

SGB-TW:

A tool to write Software Guidebook
using 'diagrams as code' approach

What is a SGB?

- A Software Guide-book (SGB) is a document that describes the software architecture and high-level design of a system.
- In addition to that, the document contains maps, sight and itineraries, history and culture and practical information about the software; it describes what the code does not. And it is an alive and evolve document.

SGB-TW – Functionality

What is?

- A python command line and a customized TiddlyWiki (TW).
- TW is the GUI used to write the SGB, while the python script is used to retrieve and store information in the DB.
- The DB is manage using git as all is plain text.

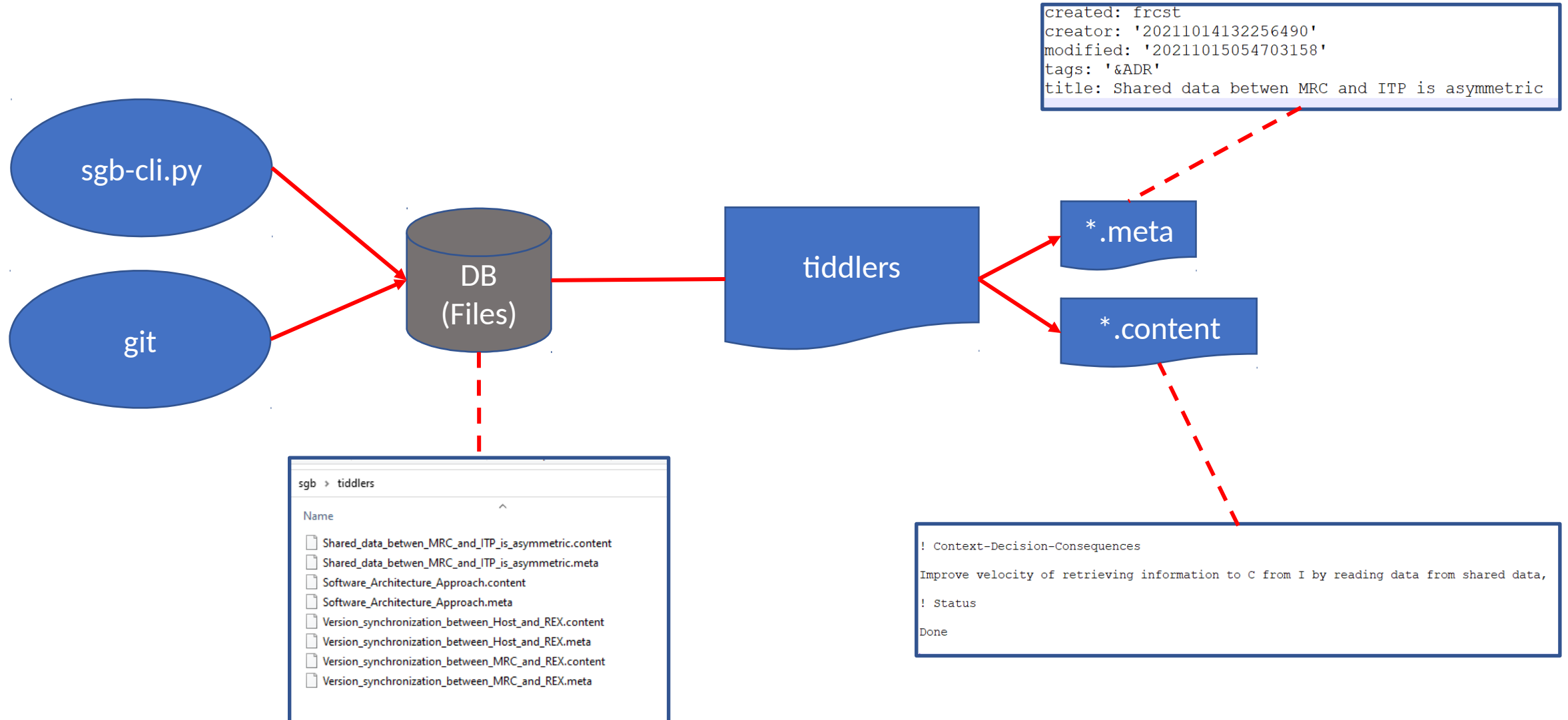
Main functionality

- Add notes to TW using wiki syntax and PlantUML.
- Notes could have tags so it is easy to search information using them.
- Generate reporst in PDF and more.

