

You have to install a large number of devices and to keep them up-to-date? You have to take care that the security updates are promptly installed on all devices? And you have to log security-relevant processes?

Using PSIsiu, you can keep track of all your devices belonging to the product families of the Telecontrol Gateway and Smart Telecontrol Unit. On the redundantly designed PSIsiu server, all system components (system software, application software, configuration etc.) are versioned and available for installation. For each device in the system, you can define the configuration state of every single system component which is installed autonomously and monitored by the PSIsiu agent. All operations use secure connections.

Central Device Overview

All devices in the whole installation are shown in a central overview on the PSIsiu server including their installation and configuration states (version numbers). This contains detailed information about the actual status of each device. The states in need for action are visually highlighted.

Secure Installation

After the once-only registration with the PSIsiu server, the newly registered device is assigned to a logical device of your installation and can now retrieve the configuration states intended for it from the PSIsiu server.

Device Update

The desired version of the system software and application software as well as the configuration version can be set and activated on a single device or groups of devices. This makes it possible to first install and test a new version of a component specially on test devices. In the next step, the component can be then released for the entire system and generally installed in the remaining system.

Easy Device Replacement

For installing a spare device, it is only necessary to change the assignment of the logical device to the registered device. Thus, the new device can straightly go into operation and receive the complete configuration from the PSIsiu server.

Version Management

Managing versions of software and configuration via clear assignment of a status, description and dependency on versions make it easy to keep track of the entire system.

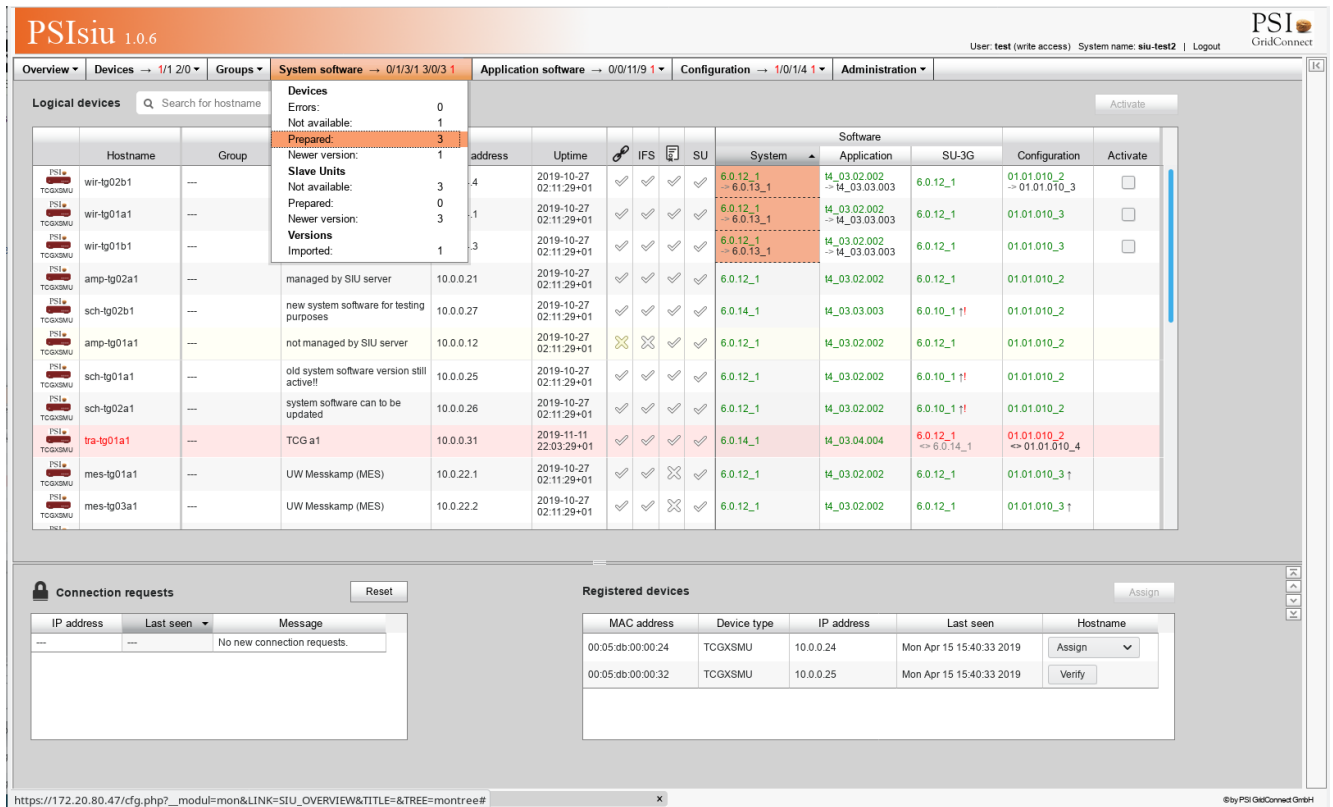
Backup

The complete states of the installation are stored periodically. In addition, a backup can be initiated at any time, especially before doing large changes to the installation, to be able to reinstall the last known functioning state.

