



# Design-Chain Operations Reference-model



PLAN RESEARCH DESIGN INTEGRATE AMEND

**SCOR**<sup>®</sup>  
Supply-Chain Council

*SCOR is a registered trademark in the United States and Europe*

**DCOR Model: Quick Reference**

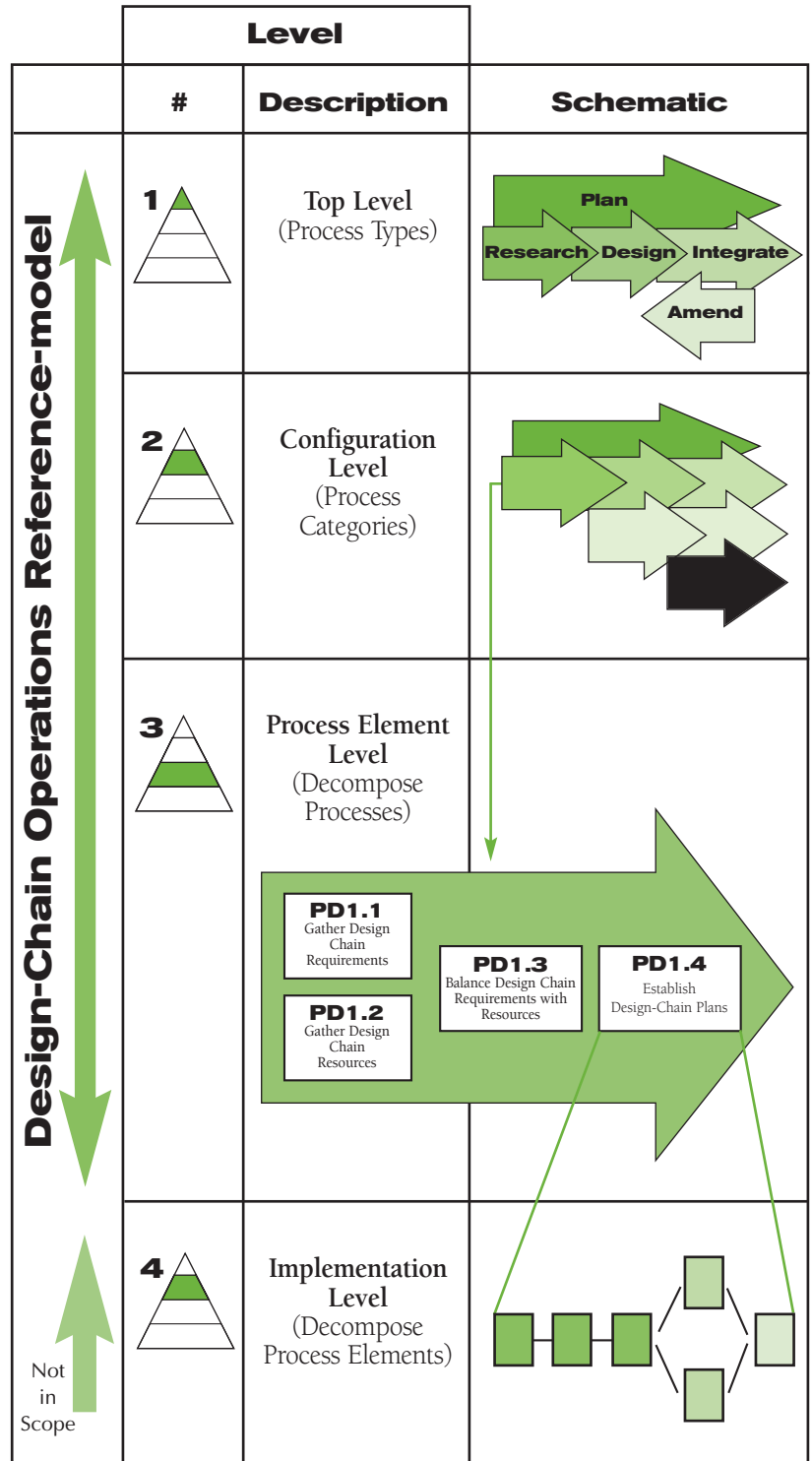
Version  
**1.0**

# 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
-------------------------------	------------------------	----------------------	-------------------------	---------------------