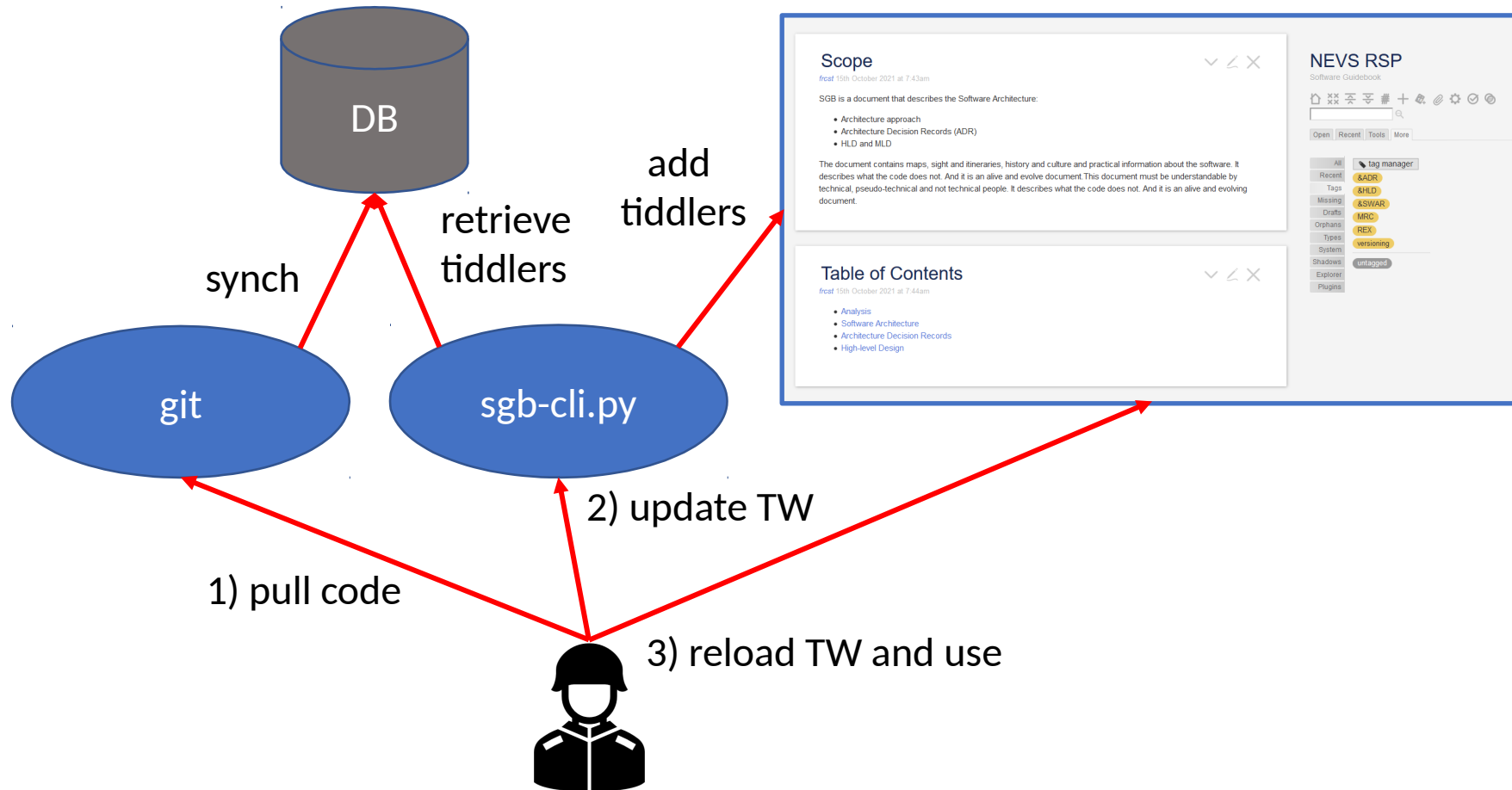
SGB-TW - Overview



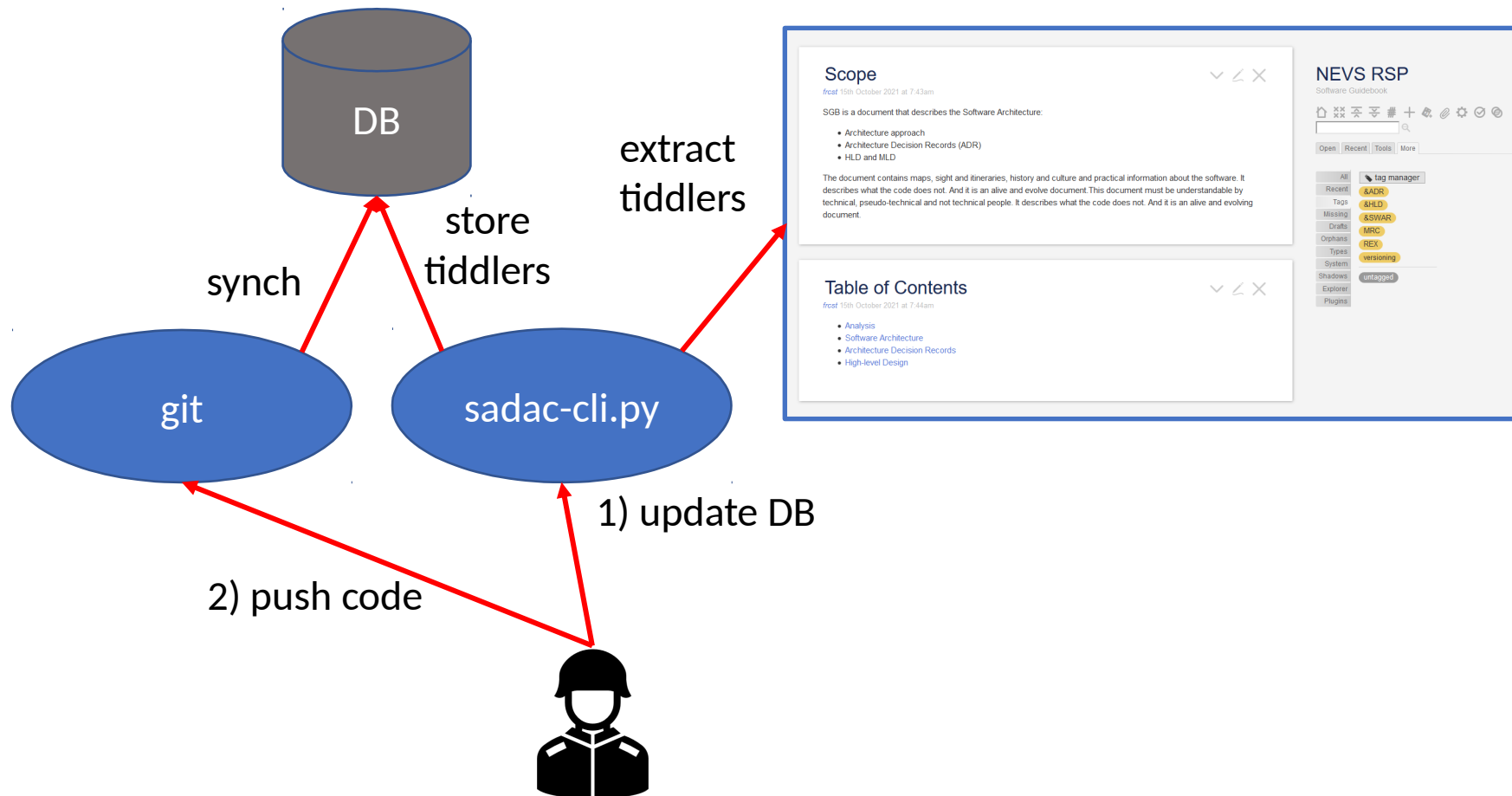
SGB-TW – DB Structure



