ISO TC184/SC4 | **STEP AM On 4 Pages** | ISO 10303

COMMON Resources (with 13584-20 Logical model of expressions (I) and 15531-42 Time model (E)

Application Modules (Technical Specifications)

S AM Title
T 403 **AP203 Configuration control 3d design**
T 410 **AP210 electronic assembly interconnect and packaging design**
T 421 **Functional data and schematic representation**
O 433 **AP233 system engineering and design**
T 436 **AP236 furniture catalog and interior design**
T 439 **AP239 Product life cycle support**
T 1001 e3 Appearance assignment
T 1002 e2 Colour
T 1003 e2 Curve appearance
T 1004 e3 Elemental geometric shape
T 1005 Elemental topological shape
T 1006 e3 Foundation representation
T 1007 General surface appearance
T 1008 Layer assignment
T 1009 Shape appearance and layers
T 1010 Date time
T 1011 Person organisation
T 1012 Approval
T 1013 Person organisation assignment
T 1014 Date time assignment
T 1015 Security classification
T 1016 Product categorisation
T 1017 Product identification
T 1018 Product version
T 1019 e2 Product view definition
T 1020 e2 Product version relationship
T 1021 Identification assignment
T 1022 Part and version identification
T 1023 Part view definition
T 1024 Product relationship
T 1025 Alias identification
T 1026 Assembly structure
T 1027 e2 Contextual shape positioning
X 1028 Geometric shape and topology
X 1029 Boundary representation model
T e2 1030 Property assignment
X 1031 Property representation
T e2 1032 Shape property assignment
T 1033 External model
T 1034 Product view definition properties
X 1035 Product view definition structure properties
T 1036 Independent property
X 1037 Independent property usage
T e2 1038 Independent property representation
T 1039 Geometric validation property representation
T 1040 Process property assignment
T 1041 Product view definition relationship
T 1042 Work request
T 1043 Work order
T 1044 Certification
X 1045 Solid model
T 1046 e2 Product replacement
T 1047 Activity
T 1049 Activity method
T 1050 e2 Dimension tolerance
T 1051 e2 Geometric tolerance
T 1052 Default tolerance
O 1053 Placed datum target
T 1054 Value with unit
T 1055 Part definition relationship
T 1056 Configuration item
T 1057 Effectivity
T 1058 Configuration effectivity
T 1059 Effectivity application
T 1060 Product concept identification
T 1061 e2 Project
T 1062 Contract
T 1063 e2 Product occurrence
T 1064 Event
T 1065 Time interval
X 1066 Constructive solid geometry
O 1067 Constructive solid geometry 2D
T 1068 Constructive solid geometry 3D
X 1069 Faceted boundary representation model

S AM Title
X 1219 AP203E2_config control 3D design CC1
X 1220 AP203E2_config control 3D design CC2
X 1221 AP203E2 config control 3D design CC3
X 1222 AP203E2_config control 3D design CC4
X 1223 AP203E2_config control 3D design CC5
X 1224 AP203E2_config control 3D design CC6
X 1225 AP203E2_config control 3D design CC7
X 1226 AP203E2_config control 3D design CC8
X 1227 AP203e2_config_control_3d_design_module
T 1228 Representation with uncertainty
O 1229 AP203 configuration management
T 1230 Configuration controlled 3D parts and assemblies
T 1231 Product data management
O 1232 Design material aspects
T 1233 Requirement assignment
O 1236 Furniture product data and project data
X 1239 Product life cycle support
T 1240 Organization type
T 1241 Information rights
T 1242 Position in organization
T 1243 Experience
T 1244 Qualifications
T 1245 Type of person
T 1246 Attribute classification
X 1247 Classification
T 1248 Product breakdown
T 1249 Activity method assignment
T 1250 Attachment slot
T 1251 Interface
T 1252 Probability
T 1253 Condition
T 1254 Condition evaluation
T 1255 State definition
T 1256 State observed
T 1257 Condition characterized
T 1258 Observation
T 1259 Activity as realized
T 1260 Scheme
T 1261 Activity method implementation
T 1262 Task specification
T 1263 Justification
O 1264 Risk
T 1265 Envelope
T 1266 Resource management
T 1267 Required resource
T 1268 Resource item
T 1269 Resource as realized
T 1270 Message
T 1271 State characterized
T 1272 Activity characterized
T 1273 Resource property assignment
T 1274 Probability distribution
T 1275 External class
T 1276 Location
T 1277 Location assignment
T 1278 Product group
X 1279 Environment
T 1280 Required resource characterized
T 1281 Resource item characterized
T 1282 Resource management characterized
T 1283 Resource as realized characterized
X 1284 Resourced activity method
T 1285 Work request characterized
T 1286 Work order characterized
T 1287 AP239 activity recording
T 1288 e2 Management resource information
T 1289 AP239 management resource information
T 1290 Document management
T 1291 e2 Plib class reference
T 1292 AP239 product definition information
T 1293 AP239 part definition information
T 1294 Interface lifecycle
T 1295 AP239 properties
T 1296 Condition evaluation characterized
T 1297 AP239 document management

