



Design-Chain Operations Reference-model



PLAN RESEARCH DESIGN INTEGRATE AMEND

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Supply-Chain Council

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DCOR Model: Quick Reference

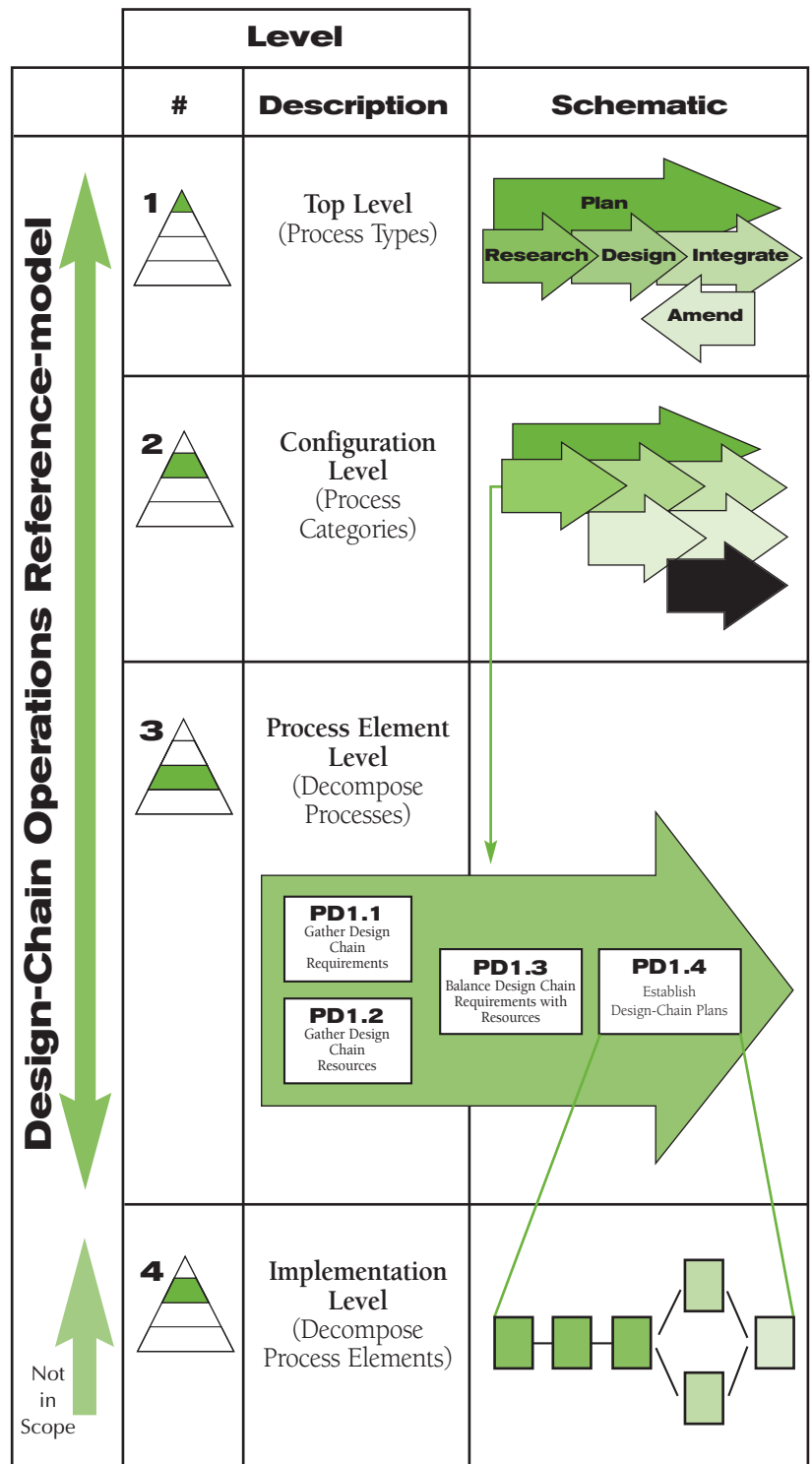
Version
1.0

The DCOR-model:

