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/* CIF PackageDiagram */
/* CIF Page 1 (3190,3190) */
/* CIF Frame (95,95),(1595,1595) */
/* CIF TextPosition (119,190) */
/* CIF TextPosition (1555,119) PageName */
/* CIF Specific CSDL Version 1.1 */
/* CIF Specific SDT OriginalFileName 'accessp1signals.sun' */
/* CIF Specific SDT Page 1 Scale 90 Grid (50,50) AutoNumbered */
PACKAGE AccessP1Signals ;
/* CIF CurrentPage 1 */
/* CIF Text (285,333),(596,333) */
/* CIF TextPosition (285,333) */
signal outOfService,
OK,ERR;
signal unlock,unlocked;
signal
newCode(Integer),
code(Integer);
signal step,stepDoor;

/* CIF End Text */
/* CIF End PackageDiagram */
ENDPACKAGE;
/* CIF BlockDiagram */
/* CIF Page 1 (3190,3190) */
/* CIF Frame (95,95),(1595,1595) */
/* CIF TextPosition (119,190) */
/* CIF TextPosition (1555,119) PageName */
/* CIF PackageReference (571,119),(452,142) */
/* CIF TextPosition (571,119) */
/* CIF Specific CSDL Version 1.1 */
/* CIF Specific SDT OriginalFileName 'accessp1.sbl' */
/* CIF Specific SDT Page 1 Scale 90 Grid (50,50) AutoNumbered */
use AccessP1Signals; BLOCK accessP1 ;
/* CIF CurrentPage 1 */
/* CIF SignalRoute (1333,809),(1333,1214) */
/* CIF TextPosition (1238,1137) */
/* CIF TextPosition (1357,1071) Signallist1 */
/* CIF TextPosition (1357,833) Signallist2 */
    SIGNALROUTE accessp1Ename83__i
    FROM Controller TO Door WITH unlock,
stepDoor
        ;
    FROM Door TO Controller WITH step ;
/* CIF SignalRoute (1166,1262),(95,1262) */
/* CIF TextPosition (619,1190) */
/* CIF TextPosition (166,1166) Signallist1 */
    SIGNALROUTE chDoorEnv
    FROM Door TO ENV WITH unlocked ;

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/* CIF SignalRoute (95,762),(1190,762) */
/* CIF TextPosition (571,714) */
/* CIF TextPosition (904,785) Signallist1 */
    SIGNALROUTE chNewCode
    FROM ENV TO Controller WITH newCode ;
/* CIF SignalRoute (1190,476),(95,476) */
/* CIF TextPosition (595,404) */
/* CIF TextPosition (190,333) Signallist1 */
    SIGNALROUTE chCntrEnv
    FROM Controller TO ENV WITH outOfService,
    OK,ERR          ;
/* CIF SignalRoute (95,619),(1190,619) */
/* CIF TextPosition (595,571) */
/* CIF TextPosition (928,642) Signallist1 */
    SIGNALROUTE chEnvCntr
    FROM ENV TO Controller WITH code ;
/* CIF Process (1166,1214),(334,95) */
/* CIF TextPosition (1166,1214) */
    PROCESS Door REFERENCED;
/* CIF Process (1190,428),(286,381) */
/* CIF TextPosition (1190,428) */
    PROCESS Controller REFERENCED;
/* CIF End BlockDiagram */
ENDBLOCK;
/* CIF ProcessDiagram */
/* CIF Page 1 (3190,3190) */
/* CIF Frame (95,95),(1595,1595) */
/* CIF TextPosition (119,190) */
/* CIF TextPosition (1555,119) PageName */
/* CIF Specific CSDL Version 1.1 */
/* CIF Specific SDT OriginalFileName 'door.spr' */
/* CIF Specific SDT Page 1 Scale 90 Grid (50,50) AutoNumbered */
PROCESS<<BLOCK accessP1>> Door ;
/* CIF CurrentPage 1 */
/* CIF Start (1071,190),(191,95) */
/* CIF TextPosition (1071,190) */
    START;
/* CIF Line (1166,285),(1166,333) */
/* CIF NextState (1000,333),(333,95) */
/* CIF TextPosition (1000,333) */
    NEXTSTATE doorLocked ;
/* CIF State (1000,333),(333,95) */
/* CIF TextPosition (1000,333) */
    STATE doorLocked ;
/* CIF Line (1166,428),(1166,476) */
/* CIF Input (1023,476),(286,95) Right */
/* CIF TextPosition (1023,476) */
    INPUT unlock ;
/* CIF Line (1166,571),(1166,619) */
/* CIF Output (1000,619),(333,95) Right */

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/* CIF TextPosition (1000,619) */
OUTPUT step ;
/* CIF Line (1166,714),(1166,762) */
/* CIF Output (1000,762),(333,95) Right */
/* CIF TextPosition (1000,762) */
OUTPUT unlocked ;
/* CIF Line (1166,857),(1166,976) */
/* CIF NextState (1000,976),(333,95) */
/* CIF TextPosition (1000,976) */
NEXTSTATE doorUnlocked ;