Encrypted Communication and Logging

The communication between the PSIsiu server and the device is authenticated and encrypted. This ensures a secure way for configuration, independent of other communication ways, for example VPN tunnel.

All changes are logged. With help of the logs you can retrace which changes were made by whom and when on which device.



The screenshot shows the PSIsiu 1.0.6 web interface. At the top, there are navigation tabs: Overview, Devices (1/12/0), Groups, System software (0/1/3/1 3/0/3 1), Application software (0/0/11/9 1), Configuration (1/0/1/4 1), and Administration. Below the navigation, there is a search bar for logical devices and a summary table for devices.

Logical devices	Devices	Errors:	0
	Not available:	1	
	Prepared:	3	
	Newer version:	1	
	Slave Units		
	Not available:	3	
	Prepared:	0	
	Newer version:	3	
	Versions		
	Imported:	1	

Hostname	Group	address	Uptime	IFS	SU	System	Application	SU-3G	Configuration	Activate
wir-ig02b1	---	10.0.0.21	2019-10-27 02:11:29+01	✓	✓	6.0.12_1 --> 6.0.13_1	H_03.02.002 --> H_03.03.003	6.0.12_1	01.01.010_2 --> 01.01.010_3	<input type="checkbox"/>
wir-ig01a1	---	10.0.0.27	2019-10-27 02:11:29+01	✓	✓	6.0.12_1 --> 6.0.13_1	H_03.02.002 --> H_03.03.003	6.0.12_1	01.01.010_3	<input type="checkbox"/>
wir-ig01b1	---	10.0.0.12	2019-10-27 02:11:29+01	✓	✓	6.0.12_1 --> 6.0.13_1	H_03.02.002 --> H_03.03.003	6.0.12_1	01.01.010_3	<input type="checkbox"/>
amp-ig02a1	---	10.0.0.21	2019-10-27 02:11:29+01	✓	✓	6.0.12_1	H_03.02.002	6.0.12_1	01.01.010_2	<input type="checkbox"/>
sch-ig02b1	---	10.0.0.27	2019-10-27 02:11:29+01	✓	✓	6.0.14_1	H_03.03.003	6.0.10_1 !!	01.01.010_2	<input type="checkbox"/>
amp-ig01a1	---	10.0.0.12	2019-10-27 02:11:29+01	✗	✗	6.0.12_1	H_03.02.002	6.0.12_1	01.01.010_2	<input type="checkbox"/>
sch-ig01a1	---	10.0.0.25	2019-10-27 02:11:29+01	✓	✓	6.0.12_1	H_03.02.002	6.0.10_1 !!	01.01.010_2	<input type="checkbox"/>
sch-ig02a1	---	10.0.0.26	2019-10-27 02:11:29+01	✓	✓	6.0.12_1	H_03.02.002	6.0.10_1 !!	01.01.010_2	<input type="checkbox"/>
tra-ig01a1	---	10.0.0.31	2019-11-11 22:03:29+01	✓	✓	6.0.14_1	H_03.04.004	6.0.12_1 => 6.0.14_1	01.01.010_2 => 01.01.010_4	<input type="checkbox"/>
mes-ig01a1	---	10.0.22.1	2019-10-27 02:11:29+01	✓	✗	6.0.12_1	H_03.02.002	6.0.12_1	01.01.010_3_1	<input type="checkbox"/>
mes-ig03a1	---	10.0.22.2	2019-10-27 02:11:29+01	✓	✗	6.0.12_1	H_03.02.002	6.0.12_1	01.01.010_3_1	<input type="checkbox"/>

Below the main table, there are sections for 'Connection requests' (Reset) and 'Registered devices' (Assign). The 'Registered devices' table shows:

MAC address	Device type	IP address	Last seen	Hostname
00:05:db:00:00:24	TCGXSMU	10.0.24	Mon Apr 15 15:40:33 2019	Assign
00:05:db:00:00:32	TCGXSMU	10.0.25	Mon Apr 15 15:40:33 2019	Verify

PSIsiu Functions

- Providing and installing system components:
 - Software versions
 - Configuration files
 - Data models
 - Certificates
- Monitoring devices
 - Versions installed
 - System-relevant status (software, certificates, communication)
 - Logging changes
- Easy device replacement
- Backup administration
- Designed for redundancy

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