1. C:\DassaultSystemes\R2020x\3DSpace\server\Apps\BusinessProcessServices\V6R2020x\Modules\ENOFramework\AppInstall\Programs\config.xml中添加以下内容

<BOTYPE name="YF\_SupplierPart" includes="basic" />

<BOTYPE name="YF\_CustomerPart" includes="basic"/>

<BOTYPE name="YF\_ColorPart" includes="basic" />

<BOTYPE name="YF\_Requirement" includes="basic" />

<BOTYPE name="YF\_Mold" includes="basic"/>

<BOTYPE name="YF\_PrdBaseline" includes="basic"/>

<BOTYPE name="YF\_DA" includes="basic" />

<RELATIONSHIPTYPE active="true" includes="" name="YF\_PrdAlternate" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_PrdSubstitute" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="Manufacturing Responsibility" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_PrdRelatedSP" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_PrdRelatedCP" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_SPRelatedSupplier" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_CPRelatedCustomer" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_CRRelatedDA" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_PrdRelatedColorPart" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_PrdRelatedMold" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_MoldRelatedPlant" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="YF\_PrdRelatedBaseline" searchable="false"/>

<RELATIONSHIPTYPE active="true" includes="" name="MCO Change Authority" searchable="false"/>

1. C:\DassaultSystemes\R2020x\3DSpace\server\Apps\BusinessProcessServices\V6R2020x\Modules\ENOFramework\AppInstall\Programs\config\_CV\_Core.xml中添加以下内容

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_PrdAlternate"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_PrdSubstitute"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="Manufacturing Responsibility"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_PrdRelatedSP"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_PrdRelatedCP"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_SPRelatedSupplier"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_CPRelatedCustomer"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_CRRelatedDA"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_PrdRelatedColorPart"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_PrdRelatedMold"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_MoldRelatedPlant"/>

<RELATIONSHIPTYPE.EXTFIELDS includes="ro.navigation" name="YF\_PrdRelatedBaseline"/>

<RELATIONSHIPTYPE.EXTFIELDS name="MCO Change Authority" includes="ro.navigation" />

1. 启动mql，重建索引

* set context user creator;
* clear searchindex;
* set system searchindex file C:\DassaultSystemes\R2020x\3DSpace\server\Apps\BusinessProcessServices\V6R2020x\Modules\ENOFramework\AppInstall\Programs\config.xml;
* clear searchindex;
* start searchindex mode full;

1. 修改C:\Apps\as20x\as-3dspaceCas\webapps\3dspace\WEB-INF\classes\RIPE\resources\ENORelNav\_GeneralProperties.properties，新增支持索引的类型

supported\_types = "Company";"YF\_SupplierPart";"YF\_CustomerPart";"YF\_ColorPart";"YF\_Requirement";"YF\_Mold";"YF\_PrdBaseline";"YF\_DA";"MCO";"MCAD Model";"MCAD Assembly";"MCAD Component";"MCAD Representation";"CATDrawing";"CATAnalysisResults";"Workspace";"Personal Workspace";"Workspace Vault";"Document";"PLMCoreReference";"PLMCoreRepReference";"Change";"Project Management";"Task Management";"CLIN";"WBSE"

1. C:\Apps\as20x\as-3dspaceCas\webapps\3dspace\WEB-INF\classes\RIPE\profiles\ENORelNav\_Profiles.json，定义UI中的关系组合

"roles": {

"CSV": {

"profiles": [ "WhereUsed", "Designer", "ProjectManager", "MBOM\_analyst\_V6", "Process\_analyst\_V6", "Resource\_analyst\_V6", "Simulation", "ModelicaRelation", "WhereUsed\_Material", "V6Knowledgeware", "EBOM\_Relations", "ReviewInterference", "Change\_Traceability", "Change\_Responsibility", "Change\_Impact", "AER\_Contract","SimulationProcess","Issue\_Relations" , "ModelRelatedStructures" , "Power\_Traceability"]

