

| | | | Performance Standard | | | | |
|------------------|---|-------|----------------------|--------------------|----------|--------|--|
| Perfor- mance | Metric | | Hi-Risk Urban | Mod-High Hazard | | 1 | |
| Area | (explanations below) | Units | Areas | Areas | National | Głobał | |
| Seismic | Monitoring/Strong Earthquake Shaking | | | | ····· | | |
| 1. | Magnitude Completeness Level | М | 2.0 | 2.5 | 3.0 | 4.5 | |
| 3.3 | Epicenter Uncertainty | km | 2 | 5 | 10 | 20 | |
| 1. | Depth Uncertainty | km | 4 | 10 | 10 | 20 | |
| 1. | Magnitude Uncertainty for M≥ 4.5 | М | M ±0.2 | | | | |
| 1.: | Magnitude Estimation Accuracy (Md, Ml, Mo, Mb) for M<4.5 | М | | | | | |
| 1.0 | Network average station uptime | . 96 | 90 | | | | |
| 1.1 | Waveform Data Return Rate for Triggered data | 96 | | 95 | | NA | |
| Real-Ti | ne/Automated Product Generation | | | | | | |
| 2.3 | Hypocenter Post Time | min. | 2 | 4 | 6 | 15 | |
| 2.3 | Magnitude Post Time | min. | 3 | 4 | 6 | 15 | |
| 2. | Moment Tensor Post Time M≥4.5 (M≥5.5 non-US) | min. | ı. 15 | | 30 | | |
| 2. | Initial Internet Quick Report Post Time M≥3.5 | min. | 15 | 15 | 30 | NA | |
| 2. | ShakeMap Post Time | min. | 5 | 10 | 1.5 | 20 | |
| | tion of Seismologist-Reviewed Products for ant Earthquakes | | | | | | |
| 3. | Reviewed Hypocenter Post Time | min. | 10 | | 20 | | |
| 3.: | Reviewed Magnitude Post Time | min. | 10 20 | | | | |
| 3.3 | Reviewed Moment Tensor Post Time M≥4.5 (M≥5.5 non-US) | min. | 30 | | | | |
| 3. | Reviewed Internet Quick Report Post Time | min. | 30 | 45 | 60 | NA | |
| 3.: | Reviewed ShakeMap Post Time | min. | 15 | 30 | 30 | 60 | |
| Data Es | change Between ANSS Networks | | | | | | |
| 4.3 | Waveform Availability Timeliness | sec. | 30 | | 60 | 60 | |
| 4.: | Amplitude Availability Timeliness | sec. | 30 | | 60 | | |
| 4.: | Phase Picks Availability Timeliness | sec. | 30 6 | | 60 | | |
| Data Aı | chiving and Public Distribution | | | | | | |
| 5.3 | Availability of Waveforms to External Users | min. | min. 60 | | | | |
| 5.: | Availability of Event Bulletin (parametric data) | min. | a. 60 120 | | 120 | | |
| 5.3 | Metadata availability (current) | % | % 99 | | | | |
| 5. | Data import into archive | min. | to be determined | | | | |

Measuring Ourselves Against the ANSS Performance Standards

Motivation

It will take time and effort to develop the policy and procedures that will be used to objectively and uniformly measure ourselves against a standard

Starting now on some of the standards will make it easier to rollout CISN software and encourage adoption of new and emerging software systems like INV and NoisePDF

Developing measurement standards and evaluating ourselves against the standard will help with regional planning and implementation of ANSS

Strawman Standards to Measure

•Audit of station metadata based on noise PDF measurements

 Accurate metadata needed for rollout of CISN software and archival of data at an ANSS designated archive

 Reporting of waveform completeness
ANSS Backbone, GSN and TA Stations are measured

•Tabulating time to delivery of automatic and reviewed event solutions