Survey on VEC and KBL Usage

Dear Madam/ Sir,

Welcome! Thank you for spending approximately 30 minutes giving your valuable inputs to our survey.

The goal is to gain an overview of the products supporting VEC and KBL. Should you have more than one product supporting VEC and KBL, please complete one survey for each product.

The survey structure is aligned to the main themes of VEC (Component Description & Instantiation, Topology & Geometry, Connectivity ...). The present survey covers general support of the functionalities and corresponding specifications. Further technical details may be part of a separate survey at a later time.

The survey is part of the prostep ivip project group ECAD-IF. The results will be used by prostep ivip, especially within the project groups ECAD-IF and PDM4VES.

As a participant, you will also receive the results of this survey.

Thank you again for your support.

1. I agree that my contact details, if necessary, could be passed on to other prostep ivip members.

Fragesupport: *Mandatory information in survey: contact name; optional information: e-mail address and phone number.*

◯ Yes

◯ No

PART 1 GENERAL INFORMATION

2. Company

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3. Product Name

4. Product Version

5. Product Release Date

6. General Product Information

Fragesupport: *Possibility to describe main product features*

7. Contact Person

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8. E-Mail

9. Phone Number

10. Does the product support VEC and/ or KBL?

◯ Product supports only VEC

◯ Product supports only KBL

◯ Product supports VEC and KBL

◯ Support for VEC is planned

◯ No, product does not support VEC nor KBL

11. Planned date and release version for VEC support

PART 2: VEC Features

PART 2.1: COMPONENT DESCRIPTION AND INSTANTIATION

ECAD WIKI: VEC Components

12. Is the functionality "Component Description and Instantiation" supported by your product?

◯ Yes

◯ No

13. Is the functionality supported as:

☐ Import Interface

☐ Export Interface

14. Is the data treated as

☐ Creator

☐ Consumer

☐ Processor

☐ Pass-through

☐ Other…

15. Which of the following basic specifications are supported for "Component Description"?

	Import Interface	Export Interface	Not supported
GeneralTechnicalPartSpecification	☐	☐	☐
PartStructureSpecification	☐	☐	☐
PartUsageSpecification	☐	☐	☐
PartOrUsageRelatedSpecification	☐	☐	☐
UsageConstraintSpecification	☐	☐	☐
UsageNodeSpecification	☐	☐	☐

16. Is the functionality "Connector" supported?

◯ Yes

◯ No

17. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
CavitySpecification	☐	☐	☐
ConnectorHousingCapSpecification	☐	☐	☐
ConnectorHousingSpecification	☐	☐	☐
MappingSpecification	☐	☐	☐
SlotSpecification	☐	☐	☐

18. Is the functionality "Terminal" supported?

◯ Yes

◯ No

19. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
CavityPartSpecification	☐	☐	☐
ContactSystemSpecification	☐	☐	☐
TerminalSpecification	☐	☐	☐
TerminalReceptionSpecification	☐	☐	☐
WireReceptionSpecification	☐	☐	☐

20. Are the functionalities "Seal and Plug" supported?

	Yes	No
Import Interface	○	○
Export Interface	○	○

21. Is the functionality "Wire" supported?

○ Yes

○ No

22. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
ConductorSpecification	☐	☐	☐
FilerSpecification	☐	☐	☐
WireEndAccessorySpecification	☐	☐	☐
WireSpecification	☐	☐	☐
WireElementSpecification	☐	☐	☐
WireGroupSpecification	☐	☐	☐

23. Is the functionality "Wire Protection" supported?

	Yes	No
Import Interface	○	○
Export Interface	○	○

24. Are the functionalities "Fixing, Grommet and Cable Conduct" supported?

◯ Yes

◯ No

25. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
CableDuctSpecification	☐	☐	☐
CableTieSpecification	☐	☐	☐
FixingSpecification	☐	☐	☐
GrommetSpecification	☐	☐	☐

