**Proposed Resolution to comment#13**

Comment 13, page 2 line 41: In the Objectives are now topics "to document issues and challenges in managing reliable and timesensitive connectivity in the Flexible Factory" that are going beyond the Scope. The Flexible Factory is not mentioned in the scope

**Discussion 2019-12-12:**

suggested to replace "The scope of this report includes use cases and communication requirements for wired and wireless bridged networks. Dense use of wireless devices with differentiated QoS requirements and operation in a factory environment are taken into consideration. Gap analysis from existing IEEE 802 standards and necessary technology enhancement are also covered in the context of timesensitive networks for the future."

with

"The scope of this report includes use cases and communication requirements for Flexible Factory networks. Dense use of wireless devices with differentiated QoS requirements and operation in a Flexible Factory environment are taken into consideration. Gap analysis from existing IEEE 802 standards and necessary technology enhancement are also covered in the context of timesensitive networks for the future."

After the discussion, it is suggested to review the whole document and align the scope with its contents. As an example, need to add the E2E architecture consideration for FF.

This should also impact the resolution on CID#11

**Discussion 2019-12-20:**

Comment from Ludwig if he can state smart manufacturing in Nendica. He commented that there is ongoing joint project in IEC and ISO about smart manufactoring.

Maruhashi explained that the Smart manufacturing is the goal and that FF is one aspect of the Smart manufacturing.

Ludwig said that defition of Smart Manufacturing is agreed between IEC and ISO.

Agreed that Ludwig will submit the definition of Smart Manufacturing as defined by IEC and ISO and we will use this to add a sentence at the end of page 2 line 5 to say FF is one aspect of Smart manufacturing with the definition of smart manufacturing.

**Proposed resolution:**

1. Replace "The scope of this report includes use cases and communication requirements for wired and wireless bridged networks. Dense use of wireless devices with differentiated QoS requirements and operation in a factory environment are taken into consideration. Gap analysis from existing IEEE 802 standards and necessary technology enhancement are also covered in the context of time-sensitive networks for the future."

with

"The scope of this report includes use cases and communication requirements for Flexible Factory networks. Dense use of wireless devices with differentiated QoS requirements and operation in a Flexible Factory environment are taken into consideration. Gap analysis from existing IEEE 802 standards and necessary technology enhancement are also covered in the context of time-sensitive networks for the future."

1. Insert the following paragraph in page 2 after line 5.

“The “Flexible Factory” concept is one aspect of Smart Manufacturing[[1]](#footnote-1) [Newxx] indicating the enhancement of mobility and configurability of manufacturing facilities. It is supported by successful integration of wireless connectivity into the wired network in factories.”

1. Add the following new reference:

[Newxx] AI standards help accelerate digitalization of smart manufacturing, <https://www.iecetech.org/Technical-Committees/2019-06/AI-standards-help-accelerate-digitalization-of-smart-manufacturing>

1. Definition of Smart Manufacturing is jointly endorsed by ISO and IEC as:

Smart Manufacturing that improves its performance aspects with integrated and intelligent use of processes and resources in cyber, physical and human spheres to create and deliver products and services, which also collaborates with other domains within an enterprises’ value chains. [↑](#footnote-ref-1)