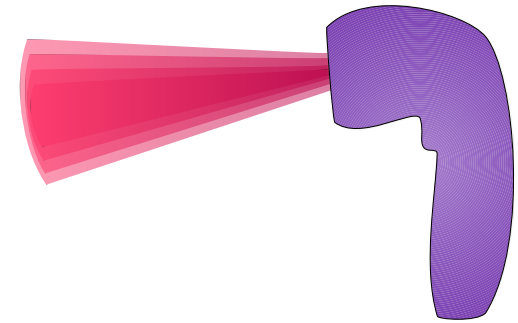


Box-moving Functional Editor in Barcode solution Program

- Company Elmicron
- Application ScanLink
- Configuration editor
- Process evaluation
- vwait
- TCL Activities
- TCL 9



	ID	Daten	Kommentar
Symbologie:	jd1	Datamatrix	Symbologie Datamatrix vom Le
Eingabedaten:		+HIBCAQ7B51/\$D4467	
Strukturtyp:		HIBC	Health Industry Bar Code
Kennzeichner:	+	HIBC	Labeler ID Issuing Agency: F Interpretierte Daten: RHHIBC
Artikel:		AQ7B5	
Verpackungsindex:		1	Unterste Logistische Verpack
Charge:	/\$	D446	
en Sekundärkode:		7	Modulo-43 Prüfzeichen korrekt
			Resümee des letzten Scans
Resümee:			HIBC UDI konform

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Chat: oehhar, Wiki: hao



Company Elmicron

Auto ID
→ Barcode and RFID
→ ISO Standards

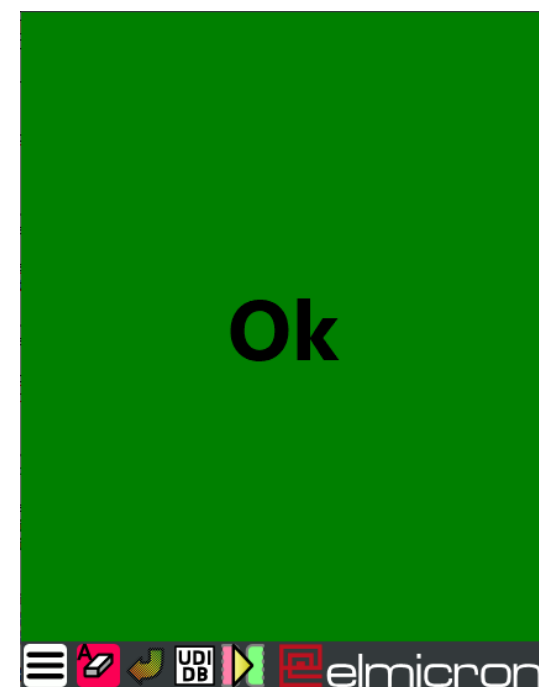
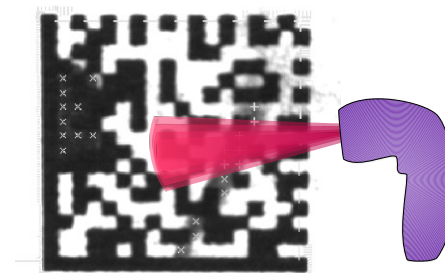
5 Employees

TclDevKit Licence



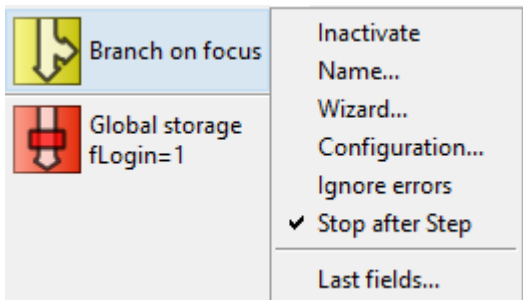
Application ScanLink

- Barcode verification and integration software
Scanner -> ScanLink ->
Keyboard emulation, Data Base, File, JSON/SOAP Webservice
- Platforms: MS-Windows, Android, Linux 32 bit (on Thin Clients)
- TCL Starkits including self written C libraries for device connection
- Resizable Interface (ETCL 2019)
- Button keyboard for industrial touch-screen devices

