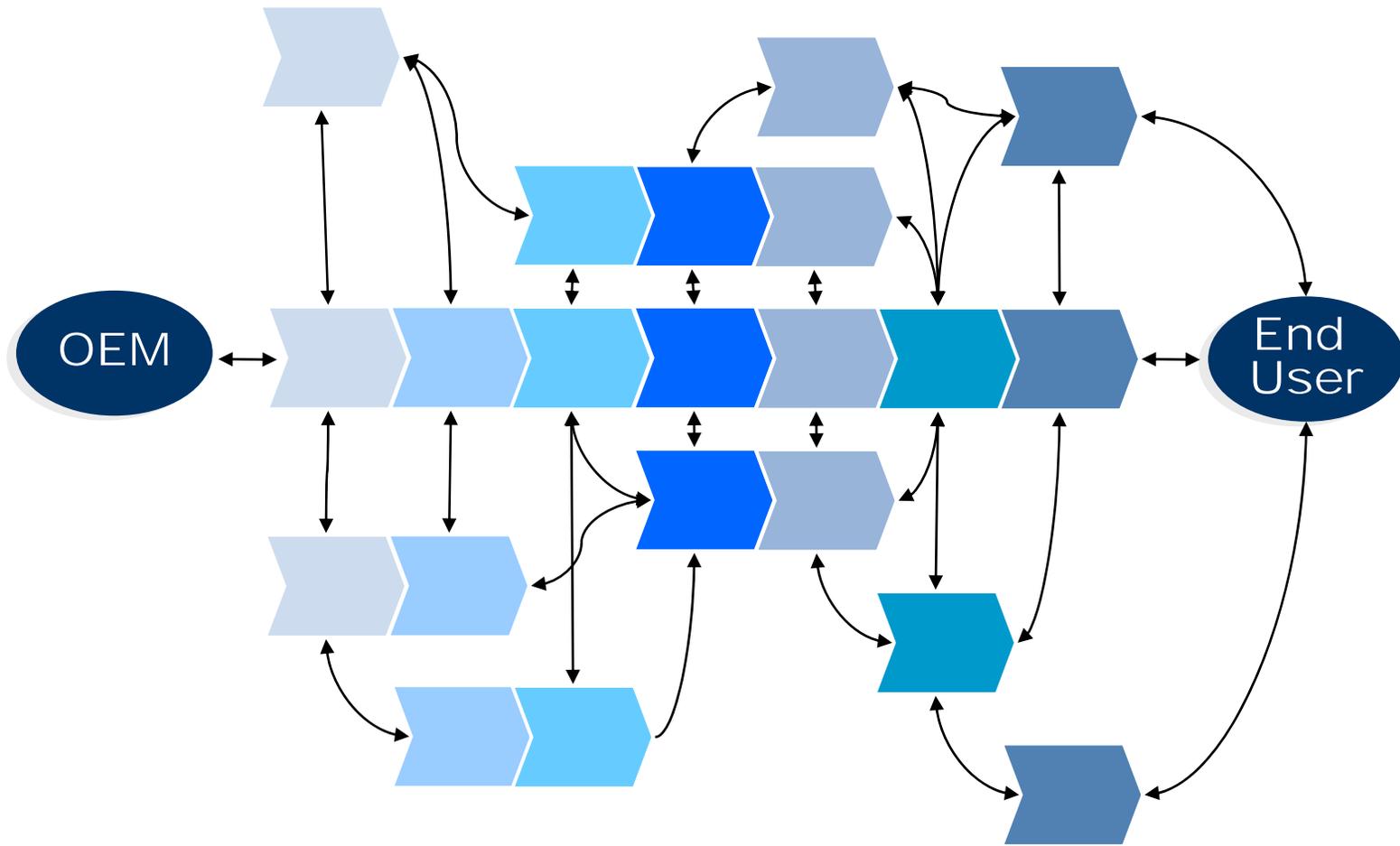
Interoperability through an Enterprise Services Architecture

