



Proposal for AGL State Machine XML

Aug. 30th, 2017

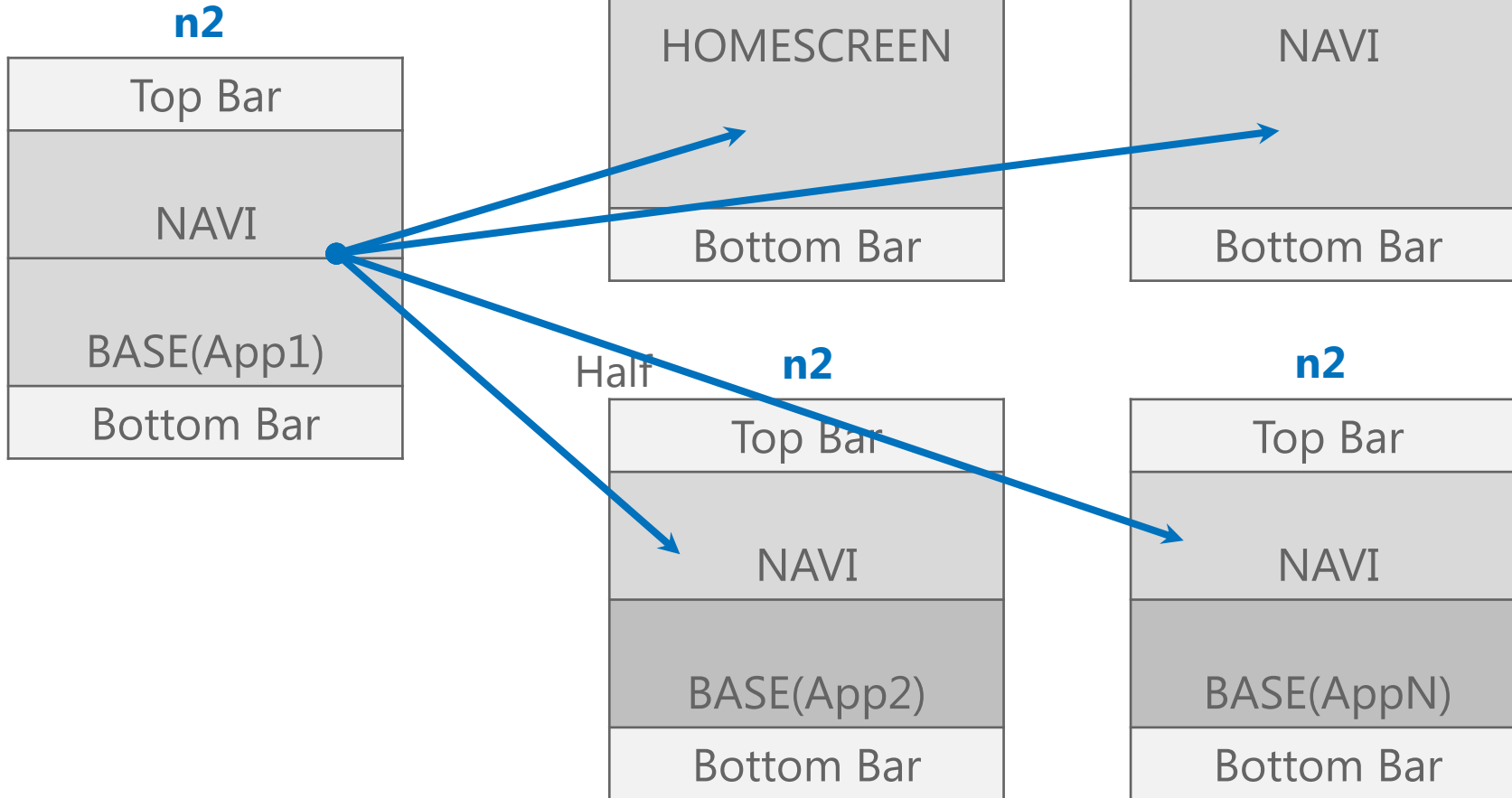
NTT DATA MSE Corporation
Hiroto Imamura

CATS CO.,LTD.
Shin Sakamoto



State Machine in Automotive HMI

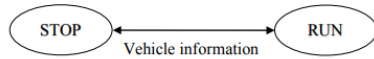
Window



State Machine in Automotive HMI

Window

Policy DB State Machine



① STOP

The state transition table during STOP is shown below.

In the case of driving start, save the current state and shift to the RUN state.

STOP

	MAIN	SUB	HOME	NAVI	BASE
Hs	HOME	HOME	-	To n1	To b1
n1	NAVI	NAVI	To Hs	-	To n2
n2	NAVI	*	To Hs	To n1	MAIN:NAVI SUB:BASE
b1	BASE	BASE	To Hs	To n1	-
b2	BASE	*	To Hs	To n1	To b1

First Row : State Name

Second Row and Third Row : Area Name

(When MAIN and SUB are the same, it is regarded as FULL screen)

The action after the 4th Row for the application request (State Machine Table)

* : Other applications different from MAIN

② RUN

The state transition table during RUN is shown below.

