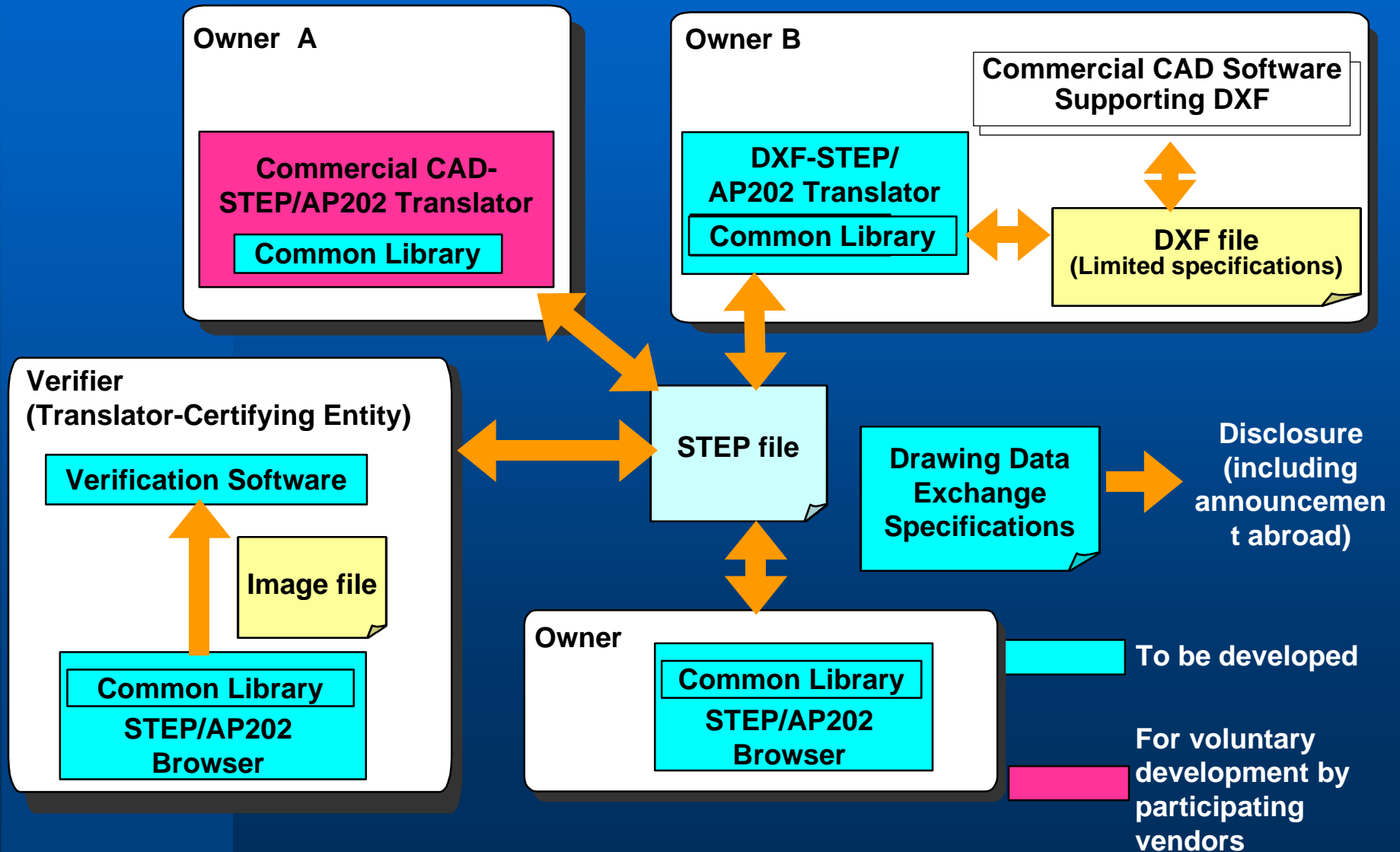


Outline of Current Status of Translator Implementation and Verification Tests

June, 2000
Bordeaux

**Japan Construction Information Center
CALS/EC Center
Masakazu Iwami**

General Outline of Development



Development Level (SCADEC conformance level)

Level 1:

At this level it will be possible to reproduce drawing displays correctly on the screen (or on paper)

Level 2:

At this level the need for two-dimensional CAD drawing data can be fully met, user-friendliness in case of reuse ensured and **the needs for electronic delivery fulfilled.**

This
time

Level 3:

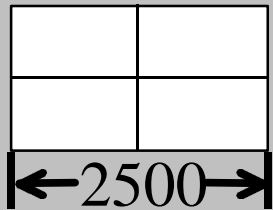
At this level the drawing functions for STEP/AP202 CC2 will be met.