Master Data Unification and Distribution

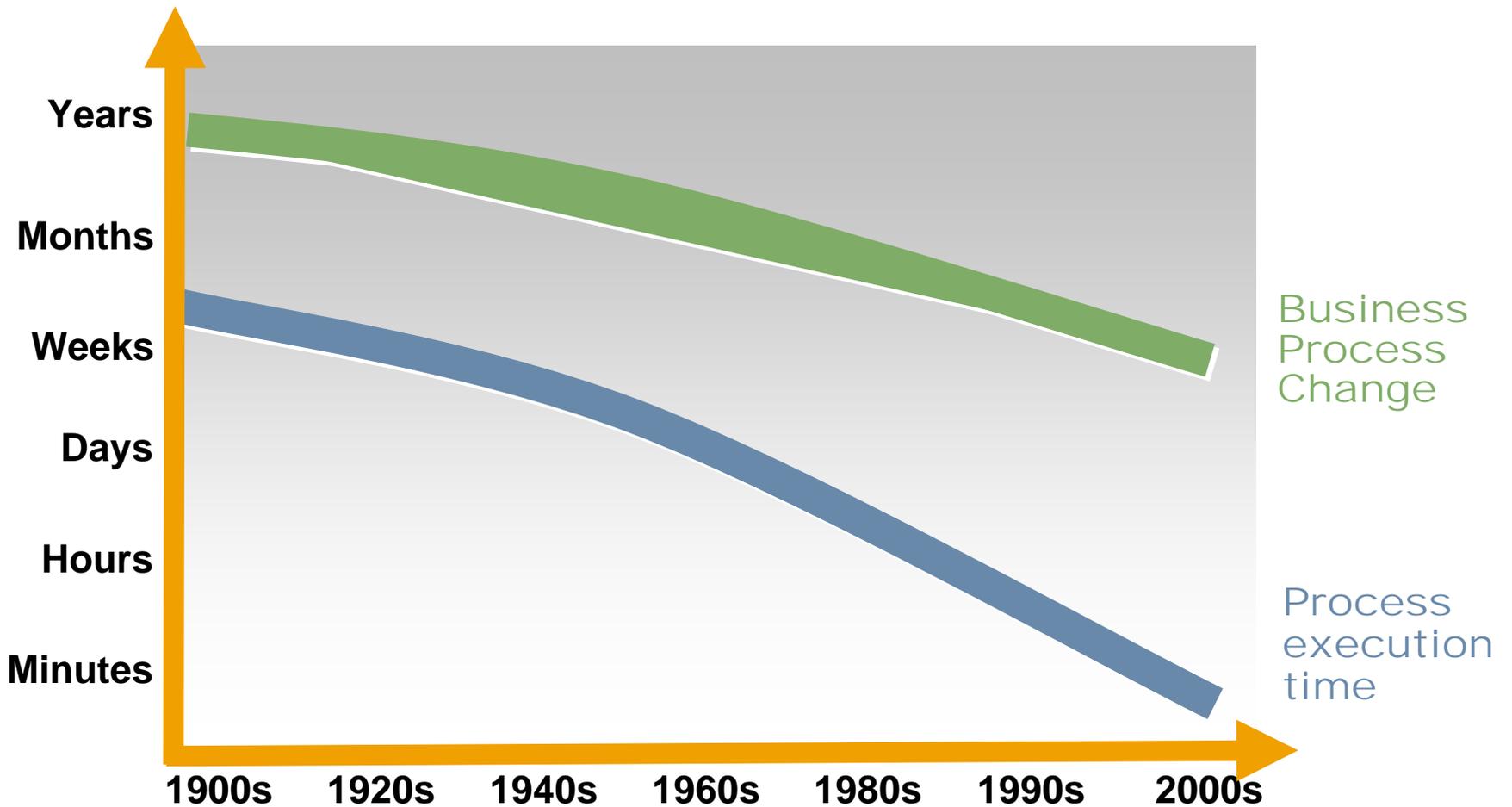
Next Generation Analytics

Conclusions

THE ADAPTIVE COALITION NETWORK



Trends in Process Speed



