PRODUCT / PROCESS CHANGE INFORMATION

1. PCI basic data	
1.1 Company	STMicroelectronics International N.V
1.2 PCI No.	ANALOG MEMS SENSORS/26/16546
1.3 Title of PCI	STWD100 - Product Flavor Fuses Programming Change.
1.4 Product Category	Pls refer to the impacted products list.
1.5 Issue date	2026-09-25

2. PCI Team	
2.1 Contact supplier	
2.1.1 Name	KRISZTINA NEMETH
2.1.2 Phone	+49 8946006
2.1.3 Email	krisztina.nemeth@st.com
2.2 Change responsibility	
2.2.1 Product Manager	Francesco MACINA
2.1.2 Marketing Manager	Lionel GRILLO
2.1.3 Quality Manager	David MOCELLIN

3. Change		
3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	Die redesign : Mask or mask set change with new die design like metallization (specifically chip frontside) or bug fix	FE: ST Ang Mo Kio SINGAPORE EWS: ST Toa Payo SINGAPORE ASSY: CARSEM M. MALAYSIA FT: CARSEM S. MALAYSIA

4. Description of change		
	Old	New
4.1 Description	Fuses blown by laser for programming product flavors	Hard coded fuses product flavors
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	No Impact on safety or compliance with regulations and fit, function, performance, requirements, or subsequent processing of product.	

5. Reason / motivation for change	
5.1 Motivation	Physical fuses on die are used to program product flavor. These fuses are blown by laser for programming product flavor (P: tWD = 3.4ms/tPW = 3.4ms, W: tWD = 6.3ms/tPW = 210ms, X: tWD = 102ms/tPW = 210ms, Y: tWD = 1.6s/tPW = 210ms). Fuses abnormality was found in production after detecting yield loss at Electrical Wafer Sorting tests in place. Flavor fuses mask will be modified, hard coding product flavor fuses. Flavor fuses will not be blown anymore. Unit Level Traceability fuses are still blown by laser.
5.2 Customer Benefit	QUALITY IMPROVEMENT

6. Marking of parts / traceability of change	
6.1 Description	Internal codification

7. Timing / schedule	
7.1 Date of qualification results	2026-06-26
7.2 Intended start of delivery	2026-10-25
7.3 Qualification sample available?	Not Applicable

8. Qualification / Validation			
8.1 Description	16546 STWD100_FUSE_PRGM_CHANGE_Results Presentation.pdf		
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2026-09-25

9. Attachments (additional documentations)
16546 Public product.pdf 16546 STWD100_FUSE_PRGM_CHANGE_Results Presentation.pdf

10. Affected parts		
10. 1 Current		10.2 New (if applicable)
10.1.1 Customer Part No	10.1.2 Supplier Part No	10.1.2 Supplier Part No
	STWD100NYWY3F	
	STWD100YNWWY3F	

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Public Products List

Publict Products are off the shelf products. They are not dedicated to specific customers, they are available through ST Sales team, or Distributors, and visible on ST.com

PCI Title : STWD100 - Product Flavor Fuses Programming Change.

PCI Reference : ANALOG MEMS SENSORS/26/16546

Subject : Public Products List

Dear Customer,

Please find below the Standard Public Products List impacted by the change.

STWD100NYWY3F	STWD100YNXWY3F	STWD100YNYWY3F
STWD100NXWY3F	STWD100YNWWY3F	STWD100NWWY3F

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STWD100 - Product Flavor Fuses Programming Change

Team: Analog sub-group - Signal and Conditioning Business Unit (BU71) - Product Quality Assurance

Presenter name: Florian JOUANNE <florian.jouanne@st.com>

Date: June 26, 2026

Revision: 1.0

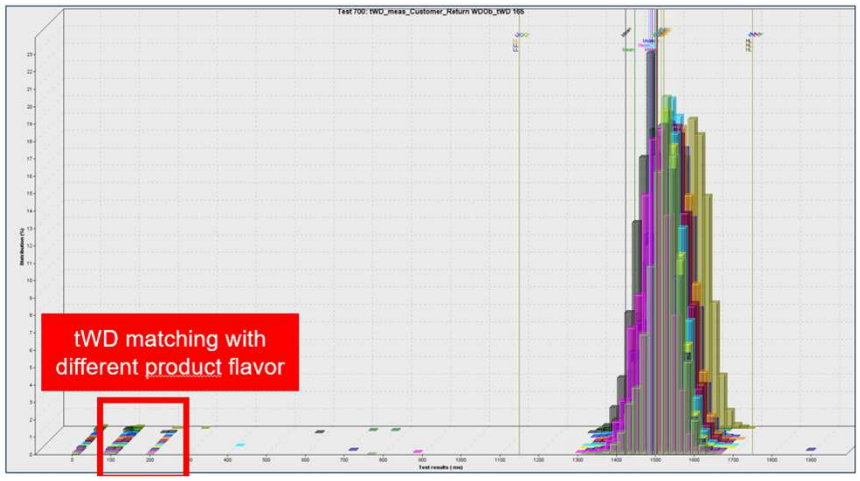
Reviewed by: Jerome D'AGOSTINO <jerome.dagostino@st.com>; Pawel FIEDOROW <pawel.fiedorow@st.com>; David MOCELLIN <david.mocellin@st.com>; Sylvain COLLIARD PIRAUD <sylvain.colliardpiraud@st.com>; Muriel ROUDET <muriel.roudet@st.com>; Jean-marc BUGNARD <jean-marc.bugnard@st.com>; Celine MONTANARI <celine.montanari@st.com>; Sebastien VIEILLARD <sebastien.vieillard@st.com>