Legend: TS Status
0-10 =O=prop-->apvl for ballot
10-20=A=NP blt circ-->NP apvl
20-60=D=DTS dev-->reg as TS
@ At ISO, approved for publication
>60 =T=TS Published
98 =X= Project withdrawn

S AM Title

T 1070 Class

T 1071 Class of activity
O 1072 Activity or state space
O 1073 Behaviour
T 1074 Property condition
O 1075 Possession of property validity
O 1076 Product feature space
T 1077 Class of product
O 1078 Property dictionary for structural analysis
O 1079 Property distribution
T 1080 Property space

O 1081 Compound property space
O 1082 State
O 1083 Distribution mapping
O 1084 Product activity and state space parameterisation
T 1085 Property identification
O 1086 B spline function
O 1087 Elementary function dictionary
O 1088 Externally defined maths value
O 1089 Linear Function
O 1090 Maths function

T 1091 Maths space
T 1092 Maths value
O 1093 Shape defined function
O 1094 Tabular function
O 1095 Mesh
O 1096 Mesh function
O 1097 Structured mesh
O 1098 Unstructured mesh
T 1099 Independent property definition
O 1100 Possession of property statistics and probability

T 1101 Product property feature definition
T 1102 Assembly feature definition
T 1103 Product class
T 1104 Specified product
T 1105 Multi linguism
T 1106 e2 Extended measure representation
X 1107 Product management data
T 1108 Specification based configuration
T 1109 Alternative solution
T 1110 Surface conditions

T 1111 e2 Classification with attributes
T 1112 Specification control
T 1113 e2 Group
T 1114 Classification assignment
T 1115 Part collection
T 1116 e2 Pdm material aspects
T 1118 Measurement representation
O 1119 Construction history
O 1120 Configuration controlled 3D design

T 1121 Document and version
T 1122 Document assignment
T 1123 Document definition
T 1124 Document structure
X 1125 File properties
T 1126 e2 Document properties
T 1127 File identification
T 1128 External item identification assignment
T 1129 External properties
T 1130 e2 Derived shape element

T 1131 e2 Construction geometry
T 1132 Associative text
T 1133 Single part representation
T 1134 Product structure
O 1135 Work management
T 1136 e2 Text appearance
X 1137 Simplified cataloguing (to be incl in ISO 22745)
T 1140 Requirement identification and version

T 1141 e2 Requirement view definition
T 1142 Requirement view definition relationship
T 1143 Building component
T 1144 Building item
T 1145 Building structure
T 1146 Location in building
T 1147 Manufacturing configuration effectivity

T 1151 Functional data
X 1152 Structure and classification
O 1153 Plant system functional data and schematic representation
O 1154 Plant system functional data
T 1156 Product structure and classification
T 1157 Class of product structure
T 1158 Class of composition of product

S AM Title

T 1298 Activity method characterized
X 1299 Activity method implementation characterized
T 1300 Work output