Source: Gartner

Introduction

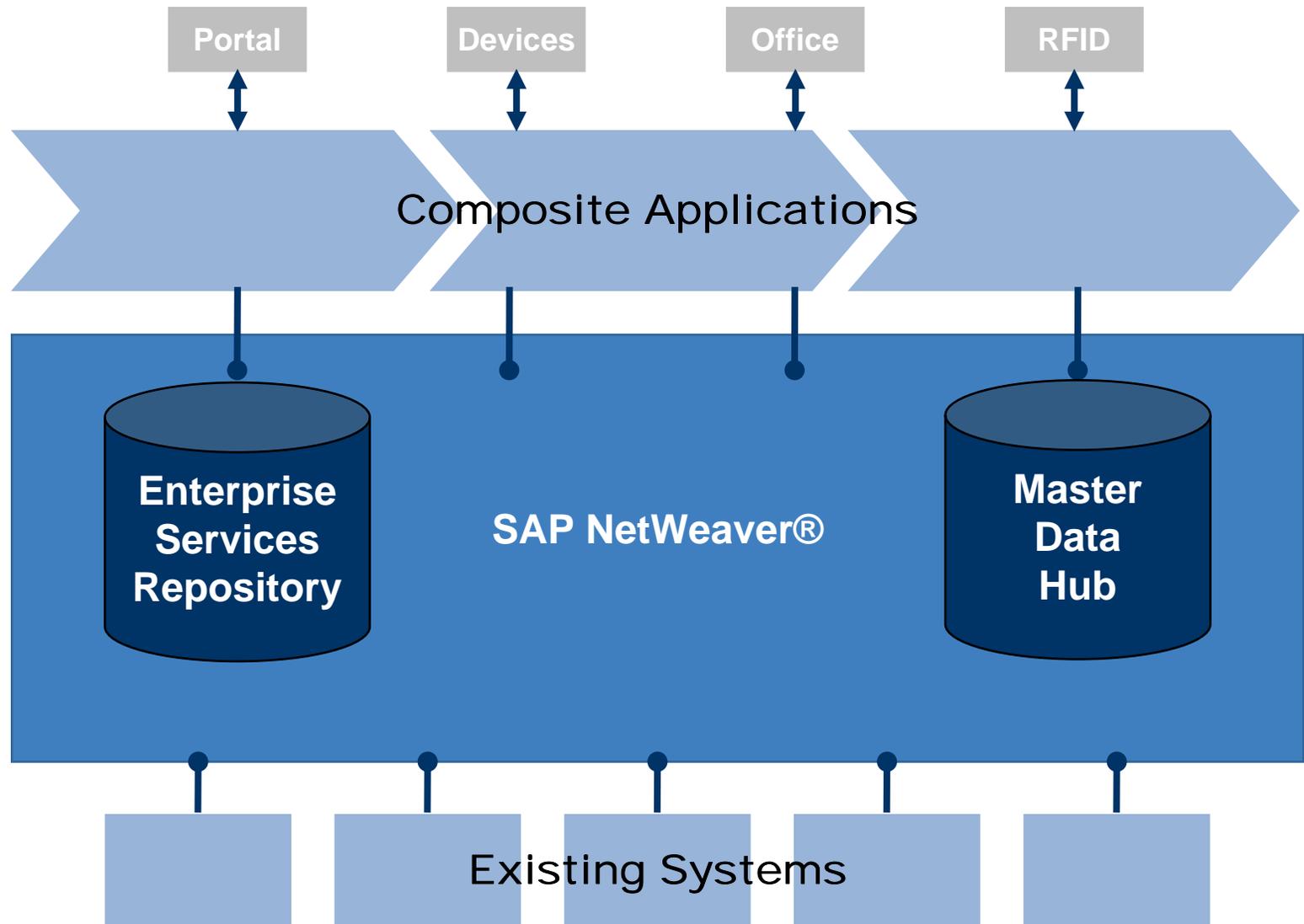
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Enterprise Services Architecture