Level 4:

At this level it will be possible not only to achieve the STEP/AP202 drawing functions but also **enable quantity calculation** from the drawings by adding the specific meanings of the construction sector as attribute data.

Example of Development Level (Dimension)

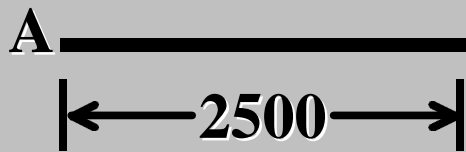
Level 3to4



Not yet

Width of this
window

Level 2

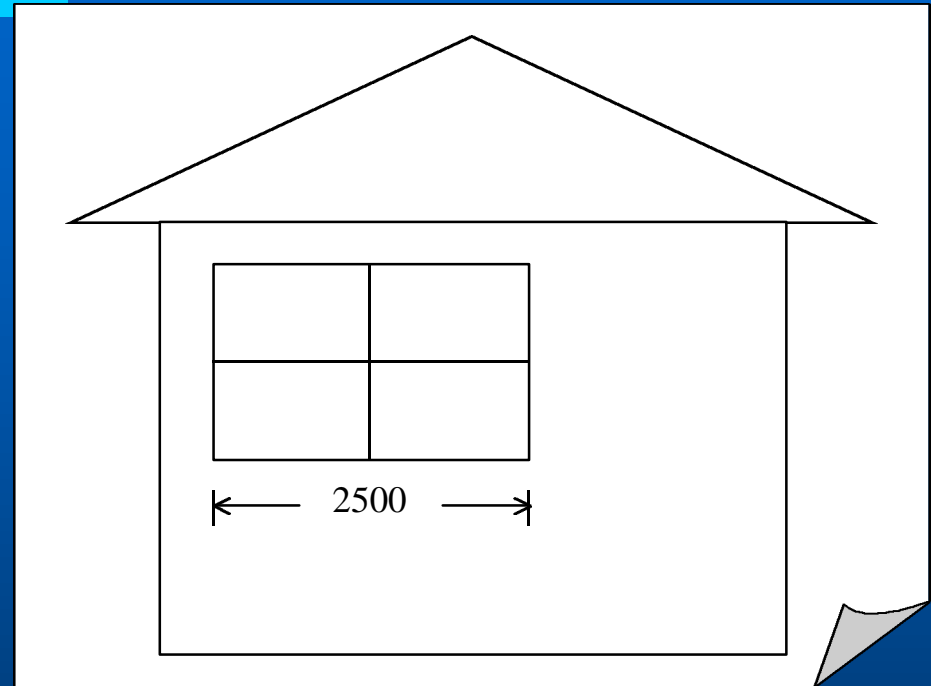


Dimension
of line A-B

Level 1



Group
composed
by line ,
arrow , and
text



Detail specification is ...
To see next presentation ...

Outline Description of Translator

1 software

1) DXF-STEP/AP202 Translator (Cross Translator)

- Mutual conversion of **SXF** (Based on STEP/AP202 and **DXF**)

2) Commercial CAD - STEP/AP202 Translator (Direct Translator)

29 software

- Mutual conversion of **commercial CAD files** and **SXF**
- Voluntary development by Consortium-member vendors

