



Smart

- Easy data accesses on mobile devices
- Proactive reports of yields and alarms
- Smart String I-V Diagnosis supported

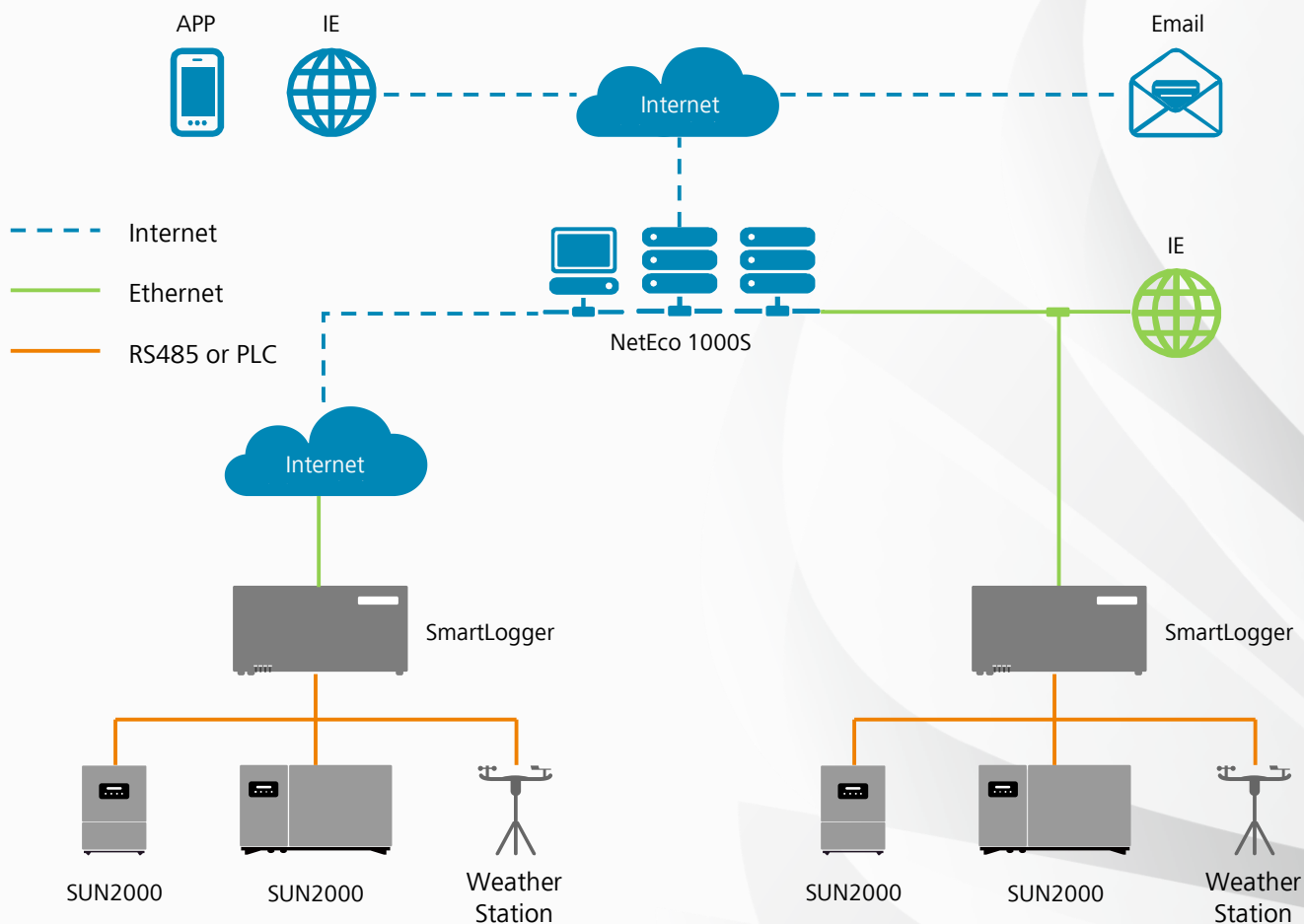
Simple

- One-click installation on PC
- Fault alarms via SMS and E-mail

Stable

- Hierarchical management
- Up to 25 years data storage with CSV files

Network Structure



Smart String I-V Diagnosis



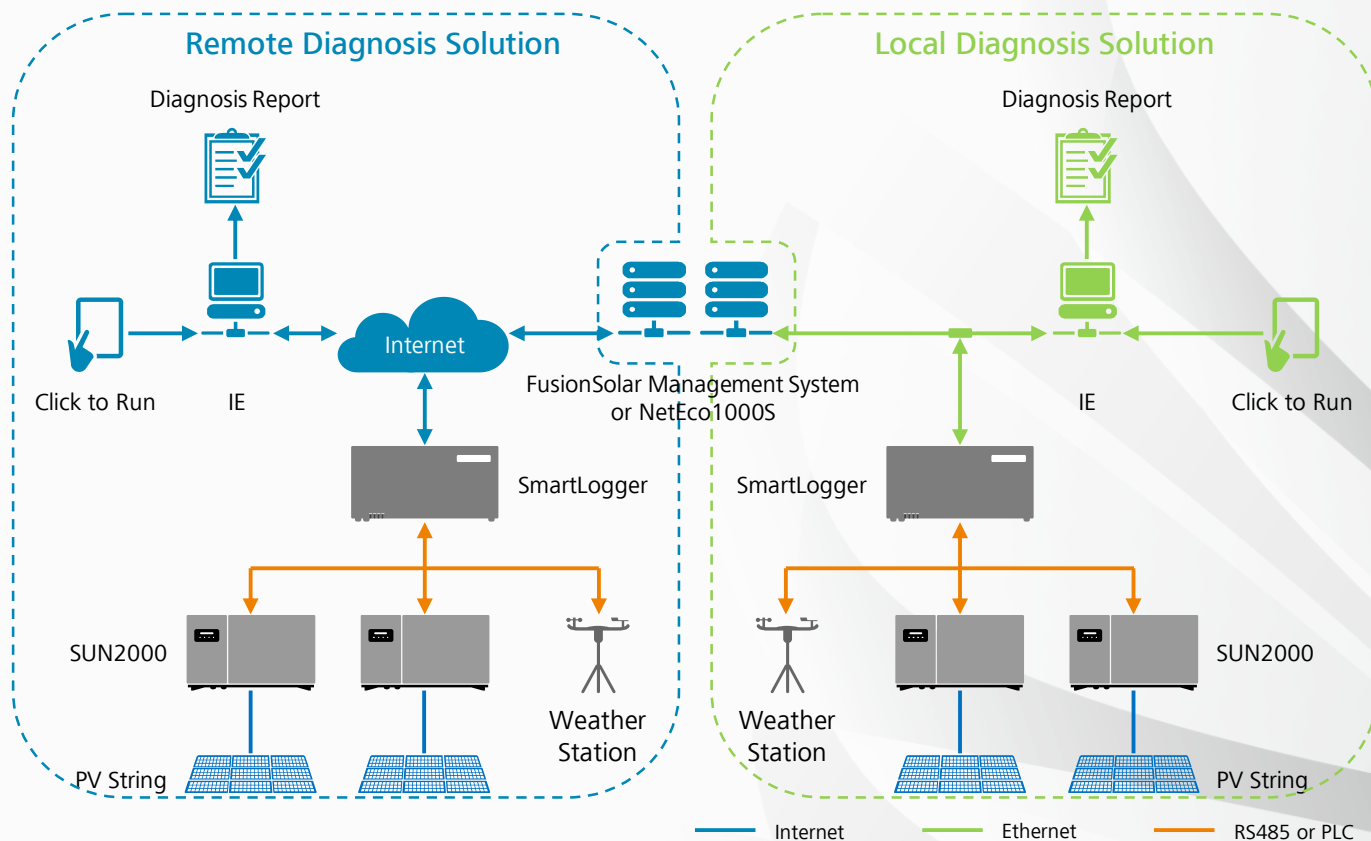
Smart String I-V Diagnosis is an ideal solution for scheduled and unscheduled maintenance of PV systems, based on real-time scanning of all the string I-V curves. The management system analyzes the curves and offers diagnoses, finding out possible failures and promoting O&M efficiency greatly.

Smart

- Real-time on-line scanning of all PV string I-V curves within PV blocks
- High accuracy scanning and diagnosis reports

Efficient

- Scheduled or unscheduled scanning without extra facilities
- One-click to run without any field work
- Finding out possible PV failures and promoting O&M efficiency



Smart String I-V Diagnosis