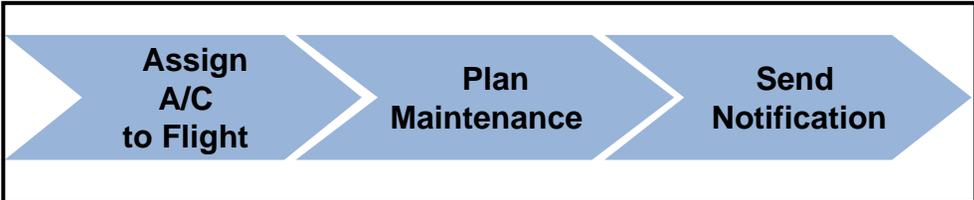
Flight Mission Planning – Process View



Anton Palmer
Mission Planner



Carl Miller
Maintenance Planner



Anne Lindberg
Maintenance Tech



Flight Mission Planning - System View

Analytics

Develop Mission Profile

Develop A/C Req

Request A/C

Select A/C

Plan Maint

Send Notification

Receive Notification

Services

SAP NetWeaver®

GIS

Weather

Intel

External Services

Maint Order Processing

Config Control

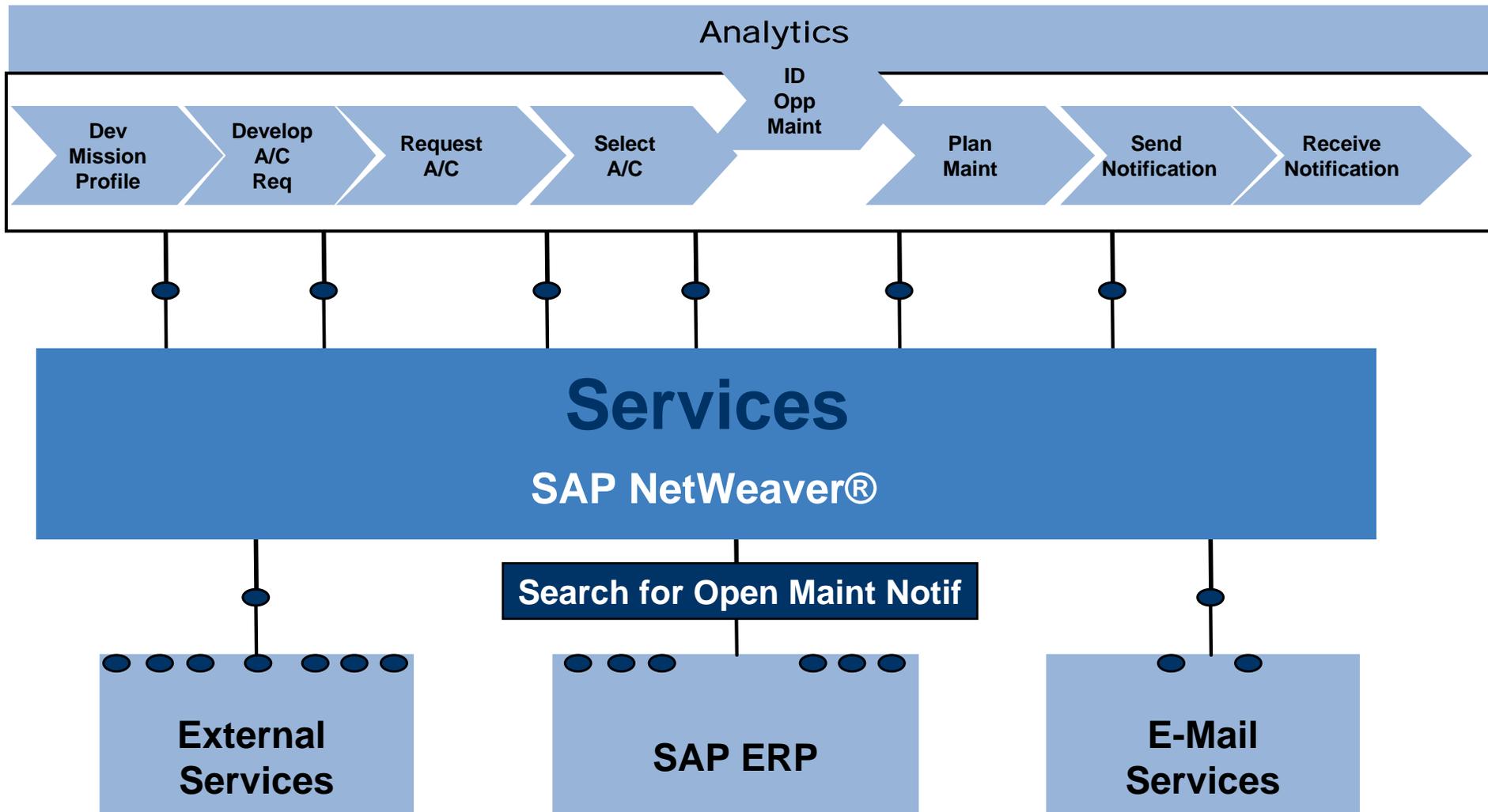
Parts Availability

SAP ERP

Send message

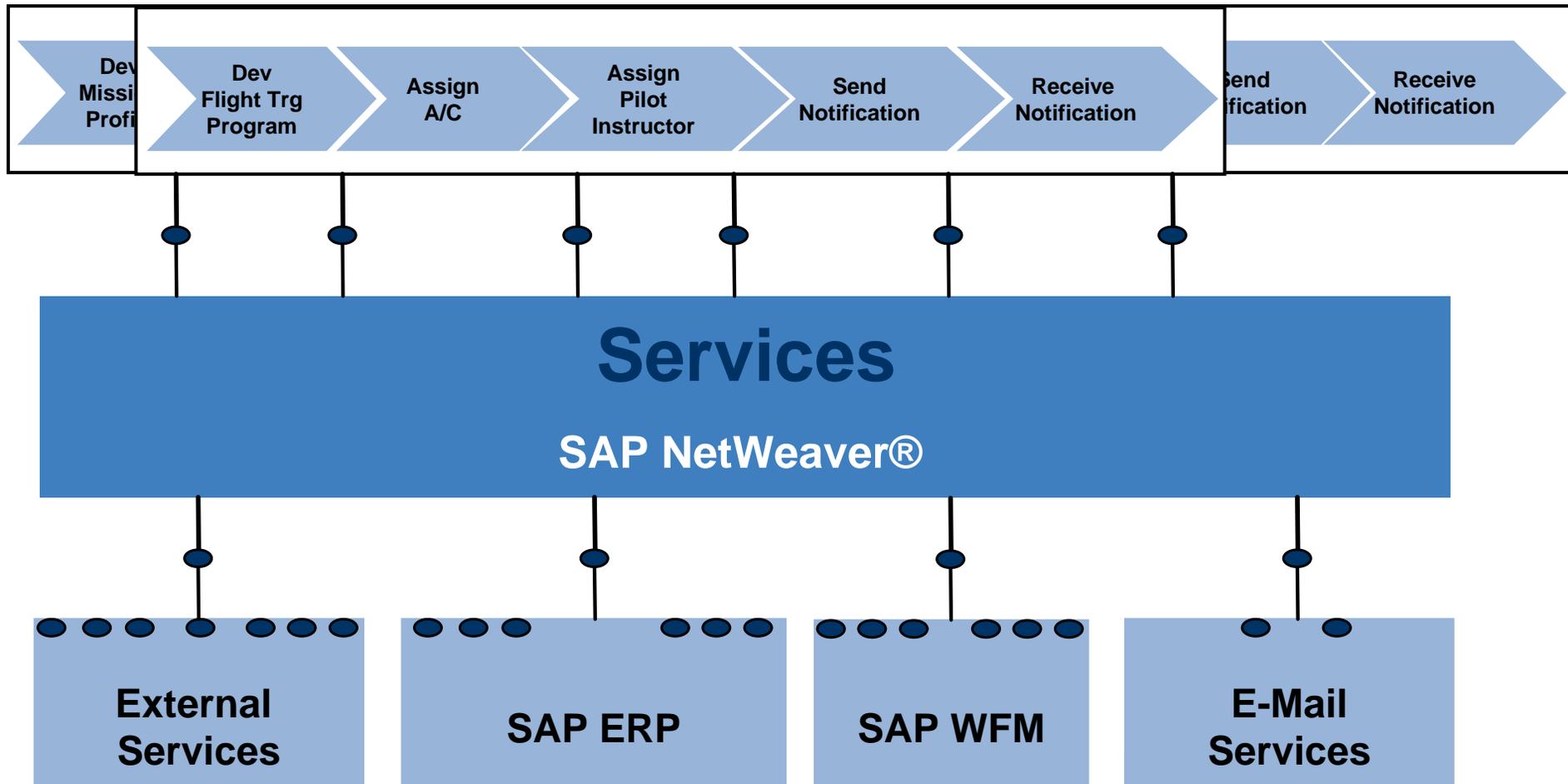
E-Mail Services

Extend Process