SXF: SCADEC eXchange Format

Translator Implementation Status

As of June 2000

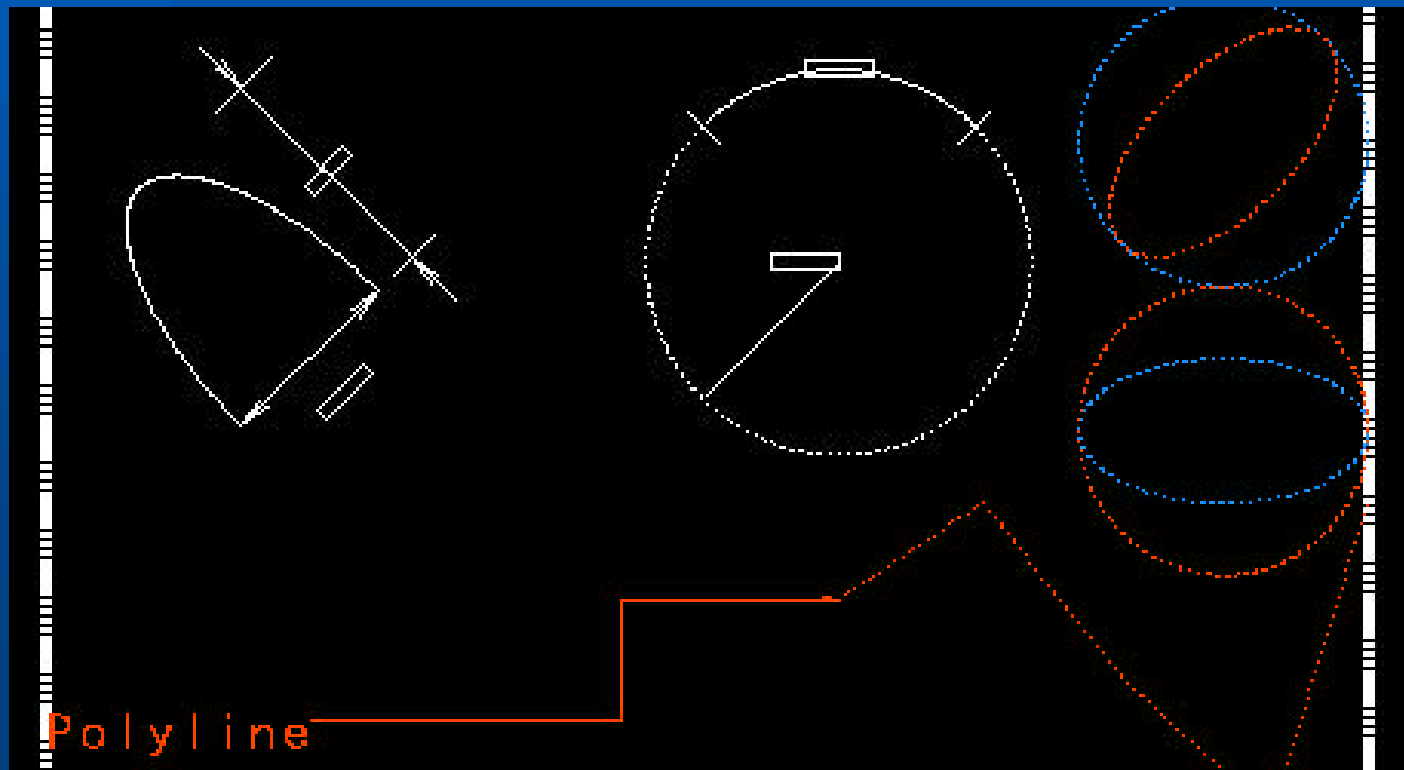
- Support vendor : **24 companies**
- Support software : **29 software** and **1 cross translator** (STEP - DXF translator)
 - All direct translators are under developing.
 - Today's demonstration is the example of advanced software.