T 1301 Work output characterized
X 1302 Task assignment
X 1303 AP239 activity and resource management
T 1304 AP239 product status recording
X 1305 Resourced activity
T 1306 AP239 task specification resourced
T 1307 AP239 work definition

T 1340 Name assignment
T 1341 Generic expression
T 1342 Expression
T 1343 Product placement
T 1344 Numerical interface
T 1345 e2 Item definition structure
T 1346 Numeric function
T 1347 Wireframe 2d
T 1348 Requirement management
T 1349 Incomplete data reference mechanism
T 1350 Inertia characteristics

T 1351 Catalog data information
T 1352 Catalog data information and shape representation
T 1353 Parameterized catalog data information
T 1354 Furniture interior decoration
T 1355 Parameterized catalog data and shape representation
X 1356 Furniture catalog and interior design
T 1357 Selected item
T 1358 Location assignment characterized
O 1359 Justification characterized
O 1360 Annotated presentation

O 1361 Associative Annotation
O 1362 Dimension and tolerance callouts
T 1364 Event assignment
T 1365 Time interval assignment
T 1366 Tagged text representation
O 1367 Textual expression representation
O 1368 Document order
O 1369 Binary representation
O 1370 Data structure representation

O 1371 State based behavior

O 1433 Project Management
O 1434 Project management resource information
O 1435 Organization structure
O 1436 Project breakdown
O 1437 Schedule
O 1438 Work structure
O 1439 Project management management resource information connector
O 1440 Project management project management resource information connector

O 1441 Project management organization structure connector
O 1442 Project management project breakdown connector
O 1443 Project management schedule structure connector
O 1444 Project management work structure connector
O 1445 Information packet
O 1446 System requirements
O 1447 System requirements connector
O 1448 System behavior
O 1449 System behavior connector
O 1450 System structure

O 1451 System structure connector
O 1452 Requirement categorization
O 1453 Function based behavior
O 1454 Transformation input output
O 1455 Transformation order
O 1456 Order condition
O 1457 Shared resource
O 1459 Input output
O 1460 Requirement model assignment

O 1461 System risk connector
O 1462 Time duration relationship
O 1463 Transformation
O 1464 User defined attribute
O 1465 Working draft system engineering
O 1466 Program Management
O 1467 Risk management
O 1468 External state based behaviour model
O 1469 Foundation state definition
O 1470 Parameter value specification