New Process: Flight Training Program

Re-Use Services



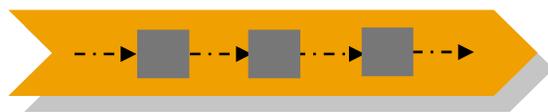
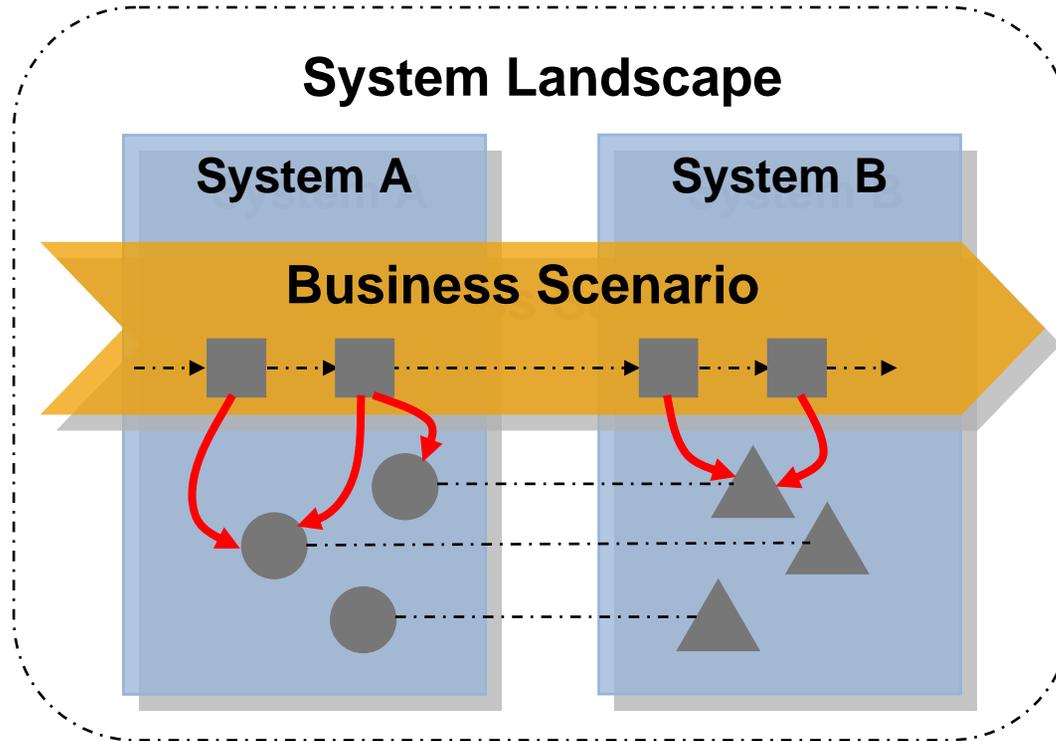
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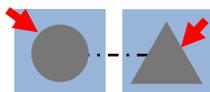
Conclusions



A business scenario is represented as a flow of business documents (transactional data)