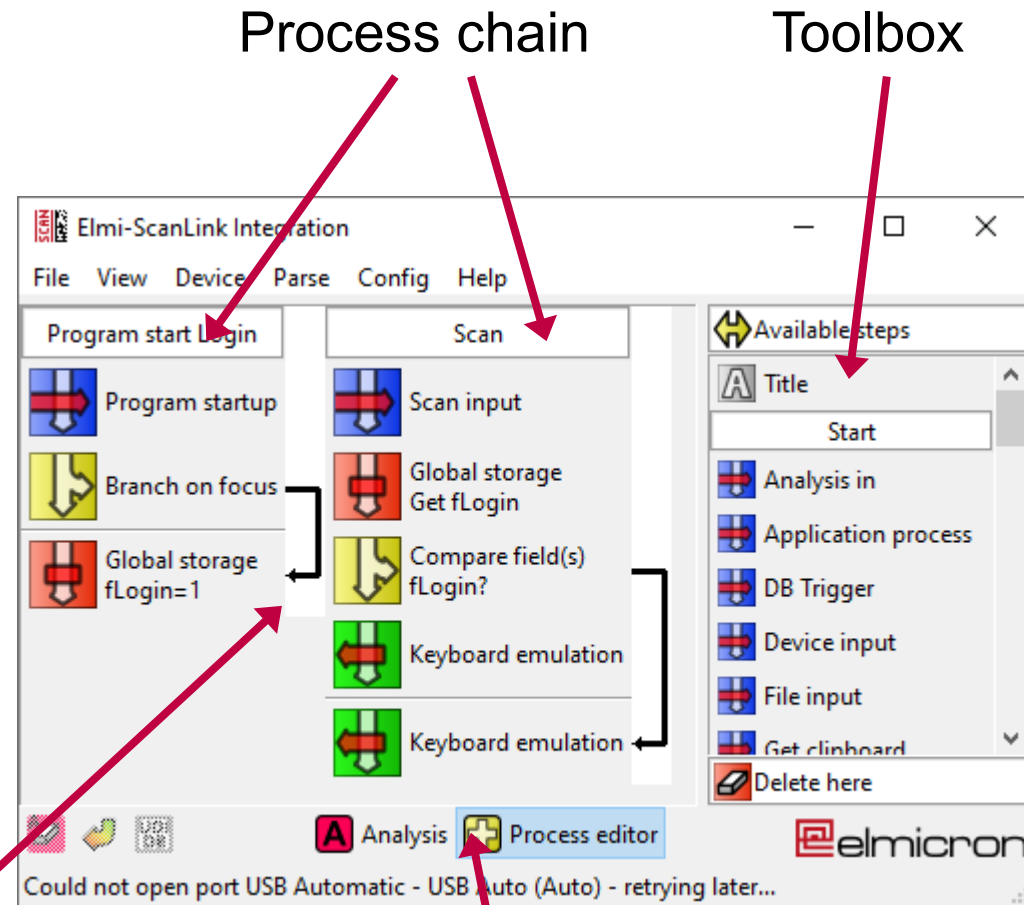


Box-moving configuration editor

- Processing steps from top to down including branch/jumps and stops
- Drag and drop interface (from Bwidget) for boxes and arrows
- menu with configuration points on right click (ttk menubuttons)