Outline Description of Verification Tests

1) Test data exchange test

To verify performance whether basic software fully conforms to the specifications

(Test data will be prepared first, then use this data in Test)

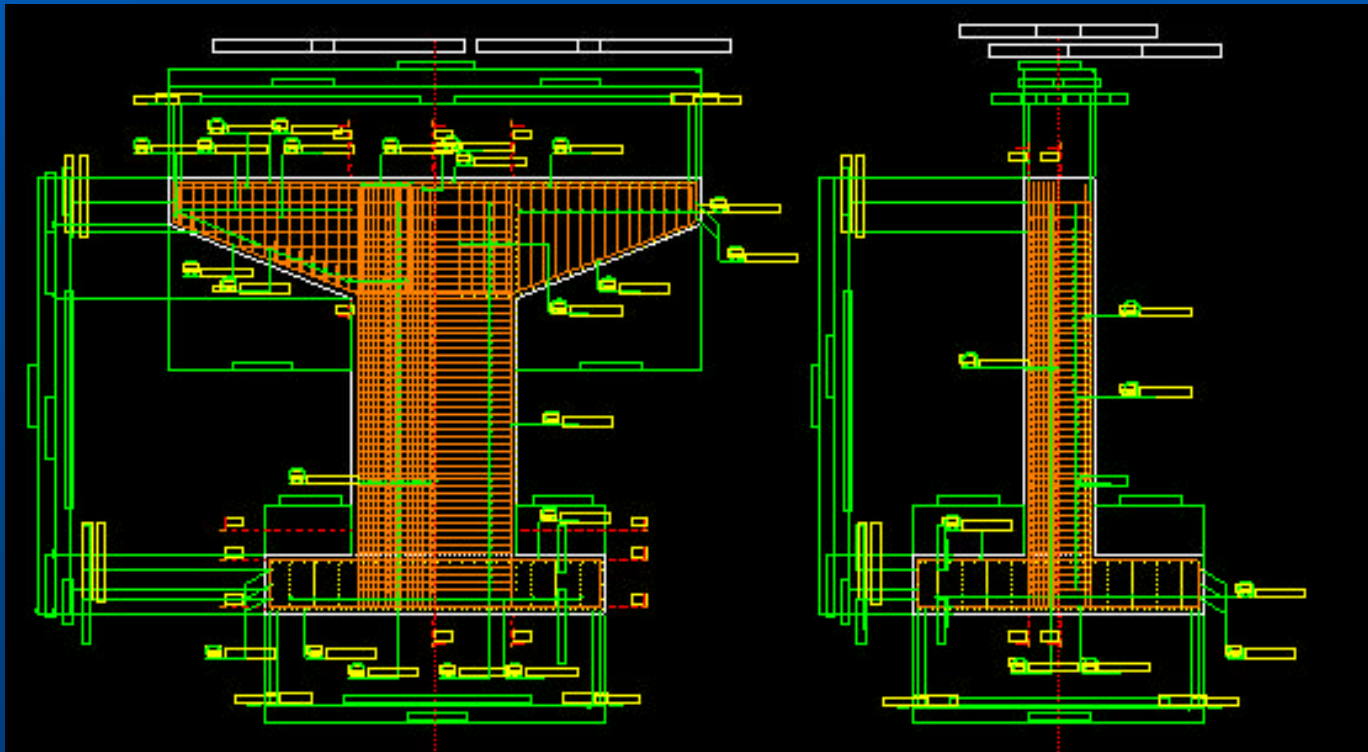


Outline Description of Verification Tests

2) **Actual data exchange test**

To verify user-friendliness and usability for practical office tasks.

(Drawings in actual office duties will be Used)



Actual Data Exchange Test

1) Evaluation Tests to Assess Translator Development Level

- Confirm the performance of all software including translator

To see following demonstration ...

2) Evaluation Tests to use actual data

- Demonstrate the function utilities of data exchange for user

Schedule of SCADEC Activity

	2000 Jun	Jul	Aug	from Sep 2000 to March 2001	2001 Apr	from 2001 to 2002
Test Data Exchange Test						
Evaluation Tests to Assess Translator Development Level						
Evaluation Tests to use Actual data						
Conclusion Basic Software & CAD systems Development						
CAD systems on the market						
MOC try SXF as procurement specification						
To Start Development :Level 3						

Current States –Today's Demonstration-

- All “**Direct Translators**” are under developing.
 - No translator can verify the functional performance by STEP/AP 202 Verification Function.
- Few functions of “**Basic Software**” are incomplete.
 - Common library can't output complete “part21” files.---
“**AP202 Mode**”
 - We use the files that composed of only feature parameter.---“**Feature Mode**”