26. Is the functionality "EE Component" supported?

Fragesupport: *for example: "EEComponentSpecification"*

	Yes	No
Import Interface	◯	◯
Export Interface	◯	◯

27. Is the functionality "Multi Fuse" supported?

	Yes	No
Import Interface	◯	◯
Export Interface	◯	◯

28. Is the functionality "Pins" supported?

	Yes	No
Import Interface	○	○
Export Interface	○	○

29. Is the functionality "Placement" supported?

Fragesupport: *for example: "PlacementSpecification"*

	Yes	No
Import Interface	○	○
Export Interface	○	○

30. Is the functionality "Part Substitution" supported?

Fragesupport: *for example: "PartSubstitutionSpecification"*

	Yes	No
Import Interface	○	○
Export Interface	○	○

31. Is the functionality "Compatibility Statement" supported?

Fragesupport: *for example: "CompatibilitySpecification"*

	Yes	No
Import Interface	○	○
Export Interface	○	○

PART 2: VEC Feat

PART 2.2: TOPOLOGY AND GEOMETRY

ECAD WIKI: VEC Topology and Geometry

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32. Is the functionality "Topology and Geometry" supported by your product?

◯ Yes

◯ No

33. Is the functionality supported as:

☐ Import Interface

☐ Export Interface

34. Is the data treated as

☐ Creator

☐ Consumer

☐ Processor

☐ Pass-Through

☐ Other…

35. Which of the following basic specifications are supported for "Topology and Geometry"?

	Import Interface	Export Interface	Not supported
TopologySpecification	☐	☐	☐
PlaceableElementSpecification	☐	☐	☐

36. Is the functionality "2D Geometry" supported?

◯ Yes

◯ No

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37. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
BuildingBlockSpecification2D	☐	☐	☐
HarnessDrawingSpecification2D	☐	☐	☐

38. Is the functionality "3D Geometry" supported?

◯ Yes

◯ No

39. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
BuildingBlockSpecification3D	☐	☐	☐
HarnessGeometrySpecification3D	☐	☐	☐

40. Is the functionality "Dimensions" supported?

Fragesupport: *for example: "DefaultDimensionSpecification"*

	Yes	No
Import Interface	◯	◯
Export Interface	◯	◯

41. Is the functionality "Routing" supported?

Fragesupport: *for example: "RoutingSpecification"*

	Yes	No
Import Interface	◯	◯
Export Interface	◯	◯

42. Is the functionality "Coupling" supported?

Fragesupport: *for example: "CouplingSpecification"*

	Yes	No
Import Interface	◯	◯
Export Interface	◯	◯

PART 2: VEC Features

PART 2.3: CONNECTIVITY

[ECAD WIKI: VEC Connectivity](#)

43. Is the functionality "Connectivity" supported by your product?

◯ Yes

◯ No

44. Is the functionality supported as:

☐ Import Interface

☐ Export Interface

45. Is the data treated as

☐ Creator

☐ Consumer

☐ Processor

☐ Pass-through

☐ Other… [_____]

46. Is the functionality "Architecture Diagrams" supported?

Fragesupport: *for example "SignalSpecification"*

	Yes	No
Import Interface	◯	◯
Export Interface	◯	◯

47. Is the functionality "System Diagrams" supported?

◯ Yes

◯ No

48. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
ConnectionSpecification	☐	☐	☐
NetSpecification	☐	☐	☐

49. Is the functionality "Wire Diagrams" supported?

◯ Yes

◯ No

50. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
ContactingSpecification	☐	☐	☐
WireGroupingSpecification	☐	☐	☐

PART 2: VEC Features

PART 2.4: COMPLEX PARTS

ECAD WIKI: VEC Complex Parts

51. Is the functionality "Complex Parts" supported by your product?

◯ Yes

◯ No

52. Is the functionality supported as:

☐ Import Interface

☐ Export Interface

53. Is the data treated as

☐ Creator

☐ Consumer

☐ Processor

☐ Pass-through

☐ Other…

54. Is the functionality "Assembly" supported?

Fragesupport: *for example: "CompositionSpecification"*

	Yes	No
Import Interface	◯	◯
Export Interface	◯	◯

55. Is the functionality "Harness" supported?

◯ Yes

◯ No

56. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
ModuleFamilySpecification	☐	☐	☐
ModuleListSpecification	☐	☐	☐

57. Is the functionality "Variant Configuration" supported?

◯ Yes

◯ No

58. Which of the following specifications are supported?

	Import Interface	Export Interface	Not supported
VariantCodeSpecification	☐	☐	☐
VariantConfigurationSpecification	☐	☐	☐
VariantGroupSpecification	☐	☐	☐