The Design Chain Operations Reference-model (DCOR) is the product of the Supply-Chain Council (SCC), an independent, not-for-profit, global corporation with membership open to all companies and organizations interested in applying and advancing the state-of-the-art in supply and design chain management systems and practices. The newest model from the SCC, the DCOR-model, captures the SCC's Technical Development Steering Committee's consensus view of design chain management. The Model's structure is inspired by that of the Supply-Chain Operations Reference Model (SCOR).

While much of the underlying content of the Model was originally developed by practitioners, the DCOR-model provides a unique framework that links business process, metrics, best practices and technology features into a unified structure to support communication among design chain partners and to improve the effectiveness of the extended supply chain.

DCOR Contains Three Levels of Process Detail



PLAN

PP Plan Design Chain	PR Plan Research	PD Plan Design	PI Plan Integrate	PA Plan Amend
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<p>PP.1: Gather Design Chain Requirements</p> <p>PP.2: Gather Design Chain Resources</p> <p>PP.3: Balance Design Chain Resources with Design Chain Requirements</p> <p>PP.4: Establish & Communicate Design Chain Plans</p>	<p>PR.1: Gather Reserch Requirements</p> <p>PR.2: Gather Research Resources</p> <p>PR.3: Balance Research Resources with Research Requirements</p> <p>PR.4: Establish Research Plans</p>	<p>PD.1: Gather Design Chain Requirements</p> <p>PD.2: Gather Design Chain Resources</p> <p>PD.3: Balance Design Chain Requirements with Resources</p> <p>PD.4: Establish Design Plans</p>	<p>PI.1: Gather Integrate Requirements</p> <p>PI.2: Gather Integrate Resources</p> <p>PI.3: Balance Integrate Requirements with Resources</p> <p>PI.4: Establish Integrate Plans</p>	<p>PA.1: Gather Amend Requirements</p> <p>PA.2: Gather Amend Resources</p> <p>PA.3: Balance Amend Requirements with Resources</p> <p>PA.4: Establish & Amend Plans</p>
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Enable Plan

<p>EP1: Manage Plan Business Rules</p>	<p>EP2: Manage Design Chain Performance</p>	<p>EP3: Manage Plan Information</p>	<p>EP4: Manage Product Lifecycle</p>	<p>EP5: Manage Design Chain Assets</p>
<p>EP6: Manage Design Chain Knowledge Transfer</p>	<p>EP7: Manage Design Chain Configuration</p>	<p>EP8: Manage Plan Regulatory Compliance</p>	<p>EP9: Align Design Chain Unit Plan with Financial Plan</p>	

RESEARCH

R1 Research Product Refresh	R2 Research New Product	R3 Research New Technology
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<p>R1.1: Schedule Research Activites</p> <p>R1.2: Source Materials</p> <p>R1.3: Verify Materials</p> <p>R1.4: Transfer Findings/Materials</p> <p>R1.5: Authorize Supplier Payment (m-t-s)</p>	<p>R2.1: Receive and Validate Request</p> <p>R2.2: Schedule Research Activities</p> <p>R2.3: Source Materials</p> <p>R2.4: Verify Materials</p> <p>R2.5: Transfer Findings/Materials</p> <p>R2.6: Authorize Supplier Payment</p>	<p>R3.1: Receive and Validate Request</p> <p>R3.2: Identify Sources for Technology</p> <p>R3.3: Schedule Research Activities</p> <p>R3.4: Source Materials/Technology</p>
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Enable Research

<p>ER1: Manage Research Business Rules</p>	<p>ER2: Manage Research Performance</p>	<p>ER3: Maintain Research Information</p>	<p>ER4: Manage Product Lifecycle</p>	<p>ER5: Manage Research Capital Assets</p>
<p>ER6: Manage Research Knowledge Transfer</p>	<p>ER7: Manage Research Network</p>	<p>ER8: Manage Research Regulatory Requirements</p>		