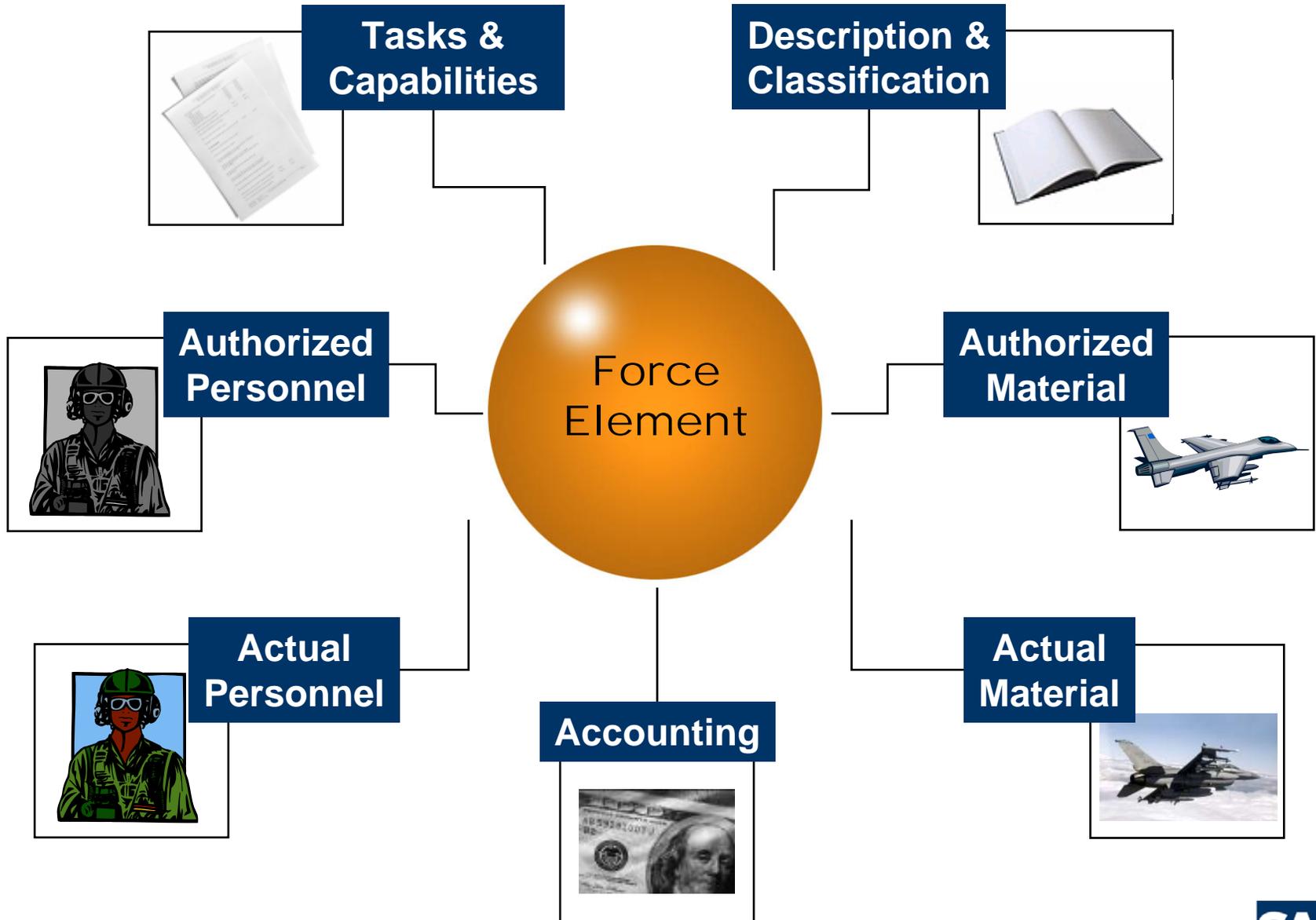


Many business documents are referencing master data



Business scenarios that are carried out beyond system boundaries need to reference the same master data representation through the process