Review date: July, 2026

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Change description

- Physical fuses on die are used to program product flavor.
- These fuses are blown by laser for programming product flavor (P: tWD = 3.4ms/tPW = 3.4ms, W: tWD = 6.3ms/tPW = 210ms, X: tWD = 102ms/tPW = 210ms, Y: tWD = 1.6s/tPW = 210ms).
- Fuses abnormality was found in production after detecting yield loss at Electrical Wafer Sorting tests in place.

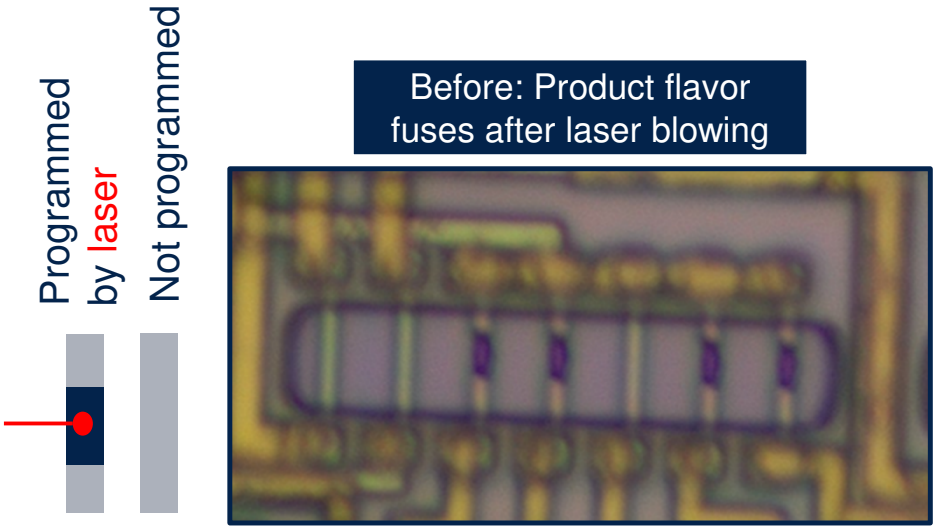


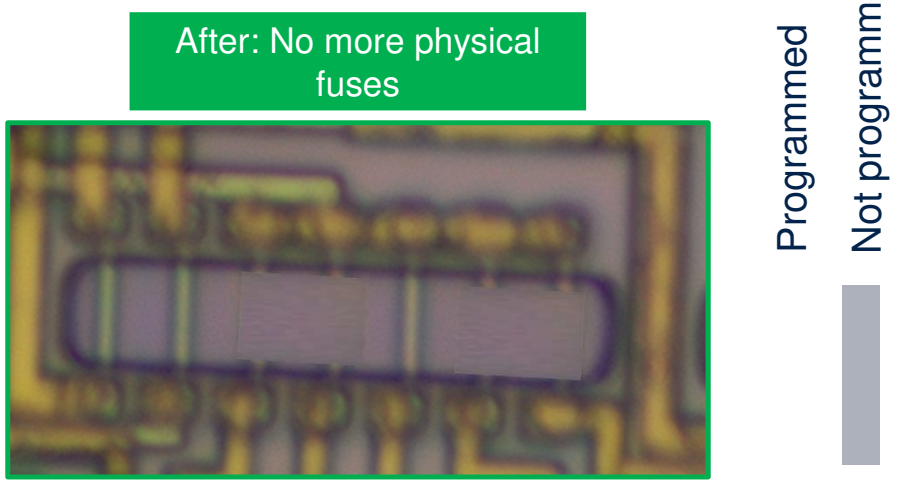
- This PCI tackles quality improvement.

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Change description

- Flavor fuses mask will be modified, hard coding product flavor fuses.
- Flavor fuses will not be blown anymore.
- Unit Level Traceability fuses are still blown by laser.