/* CIF End State */
ENDSTATE;
/* CIF State (1000,976),(333,95) */
/* CIF TextPosition (1000,976) */
STATE doorUnlocked ;
/* CIF Line (1166,1071),(1166,1166) */
/* CIF Input (976,1166),(381,96) Right */
/* CIF TextPosition (976,1166) */
INPUT stepDoor
;
/* CIF Line (1166,1262),(1166,1357) */
/* CIF NextState (1000,1357),(333,95) */
/* CIF TextPosition (1000,1357) */
NEXTSTATE doorLocked ;

/* CIF End State */
ENDSTATE;
/* CIF End ProcessDiagram */
ENDPROCESS;
/* CIF ProcessDiagram */
/* CIF Page 1 (3620,3190) */
/* CIF Frame (95,95),(1810,1595) */
/* CIF TextPosition (119,190) */
/* CIF TextPosition (1770,119) PageName */
/* CIF Specific CSDL Version 1.1 */
/* CIF Specific SDT OriginalFileName 'controller.spr' */
/* CIF Specific SDT Page 1 Scale 90 Grid (50,50) AutoNumbered */
PROCESS<<BLOCK accessP1>> Controller ;
/* CIF CurrentPage 1 */
/* CIF Text (119,190),(381,191) */
/* CIF TextPosition (119,190) */
dcl
codeDoor,y
Integer :=0;

/* CIF End Text */
/* CIF Start (1000,190),(190,95) */
/* CIF TextPosition (1000,190) */
START;

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/* CIF Line (1095,285),(1095,357) */
/* CIF NextState (1000,357),(190,95) */
/* CIF TextPosition (1000,357) */
NEXTSTATE init ;
/* CIF State (690,1381),(286,95) */
/* CIF TextPosition (690,1381) */
STATE stepDoor ;
/* CIF Line (833,1476),(833,1500),(1095,1500),(1095,1071),(1309,1071),(1309,1095) */
/* CIF Input (1166,1095),(286,95) Right */
/* CIF TextPosition (1166,1095) */
INPUT step ;
/* CIF Line (1309,1190),(1309,1309) */
/* CIF Output (1166,1309),(286,95) Right */
/* CIF TextPosition (1166,1309) */
OUTPUT stepDoor ;
/* CIF Line (1309,1404),(1309,1476) */
/* CIF NextState (1214,1476),(190,95) */
/* CIF TextPosition (1214,1476) */
NEXTSTATE init ;

/* CIF End State */
ENDSTATE;
/* CIF State (1000,357),(190,95) */
/* CIF TextPosition (1000,357) */
STATE init ;
/* CIF Line (1095,452),(1095,476),(1595,476),(1595,523) */
/* CIF Input (1428,523),(334,96) Right */
/* CIF TextPosition (1428,523) */
INPUT code(y) ;
/* CIF Line (1595,619),(1595,666) */
/* CIF Decision (1381,666),(428,143) */
/* CIF TextPosition (1381,666) */
DECISION
codeDoor<=1000 ;
/* CIF Answer InvisibleBrackets */
/* CIF Line (1381,738),(833,738),(833,881) */
/* CIF TextPosition (1190,666) */
( false ):
/* CIF Decision (642,881),(381,142) */
/* CIF TextPosition (642,881) */
DECISION
y=codeDoor ;
/* CIF Answer InvisibleBrackets */
/* CIF Line (642,952),(381,952),(381,1119) */
/* CIF TextPosition (428,976) */
( false ):
/* CIF Output (214,1119),(333,95) Right */
/* CIF TextPosition (214,1119) */
OUTPUT ERR ;
/* CIF Line (381,1214),(381,1309) */

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/* CIF NextState (285,1309),(191,95) */
/* CIF TextPosition (285,1309) */
NEXTSTATE init ;
/* CIF Answer InvisibleBrackets */
/* CIF Line (833,1023),(833,1166) */
/* CIF TextPosition (857,1071) */
  ( true ) :
/* CIF Output (690,1166),(286,96) Right */
/* CIF TextPosition (690,1166) */
OUTPUT OK,unlock ;
/* CIF Line (833,1262),(833,1381) */
/* CIF NextState (690,1381),(286,95) */
/* CIF TextPosition (690,1381) */
NEXTSTATE stepDoor ;

/* CIF End Decision */
ENDDECISION;
/* CIF Answer InvisibleBrackets */
/* CIF Line (1595,809),(1595,904) */
/* CIF TextPosition (1619,833) */
  ( true ) :
/* CIF Output (1428,904),(334,96) Right */
/* CIF TextPosition (1428,904) */
OUTPUT outOfService ;
/* CIF Line (1595,1000),(1595,1047) */
/* CIF NextState (1500,1047),(190,96) */
/* CIF TextPosition (1500,1047) */
NEXTSTATE init ;

/* CIF End Decision */
ENDDECISION;
/* CIF Line (1095,452),(1095,476),(619,476),(619,500) */
/* CIF Input (357,500),(524,95) Right */
/* CIF TextPosition (357,500) */
INPUT newCode(codeDoor) ;
/* CIF Line (619,595),(619,714) */
/* CIF NextState (523,714),(191,95) */
/* CIF TextPosition (523,714) */
NEXTSTATE init ;

/* CIF End State */
ENDSTATE;
/* CIF End ProcessDiagram */
ENDPROCESS;

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