SGB-TW – Synch DB and TW (1)



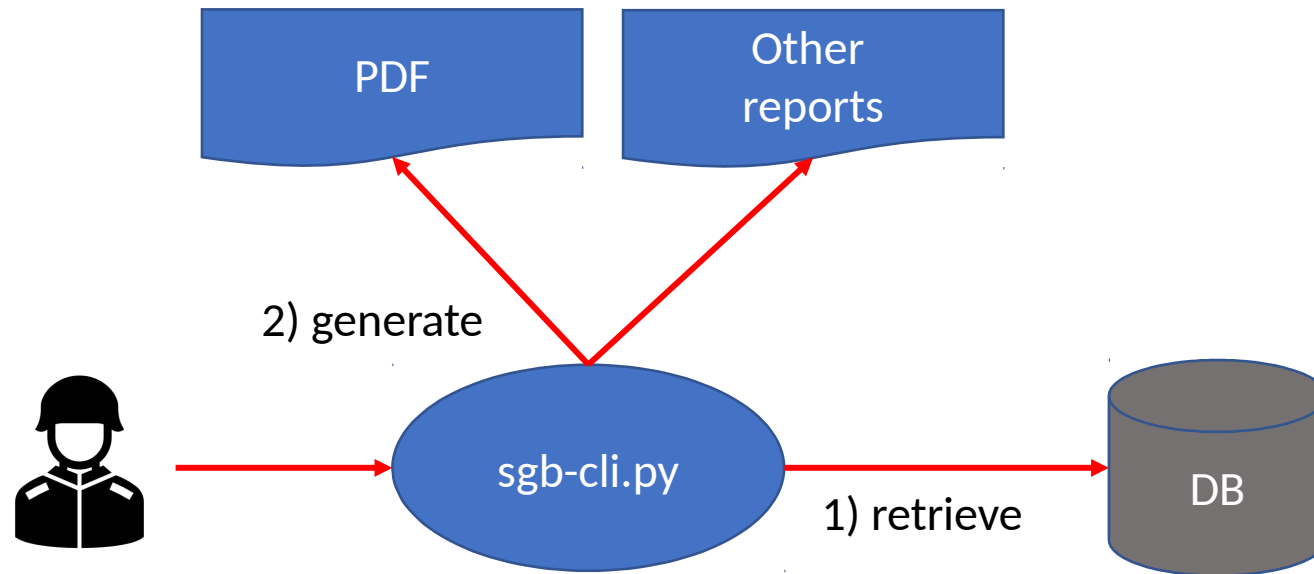
SGB-TW – Synch DB and TW (2)