},

{

"name" : "Change\_Traceability",

"relations": [

{"name":"changeaction\_from"},{"name":"changeaction\_to"},

{"name":"changeorder\_from"},{"name":"changeorder\_to"},

{"name":"changebreakdown\_from"},{"name":"changebreakdown\_to"},

{"name":"MCOChangeAuthority\_to"},{"name":"YF\_CRRelatedDA\_to"},

{"name" :"resolvedTo\_to"}, {"name" :"resolvedTo\_from"}

]

},

{

"name" : "Power\_Traceability",

"relations": [

{"name":"YF\_PrdAlternate\_to"},

{"name":"ManufacturingResponsibility\_from"},

{"name":"YF\_PrdRelatedSP\_to"},

{"name":"YF\_PrdRelatedCP\_to"},

{"name":"YF\_PrdRelatedColorPart\_to"},

{"name":"YF\_PrdRelatedMold\_to"},

{"name":"YF\_PrdRelatedBaseline\_to"},

{"name":"YF\_MoldRelatedPlant\_to"},

{"name":"YF\_SPRelatedSupplier\_to"},

{"name":"YF\_CPRelatedCustomer\_to"}

]

}

注：YF\_PrdSubstitute比较特殊，此处无法展示

1. C:\Apps\as20x\as-3dspaceCas\webapps\3dspace\WEB-INF\classes\RIPE\profiles\ENORelNav\_By\_Type\_Profiles.json中，定义各类型的对象所显示的关系

{

"name" : "VPMReference",

"relations": [{"name" :"v6\_implementScope\_from" },{"name" :"v6\_implementScope\_to" },{"name" :"v6\_ProductOutputOfMBOM\_from" },{"name" :"v6\_MBOMOutputOfProcess\_from" },{"name" :"v6\_capableRsc\_from" },

{"name" :"v6\_cad\_document\_to"},{"name" :"v6\_cad\_document\_from" },{"name" :"XCADItem\_from" },{"name" :"v6\_drawing\_from" },{"name" :"mat\_MadeOf\_from"},{"name" :"mat\_CoveredBy\_from"},

{"name" :"mat\_DecalAppliedBy\_from"},{"name" :"isr\_ctxt\_from"},{"name" :"isrgroup\_ctxt\_from"},{"name" :"rvw\_ctxt\_from"},{"name" :"rvw\_validated\_from"},{"name" :"mkp\_ctxt\_from"},

{"name" :"partspecification\_from" },{"name" : "engineeringDefinition\_from"},{"name" :"caproposedwhere\_from"},{"name" :"carealizedwhere\_from"},{"name":"YF\_PrdAlternate\_to"},{"name":"ManufacturingResponsibility\_from"},{"name":"YF\_PrdRelatedSP\_to"},{"name":"YF\_PrdRelatedCP\_to"},{"name":"YF\_PrdRelatedColorPart\_to"},{"name":"YF\_PrdRelatedMold\_to"},{"name":"YF\_PrdRelatedBaseline\_to"}]

},

{

"name" : "Change Order",

"relations": [{"name" :"changeaction\_to"},{"name" :"changeorder\_from"},{"name" :"changebreakdown\_from"},{"name" :"MCOChangeAuthority\_to"},{"name" :"YF\_CRRelatedDA\_to"}]

},

{

"name" : "Change Request",

"relations": [{"name" :"changeaction\_to"},{"name" :"changeorder\_to"},{"name" :"YF\_CRRelatedDA\_to"}]

},

,{

"name" : "YF\_Mold",

"relations": [{"name" :"YF\_MoldRelatedPlant\_to"}]

},

{

"name" : "YF\_SupplierPart",

"relations": [{"name" :"YF\_SPRelatedSupplier\_to"}]

},

{

"name" : "YF\_CustomerPart",

"relations": [{"name" :"YF\_CPRelatedCustomer\_to"}]

},

1. 修改C:\Apps\as20x\as-3dspaceCas\webapps\3dspace\WEB-INF\classes\RIPE\patterns\Customer\_Patterns.json，定义Relational Explorer中索引的信息