Force Element – Modeling Capability Packages

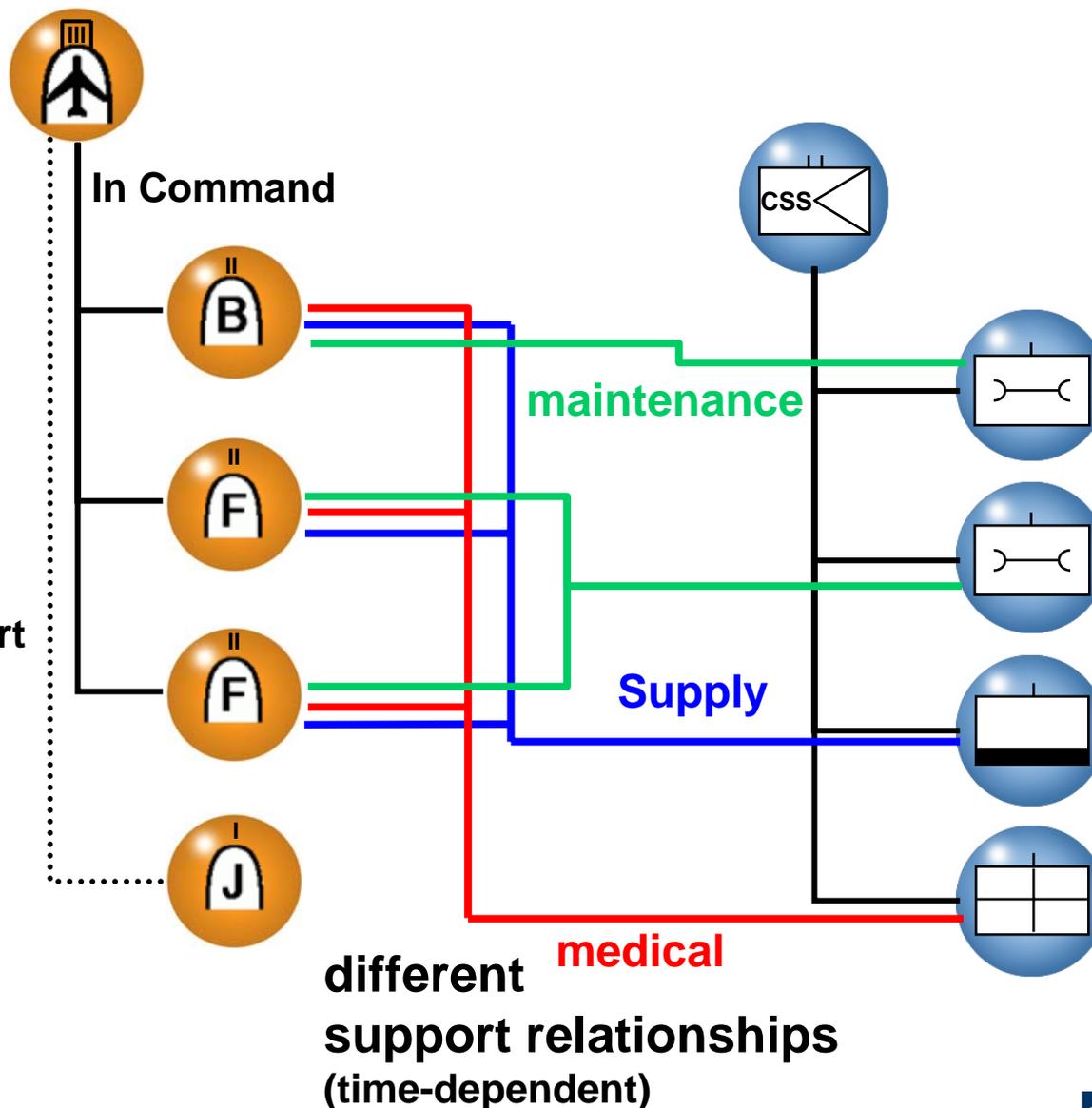


Relationships between Force Elements

Examples:

various
command & control
relationships
(time-dependent)

In Direct Support



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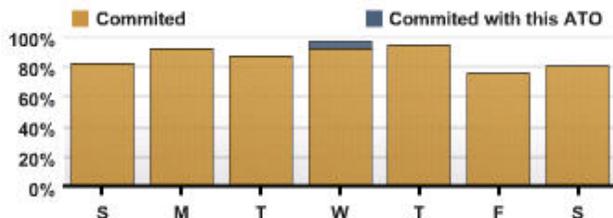
Sample Analytical Application

Air Task Order 012545 Details

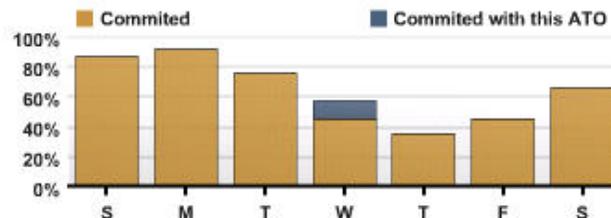
Accept Reject

Quantity & Type of A/C:	1 x CH-47	Not After DTG:	150830 APR Z	C/S & Freq at Destination(s):	13C - 101.5
Nature of Task:	Move 105 Towed Howitzer to new	Duration of Task (in hrs/mins):	45 MINS	Briefing - C/S, Freq, Loc:	GR AB135631
Pick-up Point(s):	1. GR AB135631	Passengers/Casualties:	NONE	Debriefing - C/S, Freq, Loc:	GR AB135631
Destination(s) / Recce Target(s):	1. GR AB125531	Freight (in kg):	1024 KG	Combat Intelligence Update:	NA
DTG @ PUP(s):	150800 APR Z	C/S(s) & Freq at PUP(s):	13B - 101.5	Special Instructions:	ADMINISTRATIVE MOVE

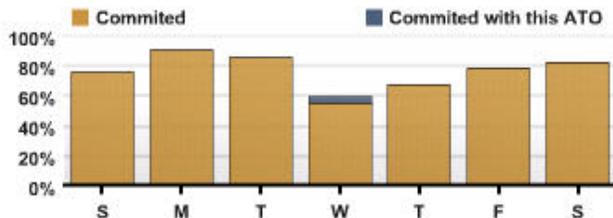
Personnel Commitments



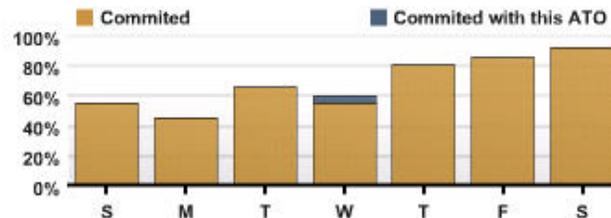
Ammunition Commitments



POL Commitments



Aircraft Commitments



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Interoperability
through an
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Services
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Unify and
Distribute
Master Data



Manage the
Relationships
between Master
Data Elements



Provide Analytical
Applications for
Actionable
Knowledge



Integrate
Horizontally in
a Net-centric
environment