O 1471 State based behaviour representation
O 1472 General model parameter

S AM Title	S AM Title
T 1159 Class of connection of product **T** 1160 Class of containment of product **T** 1161 Class of involvement of product in connection **T** 1162 Class of product library **T** 1163 Individual product structure **T** 1164 Product as individual **T** 1165 Involvement of individual product in connection **T** 1166 Composition of individual product **T** 1167 Connection of individual product **T** 1168 Containment of individual product **T** 1169 Activity structure and classification **T** 1170 Class of activity structure **T** 1171 Class of composition of activity **T** 1172 Class of connection of activity **T** 1173 Class of involvement in activity **T** 1174 Class of activity library **T** 1175 Individual activity structure **T** 1176 Individual activity **T** 1177 Composition of individual activity **T** 1178 Connection of individual activity **T** 1179 Individual involvement in activity **O** 1180 Document structure and classification **O** 1181 Class of document library **O** 1182 Class of document **O** 1183 Class of composition of document **O** 1184 Document as realized **O** 1185 Composition of individual document **O** 1186 Person role and classification **O** 1187 Class of person library **T** 1188 Class of person **O** 1189 Class of role of person in organization **O** 1190 Person as realized **O** 1191 Role of individual person in organization **O** 1192 Organization structure and classification **O** 1193 Class of organization library **O** 1194 Class of organization **O** 1195 Class of composition of organization **O** 1196 Organization as realized **O** 1197 Composition of individual organization **T** 1198 Property and property assignment **T** 1199 Possession of property **T** 1203 Schematic and symbolization **T** 1204 Schematic drawing **T** 1205 Schematic element **T** 1206 Draughting annotation **T** 1207 Drawing structure and administration **T** 1208 Schematic element library **T** 1209 Symbolization by schematic element **T** 1210 Set theory **T** 1211 Cardinality of relationship **T** 1212 Classification **T** 1213 Reference data library **T** 1214 System breakdown **T** 1215 Physical breakdown **T** 1216 Functional breakdown **T** 1217 Zonal breakdown **T** 1218 Hybrid breakdown	**O** 1473 Description assignment **O** 1474 Analysis assignment **O** 1475 Analysis characterized **O** 1476 Analysis identification **O** 1477 System modelling **O** 1478 External functional model **O** 1479 Extended task element **O** 1480 Task element **O** 1481 Behaviour view definition **O** 1482 Behaviour identification and version **O** 1483 Behaviour description assignment **O** 1484 System identification and version **O** 1485 System view definition **O** 1486 Decision support **O** 1487 Trade study **O** 1488 Verification and validation **O** 1489 Issue management **O** 1490 Issue **O** 1491 Expression Management O 1492 Function based behaviour representation **T** 1501 Edge based wireframe **T** 1502 Shell based wireframe **T** 1507 Geometrically bounded surface **T** 1509 Manifold surface **T** 1510 Geometrically bounded wireframe **T** 1511 Topologically bounded surface **T** 1512 Faceted boundary representation **T** 1514 Advanced boundary representation
STEP AP210 Modules **S AM Title** **T** 1601 Altered package **T** 1602 Altered part **T** 1603 Analytical model **T** 1604 AP210 assembly functional interface requirements **T** 1605 AP210 assembly functional requirements **T** 1606 AP210 assembly physical design **T** 1607 AP210 assembly physical interface requirements **T** 1608 AP210 assembly physical requirements **T** 1609 AP210 assembly requirement allocation **T** 1610 AP210 assembly technology constraints **T** 1611 AP210 connection zone based model extraction **T**1612 AP210 device functional and physical characterization **T** 1613 Physical unit non planar design view **T** 1614 AP210 functional decomposition **T** 1615 AP210 functional requirement allocation **T** 1616 AP210 functional specification **T** 1617 AP210 interconnect design **T** 1618 AP210 interconnect design for microwave **T** 1619 AP210 interconnect functional requirements **T** 1620 AP210 interconnect physical requirements **T** 1621 AP210 interconnect requirement allocation **T** 1622 AP210 interconnect technology constraints **T** 1623 AP210 laminate assembly design	**STEP AP210 Modules** **S AM Title** **T** 1691 Interface component **T** 1692 Land **T** 1693 Layered 2d shape **T** 1694 Layered 3d shape **T** 1695 Layered interconnect module 2d design **T** 1696 Layered interconnect module 3d design **D** 1697 Layered interconnect module 3d shape **T** 1698 Layered interconnect module design **D** 1699 Layered interconnect module design with design intent modifications **T** 1700 Layered interconnect module with printed component design **T** 1701 Layout macro definition **T** 1702 Manifold subsurface **T** 1703 Model parameter **T** 1704 Network functional design view **T** 1705 Functional usage view **T** 1706 Non feature shape element **T** 1707 Package **T** 1708 Packaged connector model **T** 1709 Packaged part white box model **T** 1710 Packaged part black box model **T** 1711 Part external reference **T** 1712 Part feature function

T 1624 AP210 package functional and physical characterization
T 1625 AP210 packaged part white box model
T 1626 AP210 physical unit physical characterization
T 1627 AP210 printed part functional and physical characterization
T 1628 AP210 product data management
D 1629 AP210 product requirement allocation
T 1630 AP210 product rule

T 1631 Area 2d
T 1632 Assembly 2d shape
T 1633 Assembly 3d shape
T 1634 Assembly component placement requirements
T 1635 Assembly functional interface requirement
T 1636 Assembly module design
T 1637 Assembly module macro definition
T 1638 Assembly module with cable component 2d
T 1639 Assembly module with cable component 3d
T 1640 Assembly module with macro component