- We can present to “**Evaluation Tests**”.
- We will demonstrate all Verification Tests in **Next Meeting**.---Charleston

Standard Development for CAD Data Exchange in Japanese Construction Field (SCADEC)

Contact point

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Role of software in Test Data Exchange Test

1) Common Library

Verification of functions and performance for implementation on Translator

2) Direct Translator

Verification of level of satisfaction of functional specifications for Translator

3) DXF-STEP/AP 202 Translator

Checking of exchange contents and evaluation of reproducibility

4) STEP/AP 202 Browser

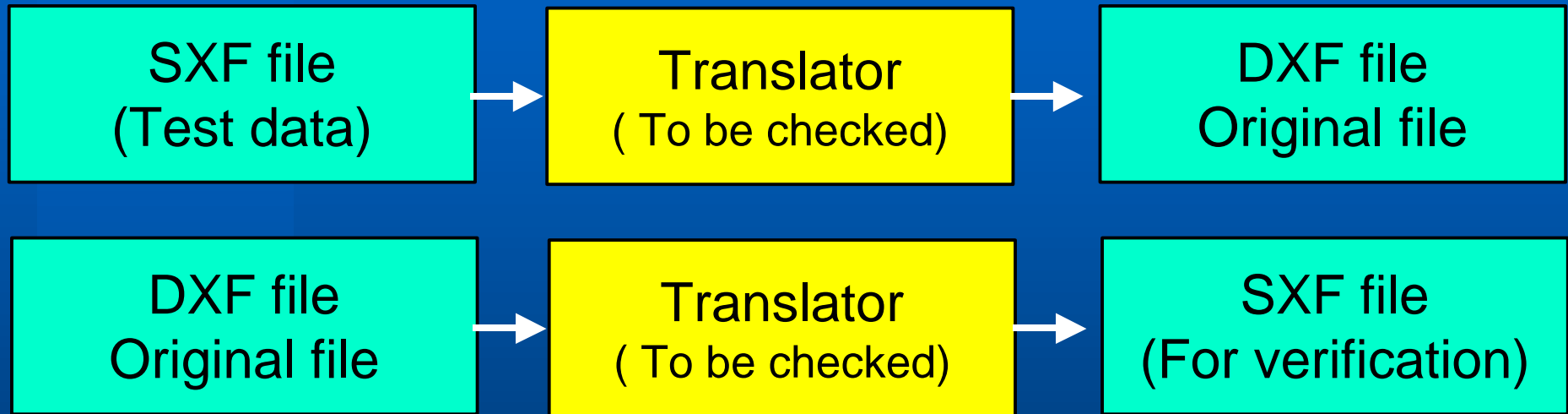
Evaluation as to whether the browser possesses adequate functional performance and operability to check the drawing

5) STEP/AP 202 Verification Function

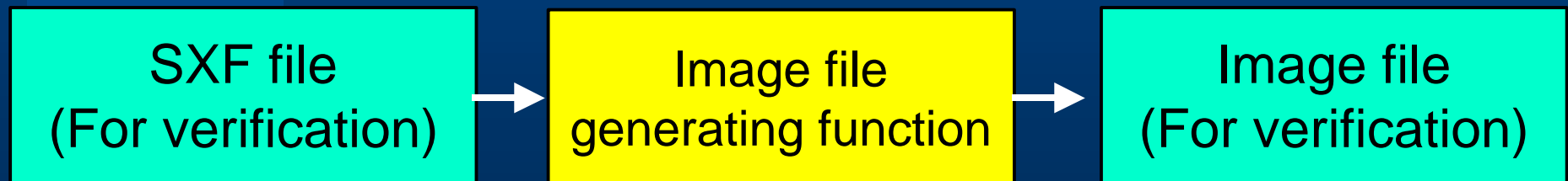
Evaluation as to whether it has adequate functional performance required for certifying the Translator

Test Data Exchange Test Method (Part 1)