,{

"name": "YF\_PrdAlternate\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_PrdAlternate"}, "direction" : "to"}]}]

},

{

"name": "ManufacturingResponsibility\_from",

"computepath": "from",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "Manufacturing Responsibility"}, "direction" : "from"}]}]

},

{

"name": "YF\_PrdRelatedSP\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_PrdRelatedSP"}, "direction" : "to"}]}]

},

{

"name": "YF\_PrdRelatedCP\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_PrdRelatedCP"}, "direction" : "to"}]}]

},

{

"name": "YF\_PrdRelatedColorPart\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_PrdRelatedColorPart"}, "direction" : "to"}]}]

},

{

"name": "YF\_PrdRelatedMold\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_PrdRelatedMold"}, "direction" : "to"}]}]

},

{

"name": "YF\_PrdRelatedBaseline\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_PrdRelatedBaseline"}, "direction" : "to"}]}]

},

{

"name": "YF\_MoldRelatedPlant\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_MoldRelatedPlant"}, "direction" : "to"}]}]

},

{

"name": "YF\_SPRelatedSupplier\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_SPRelatedSupplier"}, "direction" : "to"}]}]

},

{

"name": "YF\_CPRelatedCustomer\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_CPRelatedCustomer"}, "direction" : "to"}]}]

}

1. 修改C:\Apps\as20x\as-3dspaceCas\webapps\3dspace\WEB-INF\classes\RIPE\patterns\ENORelNav\_ECM\_Patterns.json，定义Relational Explorer中索引的信息

,{

"name": "MCOChangeAuthority\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "MCO Change Authority"}, "direction" : "to"}]}]

},

{

"name": "YF\_CRRelatedDA\_to",

"computepath": "to",

"queries" : [{ "definition":[{"navigationType" : "relation","qualityFilter" : {"rel\_type" : "YF\_CRRelatedDA"}, "direction" : "to"}]}]

}

1. 修改C:\Apps\as20x\as-3dspaceCas\webapps\3dspace\webapps\SNNavigationMap\SNNavigationMap\_en.js 定义国际化

define("DS/SNNavigationMap/assets/nls/SNNavigationMap\_ECM", {

Change\_Traceability: "Change Traceability",

Change\_Responsibility: "Change Responsibility For",

Change\_Impact: "Change Impact",

changeaction: "Change Action",

changeaction\_from: "Change Action For",

changeaction\_to: "Change Action",

changeorder: "Change Order",

changeorder\_from: "Change Order For",

changeorder\_to: "Change Order",

changebreakdown: "Change Breakdown",

changebreakdown\_from: "Parent Change",

changebreakdown\_to: "Child Change",

changefollower: "Change Follower",

changefollower\_from: "Change Follower For",

changefollower\_to: "Change Follower",

changereviewer: "Change Reviewer",

changereviewer\_from: "Change Reviewer For",

changereviewer\_to: "Change Reviewer",

technicalassignee: "Change Assignee",

technicalassignee\_from: "Change Assignee For",

technicalassignee\_to: "Change Assignee",

resolvedTo: "Resolved Issue",

resolvedTo\_from: "Resolved Item",

resolvedTo\_to: "Resolved By",

MCOChangeAuthority\_to: "MCO Change Authority",

YF\_CRRelatedDA\_to: "Deviation Authorization",

caproposedwhere\_from: "Proposed Change of",

caproposedwhere\_to: "Proposed Change",

carealizedwhere\_from: "Realized Change of",

carealizedwhere\_to: "Realized Change"

});

define("DS/SNNavigationMap/assets/nls/SNNavigationMap\_Customer", {

Power\_Traceability:"Power Traceability",

YF\_PrdAlternate\_to:"Alternate Part",

ManufacturingResponsibility\_from:"Related Plant of Product",

YF\_PrdRelatedSP\_to:"Related Supplier Part",

YF\_PrdRelatedCP\_to:"Related Customer Part",

YF\_PrdRelatedColorPart\_to:"Related Color Part",

YF\_PrdRelatedMold\_to:"Related Mold",

YF\_PrdRelatedBaseline\_to:"Related Baseline",

YF\_MoldRelatedPlant\_to:"Related Plant of Mold",

YF\_SPRelatedSupplier\_to:"Related Supplier",

YF\_CPRelatedCustomer\_to:"Related Customer"