PART 2: VEC Features

PART 2.5: EXTERNAL MAPPING

ECAD WIKI: VEC External Mapping

59. Is the functionality "External Mapping" supported by your product?

Fragesupport: *for example: "ExternalMappingSpecification"*

◯ Yes

◯ No

60. Is the functionality supported as:

☐ Import Interface

☐ Export Interface

61. Is the data treated as

☐ Creator

☐ Consumer

☐ Processor

☐ Pass-through

☐ Other…

PART 2: VEC Features

PART 2.6: VEC PACKAGE

ECAD WIKI: VEC Package

62. Is the functionality "VEC Package" supported by your product?

◯ Yes

◯ No

63. Is the functionality supported as:

☐ Import Interface

☐ Export Interface

64. Is the data treated as

☐ Creator

☐ Consumer

☐ Processor

☐ Pass-through

☐ Other…

PART 2: VEC Features

PART 2.7: CUSTOM PROPERTIES

ECAD WIKI: VEC Description Custom Properties

65. Do you use "Custom Properties"?

◯ Yes

◯ No

66. Please list name and meaning of the Custom Properties you use

Fragesupport: *Hint: To preserve structured information copy/past your answer from Excel*

PART 3: FURTHER USE CASES

67. Which of the following Use Cases do you support?

☐ Delta Exchange

☐ Round Trip

☐ Reference of external documents

☐ None

☐ Other…

PART 4: SUGGESTIONS AND COMMENTS

68. Do you have any suggestions and/ or comments regarding the further development of VEC?

Part 5: SUPPORT OF KBL

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69. Does the product support KBL

◯ Yes

◯ No

70. Which of the following KBL classes (A-C) are supported by your product?

Fragesupport: *Rows marked with "*" are KBL 2.4 functionalities*

	Import Interface	Export Interface	Not supported
Abstract_slot *	☐	☐	☐
Abstract_slot_occurrence *	☐	☐	☐
Accessory	☐	☐	☐
Accessory_occurrence	☐	☐	☐
Alias_identification	☐	☐	☐
Approval	☐	☐	☐
Assembly_part	☐	☐	☐
Assembly_part_occurrence	☐	☐	☐
B_spline_curve	☐	☐	☐
Cartesian_point	☐	☐	☐

	Import Interface	Export Interface	Not supported
Cavity	☐	☐	☐
Cavity_occurrence	☐	☐	☐
Cavity_plug	☐	☐	☐
Cavity_plug_occurrence	☐	☐	☐
Cavity_seal	☐	☐	☐
Cavity_seal_occurrence	☐	☐	☐
Change	☐	☐	☐
Change_description *	☐	☐	☐
Changed_element *	☐	☐	☐
Co_pack_occurrence	☐	☐	☐

	Import Interface	Export Interface	Not supported
Co_pack_part	☐	☐	☐
Component	☐	☐	☐
Component_box *	☐	☐	☐
Component_box_connection *	☐	☐	☐
Component_box_connector *	☐	☐	☐
Component_box_connector_occurrence *	☐	☐	☐
Component_box_occurrence *	☐	☐	☐
Component_cavity *	☐	☐	☐
Component_cavity_occurrence *	☐	☐	☐
Component_occurrence	☐	☐	☐

	Import Interface	Export Interface	Not supported
Component_slot *	☐	☐	☐
Component_slot_occurrence *	☐	☐	☐
Connection	☐	☐	☐
Connection_or_occurrence	☐	☐	☐
Connector_housing	☐	☐	☐
Connector_occurrence	☐	☐	☐
Connector_usage	☐	☐	☐
Consumers *	☐	☐	☐
Contact_point	☐	☐	☐
Core	☐	☐	☐

	Import Interface	Export Interface	Not supported
Core_occurrence	☐	☐	☐
Creation	☐	☐	☐
Cross_section_area	☐	☐	☐