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Impact

- Finish good and die code conversions (Old/New):

OLD_FINISHED_GOOD_CODE	NEW FINISHED_GOOD_CODE	OLD_DIE_CODE	NEW_DIE_CODE
STWD100NWWY3F2	STWD100NWWY3F3	PN6VAW00	PN6VAWC6
STWD100NWWY3F7	STWD100NWWY3F4	PN6VAW00	PN6VAWC6
STWD100YNWWY3FH	STWD100YNWWY3F4	PN6VAW0Y	PN6VAWCY
STWD100YNWWY3FK	STWD100YNWWY3F3	PN6VAW0Y	PN6VAWCY
STWD100NYWY3F7	STWD100NYWY3F1	PN6VAYP0	PN6VAYP6
STWD100NYWY3FP	STWD100NYWY3F2	PN6VAYP0	PN6VAYP6
STWD100YNYWY3FH	STWD100YNYWY3FI	PN6VAY0Y	PN6VAYBY
STWD100YNYWY3FK	STWD100YNYWY3FJ	PN6VAY0Y	PN6VAYBY
STWD100NXWY3F2	STWD100NXWY3F3	PN6VAX00	PN6VAXD6
STWD100NXWY3F7	STWD100NXWY3F4	PN6VAX00	PN6VAXD6
STWD100YNXWY3FH	STWD100YNXWY3F4	PN6VAX0Y	PN6VAXDY
STWD100YNXWY3FK	STWD100YNXWY3F3	PN6VAX0Y	PN6VAXDY

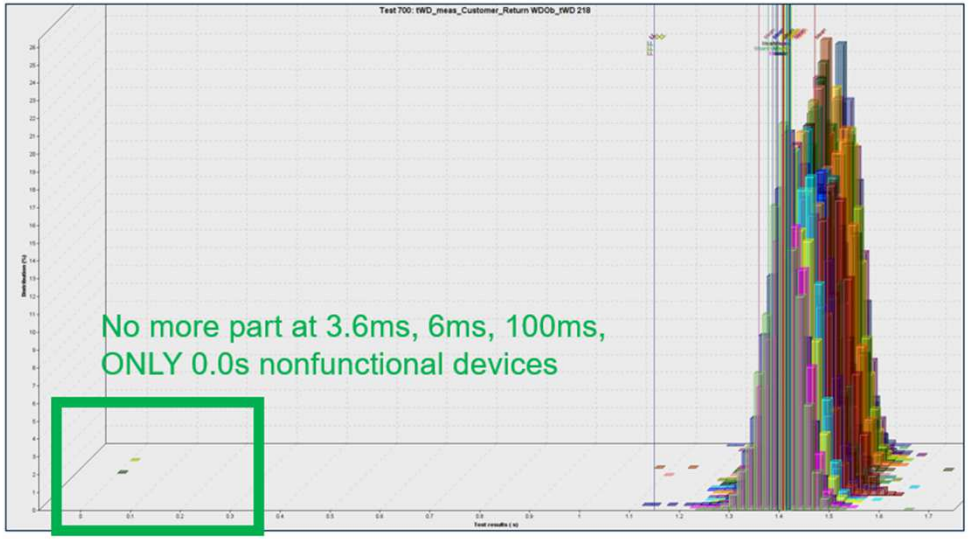
- Finish good visible on reel, box labelling.
- No reliability impact, fuse removal only.

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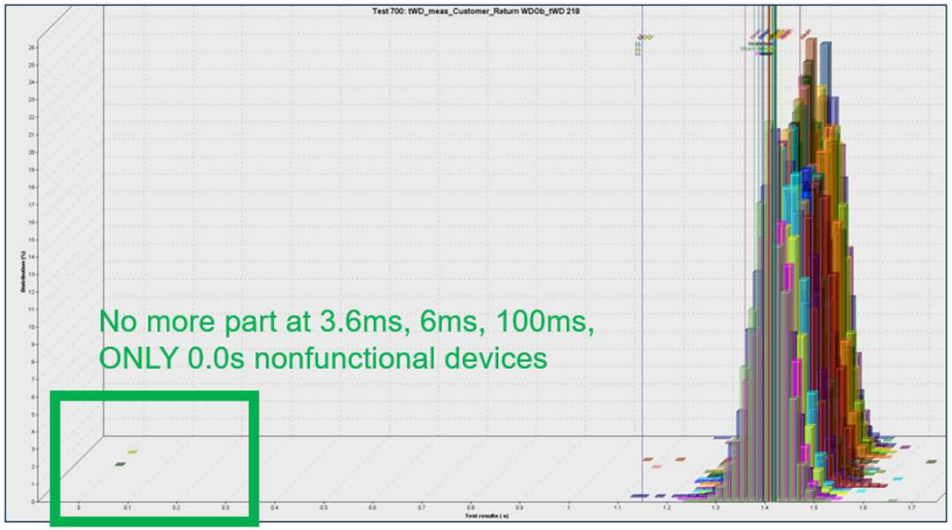
Quality Improvement

- Trials showed good Electrical Wafer Sorting results, no more marginal parts.

EWS1 – tWD results



EWS2 – tWD results



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