});

同样把SNNavigationMap\_zh.js也加一下

Change\_Traceability: "更改可跟踪性",

Change\_Responsibility: "更改以下项的责任",

Change\_Impact: "更改影响",

changeaction: "更改操作",

changeaction\_from: "更改以下项的操作",

changeaction\_to: "更改操作",

changeorder: "更改订单",

changeorder\_from: "更改以下项的顺序",

changeorder\_to: "更改订单",

changebreakdown: "更改分类",

changebreakdown\_from: "父更改",

changebreakdown\_to: "子级更改",

changefollower: "更改遵循者",

changefollower\_from: "更改以下项的遵循者",

changefollower\_to: "更改遵循者",

changereviewer: "更改审阅者",

changereviewer\_from: "更改以下项的审阅者",

changereviewer\_to: "更改审阅者",

technicalassignee: "更改受托人",

technicalassignee\_from: "更改以下项的受托人",

technicalassignee\_to: "更改受托人",

resolvedTo: "已解决问题",

resolvedTo\_from: "已解决项目",

resolvedTo\_to: "解决人",

MCOChangeAuthority\_to: "MCO",

YF\_CRRelatedDA\_to: "Deviation Authorization",

caproposedwhere\_from: "Proposed Change of",

caproposedwhere\_to: "Proposed Change",

carealizedwhere\_from: "Realized Change of",

carealizedwhere\_to: "Realized Change"

});

