Reference Information

Terminology

This section outlines the basic terminology used when discussing both the Rockwell and Delmia components. There is a one-to-one correlation between the Delmia and Rockwell terms within the same row.

Delmia Term	Description	Rockwell Term	Description
Type	The definition of a type.	User-Defined Type (UDT)	A type that contains one or more members.
Subtype	An individual variable within a Type	Member	An individual variable within a UDT.
Device	The definition of a device that can be used within a cell.	Add-On Instruction (AOI)	A user-defined instruction that can be re-used in Logic.
Port	A port on a device that can be defined as Input, Output, or InOut	Parameter	A parameter of an Add-On Instruction that can be defined as Input, Output, or InOut
Instance	A variable. The datatype of the variable can be a defined Type or Device.	Tag	A variable. The datatype of the variable can be a defined UDT or AOI.

Naming

Delmia and Rockwell adhere to different naming standards. Because of this, each will need to validate the names of components and instances upon synchronization. If a name does not comply with a common naming standard, the user shall be prompted to select a new name for the component.

The common naming standard is the following:

- Name cannot have more than 40 characters
- Name cannot have special characters, except the '_' (underscore)

Types

Since RSLogix 5000 does not support all the data types defined in Delmia Automation, the following conversions will take place automatically when data is imported into RSLogix 5000.

Delmia Automation types	RSLogix 5000 types
bool	BOOL
float32	REAL
int8	SINT
int16	INT
int32	DINT
uint8	INT
word8	INT
uint16	DINT
word16	DINT
string8	STRINCG
char8	SINT

Unsupported data types

If a type is not supported by the other side, an error is raised.
The tables below describe the types that are not supported and should not be exported to the other side.

Delmia Automation types
Any 64 bits types
Tuple
uint32 and word32
Pure

| RSLogix 5000 types |
| Any 64 bits types |
| Array |

Delmia ports with undefined type and/or direction

In Delmia Automation, setting types and/or directions of a port is not necessary. The DELMIA modeler computes directions and types of the ports from its usage (Typing inference). If some ports are not used, the directions and types remain undefined. In this case, the port cannot be exported.