1) Partially combining translator verification

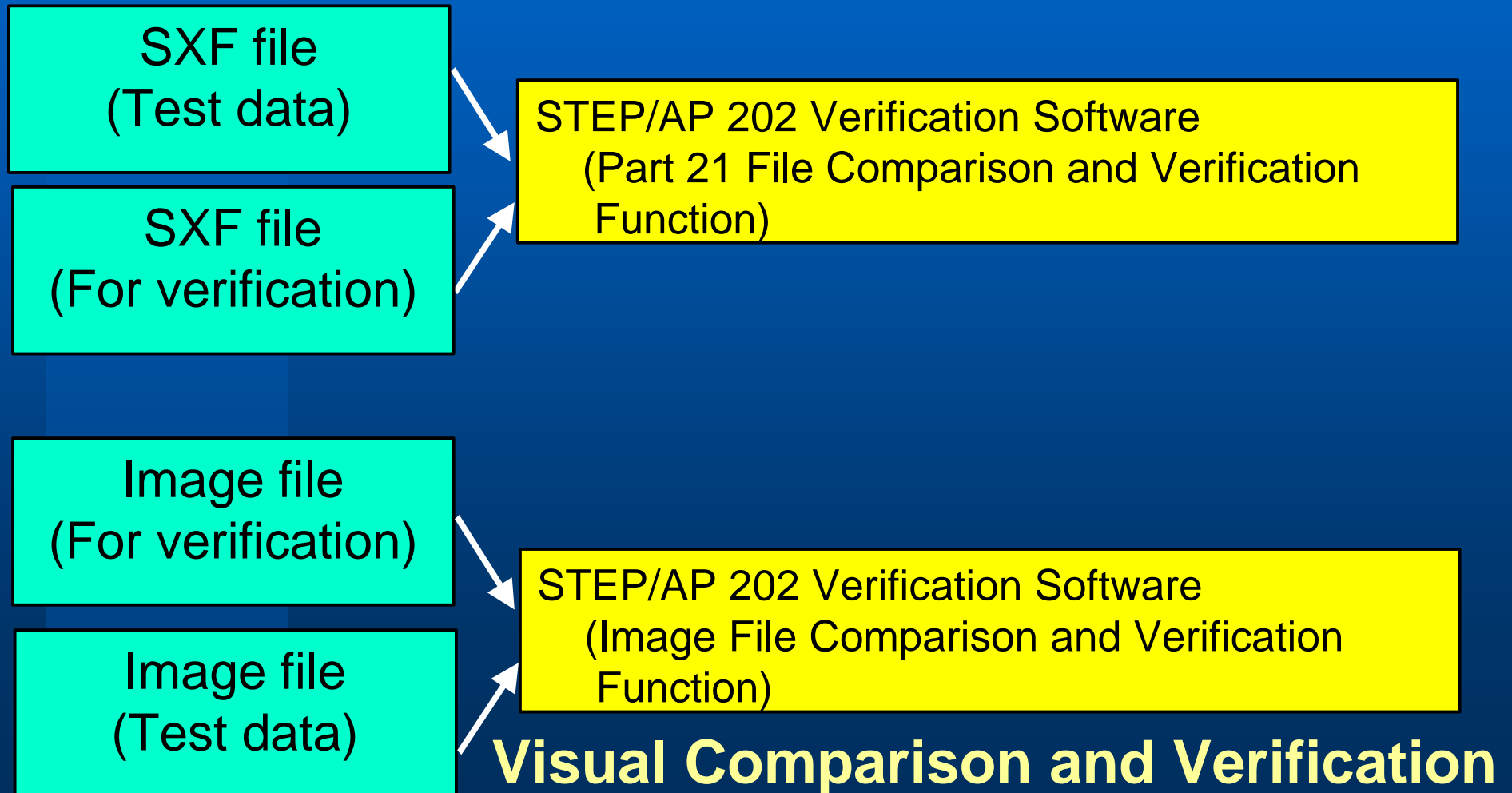


2) Combining STEP/AP 202 Browser Verification

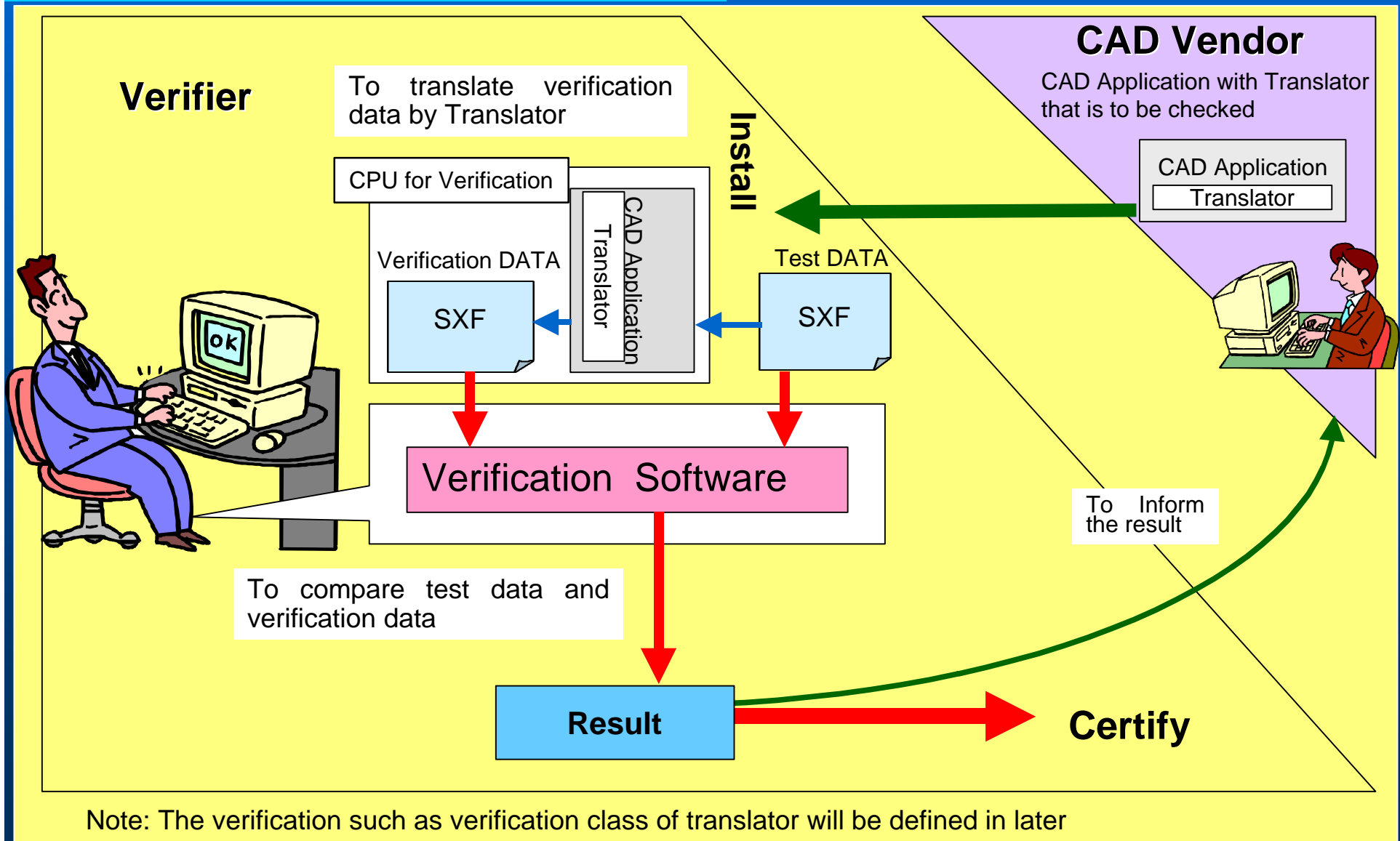


Test Data Exchange Test Method (Part 2)

3) Combining STEP/AP 202 Verification Function



The Image of verification for translator



1. Red	線種
CONTINUOUS	(BYLAYER)
DASHED	DASH102
HIDDEN	HIDDEN2
CENTER	CENTER2
DASHDOT	DASHDOT2
PHANTOM	PHANTOM2
DIMDL	DIMDL2
FENCELINE1	GAS_LINE