Technical Specifications	Smart String I-V Diagnosis
Configuration	
Huawei SUN2000 Inverter	SUN2000-36KTL/42KTL, or newer.
Huawei SmartLogger	SmartLogger1000, SmartLogger2000
Management System	NetEco1000s, FusionSolar Management System
Electrical	
Scanning Time	<1s
Number of Points per I-V Curve	128
Voltage Accuracy	0.5%rdg. + 1dgt. (rdg.>5, dgt.=0.3)
Current Accuracy	0.5%rdg. + 2dgt. (rdg.>0.3, dgt.=0.006)
System	
Time Needed to Produce Diagnosis Reports	10 ~ 15 min. per PV block
Scanning Consistency	All strings within one PV block
Environment Data Source	Weather station, manual input
Identifiable Failures	
Open-Circuited String	Yes
String Current Mismatches	Yes
Modules with Abnormal Output	Yes
Cells with Low Output Current	Yes
Diode Failure	Yes
Low String Voltage	Yes
Minor String Current Mismatches	Yes
Panel Breakage	Yes
High Series Resistance	Yes
Low Short-Circuit Current	Yes
Abnormal Power Loss	Yes
String Offline	Yes
Incorrect String Configuration	Yes
String Malfunctioning	Yes
Scanning Failed	Yes
String Non-Output	Yes
PID	Yes



Smart String I-V Diagnosis