71. Which of the following KBL classes (D-L) are supported by your product?

Fragesupport: *Rows marked with "*" are KBL 2.4 functionalities*

	Import Interface	Export Interface	Not supported
Default_dimension_specification *	☐	☐	☐
Dimension_specification	☐	☐	☐
External_reference	☐	☐	☐
Extremity	☐	☐	☐
Fixed_component	☐	☐	☐
Fixing	☐	☐	☐
Fixing_assignment	☐	☐	☐
Fixing_occurrence	☐	☐	☐
Fuse *	☐	☐	☐
Fuse_occurrence *	☐	☐	☐

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	Import Interface	Export Interface	Not supported
Fuse_type *	☐	☐	☐
General_terminal	☐	☐	☐
General_wire	☐	☐	☐
General_wire_occurrence	☐	☐	☐
Harness	☐	☐	☐
Harness_configuration	☐	☐	☐
Harness_content	☐	☐	☐
Installation_instruction	☐	☐	☐
KBL_container	☐	☐	☐
Language_code *	☐	☐	☐

	Import Interface	Export Interface	Not supported
Localized_string *	☐	☐	☐
Located_component	☐	☐	☐

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72. Which of the following KBL classes (M-R) are supported by your product?

Fragesupport: *Rows marked with "*" are KBL 2.4 functionalities*

	Import Interface	Export Interface	Not supported
Material	☐	☐	☐
Modular_slot *	☐	☐	☐
Modular_slot_occurrence *	☐	☐	☐
Module	☐	☐	☐
Module_configuration	☐	☐	☐
Module_configuration_type	☐	☐	☐
Module_content	☐	☐	☐
Module_family	☐	☐	☐
Mounting_element	☐	☐	☐
Node	☐	☐	☐

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	Import Interface	Export Interface	Not supported
Numerical_value	☐	☐	☐
Part	☐	☐	☐
Part_substitution	☐	☐	☐
Part_usage_select	☐	☐	☐
Part_with_title_block	☐	☐	☐
Placed_element	☐	☐	☐
Processing_instruction	☐	☐	☐
Protection_area	☐	☐	☐
Reference_element *	☐	☐	☐
Routing	☐	☐	☐

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73. Which of the following KBL classes (S) are supported by your product?

Fragesupport: *Rows marked with "*" are KBL 2.4 functionalities*

	Import Interface	Export Interface	Not supported
SI_prefix	☐	☐	☐
SI_unit_name	☐	☐	☐
Schematic_connection *	☐	☐	☐
Segment	☐	☐	☐
Segment_form	☐	☐	☐
Slot	☐	☐	☐
Slot_occurrence	☐	☐	☐
Special_terminal_occurrence	☐	☐	☐
Special_wire_occurrence	☐	☐	☐
Specified_accessory_occurrence	☐	☐	☐

	Import Interface	Export Interface	Not supported
Specified_cavity_plug_occurrence	☐	☐	☐
Specified_cavity_seal_occurrence	☐	☐	☐
Specified_co_pack_occurrence	☐	☐	☐
Specified_component_box_occurrence *	☐	☐	☐
Specified_component_occurrence	☐	☐	☐
Specified_connector_occurrence	☐	☐	☐
Specified_fixing_occurrence	☐	☐	☐
Specified_special_terminal_occurrence	☐	☐	☐
Specified_special_wire_occurrence	☐	☐	☐
Specified_terminal_occurrence	☐	☐	☐

	Import Interface	Export Interface	Not supported
Specified_wire_occurrence	☐	☐	☐
Specified_wire_protection_occurrence	☐	☐	☐

74. Which of the following KBL classes (T-End) are supported by your product?

Fragesupport: *Rows marked with "*" are KBL 2.4 functionalities*

	Import Interface	Export Interface	Not supported
Terminal_occurrence	☐	☐	☐
Tolerance	☐	☐	☐
Transformation	☐	☐	☐
Unit	☐	☐	☐
Unit_dimension	☐	☐	☐
Value_determination	☐	☐	☐
Value_range	☐	☐	☐
Value_with_unit	☐	☐	☐
Wire_colour	☐	☐	☐
Wire_length	☐	☐	☐

	Import Interface	Export Interface	Not supported
Wire_occurrence	☐	☐	☐
Wire_or_core_occurrence	☐	☐	☐
Wire_protection	☐	☐	☐
Wire_protection_occurrence	☐	☐	☐
Wiring_group	☐	☐	☐