SGB-TW – Search using tags

The screenshot displays the SGB-TW interface. On the left, a sequence diagram titled "Version synchronization between Host and REX" is shown. It features three participants: ECAT Slave, Host, and Version Manager. The diagram includes a "synchronize NEVP version" block with an "initialize()" call, followed by a "loop" containing "wait request from NEVP-C", "send available versions to NEVP-C", and "wait selected version from NEVP-C". A red dashed box highlights the title and tags (&HLD, REX, versioning) of the diagram. On the right, the "NEVS RSP" search panel is visible. It shows a search bar with "&HLD" entered, resulting in "3 matches". A dropdown menu lists "Title matches" and "All matches", with the latter showing "High-level Design", "Version synchronization between Host and REX", and "Version synchronization between MRC and REX". A red dashed box highlights the search bar and the dropdown menu. Below the interface, a black icon of a person wearing a helmet is shown, with a red arrow pointing upwards towards the sequence diagram.

SGB-TW – Generate reports



SGB-TW – Compare DB using git

Name	Size	Modified	Name	Size	Modified
■ Shared_data_between_MRC_and_ITP_is_asymmetric.content	150	15-Oct-21 10:49:48	■ Shared_data_between_MRC_and_ITP_is_asymmetric.content	150	15-Oct-21 10:49:48
■ Shared_data_between_MRC_and_ITP_is_asymmetric.meta	144	15-Oct-21 10:49:48	■ Shared_data_between_MRC_and_ITP_is_asymmetric.meta	144	15-Oct-21 10:49:48
■ Software_Architecture_Approach.content	7	15-Oct-21 10:49:48	■ Software_Architecture_Approach.content	16	15-Oct-21 17:28:11
■ Software_Architecture_Approach.meta	131	15-Oct-21 10:49:48	■ Software_Architecture_Approach.meta	131	15-Oct-21 10:49:48
■ Version_synchronization_between_Host_and_REX.content	1,657	15-Oct-21 10:49:48	■ Version_synchronization_between_Host_and_REX.content	1,661	15-Oct-21 17:27:43
■ Version_synchronization_between_Host_and_REX.meta	157	15-Oct-21 10:49:48	■ Version_synchronization_between_Host_and_REX.meta	162	15-Oct-21 17:27:34
■ Version_synchronization_between_MRC_and_REX.content	3,904	15-Oct-21 10:49:48	■ Version_synchronization_between_MRC_and_REX.content	3,904	15-Oct-21 10:49:48
■ Version_synchronization_between_MRC_and_REX.meta	160	15-Oct-21 10:49:48	■ Version_synchronization_between_MRC_and_REX.meta	160	15-Oct-21 10:49:48

15-Oct-21 10:49:48 157 bytes Everything Else ▾ ANSI ▾ PC	15-Oct-21 17:27:34 162 bytes Everything Else ▾ ANSI ▾ PC
created: frfst creator: '20211014132906796' modified: '20211015054734736' tags: versioning REX &HLD title: Version synchronization between Host and REX	created: frfst creator: '20211014132906796' modified: '20211015054734736' tags: versioning REX &HLD Host title: Version synchronization between Host and REX

15-Oct-21 17:27:43 1,661 bytes Everything Else ▾ ANSI ▾ PC	15-Oct-21 10:49:48 1,657 bytes Everything Else ▾ ANSI ▾ PC
[[plantuml @startuml box #99AAAA participant "ECAT Slave" as ECAT_SLAVE participant "New Host" as Host endbox box #99FFBB participant "Version Manager" as NEVP_X endbox group OP_STATE group synchronize NEVP version ECAT_SLAVE -> Host	[[plantuml @startuml box #99AAAA participant "ECAT Slave" as ECAT_SLAVE participant "Host" as Host endbox box #99FFBB participant "Version Manager" as NEVP_X endbox group OP_STATE group synchronize NEVP version ECAT_SLAVE -> Host