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NEON Glossary of Terms

PREPARED BY	ORGANIZATION	DATE
Anne Balsley	Systems Engineering	09/29/2011

APPROVALS (Name)	ORGANIZATION	APPROVAL DATE
Tony Beasley	CCB CHAIR	9/27/2011

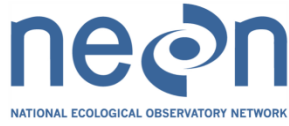
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See Configuration Management System for approval history.

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Change Record

REVISION	DATE	ECO#	DESCRIPTION OF CHANGE
A	8/12/2010	NEON.SYS.000249.CRE	Initial Release
B	09/23/2011	ECO-00283	Update to new document number's/template throughout document.



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1 DESCRIPTION

This document provides the NEON Glossary of Terms and definitions for the NEON Project. The NEON Glossary of Terms will serve as a guide for each team to use when communicating and writing documentation that will be used throughout the NEON project.

Business Terms

Accounting Periods

A defined period of time whereby performance reports may be extracted (Federal reports on quarterly basis; fiscal year ends October 1).

Advanced Shipping Notice (ASN)

Asset

Any serialized object and bar-coded with the Asset Management System (AMS)

Asset Hierarchy

Tree structure representing the parent child relationship of assets.

Asset ID

This is the serial # assigned to any NEON asset.

Bill of Materials (BOM)

A list of the raw materials, sub-assemblies, intermediate assemblies, sub-components, components, parts and the quantities of each needed to manufacture an end product.

Consumable

Low-value objects not under inventory control and are expensed upon receipt. These are not considered in the value of fixed assets.

Customer

A person or a company that requests an entity to transport goods on their behalf.

Fixed Asset

An asset or group of assets capitalized and depreciated as a "system", with a value greater than \$5k and a useful life over one year. A BOM represents the structure of fixed assets capitalized as "systems".

Inventory

A collection of items in storage. All such items have a part number and are tracked by bin location and quantity.

Leaf Area Index (LAI)

Leaf Area Index (LAI) is the ratio of total upper leaf surface of vegetation divided by the surface area of land on which the vegetation grows. LAI is a dimensionless value, typically ranging from 0 for bare ground to 6 for a dense forest.

Purchase Order

An authorized order from a purchasing agent to a vendor.

Technical Terms

Assembly

A group of machine parts, esp. one forming a self-contained, independently mounted unit. Assemblies combine with sensors to form instruments.

Association

A relationship between two or more entities. Implies a connection of some type – for example one entity uses the services of another or one entity is connected to another over a network link.

Bin

Location within a store room where inventory is stored.

Deployment Architecture

A view of the proposed hardware that will make up the new system, together with the physical components that will execute on that hardware. Includes specifications for machine, operating systems, network links, back up units & etc.

Instrument

A device for recording, measuring, and/or controlling, especially such a device functioning as part of a control system. An instrument has one or more sensors and one or more assemblies making up its parts.

Interface

A common boundary between systems where data is exchanged.

Item

Any object residing in storage considered inventory, examples: nuts & bolts.

Item #

Synonymous with part# assigned by NEON.

Job Plan

A list of tasks, labor, materials, and tools used as a template for a work order.

Part

Any item within the observatory. Used as a generic term in use cases.

Rating Curve

A continuous record of stream discharge or flow (hydrograph) is established by developing a mathematical relationship between water stage, which is continuously measured at the monitoring station, and discharge. This stage-discharge relationship, or "rating curve", is developed by pairing stage data with individual point-in-time discharge measurements. To properly develop a rating curve, discharge measurements should be made at a variety of water stages, from low to high. Using the rating

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curve, all water stages continuously measured at the monitoring station can be converted to flows, thereby establishing a flow record (hydrograph) for a given time period.

Sensor

A device that measures a physical quantity and converts it into a signal ready by an observer.

Service Request

A construct which indicates corrective maintenance is required within the observatory. A Service Request (SR) is only used during operations.

Store Room

Any location within NEON used for storing inventory and is represented by “bin location(s)” within the management system.

Use Case

A Use Case represents a discrete unit of interaction between a user (human or machine) and the system. A Use Case is a single unit of meaningful work; for example collection of mosquitoes, monitoring sites, and managing assets are all Use Cases.

Each Use Case has a description which describes the functionality in the observatory. A Use Case may 'include' another Use Case's functionality or 'extend' another Use Case with its own behavior.

Use Cases are typically related to 'actors'. An actor is a human or machine entity interacting with the system to perform meaningful work.

Work Order

A construct for assigning work to individuals or organizations.