- Bubble-help everywhere
- Branch arrows in a canvas



Page manager

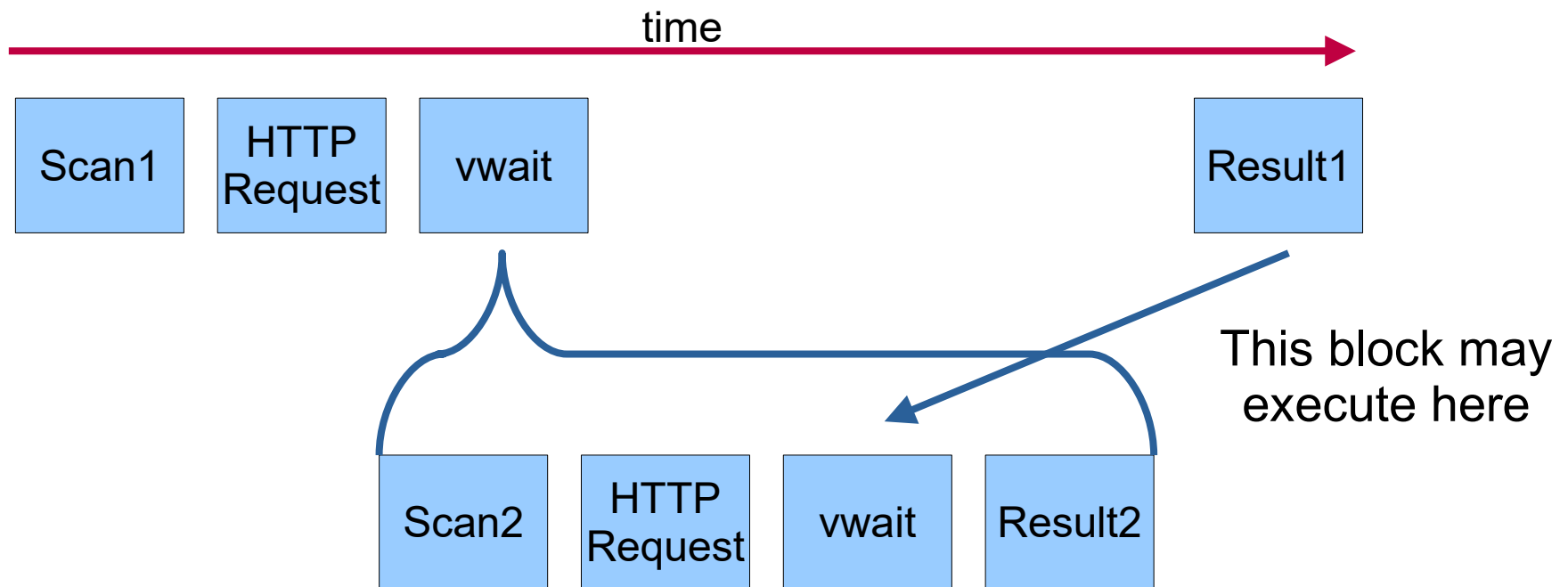
Process chains evaluation

- Follow the branch arrows
- Stop on end or end flag
- Pipe "dData" data dict through each step processing function by calling "<Mod>DataIn" proc of the module.
- Multiple process chains are started simultaneously and interlace on any wait steps.

```
while 1 {  
  
    # >> Next step  
    set fBranch [expr {  
        "branch" in $dModuleOpt  
        && [dict exists $dData _BranchDo]  
    }]  
    if { $fBranch } {  
        set ClassPosCur [lsearch -exact  
            $Classes\  
            $Config(_BranchClass_ $ClassCur)]  
    } else {  
        # > Check for end  
        If { $ClassPosCur + 1  
            >= [llength $Classes]  
            || $Config(_fStop_ $ClassCur)  
            || $Config(_fGroupEnd_ $ClassCur)  
        } {  
            break  
        }  
        incr ClassPosCur  
    }  
  
    # >> Get new class  
    set ClassCur [lindex $Classes $ClassPosCur]  
    set ModuleCur $Config(_Module_ $ClassCur)  
    set ModuleClassCur $Config(_Class_ $ClassCur)  
  
    # >> Execute action  
    set dData [${ModuleCur}DataIn\  
        $ModuleClassCur $dData]  
}
```

"vwait" may block a process chain

- "vwait" is very easy to use for simultaneously processing
- Nested "vwait" blocks any vwait in the caller proc and does not use eventual free time.
- "coroutines" are great but feel to complicated for me
- For known stops (Windows input) stop process chain and restart it.
- Any vwait is a problem (ex: http package), register events and return



TCL/Tk activities

- Bwidget (from Eric Boudallier)
- TCLWS (from Gerald Lester et al)
- Msgcat (from Marc Harrisson)
- TCL win socket driver: hope for Ashoks iopc
- Rivet (only support)
- TkSVG (from Christian Gollwitzer)
- MS-VC6++ PSDK2003SP1 TCL/Tk make (will die)
- Zint Bar code generator TCL interface
- TkSVG (Tk8.7 feature for Tk8.6)



Yea !

TCL Wishlist

- How to get TCL 9.0 and Tk8.7 out of the door?
- Blockers: encodings
- How to help and motivate Donald to make releases?

Thank you all, you guys rock !