define("DS/SNNavigationMap/assets/nls/SNNavigationMap\_Customer", {

Power\_Traceability:"物理模型关系追溯",

YF\_PrdAlternate\_to:"全局替换",

ManufacturingResponsibility\_from:"工厂",

YF\_PrdRelatedSP\_to:"供应商件",

YF\_PrdRelatedCP\_to:"客户件",

YF\_PrdRelatedColorPart\_to:"颜色件",

YF\_PrdRelatedMold\_to:"模具",

YF\_PrdRelatedBaseline\_to:"基线",

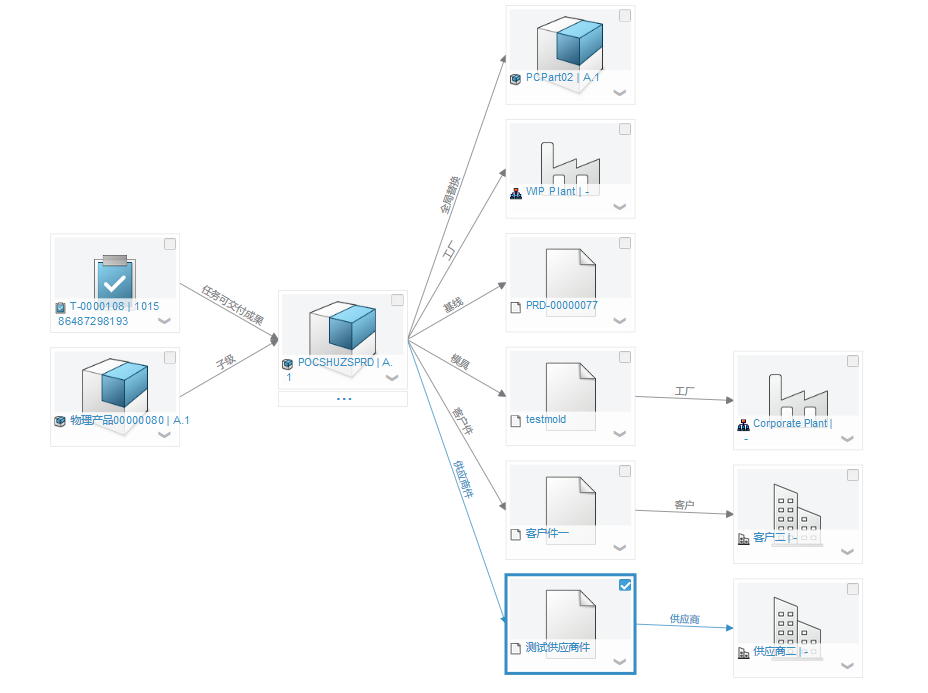
YF\_MoldRelatedPlant\_to:"工厂",

YF\_SPRelatedSupplier\_to:"供应商",

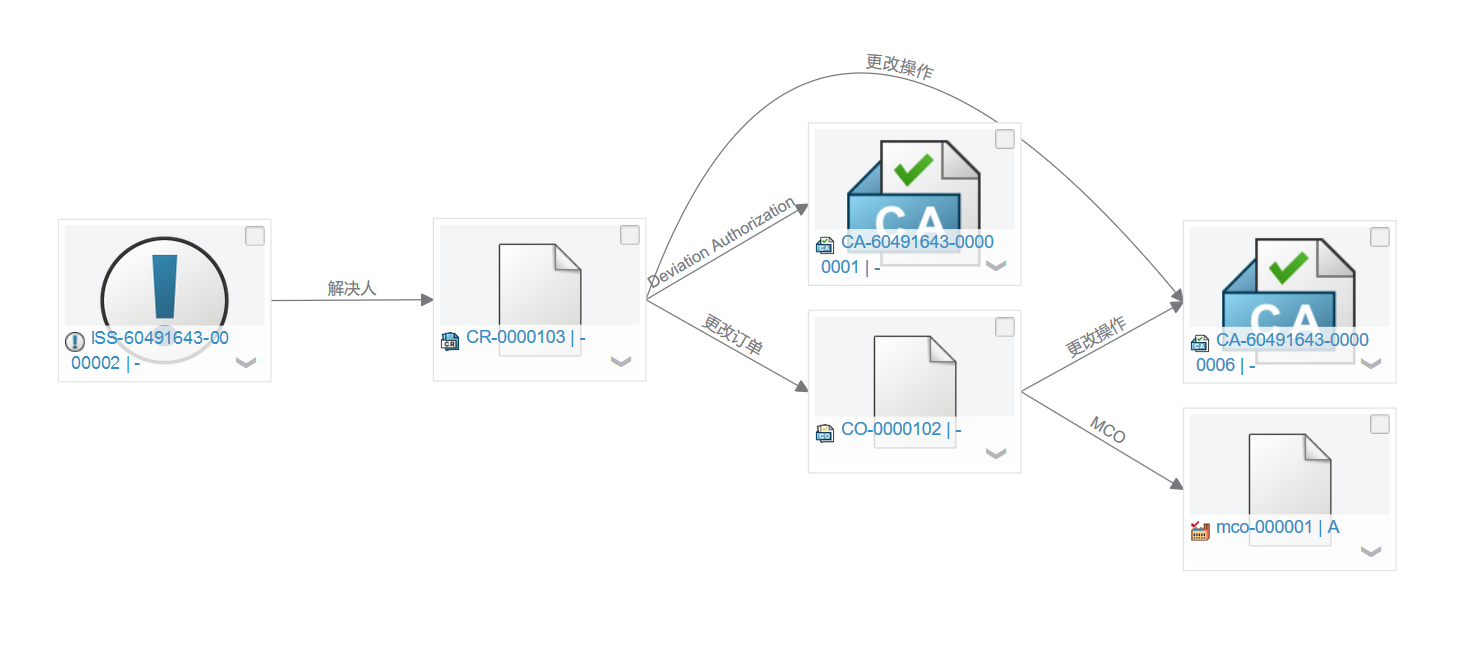
YF\_CPRelatedCustomer\_to:"客户"

});

物理模型关系追溯 - 测试截图：



变更关系追溯 – 测试截图



代码包：（2.0增加从CO展到DA，调整DA关系在en环境下的显示名）

