## **OPC 40084-11 Instance for umati Demonstrator**

The namespace for the instances is manufacturer specific, e.g. http://samplemanufacturer.com/umati sample corrugator instance/

Table 2 shows the complete structure of the instance needed for the umati demonstrator. The demonstrator requires, that all mandatory elements of the *Corrugator\_InterfaceType* are existent, even if there are not displayed in the dashboard. If the value of a variable a not displayed, is can be filled with a static dummy value (e.g. empty string). All displayed values are highlighted in **light-blue**.

Important: Version 2.0 of OPC 40084-11 must be used which defines, that the instance of the *Corrugator\_InterfaceType* is located under the Machines folder defined by OPC UA for machinery and that the *MachineIdentificationType* (also defined in OPC UA for Machinery) is used for the identification.

NamespaceURI Namespace Index Example http://opcfoundation.org/UA/ 0:NodeVersion 2:DeviceClass http://opcfoundation.org/UA/DI/ 2 http://opcfoundation.org/UA/PlasticsRubber/GeneralTypes/ 3 3:UsersType http://opcfoundation.org/UA/PlasticsRubber/Extrusion\_v2/GeneralTypes/ 4 4:ExtrusionDeviceType http://opcfoundation.org/UA/PlasticsRubber/Extrusion v2/HaulOff/ 5 5:ClampClosed http://opcfoundation.org/UA/Machinery/ 6 6:MachineIdentificationType

Table 1 - Namespaces used in this document

The default namespace OPC 40084-11 is not listed since all *BrowseNames* without prefix use this default namespace.

Table 2 - Sample instance of OPC 40084-11

BrowseName	Туре	Example Value	Remarks
Objects			
→ Machines			
→ Corrugator_ <manufacturer>_<serialnumber></serialnumber></manufacturer>	Corrugator_InterfaceType		
<ul><li>4:IsPresent</li></ul>	0:Boolean	true	1)
<ul><li>4:LineId</li></ul>	0:String	"Foil line 1"	1)
<ul> <li>3:SupportedLogbookEvents</li> </ul>	3:LogbookEventsEnumeration[]	empty array / NULL	1)
→ 2:Identification	6:MachineIdentificationType		
<ul><li>2:ProductInstanceUri</li></ul>		"https://samplemanufacturer.com/ Corrugator1234"	1)
<ul><li>2:Manufacturer</li></ul>	0:LocalizedText	"Sample Manufacturer"	
<ul><li>2:Model</li></ul>	0:LocalizedText	"Corrugator 3000"	2)
<ul><li>2:SerialNumber</li></ul>	0:String	"1234"	
<ul><li>2:DeviceClass</li></ul>	0:String	"Corrugator"	
<ul><li>5:Location</li></ul>	0:String	"K 14 F42/N 51.260407 E 6.744588"	2), 3)
<ul><li>ControllerName</li></ul>	0:String	"My Controller"	1)
→ 6:MachineryBuildingBlocks	0:FolderType		
→ 2:Identification	6:MachineIdentificationType	Reference to the instance Identification above	
→ 2:MachineryItemState	4:ExtrusionMachineryItemState_ StateMachineType		
<ul><li>CurrentState</li></ul>	0:LocalizedText	"Executing"	
– Id	0:Nodeld	ns=4;i=5092	1)
→ 4:ExtrusionExecutingSubState	4:ExtrusionExecutingSubState_ StateMachineType		1)
<ul><li>CurrentState</li></ul>	0:LocalizedText	"ControlledRun"	1)
– Id	0:Nodeld	ns=4;i=5070	1)
→ 2:MachineryOperationMode	6:MachineryOperationMode StateMachineType		
<ul><li>CurrentState</li></ul>	0:LocalizedText	"Processing"	
– Id	0:Nodeld	ns=6;i=5026	
→ 5:Drives	3:DrivesType		1), 4)
- 0:NodeVersion	0:String	"1"	1), 4)
0.110dc v 613l011	o.cumig	,	'/
<ul><li>5:ClampClosed</li></ul>	0:Boolean	true	
<ul><li>ExtruderEnabled</li></ul>	0:Boolean	true	
<ul><li>MouldId</li></ul>	0:String	"Mould 42"	

- 1) This variable is mandatory in the model but will not be displayed in the demonstrator
- Not mandatory in OPC UA for Machinery but for this model and will be displayed in the demonstrator
   See <a href="https://showcase.umati.org/Dashboard.html#location-of-fair-machine-and-software-icons-on-the-dashboard">https://showcase.umati.org/Dashboard.html#location-of-fair-machine-and-software-icons-on-the-dashboard</a> for rules for filling the location.
- 4) Container object is mandatory in the model, but no instances inside (besides Variable *NodeVersion*) needed.