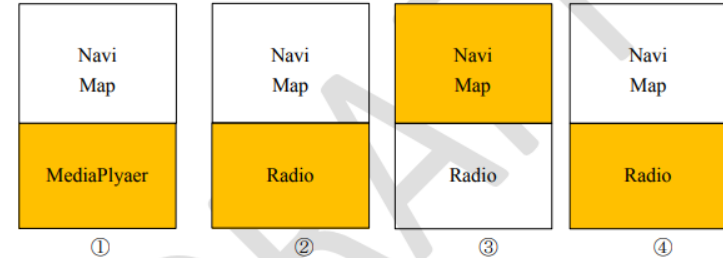
In the case of stopping, restore the current state and shift to the STOP state.

RUN

	MAIN	SUB	HOME	NAVI	MM	BASE
n1	NAVI	NAVI	-	-	-	-

Sound

Policy DB State Machine



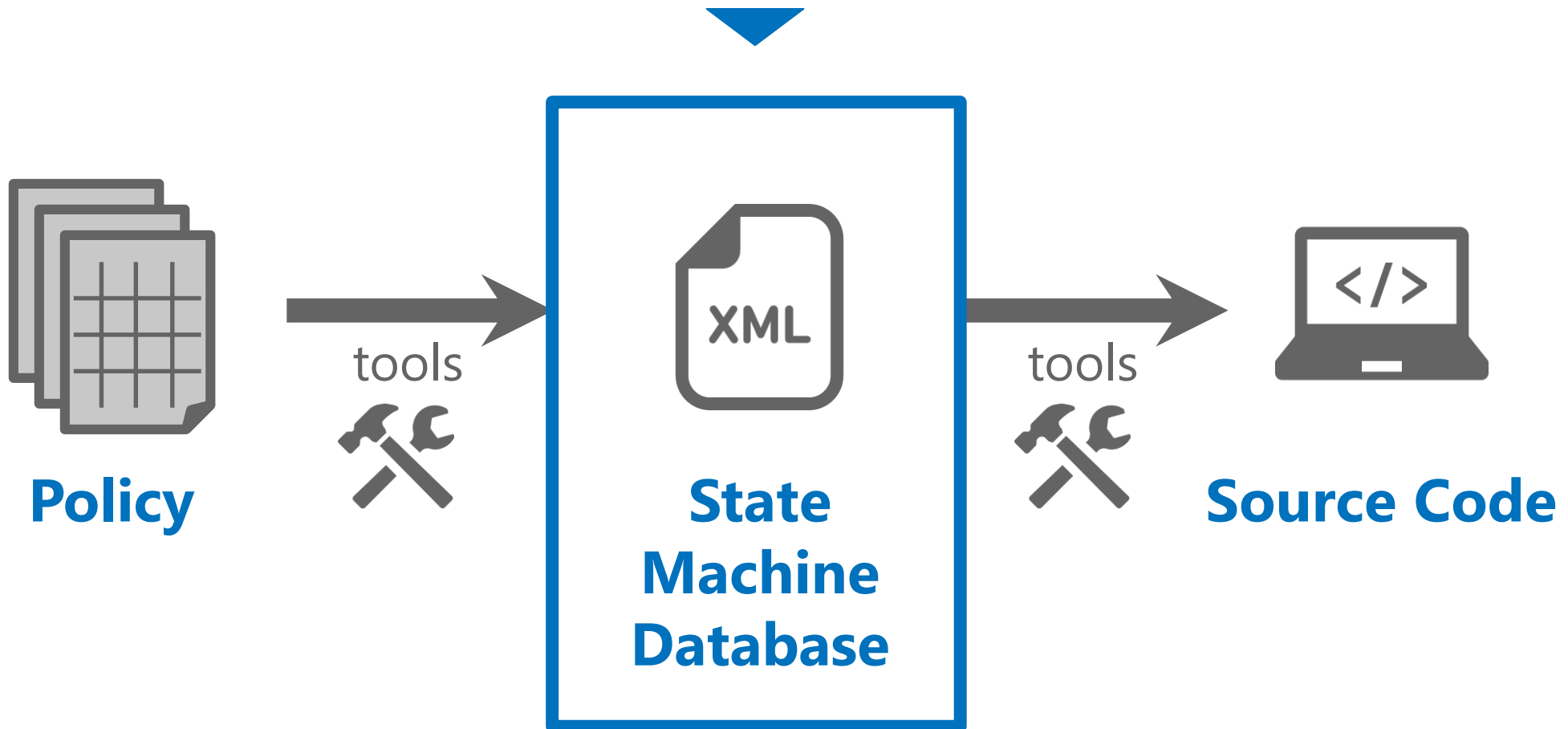
	MP	Radio	Navi(Start)	Navi(Stop)
MP	-	To RADIO	PUSH Status(MP) To NAVI	
RADIO	To MP	-	PUSH Status(MP) To NAVI	
NAVI	-	-	-	POP Status To Status

First Row : State Name

The action after the 2th Row for the application request (State Machine Table)

Important for configuring HMI, Need to manage many states

Define the exchange format of State Machine under AGL





Proposal for State Machine to AGL

Presentation theme

- **Introduction of XML specifications we use now**
- **State Machine demonstration using our XML specifications**

NTT DATA
Global IT Innovator