**PP.1:**  
Gather  
Design Chain  
Requirements

**PP.2:**  
Gather  
Design Chain  
Resources

**PP.3:**  
Balance  
Design Chain  
Resources with  
Design Chain  
Requirements

**PP.4:**  
Establish &  
Communicate  
Design Chain  
Plans

**PR.1:**  
Gather  
Reserch  
Requirements

**PR.2:**  
Gather  
Research  
Resources

**PR.3:**  
Balance  
Research  
Resources with  
Research  
Requirements

**PR.4:**  
Establish  
Research Plans

**PD.1:**  
Gather  
Design Chain  
Requirements

**PD.2:**  
Gather  
Design Chain  
Resources

**PD.3:**  
Balance  
Design Chain  
Requirements  
with Resources

**PD.4:**  
Establish  
Design Plans

**PI.1:**  
Gather  
Integrate  
Requirements

**PI.2:**  
Gather  
Integrate  
Resources

**PI.3:**  
Balance  
Integrate  
Requirements  
with Resources

**PI.4:**  
Establish  
Integrate Plans

**PA.1:**  
Gather  
Amend  
Requirements

**PA.2:**  
Gather  
Amend  
Resources

**PA.3:**  
Balance  
Amend  
Requirements  
with Resources

**PA.4:**  
Establish &  
Amend Plans

# RESEARCH

R1 Research Product Refresh	R2 Research New Product	R3 Research New Technology
--------------------------------------	----------------------------------	-------------------------------------

**R1.1:**  
Schedule Research  
Activites

**R1.2:**  
Source Materials

**R1.3:**  
Verify Materials

**R1.4:**  
Transfer  
Findings/Materials

**R1.5:**  
Authorize Supplier  
Payment (m-t-s)

**R2.1:**  
Receive and  
Validate Request

**R2.2:**  
Schedule  
Research Activities

**R2.3:**  
Source Materials

**R2.4:**  
Verify Materials

**R2.5:**  
Transfer  
Findings/Materials

**R2.6:**  
Authorize  
Supplier Payment

**R3.1:**  
Receive and  
Validate Request

**R3.2:**  
Identify Sources  
for Technology

**R3.3:**  
Schedule  
Research Activities

**R3.4:**  
Source  
Materials/Technology

## Enable Plan

**EP1:**  
Manage Plan  
Business Rules

**EP2:**  
Manage  
Design Chain  
Performance

**EP3:**  
Manage Plan  
Information

**EP4:**  
Manage  
Product  
Lifecycle

**EP5:**  
Manage Design  
Chain Assets

**EP6:**  
Manage  
Design Chain  
Knowledge  
Transfer

**EP7:**  
Manage  
Design Chain  
Configuration

**EP8:**  
Manage Plan  
Regulatory  
Compliance

**EP9:**  
Align Design  
Chain Unit  
Plan with  
Financial Plan

## Enable Research

**ER1:**  
Manage  
Research  
Business Rules

**ER2:**  
Manage  
Research  
Performance

**ER3:**  
Maintain  
Research  
Information

**ER4:**  
Manage  
Product  
Lifecycle

**ER5:**  
Manage  
Research  
Capital Assets

**ER6:**  
Manage  
Research  
Knowledge  
Transfer

**ER7:**  
Manage  
Research  
Network

**ER8:**  
Manage  
Research  
Regulatory  
Requirements

# DESIGN

## D1 Design Product Refresh

**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 Design New Product

**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 Design New Technology

**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

**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 Integrate New 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 Integrate New Technology

**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  
**ED7:** Manage Design Network  
**ED8:** Manage Design Regulatory Compliance  
**ED9:** Manage Intellectual Property

Transfer

## 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  
**EI7:** Manage Integrate Network  
**EI8:** Manage Integrate Regulatory Compliance

Transfer

# AMEND

## ▼ A1 Amend Product Fallout      A2 Amend Deficient Product      A3 Amend Product Specs

**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

**A2.1:**  
Obtain Deficiency Information

**A2.2:**  
Validate Issue

**A2.3:**  
Decompose Issue

**A2.4:**  
Distribute Issue

**A2.5:**  
Publish Advisory

**A3.1:**  
Obtain Specification 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

**SCOR<sup>®</sup>**  
Supply-Chain Council

**For more information, please contact the Council office:**

**In USA:**

Supply Chain Council  
1400 Eye Street, Suite 1050  
Washington DC, 20005  
Tel: +1 202-822-4660  
Fax: +1 202-822-5286  
Email: [info@supply-chain.org](mailto:info@supply-chain.org)

**In Europe:**

Supply Chain Council  
287 Avenue Louise  
2nd Floor  
BE - 1050 Brussels  
Tel: +32 2 627 0160  
Fax: +32 2 645 2671  
Email: [Europe@supply-chain.org](mailto:Europe@supply-chain.org)

**[www.supply-chain.org](http://www.supply-chain.org)**