T 1641 Assembly module with subassembly
T 1642 Assembly module usage view
T 1643 Assembly module with interconnect component
T1644 Assembly module with cable component
T 1645 Assembly module with packaged connector component
T 1646 Assembly shape
T 1647 Assembly physical interface requirement
T 1648 Assembly physical requirement allocation
T 1649 Assembly technology
T 1650 Bare die

T 1651 Basic curve
T 1652 Basic geometry
T 1653 Cable
T 1654 Characteristic
T 1655 Chemical substance
T 1656 Component grouping
T 1657 Component feature
T 1658 Connectivity allocation to physical network
T 1659 Curve swept solid
T 1660 Datum difference based mode

T 1661 Design management
T 1662 Design specific assignment to assembly usage view
T 1663 Design specific assignment to interconnect usage view
T 1664 Device marking
T 1665 Electrical network definition
T 1666 Extended geometric tolerance
T 1667 Extended elemental geometric shape
T 1668 Fabrication joint
T 1669 Fabrication requirement
T 1670 Fabrication technology

T 1671 Feature and connection zone
T 1672 Fill area style
T 1673 Edge shape feature
T 1674 Functional assignment to part
T 1675 Functional decomposition to assembly design
T 1676 Functional decomposition to design
T 1677 Functional decomposition to interconnect design
T 1678 Functional decomposition with nodal representation to packaged mapping
T 1679 Functional specification
T 1680 Functional unit requirement allocation

T 1681 Generic material aspects
T 1682 Interconnect 2d shape
T 1683 Interconnect 3d shape
T 1684 Interconnect module connection routing
T 1685 Interconnect module to assembly module relationship
T 1686 Interconnect module usage view
T 1687 Interconnect module with macros
T 1688 Interconnect non planar shape
T 1689 Interconnect physical requirement allocation
T 1690 Interconnect placement requirements

T 1713 Part feature grouping
T 1714 Part feature location
T 1715 Part occurrence
T 1716 Part template 2d shape
T 1717 Part template 3d shape
T 1718 Part template extension
T 1719 Part template non planar shape
T 1720 Part template shape with parameters

T 1721 Physical component feature
T 1722 Physical layout template
T 1723 Physical node requirement to implementing component allocation
T 1724 Physical unit 2d design view
T 1725 Physical unit 3d design view
T 1726 Physical unit 2d shape
T 1727 Physical unit 3d shape
T 1728 Physical unit design view
T 1729 Physical unit interconnect definition
T 1730 Physical unit shape with parameters

T 1731 Constructive solid geometry 2d
T 1732 Physical unit usage view
T 1733 Planned characteristic
T 1734 Pre defined datum symbol
T 1735 Pre defined datum 2d symbol
T 1736 Pre defined datum 3d symbol
T 1737 Printed physical layout template
T 1738 Product identification extension
T 1739 Production rule
T 1740 Requirement decomposition

T 1741 Sequential laminate assembly design
T 1742 Shape composition
T 1743 Shape parameters
T 1744 Shield
T 1745 Signal
T 1746 Software
T 1747 Specification document
T 1748 Stratum non planar shape
T 1749 Styled curve
T 1750 Text representation

T 1751 Test requirement allocation
T 1752 Thermal network definition
T 1753 Value with unit extension
T 1754 Via component
T 1755 Physical connectivity definition
T 1756 Conductivity material aspects
T 1757 Test select product
D 1758 Promissory usage in product concept
T 1759 Ap210 datum difference based model definition
T 1760 Pre defined product data management specializations

T 1761 Information product
T 1762 Generic product occurrence
T 1763 Integral shield
T 1764 Shape feature
T 1765 Characterizable object

Legend: TS Status
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jgnell, 1989-Oct.-23; **rev. 2002-Nov-08**. Origin: ISO 10303 Editing Committee. On-line: http://www.nist.gov/sc5/soap/
Chg 1. 2004-06-20/jpbrazy Reverse engineered SOAP to MS Word source to enable linking to SC4ONLINE Project folders.
Chg 2. 2006-05-05/jpbrazy - Updated Status through 2006-03-31
Chg 3. 2007-02-28/jpbrazy - Updated status through 2006-12-31