DESIGN

D1 Design Product Refresh

D2 Design New Product

D3 Design New Technology

D1.1:
Schedule
Design Activities

D1.2:
Design Prototype

D1.3:
Build &
Test Prototype

D1.4:
Package Design

D1.5:
Release Design
to Integrate

D2.1:
Receive, Validate
& Decompose
Request

D2.2:
Schedule Design
Activities

D2.3:
Develop
Prototype

D2.4:
Build &
Test Prototype

D2.5:
Package Design

D2.6:
Release Design
to Integrate

D3.1:
Receive, Validate
& Decompose
Request

D3.2:
Schedule Design
Activities

D3.3:
Acquire
Knowledge

D3.4:
Develop
Prototype

D3.5:
Build &
Test Prototype

D3.6:
Package Design

D3.7:
Release Design
to Integrate

INTEGRATE

I1 Integrate Product Refresh

I2 Integrate New Product

I3 Integrate New Technology

I1.1:
Receive & Validate
Request

I1.2:
Integrate
New Product

I1.3:
Obtain &
Validate Design

I1.4:
Pilot Design

I1.5:
Package Product

I1.6:
Release Product

I2.1:
Receive & Validate
Request

I2.2:
Decompose
Request

I2.3:
Distribute
Requirements

I2.4:
Receive & Validate
Design

I2.5:
Pilot Design

I2.6:
Package
Product

I2.7:
Release
Product

I3.1:
Receive & Validate
Request

I3.2:
Decompose
Request

I3.3:
Distribute
Requirements

I3.4:
Receive & Validate
Design

I3.5:
Establish Execution
Processes

I3.6:
Pilot Design

I3.7:
Package Product

I3.8:
Release
Product

Enable Design

ED1:
Manage
Design
Business Rules

ED2:
Manage
Design
Performance

ED3:
Manage
Design
Information

ED4:
Manage
Product Life
Cycle

ED5:
Manage
Design Capital
Assets

ED6:
Manage
Design
Knowledge
Transfer

ED7:
Manage
Design
Network

ED8:
Manage
Design
Regulatory
Compliance

ED9:
Manage
Intellectual
Property

Enable Integrate

EI1:
Manage
Integrate
Business Rules

EI2:
Manage
Integrate
Performance

EI3:
Manage
Integrate
Information

EI4:
Manage
Product Life
Cycle

EI5:
Manage
Integrate
Capital Assets

EI6:
Manage
Integrate
Knowledge
Transfer

EI7:
Manage
Integrate
Network

EI8:
Manage
Integrate
Regulatory
Compliance

AMEND

A1 Amend Product Fallout

- A1.1:**
Receive & Validate
Request
- A1.2:**
Decompose
New Product
- A1.3:**
Obtain &
Validate Design
- A1.4:**
Pilot Design
- A1.5:**
Package Product
- A1.6:**
Release Product

A2 Amend Deficient Product

- A2.1:**
Obtain Deficiency
Information
- A2.2:**
Validate
Issue
- A2.3:**
Decompose
Issue
- A2.4:**
Distribute
Issue
- A2.5:**
Publish
Advisory

A3 Amend Product Specs

- A3.1:**
Obtain Specificaton
Information
- A3.2:**
Validate
Issue
- A3.3:**
Decompose
Issue
- A3.4:**
Distribute
Issue
- A3.5:**
Publish
SCO

Enable Amend

- | | | | | |
|--|---|--|--|--|
| EA1:
Manage Amend
Business Rules
Processes | EA2:
Manage
Amend
Performance | EA3:
Manage
Amend
Information | EA4:
Manage
Product Life
Cycle | EA5:
Manage
Integrate
Capital Assets |
| EA6:
Manage
Amend
Knowledge
Transfer | EA7:
Manage
Amend
Network | EA8:
Manage
Amend
Regulatory
Compliance | | |

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